
Appendix C1

Local Air Quality Assessments

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor	
Receptor Name	Cairn Primary School
Assessment year	2025
Receptor number	14

Pollutant	Annual mean			For comparison with Air Quality Standards	
	Background concentration	Road traffic component	Total	Metric	Units
CO	0.00	0.01	0.01	Annual mean*	mg/m ³
Benzene	0.00	0.01	0.01	Annual mean	µg/m ³
1,3-butadiene	0.00	0.01	0.01	Annual mean	µg/m ³
NO _x	0.0	1.6	1.6	Not applicable	µg/m ³
NO ₂	0.0	0.8	0.8	Annual mean*	µg/m ³
PM ₁₀	9.1	0.16	9.26	Annual mean Days >50µg/m ³	µg/m ³ Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean					
Link number	CO (mg/m ³)	Benzene (µg/m ³)	1,3-butadiene (µg/m ³)	NO _x (µg/m ³)	PM ₁₀ (µg/m ³)
1	0.01	0.01	0.01	1.62	0.16
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO _x	NO ₂ *	PM ₁₀	
			Annual mean mg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Days >50µg/m ³
1	Carrick Academy	2025	0.02	0.02	0.03	5.66	2.33	9.63	0.00
2	42 Whitehall	2025	0.04	0.04	0.06	12.31	4.41	10.27	0.00
3	Maybole Health Centre and Day Hospital	2025	0.08	0.08	0.10	16.14	5.48	10.88	0.00
4	19 Cassillis Terrace	2025	0.05	0.06	0.07	13.46	4.74	10.45	0.00
5	2 High Smithson Cottages	2025	0.04	0.04	0.05	10.68	3.93	10.08	0.00
6	Burns Drive	2025	0.00	0.00	0.00	0.04	0.03	9.11	0.00
10	The ranch								
11	New Build	2025	0.01	0.01	0.00	1.07	0.56	9.21	0.00
12	Broomknowes Housing	2025	0.01	0.01	0.01	1.10	0.57	9.24	0.00
13	St Cuthberts RC Primary School	2025	0.01	0.01	0.02	4.02	1.75	9.48	0.00
14	Cairn Primary School	2025	0.03	0.03	0.04	7.25	2.86	9.62	0.00
			0.01	0.01	0.01	1.62	0.80	9.26	0.00

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor	
Receptor Name	Cairn Primary School
Assessment year	2018
Receptor number	14

Pollutant	Annual mean			For comparison with Air Quality Standards	
	Background concentration	Road traffic component	Total	Metric	Value
CO	0.00	0.00	0.00	Annual mean*	0.00
Benzene	0.00	0.00	0.00	Annual mean	0.00
1,3-butadiene	0.00	0.00	0.00	Annual mean	0.00
NO _x	0.0	0.4	0.4	Annual mean*	Not applicable
NO ₂	0.0	0.2	0.2	Annual mean*	0.2
PM ₁₀	9.4	0.05	9.45	Annual mean Days >50µg/m ³	9.4 0

* See Feetnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean					
Link number	CO (mg/m ³)	Benzene (µg/m ³)	1,3-butadiene (µg/m ³)	NO _x (µg/m ³)	PM ₁₀ (µg/m ³)
1	0.00	0.00	0.00	0.41	0.05
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO* (mg/m ³)	Benzene (µg/m ³)	1,3-butadiene (µg/m ³)	NO _x (µg/m ³)	NO ₂ * (µg/m ³)	PM ₁₀ (µg/m ³)	
1	Carrick Academy	2018	0.00	0.00	0.00	0.89	0.48	9.47	0.00
2	42 Whitehall	2018	0.02	0.02	0.01	2.63	1.22	9.72	0.00
3	Maybole Health Centre and Day Hospital	2018	0.03	0.04	0.02	3.67	1.62	9.94	0.00
4	19 Cassillis Terrace	2018	0.02	0.02	0.02	3.42	1.52	9.80	0.00
5	2 High Smithson Cottages	2018	0.01	0.01	0.01	2.59	1.20	9.69	0.00
6	Burns Drive	2018	0.00	0.00	0.00	0.57	0.32	9.45	0.00
7	21 Enoch Road	2018	0.00	0.00	0.00	0.40	0.24	9.44	0.00
8	Garden Rose Primary School	2018	0.00	0.00	0.00	0.31	0.19	9.43	0.00
9	Kirklandhill Farm	2018	0.00	0.00	0.00	0.34	0.20	9.43	0.00
10	The Ranch	2018	0.01	0.01	0.00	1.03	0.54	9.50	0.00
11	New Build	2018	0.01	0.01	0.01	2.05	0.98	9.61	0.00
12	Broomknowes Housing	2018	0.01	0.01	0.01	3.13	1.42	9.67	0.00
13	St Cuthberts RC Primary School	2018	0.01	0.01	0.01	1.84	0.90	9.62	0.00
14	Cairn Primary School	2018	0.00	0.00	0.00	0.41	0.24	9.45	0.00

* See Feetnote 32 in DMRB Volume 11 Chapter 3

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OUTPUT SHEET

Current receptor

Receptor Name	Cairn Primary School	Receptor number	14
Assessment year	2018		

Results

Pollutant	Annual mean			For comparison with Air Quality Standards	
	Background concentration	Road traffic component	Total	Metric	Value
CO	0.00	0.01	0.01	Annual mean*	0.01
Benzene	0.00	0.01	0.01	Annual mean	0.01
1,3-butadiene	0.00	0.01	0.01	Annual mean	0.01
NO _x	0.0	1.5	1.5	Not applicable	
NO ₂	0.0	0.8	0.8	Annual mean*	0.8
PM ₁₀	9.4	0.14	9.54	Annual mean Days >50µg/m ³	9.5 0

* See Footnote 32 in DMRB Volume 11 Chapter 3

Link number	Contribution of each link to annual mean				
	CO (mg/m ³)	Benzene (µg/m ³)	1,3-butadiene (µg/m ³)	NO _x (µg/m ³)	PM ₁₀ (µg/m ³)
1	0.01	0.01	0.01	1.54	0.14
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO _x	NO ₂ *	PM ₁₀	
1	Carrick Academy	2018	0.02	0.02	0.02	5.41	2.24	9.87	0.00
2	42 Whitehall	2018	0.04	0.04	0.06	11.86	4.28	10.46	0.00
3	aybole Health Centre and Day Hospital	2018	0.07	0.07	0.09	15.32	5.26	11.00	0.00
4	19 Cassilis Terrace	2018	0.05	0.05	0.06	12.79	4.54	10.59	0.00
5	2 High Smithson Cottages	2018	0.03	0.03	0.04	10.42	3.85	10.29	0.00
6	Burns Drive	2018	0.00	0.00	0.00	0.04	0.03	9.40	0.00
10	The Ranch	2018	0.01	0.01	0.00	1.03	0.54	9.50	0.00
11	New Build	2018	0.01	0.01	0.01	1.05	0.55	9.52	0.00
12	Broomknowes Housing	2018	0.01	0.01	0.02	3.84	1.68	9.74	0.00
13	St Cuthberts RC Primary School	2018	0.03	0.03	0.03	6.88	2.74	10.04	0.00
14	Cairn Primary School	2018	0.01	0.01	0.01	1.54	0.77	9.54	0.00

* See Footnote 32 in DMRB Volume 11 Chapter 3

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OUTPUT SHEET

Current receptor	
Receptor Name	Burns Drive
Assessment year	2013
Receptor number	16

Pollutant	Annual mean			For comparison with Air Quality Standards	
	Background concentration	Road traffic component	Total	Metric	Units
CO	0.00	0.00	0.00	Annual mean*	mg/m ³
Benzene	0.00	0.00	0.00	Annual mean	µg/m ³
1,3-butadiene	0.00	0.00	0.00	Annual mean	µg/m ³
NO _x	0.0	0.6	0.6	Not applicable	
NO ₂	0.0	0.4	0.4	Annual mean*	µg/m ³
PM ₁₀	9.7	0.05	9.75	Annual mean Days >50µg/m ³	µg/m ³ Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean					
Link number	CO (mg/m ³)	Benzene (µg/m ³)	1,3-butadiene (µg/m ³)	NO _x (µg/m ³)	PM ₁₀ (µg/m ³)
1	0.00	0.00	0.00	0.04	0.01
2	0.00	0.00	0.00	0.60	0.05
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors				Pollutant concentrations at receptor					
Receptor number	Name	Year	CO* mg/m ³	Benzene µg/m ³	1,3-butadiene µg/m ³	NO _x µg/m ³	NO ₂ * µg/m ³	PM ₁₀	
								Annual mean	Days >50µg/m ³
1	Carrick Academy	2013	0.00	0.00	0.00	1.02	0.54	9.78	0.00
2	42 Whitehall	2013	0.02	0.02	0.01	2.95	1.34	10.05	0.00
3	Maybole Health Centre and Day Hospital	2013	0.03	0.04	0.03	4.16	1.80	10.28	0.00
4	19 Cassillis Terrace	2013	0.02	0.02	0.02	3.95	1.72	10.15	0.00
5	High Smithson Cottages	2013	0.01	0.01	0.01	2.92	1.33	10.01	0.00
6	Burns Drive	2013	0.00	0.00	0.00	0.65	0.36	9.75	0.00
7	21 Enoch Road	2013	0.00	0.00	0.00	0.49	0.28	9.74	0.00
8	Garden Rose Primary School	2013	0.00	0.00	0.00	0.37	0.22	9.73	0.00
9	Kirklandhill Farm	2013	0.00	0.00	0.00	0.41	0.24	9.74	0.00
10	The Ranch	2013	0.01	0.01	0.00	1.16	0.60	9.81	0.00
11	New Build	2013	0.01	0.01	0.01	2.28	1.08	9.93	0.00
12	Broomknowes Housing	2013	0.01	0.01	0.01	3.69	1.63	10.01	0.00
13	St Cuthberts RC Primary School	2013	0.01	0.01	0.01	2.12	1.02	9.94	0.00
14	Calim Primary School	2013	0.00	0.00	0.00	0.47	0.28	9.75	0.00

* See Footnote 32 in DMRB Volume 11 Chapter 3

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OUTPUT SHEET

Current receptor	
Receptor Name	Cairn Primary School
Assessment year	2013
Receptor number	14

Pollutant	Annual mean			For comparison with Air Quality Standards	
	Background concentration	Road traffic component	Total	Metric	Value
	Units	Units	Units	Units	Units
CO	0.00	0.01	0.01	Annual mean*	0.01
Benzene	0.00	0.01	0.01	Annual mean	0.01
1,3-butadiene	0.00	0.01	0.01	Annual mean	0.01
NO _x	0.0	1.8	1.8	Not applicable	
NO ₂	0.0	0.9	0.9	Annual mean*	0.9
PM ₁₀	9.7	0.17	9.87	Annual mean Days >50µg/m ³	9.9 0

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean					
Link number	CO (mg/m ³)	Benzene (µg/m ³)	1,3-butadiene (µg/m ³)	NO _x (µg/m ³)	PM ₁₀ (µg/m ³)
1	0.01	0.01	0.01	1.84	0.17
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO* Annual mean µg/m ³	Benzene Annual mean µg/m ³	1,3-butadiene Annual mean µg/m ³	NO _x Annual mean µg/m ³	NO ₂ * Annual mean µg/m ³	PM ₁₀ Annual mean µg/m ³ Days >50µg/m ³	
1	Carrick Academy	2013	0.02	0.02	0.02	6.44	2.59	10.25	0.00
2	42 Whitehall	2013	0.04	0.04	0.05	14.14	4.93	10.93	0.00
3	Maybole Health Centre and Day Hospital	2013	0.07	0.07	0.09	18.38	6.08	11.55	0.00
4	19 Cassilis Terrace	2013	0.05	0.05	0.06	15.28	5.24	11.07	0.00
5	High Smithson Cottages	2013	0.03	0.03	0.04	12.27	4.40	10.72	0.00
6	Burns Drive	2013	0.00	0.00	0.00	0.05	0.04	9.71	0.00
10	The Ranch	2013	0.01	0.01	0.00	1.16	0.60	9.81	0.00
11	New Build	2013	0.01	0.01	0.01	1.22	0.63	9.84	0.00
12	Broomknowes Housing	2013	0.01	0.01	0.02	4.58	1.95	10.09	0.00
13	St Cuthberts RC Primary School	2013	0.03	0.03	0.03	8.22	3.17	10.44	0.00
14	Cairn Primary School	2013	0.01	0.01	0.01	1.84	0.90	9.87	0.00

* See Footnote 19 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor	
Receptor Name	Cair Primary School
Assessment year	2025
Receptor number	14

Pollutant	Annual mean		For comparison with Air Quality Standards	
	Background concentration	Road traffic component	Total	Units
CO	0.00	0.00	0.00	mg/m ³
Benzene	0.00	0.00	0.00	µg/m ³
1,3-butadiene	0.00	0.00	0.00	µg/m ³
NO _x	0.0	0.4	0.4	µg/m ³
NO ₂	0.0	0.3	0.3	µg/m ³
PM ₁₀	9.1	0.05	9.15	µg/m ³

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean					
Link number	CO (mg/m ³)	Benzene (µg/m ³)	1,3-butadiene (µg/m ³)	NO _x (µg/m ³)	PM ₁₀ (µg/m ³)
1	0.00	0.00	0.00	0.43	0.05
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO _x	NO ₂ *	PM ₁₀	
1	Carrick Academy	2025	0.00	0.00	0.00	0.91	0.49	9.17	0.00
2	42 Whitehall	2025	0.02	0.02	0.01	2.77	1.27	9.46	0.00
3	Maybole health Centre and Day Hospital	2025	0.04	0.04	0.03	3.81	1.67	9.69	0.00
4	19 Cassillis terrace	2025	0.02	0.02	0.02	3.56	1.58	9.55	0.00
5	2 High Smithson Cottages	2025	0.01	0.02	0.01	2.72	1.25	9.43	0.00
6	Burns Drive	2025	0.00	0.00	0.00	0.59	0.33	9.15	0.00
7	21 Enoch Road	2025	0.00	0.00	0.00	0.41	0.24	9.14	0.00
8	Garden Rose primary School	2025	0.00	0.00	0.00	0.32	0.19	9.13	0.00
9	Kirklandhill Farm	2025	0.00	0.00	0.00	0.35	0.21	9.13	0.00
10	The ranch	2025	0.01	0.01	0.00	1.07	0.56	9.21	0.00
11	New Build	2025	0.01	0.01	0.01	2.12	1.01	9.33	0.00
12	Broomknowes Housing	2025	0.01	0.01	0.01	3.23	1.45	9.40	0.00
13	St Cuthberts RC Primary School	2025	0.01	0.01	0.01	1.91	0.93	9.34	0.00
14	Cair Primary School	2025	0.00	0.00	0.00	0.43	0.25	9.15	0.00

* See Footnote 32 in DMRB Volume 11 Chapter 3