

APPENDIX 1

Table 1

Location of NO₂ Diffusion Tubes Prior to First Stage Review and Assessment

Site No.	Location	Date Monitoring Commenced	Grid Reference
212	229 Jordanstown Road	July 1999	
216	Newton Gardens	July 1999	
218	202 Carnmoney Road	July 1999	
219	Lenamore Park	July 1999	
1R 1N	Main Street, Ballyclare	July 1999	289 911

Table 4**Location of NO₂ Diffusion Tubes Commencing December 2001**

Site No.	Location	Date Monitoring Commenced	Grid Reference
2	Burnthill Road	December 2001	315 831
3	St Bernards School, Antrim Road	December 2001	323 819
4	Prince Charles Way	December 2001	
6	Greenacres, Glebe Road	December 2001	324 832
7	Valley Leisure Centre	December 2001	336 814
8	74 Shore Road	December 2001	
9	Merville Garden Village	December 2001	348 807
10	M5 at Shore Road	December 2001	354 815
11	44 Sandyknowes Avenue	December 2001	306 827
12	Tudor Park, Mallusk	December 2001	298 834
13	Scullions Road, Mallusk	December 2001	304 829
14	Bottom Main Street, Ballyclare	December 2001	291 909
15	North End, Ballyclare	December 2001	287 913
16	Doagh Village	December 2001	262 895
17	The Longshot, Doagh	December 2001	268 885
18	Main Street, Ballynure	December 2001	319 936
19	A8/Doagh Road	December 2001	310 859
20R 11N	A8/Motorway at Sandyknowes	December 2001	305 832
21	Ballyclare Road/Manse Road	December 2001	314 838
22	Manse Road/Doagh Road	December 2001	
23	Opposite 189 Doagh Road	December 2001	344 829
24	O'Neill Road/Doagh Road	December 2001	355 823
25	Station Road	December 2001	355 824
26R 12N	690 Shore Road	December 2001	367 837
27	Opposite 1A Jordanstown Road	December 2001	365 836
28	Jordanstown Road	December 2001	352 844
29	174 Monkstown Road	December 2001	343 852

Table 5

Location of NO₂ Diffusion Tubes Commencing April 2002

Site No.	Location	Date Monitoring Commenced	Grid Reference
4	Hightown/Mallusk Road junction	April 2002	314 821
8 B13N	Braden Heights, Rathcoole	April 2002	339 819
22	Nortel	April 2002	342 838
30	Hillhead Road/Mill Road roundabout	April 2002	291 909
31	Bernice Road/Mallusk Road	April 2002	277 835
32	Antrim Road (Sandyknowes)	April 2002	306 829
33	Manse Road/Prince Charles Way r'bout	April 2002	314 838
34	Old Carrick Road/Oaklands	April 2002	344 852
35	Henryville Court, Ballyclare	April 2002	296 910

Table 6

Estimation of Annual Mean Nitrogen Dioxide Conc. From Short-Term Monitoring Data as Per Box 6.5 Page 6.8 Technical Guidance TG (03)

Comparison of Newtownabbey Borough Council Site 11 NO₂ Diffusion Tube Results (2003) to Belfast Central AURN Site

Diffusion Tube Monitoring Period 2003	Belfast City Council Annual Mean (Am) (2003)	Belfast City Council Period Mean (PM) (2003)	Ratio (AM Divided by PM)
February	32	38	
March	32	42	
April	32	31	
May	32	25	
September	32	34	
November	32	38	
December	32	42	
Average (7 months)	32	35.7	0.9

Site 11 – average based on 7 months diffusion tube monitoring = 38

$$\text{Annual mean} = 38.0 \times 0.9 = 34.2 \mu\text{gm}^{-3}$$

Table 6 (cont'd)

Estimation of Annual Mean Nitrogen Dioxide Conc. From Short-Term Monitoring Data as Per Box 6.5 Page 6.8 Technical Guidance TG (03)

Comparison of NBC Site 21 NO₂ Diffusion Tube Results (2003) to Belfast Central AURN Site

Diffusion Tube Monitoring Period 2003	Belfast City Council Annual Mean (Am) (2003)	Belfast City Council Period Mean (PM) (2003)	Ratio (AM Divided by PM)
January	32	36	
February	32	38	
March	32	42	
April	32	31	
May	32	25	
July	32	19	
August	32	29	
September	32	34	
October	32	31	
Average (9 months)	32	31.667	1.01

Site 21 – average based on 9 months diffusion tube monitoring = 33

Annual mean = $33.0 \times 1.01 = 33.3 \mu\text{gm}^{-3}$

APPENDIX 2

Table 2

Location of SO₂ Diffusion Tubes Commencing December 2001

Site No.	Location	Date Monitoring Commenced	Grid Reference
1	22 Osterley Park	December 2001	324 825
2	Burnside	December 2001	236 918
3	Glenbroome Park	December 2001	361 835
4	Mountpleasant	December 2001	353 845
5	Waverley Road	December 2001	322 842
6	Burnthill Crescent	December 2001	317 834
7	Carwood Avenue	December 2001	313 835
8	Mountainvale Park	December 2001	313 823
9	Ravelston Avenue	December 2001	328 841
10	Anderson Park, Doagh	December 2001	263 895
11	24 Braden Heights	April 2003	339 819

APPENDIX 3

APPENDIX 4

Number of Houses Burning Coal within 1 x 1 km grid squares

1 x 1 km Grid No.	Area Covered	Total Number of Houses			Coal Burning		
		NI Housing Executive	Other	Total	NI Housing Executive	Other	Total
1	Ballyclare	403	947	1350	183	237	420
2	Carnmoney	100	1854	1954	54	464	518
3	Mossley	756	566	1322	380	142	522
4	Rathcoole	1668	362	2030	758	91	849

REFERENCES

Belfast City Council (April 2004), Second and Third Stages of the National Air Quality Review and Assessment Process

DRD Roads Service (February 2003), Air Quality Assessment Traffic Data Collection

Netcen (April 2003), Revised DMRB Assessment