

Supplementary Appendix

This appendix has been provided by the authors to give readers additional information about their work.

Supplement to: McCreanor J, Cullinan P, Nieuwenhuijsen MJ, et al. Respiratory effects of exposure to diesel traffic in persons with asthma. *N Engl J Med* 2007;357:2348-58.

**Respiratory effects of real-life diesel traffic in persons with asthma.
MS #07-1535**

Supplementary web material

Completeness of data collection

	Valid data n(%)
FEV1	55 (92%)
FVC	55 (92%)
FEF	55 (92%)
FE_{NO}	60 (100%)
EBCpH	60 (100%)
Sputum Neutrophils	43 (72%)
Sputum MPO	41 (68%)
Sputum IL-8	41 (68%)

Table A1 Spearman correlation coefficients (r) between pollutant measurements

	pm_{2.5}	UFP	EC	NO₂	CO
pm_{2.5}	-	0.62	0.73	0.60	0.76
UFP	-	-	0.84	0.58	0.61
EC	-	-	-	0.58	0.73
NO₂	-	-	-	-	0.51

Table A2. results of statistical analyses examining potential interaction between the effects of exposure (Oxford Street vs Hyde Park) and other variables (Table 1 in printed manuscript) for all subjects and, separately, for those with mild and moderate asthma.

ALL SUBJECTS	(d,f)	F	p-value
FEV1			
AGE*EXPOSURE*TIME	(13, 563)	0.49	0.928
SEX*EXPOSURE*TIME	(13, 563)	1.22	0.262
HEIGHT*EXPOSURE*TIME	(13, 563)	0.73	0.734
ETHNICITY*EXPOSURE*TIME	(13, 563)	0.77	0.694
ATOPY*EXPOSURE*TIME	(13, 563)	0.69	0.773
ASTHMA*EXPOSURE*TIME	(13, 563)	0.61	0.849
STEROID*EXPOSURE*TIME	(13, 563)	0.69	0.771
TOLERANCE*EXPOSURE*TIME	(13, 563)	0.48	0.937
EXERCISE*EXPOSURE*TIME	(26, 552)	1.4	0.094
TRAFFIC*EXPOSURE*TIME	(26, 550)	0.95	0.540
FVC			
AGE*EXPOSURE*TIME	(13, 561)	2.28	0.006
SEX*EXPOSURE*TIME	(13, 561)	0.48	0.936
HEIGHT*EXPOSURE*TIME	(13, 561)	0.86	0.594
ETHNICITY*EXPOSURE*TIME	(13, 561)	1.23	0.253
ATOPY*EXPOSURE*TIME	(13, 561)	0.48	0.936
ASTHMA*EXPOSURE*TIME	(13, 561)	2.23	0.008
STEROID*EXPOSURE*TIME	(13, 562)	0.59	0.866
TOLERANCE*EXPOSURE*TIME	(13, 561)	0.87	0.583
EXERCISE*EXPOSURE*TIME	(26, 550)	0.98	0.493
TRAFFIC*EXPOSURE*TIME	(26, 548)	0.99	0.479
FEF			
AGE*EXPOSURE*TIME	(13, 561)	3.8	<0.001
SEX*EXPOSURE*TIME	(13, 561)	2.65	0.001
HEIGHT*EXPOSURE*TIME	(13, 561)	2.3	0.006
ETHNICITY*EXPOSURE*TIME	(13, 561)	0.89	0.559
ATOPY*EXPOSURE*TIME	(13, 561)	0.82	0.634
ASTHMA*EXPOSURE*TIME	(13, 561)	0.85	0.602
STEROID*EXPOSURE*TIME	(13, 562)	0.92	0.527
TOLERANCE*EXPOSURE*TIME	(13, 561)	0.5	0.926
EXERCISE*EXPOSURE*TIME	(26, 550)	0.59	0.947
TRAFFIC*EXPOSURE*TIME	(26, 548)	0.47	0.989
FE_{NO}			
AGE*EXPOSURE*TIME	(13, 578)	1.83	0.036
SEX*EXPOSURE*TIME	(13, 578)	0.76	0.707
HEIGHT*EXPOSURE*TIME	(13, 577)	0.8	0.661
ETHNICITY*EXPOSURE*TIME	(13, 578)	0.93	0.526
ATOPY*EXPOSURE*TIME	(13, 578)	0.85	0.612
ASTHMA*EXPOSURE*TIME	(13, 578)	0.57	0.881
STEROID*EXPOSURE*TIME	(13, 579)	0.47	0.941
TOLERANCE*EXPOSURE*TIME	(13, 578)	1.47	0.125
EXERCISE*EXPOSURE*TIME	(26, 567)	0.74	0.818
TRAFFIC*EXPOSURE*TIME	(26, 565)	0.8	0.754
Exhaled breath condensate pH			
AGE*EXPOSURE*TIME	(5, 193)	0.49	0.787
SEX*EXPOSURE*TIME	(5, 193)	0.1	0.992

HEIGHT*EXPOSURE*TIME	(5, 192)	0.49	0.786
ETHNICITY*EXPOSURE*TIME	(5, 193)	0.57	0.723
ATOPY*EXPOSURE*TIME	(5, 193)	0.69	0.631
ASTHMA*EXPOSURE*TIME	(5, 193)	1.29	0.268
STEROID*EXPOSURE*TIME	(5, 194)	1.25	0.286
TOLERANCE*EXPOSURE*TIME	(5, 193)	1.24	0.293
EXERCISE*EXPOSURE*TIME	(10, 190)	1.79	0.065
TRAFFIC*EXPOSURE*TIME	(10, 188)	1.34	0.214
Myeloperoxidase			
AGE*EXPOSURE	(1, 31)	0.63	0.433
SEX*EXPOSURE	(1, 31)	1.06	0.312
HEIGHT*EXPOSURE	(1, 30)	0.04	0.840
ETHNICITY*EXPOSURE	(1, 31)	3.4	0.075
ATOPY*EXPOSURE	(1, 31)	0.19	0.666
ASTHMA*EXPOSURE	(1, 31)	1.52	0.226
STEROID*EXPOSURE	(1, 31)	1.01	0.322
TOLERANCE*EXPOSURE	(1, 31)	8.91	0.006
EXERCISE*EXPOSURE	(2, 30)	0.02	0.976
TRAFFIC*EXPOSURE	(2, 30)	0.25	0.778
Neutrophils			
AGE*EXPOSURE	(1, 20)	0.02	0.884
SEX*EXPOSURE	(1, 20)	3.38	0.081
HEIGHT*EXPOSURE	(1, 20)	1.05	0.317
ETHNICITY*EXPOSURE	(1, 20)	0.6	0.448
ATOPY*EXPOSURE	(1, 20)	0.29	0.596
ASTHMA*EXPOSURE	(1, 20)	1.2	0.286
STEROID*EXPOSURE	(1, 20)	0.14	0.714
TOLERANCE*EXPOSURE	(1, 20)	0.26	0.618
EXERCISE*EXPOSURE	(2, 19)	0.2	0.658
TRAFFIC*EXPOSURE	(2, 19)	0.39	0.683
IL-8			
AGE*EXPOSURE	(1, 33)	0.17	0.921
SEX*EXPOSURE	(1, 33)	0.28	0.601
HEIGHT*EXPOSURE	(1, 32)	6.78	0.014
ETHNICITY*EXPOSURE	(1, 33)	1.68	0.203
ATOPY*EXPOSURE	(1, 33)	0.02	0.894
ASTHMA*EXPOSURE	(1, 33)	0.03	0.870
STEROID*EXPOSURE	(1, 33)	0.22	0.642
TOLERANCE*EXPOSURE	(1, 33)	0.06	0.803
EXERCISE*EXPOSURE	(2, 32)	3.71	0.036
TRAFFIC*EXPOSURE	(2, 32)	0.36	0.701

MILD ASTHMA	(d,f)	F	p-value
FEV1			
AGE*EXPOSURE*TIME	(13, 293)	1.29	0.219
SEX*EXPOSURE*TIME	(13, 293)	0.87	0.587
HEIGHT*EXPOSURE*TIME	(13, 293)	0.71	0.751
ETHNICITY*EXPOSURE*TIME	(13, 293)	1.12	0.337
ATOPY*EXPOSURE*TIME	(13, 293)	0.5	0.921
STEROID*EXPOSURE*TIME	(13, 293)	0.9	0.556
TOLERANCE*EXPOSURE*TIME	(13, 293)	0.79	0.669
EXERCISE*EXPOSURE*TIME	(26, 281)	0.88	0.644

TRAFFIC*EXPOSURE*TIME	(26, 281)	1.55	0.045
FVC			
AGE*EXPOSURE*TIME	(13, 292)	2.28	0.007
SEX*EXPOSURE*TIME	(13, 292)	1.03	0.419
HEIGHT*EXPOSURE*TIME	(13, 292)	1.35	0.185
ETHNICITY*EXPOSURE*TIME	(13, 292)	0.91	0.540
ATOPY*EXPOSURE*TIME	(13, 292)	0.65	0.809
STEROID*EXPOSURE*TIME	(13, 292)	0.74	0.725
TOLERANCE*EXPOSURE*TIME	(13, 292)	1	0.453
EXERCISE*EXPOSURE*TIME	(26, 280)	0.83	0.710
TRAFFIC*EXPOSURE*TIME	(26, 280)	1.25	0.188
FEF			
AGE*EXPOSURE*TIME	(13, 292)	4.17	<0.001
SEX*EXPOSURE*TIME	(13, 292)	0.97	0.481
HEIGHT*EXPOSURE*TIME	(13, 292)	1.57	0.094
ETHNICITY*EXPOSURE*TIME	(13, 292)	0.46	0.947
ATOPY*EXPOSURE*TIME	(13, 292)	0.44	0.955
STEROID*EXPOSURE*TIME	(13, 292)	0.71	0.749
TOLERANCE*EXPOSURE*TIME	(13, 292)	0.43	0.960
EXERCISE*EXPOSURE*TIME	(26, 280)	0.51	0.978
TRAFFIC*EXPOSURE*TIME	(26, 280)	0.63	0.924
FE_{No}			
AGE*EXPOSURE*TIME	(13, 299)	1.2	0.276
SEX*EXPOSURE*TIME	(13, 300)	1.02	0.428
HEIGHT*EXPOSURE*TIME	(13, 298)	1.12	0.345
ETHNICITY*EXPOSURE*TIME	(13, 300)	0.21	0.999
ATOPY*EXPOSURE*TIME	(13, 300)	0.5	0.923
STEROID*EXPOSURE*TIME	(13, 300)	0.44	0.955
TOLERANCE*EXPOSURE*TIME	(13, 300)	1.39	0.165
EXERCISE*EXPOSURE*TIME	(26, 288)	0.92	0.584
TRAFFIC*EXPOSURE*TIME	(26, 288)	1.13	0.307
Exhaled breath condensate pH			
AGE*EXPOSURE*TIME	(5, 99)	0.7	0.624
SEX*EXPOSURE*TIME	(5, 100)	0.05	0.999
HEIGHT*EXPOSURE*TIME	(5, 100)	1.54	0.184
ETHNICITY*EXPOSURE*TIME	(5, 100)	0.74	0.595
ATOPY*EXPOSURE*TIME	(5, 100)	0.49	0.785
STEROID*EXPOSURE*TIME	(5, 100)	0.92	0.469
TOLERANCE*EXPOSURE*TIME	(5, 100)	2	0.085
EXERCISE*EXPOSURE*TIME	(10, 96)	1.61	0.115
TRAFFIC*EXPOSURE*TIME	(10, 96)	1.84	0.063
Myeloperoxidase			
AGE*EXPOSURE	(1, 16)	0	0.974
SEX*EXPOSURE	(1, 16)	0.43	0.521
HEIGHT*EXPOSURE	(1, 16)	0.41	0.531
ETHNICITY*EXPOSURE	(1, 16)	3.52	0.079
ATOPY*EXPOSURE	(1, 16)	0.01	0.909
STEROID*EXPOSURE	(1, 16)	0.03	0.868
TOLERANCE*EXPOSURE	(1, 16)	0.49	0.495
EXERCISE*EXPOSURE	(2, 15)	0.37	0.699
TRAFFIC*EXPOSURE	(2, 15)	1.01	0.386
Neutrophils			
AGE*EXPOSURE	(1, 11)	1.45	0.255
SEX*EXPOSURE	(1, 12)	3.92	0.071

HEIGHT*EXPOSURE	(1, 11)	0.47	0.508
ETHNICITY*EXPOSURE	(1, 12)	0.23	0.639
ATOPY*EXPOSURE	(1, 12)	0.06	0.811
STEROID*EXPOSURE	(1, 12)	0.03	0.864
TOLERANCE*EXPOSURE	(1, 12)	0.01	0.915
EXERCISE*EXPOSURE	(1, 12)	0.27	0.612
TRAFFIC*EXPOSURE	(2, 11)	0.29	0.753
IL-8			
AGE*EXPOSURE	(1, 18)	0.19	0.667
SEX*EXPOSURE	(1, 18)	0.03	0.867
HEIGHT*EXPOSURE	(1, 17)	2.52	0.131
ETHNICITY*EXPOSURE	(1, 18)	0.66	0.426
ATOPY*EXPOSURE	(1, 18)	0.02	0.896
STEROID*EXPOSURE	(1, 18)	0.74	0.402
TOLERANCE*EXPOSURE	(1, 18)	0.13	0.724
EXERCISE*EXPOSURE	(2, 17)	3.25	0.063
TRAFFIC*EXPOSURE	(2, 17)	1.31	0.295

Moderate asthma	(d,f)	F	p-value
FEV1			
AGE*EXPOSURE*TIME	(13, 244)	0.5	0.925
SEX*EXPOSURE*TIME	(13, 244)	1.16	0.307
HEIGHT*EXPOSURE*TIME	(13, 244)	1.09	0.367
ETHNICITY*EXPOSURE*TIME	(13, 244)	0.84	0.619
ATOPY*EXPOSURE*TIME	(13, 245)	0.72	0.740
STEROID*EXPOSURE*TIME	(13, 245)	0.65	0.810
TOLERANCE*EXPOSURE*TIME	(13, 244)	0.62	0.837
EXERCISE*EXPOSURE*TIME	(13, 245)	1.29	0.220
TRAFFIC*EXPOSURE*TIME	(26, 233)	0.87	0.647
FVC			
AGE*EXPOSURE*TIME	(13, 243)	0.97	0.487
SEX*EXPOSURE*TIME	(13, 243)	0.29	0.993
HEIGHT*EXPOSURE*TIME	(13, 242)	1.11	0.352
ETHNICITY*EXPOSURE*TIME	(13, 243)	1.31	0.209
ATOPY*EXPOSURE*TIME	(13, 244)	0.54	0.900
STEROID*EXPOSURE*TIME	(13, 244)	1.03	0.420
TOLERANCE*EXPOSURE*TIME	(13, 243)	0.92	0.535
EXERCISE*EXPOSURE*TIME	(13, 244)	0.96	0.489
TRAFFIC*EXPOSURE*TIME	(26, 232)	1.08	0.368
FEF			
AGE*EXPOSURE*TIME	(13, 243)	2.88	<0.001
SEX*EXPOSURE*TIME	(13, 243)	1.03	0.418
HEIGHT*EXPOSURE*TIME	(13, 242)	0.81	0.649
ETHNICITY*EXPOSURE*TIME	(13, 243)	1.03	0.420
ATOPY*EXPOSURE*TIME	(13, 244)	0.82	0.634
STEROID*EXPOSURE*TIME	(13, 244)	0.96	0.497
TOLERANCE*EXPOSURE*TIME	(13, 243)	0.76	0.704
EXERCISE*EXPOSURE*TIME	(26, 244)	0.42	0.964
TRAFFIC*EXPOSURE*TIME	(26, 232)	1.15	0.284
FE_{No}			
AGE*EXPOSURE*TIME	(13, 252)	1.99	0.022

SEX*EXPOSURE*TIME	(13, 252)	0.69	0.774
HEIGHT*EXPOSURE*TIME	(13, 251)	1.11	0.350
ETHNICITY*EXPOSURE*TIME	(13, 252)	1.41	0.153
ATOPY*EXPOSURE*TIME	(13, 253)	1.89	0.032
STEROID*EXPOSURE*TIME	(13, 253)	0.82	0.636
TOLERANCE*EXPOSURE*TIME	(13, 252)	1.23	0.259
EXERCISE*EXPOSURE*TIME	(13, 253)	1.12	0.343
TRAFFIC*EXPOSURE*TIME	(26, 241)	0.54	0.970
Exhaled breath condensate pH			
AGE*EXPOSURE*TIME	(5, 83)	0.66	0.651
SEX*EXPOSURE*TIME	(5, 83)	0.43	0.827
HEIGHT*EXPOSURE*TIME	(5, 83)	0.23	0.947
ETHNICITY*EXPOSURE*TIME	(5, 83)	0.81	0.544
ATOPY*EXPOSURE*TIME	(5, 84)	0.95	0.453
STEROID*EXPOSURE*TIME	(5, 84)	0.55	0.739
TOLERANCE*EXPOSURE*TIME	(5, 83)	0.99	0.426
EXERCISE*EXPOSURE*TIME	(5, 84)	0.4	0.845
TRAFFIC*EXPOSURE*TIME	(10, 80)	0.92	0.522
Myeloperoxidase			
AGE*EXPOSURE	(1, 12)	0.77	0.398
SEX*EXPOSURE	(1, 13)	1.3	0.275
HEIGHT*EXPOSURE	(1, 13)	0.03	0.862
ETHNICITY*EXPOSURE	(1, 13)	2.72	0.123
ATOPY*EXPOSURE	(1, 13)	0.1	0.758
STEROID*EXPOSURE	(1, 13)	0.34	0.569
TOLERANCE*EXPOSURE	(1, 13)	4.45	0.055
EXERCISE*EXPOSURE	(2, 13)	0.01	0.915
TRAFFIC*EXPOSURE	(2, 12)	0.27	0.771
Neutrophils			
AGE*EXPOSURE	(1, 6)	0.45	0.528
SEX*EXPOSURE	(1, 6)	0	0.975
HEIGHT*EXPOSURE	(1, 6)	0.14	0.723
ETHNICITY*EXPOSURE	(1, 6)	0.16	0.706
ATOPY*EXPOSURE	(1, 6)	3.72	0.102
STEROID*EXPOSURE	(1, 6)	0.05	0.835
TOLERANCE*EXPOSURE	(1, 6)	0.16	0.700
EXERCISE*EXPOSURE	(1, 6)	0	0.970
TRAFFIC*EXPOSURE	(2, 5)	0.06	0.946
IL-8			
AGE*EXPOSURE	(1, 12)	0.73	0.409
SEX*EXPOSURE	(1, 13)	0.44	0.519
HEIGHT*EXPOSURE	(1, 13)	4.81	0.047
ETHNICITY*EXPOSURE	(1, 13)	1.04	0.327
ATOPY*EXPOSURE	(1, 13)	0.38	0.549
STEROID*EXPOSURE	(1, 13)	0.13	0.726
TOLERANCE*EXPOSURE	(1, 13)	0	0.987
EXERCISE*EXPOSURE	(1, 13)	0.02	0.882
TRAFFIC*EXPOSURE	(2, 12)	0.64	0.544

Table A3i. Point estimates and 95% confidence intervals(CI) of the percent change in health endpoints per 10,000 particles/cm³ incremental change in ultrafine particle concentrations averaged over the exposure and control sessions. Point estimates are adjusted for EC, PM_{2.5}, and NO₂, respectively

Endpoint at time=t hours	Single Pollutant Model				EC				PM _{2.5}				NO ₂			
	Point estimate	95% CI		p	Point estimate	95% CI		p	Point estimate	95% CI		p	Point estimate	95% CI		p
		Lower	Upper			Lower	Upper			Lower	Upper			Lower	Upper	
FEV₁																
2	-0.79	-1.25	-0.33	0.001	-1.15	-2.09	-0.21	0.016	-0.74	-1.33	-0.15	0.014	-0.7	-1.31	-0.1	0.023
3	-0.73	-1.24	-0.21	0.006	-0.66	-1.69	0.37	0.209	-0.75	-1.4	-0.1	0.023	-0.84	-1.51	-0.18	0.013
5	-0.90	-1.46	-0.34	0.002	-0.98	-2.09	0.13	0.082	-0.77	-1.47	-0.07	0.031	-1.01	-1.73	-0.29	0.006
7	-0.66	-1.24	-0.08	0.026	-0.88	-2.01	0.25	0.125	-0.55	-1.27	0.16	0.131	-0.74	-1.48	-0.01	0.047
22	-0.44	-1.04	0.15	0.141	-1.41	-2.55	-0.27	0.016	-0.56	-1.29	0.16	0.129	-0.48	-1.23	0.26	0.199
FVC																
2	-0.56	-1.11	-0.01	0.046	-1.1	-2.21	0.01	0.051	-0.69	-1.41	0.02	0.057	-0.67	-1.41	0.06	0.072
3	-0.61	-1.21	0.00	0.049	-1.03	-2.2	0.14	0.084	-0.83	-1.59	-0.06	0.034	-0.92	-1.7	-0.13	0.022
5	-0.71	-1.37	-0.06	0.032	-1.22	-2.43	-0.02	0.047	-0.82	-1.62	-0.02	0.045	-1.14	-1.96	-0.32	0.007
7	-0.34	-1.01	0.33	0.317	-1.66	-2.87	-0.44	0.008	-0.37	-1.18	0.44	0.375	-0.53	-1.36	0.3	0.207
22	-0.42	-1.10	0.26	0.223	-2.24	-3.46	-1.03	<0.001	-0.81	-1.63	-0.01	0.050	-0.78	-1.62	0.05	0.065
FEF_{25-75%}																
2	-2.24	-3.94	-0.54	0.010	-1.71	-4.91	1.5	0.297	-1.47	-3.75	0.82	0.207	-1.57	-3.96	0.83	0.199
3	-2.22	-4.12	-0.32	0.022	-0.24	-3.46	2.97	0.883	-1.11	-3.45	1.22	0.350	-1.38	-3.8	1.05	0.266
5	-2.81	-4.88	-0.73	0.008	-1.54	-4.75	1.68	0.348	-1.45	-3.8	0.9	0.227	-1.85	-4.28	0.59	0.137
7	-2.12	-4.27	0.02	0.053	0.18	-3.04	3.39	0.914	-1.33	-3.68	1.03	0.268	-1.56	-4	0.87	0.208
22	-1.71	-3.91	0.48	0.125	-0.47	-3.69	2.75	0.774	-1.21	-3.56	1.15	0.314	-0.75	-3.19	1.68	0.544
FE_{NO}																
3	1.01	-1.11	3.12	0.350	-0.81	-4.13	2.52	0.633	-0.16	-2.2	1.89	0.881	-0.7	-2.82	1.42	0.517
4	0.73	-1.58	3.05	0.534	-3.07	-6.64	0.51	0.093	0.36	-1.83	2.54	0.748	-0.4	-2.67	1.88	0.731
5	1.74	-0.72	4.19	0.166	-1.82	-5.56	1.92	0.340	1.66	-0.61	3.93	0.152	0.66	-1.72	3.03	0.587
6	1.13	-1.44	3.70	0.388	-3.27	-7.12	0.58	0.096	0.57	-1.76	2.9	0.630	0.91	-1.53	3.35	0.463
7	0.89	-1.76	3.54	0.510	-2.72	-6.65	1.21	0.174	0.53	-1.84	2.89	0.662	0.09	-2.39	2.58	0.943
22	1.62	-1.30	4.53	0.276	-0.94	-5.04	3.16	0.653	1.13	-1.31	3.56	0.365	1.81	-0.77	4.39	0.168
pH																
3	-0.32	-0.58	-0.05	0.018	-0.56	-1.09	-0.04	0.037	-0.37	-0.7	-0.04	0.029	-0.07	-0.39	0.26	0.690
6	-0.10	-0.38	0.19	0.515	-0.35	-0.94	0.25	0.250	-0.09	-0.46	0.282	0.639	0.06	-0.3	0.42	0.740

Table A3ii. Point estimates and 95% confidence intervals(CI) of the percent change in health endpoints per 1µg/m³ incremental change in elemental carbon concentrations averaged over the exposure and control sessions. Point estimates are adjusted for UFP, PM_{2.5}, and NO₂, respectively

Endpoint at time=t hours	Single Pollutant Model				UFP				PM _{2.5}				NO ₂			
	Point estimate	95% CI		p	Point estimate	95% CI		p	Point estimate	95% CI		p	Point estimate	95% CI		p
		Lower	Upper			Lower	Upper			Lower	Upper			Lower	Upper	
FEV₁																
2	-0.36	-0.63	-0.09	0.010	0.2	-0.33	0.74	0.456	-0.25	-0.6	0.1	0.164	-0.31	-0.64	0.02	0.068
3	-0.42	-0.72	-0.12	0.007	-0.09	-0.68	0.5	0.755	-0.37	-0.76	0.02	0.064	-0.45	-0.82	-0.09	0.016
5	-0.49	-0.81	-0.16	0.004	-0.01	-0.64	0.63	0.988	-0.34	-0.75	0.09	0.124	-0.53	0.93	-0.14	0.008
7	-0.33	-0.67	0.00	0.053	0.1	-0.55	0.75	0.764	-0.17	-0.6	0.26	0.446	-0.37	-0.77	0.03	0.071
22	-0.12	-0.46	0.23	0.497	0.57	-0.08	1.23	0.087	-0.04	-0.48	0.39	0.846	-0.14	-0.54	0.27	0.513
FVC																
2	-0.26	-0.57	0.06	0.111	0.28	-0.35	0.92	0.384	-0.24	-0.66	0.18	0.257	-0.29	-0.69	0.1	0.148
3	-0.32	-0.66	0.02	0.066	0.18	-0.49	0.86	0.590	-0.35	-0.79	0.1	0.126	-0.47	-0.89	-0.05	0.029
5	-0.35	-0.72	0.01	0.059	0.25	-0.44	0.94	0.482	-0.31	-0.77	0.15	0.185	-0.56	-0.99	-0.12	0.012
7	0.00	-0.37	0.37	0.986	0.82	0.12	1.51	0.022	0.16	-0.31	0.62	0.506	-0.1	-0.54	0.33	0.644
22	0.04	-0.33	0.41	0.841	1.14	0.44	1.83	0.001	0.02	-0.44	0.48	0.933	-0.08	-0.52	0.35	0.705
FEF_{25-75%}																
2	-0.74	-1.65	0.18	0.116	0.1	-1.74	1.94	0.917	-0.44	-1.64	0.76	0.467	-0.5	-1.65	0.65	0.394
3	-0.87	-1.85	0.12	0.084	-0.75	-2.59	1.1	0.427	-0.51	-1.72	0.69	0.404	-0.52	-1.67	0.63	0.377
5	-1.12	-2.14	-0.10	0.031	-0.37	-2.22	1.48	0.695	-0.5	-1.7	0.71	0.419	-0.71	-1.86	0.44	0.227
7	-1.11	-2.14	-0.08	0.034	-1.2	-3.04	0.65	0.203	-0.85	-2.05	0.36	0.168	-0.9	-2.05	0.25	0.124
22	-0.75	-1.78	0.28	0.152	-0.52	-2.37	1.33	0.581	-0.64	-1.84	0.57	0.300	-0.44	-1.59	0.71	0.455
FE_{NO}																
3	1.63	0.41	2.85	0.009	0.69	-1.22	2.6	0.478	0.09	-1.17	1.35	0.891	-0.24	-1.43	0.95	0.690
4	1.91	0.57	3.25	0.005	2.08	0.03	4.14	0.047	1.02	-0.35	2.4	0.144	0.47	-0.83	1.77	0.478
5	2.37	0.95	3.79	0.001	1.93	-0.22	4.08	0.079	1.68	0.23	3.13	0.024	0.91	-0.47	2.29	0.196
6	2.18	0.70	3.67	0.004	2.45	0.24	4.67	0.030	1.31	-0.2	2.82	0.090	1.05	-0.39	2.49	0.153
7	1.92	0.39	3.46	0.014	1.92	-0.34	4.18	0.095	1.07	-0.49	2.62	0.178	0.5	-0.99	1.98	0.513
22	1.97	0.28	3.65	0.022	1.09	-1.27	3.44	0.365	1.02	-0.66	2.71	0.234	0.85	-0.78	2.48	0.304
pH																
3	-0.10	-0.26	0.06	0.210	0.18	-0.13	0.48	0.250	-0.11	-0.31	0.09	0.285	0.01	-0.17	0.19	0.947
6	<0.01	-0.17	0.17	0.985	0.17	-0.09	0.51	0.318	0.02	-0.2	0.25	0.839	0.06	-0.14	0.26	0.544

Table A3iii. Point estimates and 95% confidence intervals(CI) of the percent change in health endpoints per 10µg/m³ incremental change in PM_{2.5} concentrations averaged over the exposure and control sessions. Point estimates are adjusted for UFP, PM_{2.5}, and NO₂, respectively.

Endpoint at time=t hours	Single Pollutant Model				UFP				EC				NO ₂				
	Point estimate	95% CI		p	Point estimate	95% CI		p	Point estimate	95% CI		p	Point estimate	95% CI		p	
		Lower	Upper			Lower	Upper			Lower	Upper			Lower	Upper		
FEV₁																	
2	-0.65	-1.52	0.21	0.139	0.03	-1.03	1.1	0.948	-0.39	-1.5	0.71	0.487	-0.57	-1.6	0.45	0.273	
3	-0.46	-1.43	0.51	0.349	0.24	-0.94	1.41	0.694	-0.06	-1.27	1.16	0.928	-0.48	-1.61	0.66	0.410	
5	-0.89	-1.96	0.18	0.103	-0.17	-1.44	1.09	0.789	-0.61	-1.92	0.7	0.363	-0.86	-2.11	0.35	0.163	
7	-0.39	-1.50	0.72	0.490	0.13	-1.17	1.42	0.850	-0.32	-1.66	1.03	0.643	-0.44	-1.71	0.82	0.49	
22	-0.08	-1.22	1.05	0.885	0.44	-0.87	1.75	0.511	-0.32	-1.68	1.04	0.642	0.13	-1.15	1.41	0.839	
FVC																	
2	-0.25	-1.30	0.79	0.635	0.4	-0.9	1.69	0.546	-0.16	-1.48	1.16	0.809	-0.25	-1.51	1.01	0.634	
3	0.07	-1.08	1.22	0.911	0.84	-0.55	2.22	0.237	0.24	-1.16	1.63	0.738	0.07	-1.29	1.42	0.924	
5	-0.23	-1.47	1.01	0.715	0.54	-0.92	1.99	0.470	-0.1	-1.54	1.34	0.893	-0.47	-1.88	0.94	0.512	
7	0.11	-1.16	1.38	0.865	0.45	-1.02	1.92	0.547	-0.4	-1.85	1.05	0.585	-0.01	-1.44	1.41	0.985	
22	0.75	-0.54	2.03	0.254	1.5	0.03	2.97	0.046	0.41	-1.04	1.87	0.576	0.95	-0.57	2.28	0.239	
FEF_{25-75%}																	
2	-3.36	-6.58	-0.15	0.041	-2	-6.12	2.13	0.343	-0.71	-4.46	3.04	0.710	-2.92	-6.99	1.15	0.159	
3	-4.81	-8.41	-1.21	0.009	-0.377	-8	0.45	0.080	-1.59	-5.35	2.17	0.406	-4.39	-8.54	-0.23	0.039	
5	-5.63	-9.59	-1.66	0.006	-4.28	-8.53	-0.02	0.049	-2.88	-6.64	0.88	0.133	-4.71	-8.89	-0.53	0.027	
7	-3.34	-7.44	0.77	0.111	-2.1	-6.36	2.16	0.333	-0.54	-4.3	3.22	0.778	-2.91	-7.09	1.27	0.172	
22	-3.20	-7.41	1.01	0.136	-2.05	-6.31	2.21	0.345	-0.89	-4.65	2.88	0.645	-2.08	-6.26	2.1	0.329	
FE_{NO}																	
3	0.98	-2.96	4.92	0.626	0.74	-2.93	4.41	0.692	0.82	-3.06	4.71	0.677	-0.89	-4.53	2.76	0.633	
4	-0.79	-5.09	3.52	0.720	-1.51	-5.42	2.41	0.450	-2.29	-6.53	1.94	0.288	-2.04	-6.02	1.93	0.313	
5	0.05	-4.53	4.62	0.985	-1.91	-5.98	2.17	0.358	-2.51	-7	1.98	0.273	-1.55	-5.76	2.65	0.468	
6	-0.16	-4.92	4.61	0.949	-1.08	-5.25	3.1	0.612	-2.26	-6.93	2.41	0.342	-0.76	-5.13	3.61	0.734	
7	-0.54	-5.45	4.37	0.828	-1.43	-5.67	2.81	0.510	-2.25	-7.05	2.55	0.358	-1.65	-6.15	2.84	0.471	
22	1.89	-3.48	7.25	0.490	0.44	-3.93	4.81	0.844	-0.18	-5.38	5.02	0.945	1.6	-3.25	6.46	0.517	
pH																	
3	-0.24	-0.75	0.27	0.352	0.11	-0.49	0.7	0.720	0.01	-0.62	0.63	0.988	0.21	-0.34	0.76	0.459	
6	-0.17	-0.73	0.38	0.534	-0.09	-0.75	0.57	0.785	-0.19	-0.88	0.5	0.587	0.08	-0.52	0.68	0.795	

Table A3iv. Point estimates and 95% confidence intervals(CI) of the percent change in health endpoints per 10µg/m³ incremental change in NO₂ concentrations averaged over the exposure and control sessions. Point estimates are adjusted for UFP, PM_{2.5}, and NO₂, respectively

Endpoint at time=t hours	Single Pollutant Model				UFP				PM _{2.5}				EC			
	Point estimate	95% CI		p	Point estimate	95% CI		p	Point estimate	95% CI		p	Point estimate	95% CI		p
		Lower	Upper			Lower	Upper			Lower	Upper			Lower	Upper	
FEV₁																
2	-0.22	-0.40	-0.05	0.012	-0.08	-0.3	0.13	0.448	-0.15	-0.36	0.05	0.148	-0.18	-0.37	0.02	0.079
3	-0.12	-0.32	0.07	0.217	0.04	-0.19	0.28	0.717	-0.09	-0.31	0.14	0.464	-0.05	-0.27	0.17	0.646
5	-0.16	-0.37	0.06	0.152	0.04	-0.21	0.3	0.740	-0.07	-0.31	0.18	0.598	-0.07	-0.31	0.16	0.544
7	-0.11	-0.34	0.11	0.310	0.03	-0.23	0.3	0.808	-0.06	-0.31	0.19	0.642	-0.06	-0.3	0.18	0.614
22	-0.13	-0.35	0.10	0.270	-0.03	-0.3	0.24	0.821	-0.15	-0.4	0.11	0.264	-0.14	-0.38	0.1	0.256
FVC																
2	-0.09	-0.30	0.11	0.376	0.04	-0.23	0.3	0.782	-0.07	-0.32	0.18	0.588	-0.07	-0.31	0.16	0.535
3	-0.07	-0.30	0.16	0.549	0.11	-0.17	0.39	0.440	-0.05	-0.32	0.22	0.717	-0.02	-0.27	0.23	0.855
5	-0.04	-0.29	0.21	0.761	0.19	-0.11	0.48	0.214	0.04	-0.24	0.33	0.768	0.03	-0.23	0.29	0.806
7	-0.06	-0.31	0.20	0.666	0.05	-0.25	0.35	0.742	-0.03	-0.32	0.25	0.811	-0.07	-0.33	0.19	0.601
22	-0.02	-0.28	0.23	0.863	0.13	-0.17	0.43	0.390	-0.07	-0.36	0.21	0.620	-0.05	-0.31	0.21	0.713
FEF_{25-75%}																
2	-0.78	-1.44	-0.13	0.019	-0.47	-1.33	0.39	0.282	-0.48	-1.3	0.34	0.251	-0.43	-1.11	0.26	0.221
3	-0.73	-1.46	0.00	0.051	-0.45	-1.33	0.42	0.309	-0.5	-1.34	0.33	0.236	-0.3	-0.98	0.39	0.393
5	-0.88	-1.69	-0.08	0.031	-0.52	-1.4	0.36	0.247	-0.55	-1.39	0.29	0.199	-0.47	-1.15	0.22	0.181
7	-0.60	-1.43	0.23	0.155	-0.29	-1.17	0.59	0.515	-0.37	-1.21	0.47	0.391	-0.22	-0.9	0.46	0.529
22	-0.75	-1.60	0.10	0.084	-0.59	-1.47	0.29	0.190	-0.66	-1.5	0.18	0.124	-0.49	-1.18	0.2	0.162
FE_{NO}																
3	0.53	-0.27	1.32	0.191	0.36	-0.41	1.12	0.363	0.42	-0.32	1.16	0.270	0.32	-0.39	1.03	0.378
4	0.30	-0.57	1.17	0.498	0.07	-0.76	0.89	0.876	0.32	-0.49	1.13	0.440	-0.04	-0.81	0.74	0.925
5	0.47	-0.45	1.40	0.315	0.03	-0.83	0.88	0.953	0.45	-0.41	1.3	0.303	0.04	-0.78	0.87	0.916
6	0.00	-0.97	0.96	0.994	-0.5	-1.38	0.38	0.263	-0.2	-1.09	0.69	0.660	-0.49	-1.35	0.36	0.258
7	0.11	-0.88	1.11	0.827	-0.22	-1.12	0.67	0.626	0.03	-0.88	0.95	0.941	-0.25	-1.14	0.63	0.573
22	-0.07	-1.16	1.03	0.906	-0.74	-1.68	0.19	0.116	-0.38	-1.36	0.61	0.455	-0.59	-1.56	0.38	0.233
pH																
3	-0.15	-0.25	-0.06	0.002	-0.14	-0.26	-0.02	0.02	-0.19	-0.3	-0.08	<0.001	-0.15	-0.25	-0.04	0.007
6	-0.06	-0.16	0.04	0.246	-0.07	-0.2	0.06	0.27	-0.09	-0.21	0.04	0.164	-0.07	-0.19	0.05	0.230

Table 4ii. Individual measurements of lung function (%predicted values) before and after each exposure session.
FEV=forced expiratory volume in 1 second
FEF = mid-expiratory flow
FVC = forced vital capacity

id	Exposure	Before exposure						After exposure																	
		-2 hours			+0 hours			+1 hour			+2 hours			+3 hours			+5 hours			+7 hours			+22 hours		
		FEV	FEF	FVC	FEV	FEF	FVC	FEV	FEF	FVC	FEV	FEF	FVC	FEV	FEF	FVC	FEV	FEF	FVC	FEV	FEF	FVC	FEV	FEF	FVC
1	HYDE PARK	87.4	70.7	90.3	84.1	64	88	82.7	59	89	83.1	64.5	86.5	86.2	66.9	91.8	89.2	73.9	92.6	90	76.3	92.7	85.5	68	90
2	HYDE PARK	71.2	34.4	86	72.6	19	102	71.2	40	80	69.5	25.7	90.5	75.4	48.5	82.7	75.3	46.4	83.9	73.1	36.7	87.5	70	37	82
3	HYDE PARK	91.9	57	110	99.4	59	119	98.1	58	117	94.1	54.8	116	93.4	57.7	112	92.2	57.2	111	86.6	54.6	105	89.6	53	107
4	HYDE PARK	71.9	37.3	81.8	84	43	94	76.5	48	80	78	55.3	80.5	77.8	28.2	96.3	81.1	54.4	88.9	78.1	27.5	98.3	75.3	36	88
5	HYDE PARK	95.7	75.9	101	101	81.3	103	98	86.8	96.4	99.3	80.2	102	97.8	83.6	97.9	97.8	83.6	97.9	103	85.1	107	98.9	82	102
6	HYDE PARK	106	76.6	114							91.1	60.1	98.2	103	81.6	107	102	80	106	104	77.6	111	102	76	108
7	HYDE PARK	89.4	54.8	104	91.8	73	96	87.7	51	101	89.6	66.1	95.5	92.2	78.6	96.8	93.9	77.7	98.9	90.2	50.9	108	93		
8	HYDE PARK	86.3	39.7	108	89.5	16	133	87.2	42.8	103	79.3	39.5	94.9	80.9	48.1	89.5	78.3	44.8	88.2	77.2	35.1	98.2	74.3	36	94
9	HYDE PARK	98.8	63.5	118	105	73	114	107	74	113	111	83.4	119	104	83.8	110	105	81.9	113	108	70.8	125	94	54	112
10	HYDE PARK	104	87	110	106	83.6	112	105	82.5	112	104	79.4	111	110	99.4	112	109	96.4	112	106	91.5	110	107	84	115
11	HYDE PARK	71.9	45.4	84.5	72.1	41	87	76.1	47	88	74.6	43.1	88.9	78.6	46.4	94.4	75.5	45.7	90	78.1	50.5	89.1	77.9	48	93
12	HYDE PARK	99.6	76.5	105	104	71	114	108	76	117	106	66.3	118	105	84.6	110	103	77.2	111	103	75.5	112	94.4	66	105
13	HYDE PARK	105	72.4	115	107	70	117	107	72	116	108	67.7	121	105	77.2	113	103	77.1	109	104	71.5	114	96.8	66	108
14	HYDE PARK	91.9	68.8	95.9	89	64	93.9	83.7	51.4	99.6	86.2	62.1	93.3	83.7	58.2	96.3	80.1	52.8	97.9	80.8	56.8	89.7	79.8	46	110
15	HYDE PARK	92.9	61	104	92	62	98.6	97.3	60.2	109	94.4	62.4	103	91.6	63.7	98.2	95.8	66.7	103	98.4	65.7	109	96.4	64	107
16	HYDE PARK	90.3	56.4	108	94.8	50	115	93.8	47	114	92	51.3	113	88.8	49.9	107	84.7	56.5	97	83.7	57.8	94.7	76.8	47	91
17	HYDE PARK	99.8	75.3	109	103	92	103	106	79	108	102	74.1	110	99	89.3	97.5	112	94.8	116	102	109	100	95.7	97	91
18	HYDE PARK	94.7	63.2	111	98	62	115	96.5	56	118	90.6	60.4	106	96.3	63.6	113	101	63.9	119	96.2	58.9	117	97.7	66	115
19	HYDE PARK	99.2	90.2	99.3	101	81	101				95.1	75.1	95.5	96.5	85.8	94.2	102	91.4	99.6	106	81.2	108	106	91	107
20	HYDE PARK	101	64.8	109	98	53	114	102	60	112	92	26.7	130	97.4	61.4	107	99.7	64	109	103	65.8	112	96.6	61	106
21	HYDE PARK	92.7	71.9	103	99.7	79	108	97.8	66	109	101	84.4	109	92.2	79	99.7	93.3	84.4	99.2	97.3	85.7	104	89.8	75	98
22	HYDE PARK	86	53.7	100	92.4	58	104	86	52	100	83.9	48.8	98.4	89.2	63.8	97.8	88.1	57.3	101	87.1	53.3	103	90.8	61	102
23	HYDE PARK	77.3	59.6	88.4	78.9	56.1	91.1	74.2	50.4	88.4	78.1	57.7	89.4	79.9	66	87.1	78.9	67.5	86	80.1	69.4	86.9	72.9	75	89
24	HYDE PARK	97.5	73	105	106	104	103	102	85	104	104	93.8	103	106	113	101	107	108	103	106	95.7	108	100	100	95
25	HYDE PARK	91.5	55.7	107	95	66	101				92.4	66.1	98.9	89.1	66	95.3	86.9	60.4	96.1	92.3	60.1	105	91.2	60	103
26	HYDE PARK	99.6	55.4	120	97	55	113	103	69	111	103	65.1	114	110	86.6	113	100	65.1	112	96.8	49.3	120	93.3	46	118
27	HYDE PARK	87.3	54.6	105	92.4	61	105	91.1	63	101	95	60.8	110	94.3	59.1	114	92.3	59.3	114	93.9	55.7	119	96.9	66	111
28	HYDE PARK	96.2	84.7	98.8				86.2	82	86	84.2	66.6	89.9	85.9	78.1	88	92.7	96	90.7	95.5	95.4	94.4	92.6	97	91

29	HYDE PARK	82.8	55.3	89.6	78	37	96	72.5	31	93	66.8	30.1	85.2	72.5	37.5	88.2	72.3	36.9	90.3	71.1	33.8	92	79.8	44	94
30	HYDE PARK	96.4	67.1	100	104	68	110	98.7	67	102	95.7	65.9	97.1	97.8	72.8	97.6	100	74.3	101	97.1	68.4	99.3	98.6	68	103
31	HYDE PARK	93.3	57.7	106	96.9	54	110	91.6	46	111	90.1	43.6	109	99.8	64.6	112	95.1	58.1	109	97.1	61.9	110	96.7	60	112
32	HYDE PARK	97.9	83.3	102	98.6	85	101				96.7	82.8	99.2	99.1	86.3	103	99.3	85.2	104	97.3	80.3	104	93.1	73	101
33	HYDE PARK	75.9	44.7	89	85.6	62	90	81.8	62	84	84.9	64.8	87.5	87	66.2	91.8	80.9	57.2	88.6	74.7	43.3	87.9	72.7	39	90
34	HYDE PARK	73.5	54.9	79.4	78.3	64	76.6	75.4	60	77.4	76.5	58.6	79.4	74.3	62.8	75.9	74.1	58.4	78.5	77.1	61.8	81.4	70.8	52	78
35	HYDE PARK	85.6	70.6	88.9	93.5	78	95	93.6	76	96	92.4	75.6	94.3	91.2	84.8	90.5	91.1	82.3	91.4	96.1	81.2	97.6	91.8	68	100
36	HYDE PARK	78.1	51.8	88.1	90.6	76	87	88.9	70	87	89.3	59.8	97.2	89.4	72.1	88.3	90.1	71.9	89.9	91.8	74.8	89.2	87.5	67	89
37	HYDE PARK	85	60.4	94.7	88.4	63.8	95.3	81.6	57	89.3	85.1	60.7	91.8	80	57	88.4	80.8	60.7	86.9	88.8	67	95	85	60	95
38	HYDE PARK	83.8	80.3	77.8	86.1	82	80	78.5	74	72	86.8	90.1	77.1	79.4	79.4	73.1	85.6	91.2	76	89.6	95.5	79.3	87.8	94	79
39	HYDE PARK	86.7	54.4	106	99.5	66.7	113	99.3	68.1	111	105	78.4	112	102	76.7	110	104	81.5	110	99.6	71.3	111	102	82	104
40	HYDE PARK	89.8	58.2	105	96.4	68	104	88.6	61	97	89.1	61.9	96.5	93.8	68.3	101	92.9	67.9	100	92.9	63.4	105	88.2	58	103
41	HYDE PARK	109	108	105	112	97.9	111	99.3	73.2	105	101	74.3	108	102	85.1	103	113	118	107	107	90.2	110	108	98	106
42	HYDE PARK	73.5	39.8	103	83.3	51	105	82.1	49	105	82.8	49.3	105	79.5	46.2	105	79.1	46.4	103	73.6	41.5	103	75.3	41	106
43	HYDE PARK	79.2	54	91.6	87.1	65.6	94	82.2	57.1	92.1	84.2	57.4	95.2	87.3	68	95.1	85.6	69.3	90.8	87.1	70	93.1	90.5	70	99
44	HYDE PARK	53	19.7	99.6	58.3	19	107	52.5	20	99	56.5	20.8	102	63.6	27.2	101	58.3	22.9	93.3	61.9	25.4	107	72.8	32	113
45	HYDE PARK	88.1	50.9	108	96.5	47	124	90.3	43	121	91.5	53.6	110	96.3	58.2	116	91	58	106	92.1	53	115	81.5	46	103
46	HYDE PARK	63.8	36.4	80.6	68.8	41	82	66.7	40	81	70.2	48.6	78.5	73.1	47.8	83.9	74.2	47.6	86.4	70.6	45.3	82.7	69.3	45	81
47	HYDE PARK	98.9	70.1	110	102	77	108	98.6	66	109	99.5	70.7	108	105	84.4	112	102	79.6	108	96.5	69.1	106	99.7	78	107
48	HYDE PARK	78.3	43.9	103	69.6	32	97	67.5	34	94	70.5	31.5	100	78.8	44.1	102	65.2	39.2	85.1	83.1	51.6	102	98.9	76	111
49	HYDE PARK	93.6	78.8	96	93.2	68	99	88.7	60	97	95.1	72.4	98.7	91.1	68.4	97.2	91.9	76.5	95.2	94.7	73.3	99.6	92.1	67	100
50	HYDE PARK	95.5	78	95.7	99.7	80	101	100	82	99	106	90.9	103	100	86.8	97	96.6	79	99.4	102	83.5	104	87.1	73	87
51	HYDE PARK	96.4	69.1	108	88.8	60	99	91.3	60	104	92	61.5	110	97.1	65.9	112	94.2	63.8	108	94.4	64.3	109	98.4	65	114
52	HYDE PARK	95	77.6	101	96	73	103	103	81	109	102	83.3	106	99.7	85.1	103	101	83.9	106	100	86.7	103	90.2	76	94
53	HYDE PARK	85.5	89.9	77.1	82.1	76	80	88.4	87	82	82.6	83.6	75.8	81.9	83.4	77.2	92.6	100	83.5	86	83	77.8	79.9	85	74
54	HYDE PARK	68.7	34	98.8	76	35	112	73.6	39	101	75.7	37.8	105	79.3	39.3	111	75.5	37.8	106	79.9	38.5	116	72.1	34	107
55	HYDE PARK	88.2	54.9	108	103	75	112	100	66	114	95.2	62.7	110	94.1	63	110	94.9	60.4	114	93.3	60.7	111	96.2	62	114
56	HYDE PARK	110	96.9	116	111	89	121	105	81	115	107	79.2	120	109	92	116	111	98.9	117	115	104	120	116	101	122
57	HYDE PARK	91.9	92.6	90.9	89.5	78	91	83.9	65	89	89.9	67	94.8	90	81.7	91.4	87.3	79	87	84.1	71.6	87.1	91.7	106	85
58	HYDE PARK	88.2	53.7	103	91.4	59	100	90.4	59	100	90	55.9	102	92.8	66.7	100	93.3	60.6	106	91.7	60.8	102	91.3	57	105
59	HYDE PARK	77.7	53.8	88.2	80.3	46	92	80.5	54	91	82.3	57.4	90.4	80.4	56.5	90.8	78.6	55.5	88.8	77.9	51.8	90.6	72.8	40	89
60	HYDE PARK	106	76.4	113	109	67	124	110	69	125	107	68.1	118	105	68.7	117	110	76.1	120	107	69.2	120	111	76	121
1	OXFORD ST	85.4	68	89.4	91.6	70.8	95.9	91	72.7	92.6	89.5	72.4	91	88.6	75.5	90.2	83.8	68.8	87.5	84.7	70.6	87.8	82.9	59.3	90.7
2	OXFORD ST	63.6	35.6	73.1	69.2	43.2	74.4	64.5	38	71.3	60.2	34	67.9	68.9	54.4	68.2	69.2	49.5	71.6	71.9	47.2	78.2	63.8	47.8	65
3	OXFORD ST	90.3	54.5	108	93.5	60.2	108	96.8	64.9	109	94	60.4	108	97.2	65.5	111	94.4	64.8	108	94.9	66.4	107	91.9	64.7	103
4	OXFORD ST	69.1	41.6	75	76.2	50.8	78.8	73	29.2	88.6	69.4	49.6	71.6	71.4	48.3	75.2	72.7	44.6	79	70.8	31.9	83.4	75.2	37.8	86.3

5	OXFORD ST	93.5	72.4	99.2	89.5	76	90	87.4	77	86	86.9	71.9	88.3	89.4	66.9	96.4	94.8	77.9	98.3	97.3	71.6	106	99.1	77.2	105
6	OXFORD ST	99.7	61.1	112	105	59.6	118	104	73.3	109	100	65.8	107	96.6	80.8	98.3	97.5	78.1	99.1	97.7	80.8	98.2	103	73.5	110
7	OXFORD ST	101	87.8	107	105	83.9	112	101	77.4	108	101	72	110	100	104	99.4	98.5	89.4	101	103	82	111	103	89.3	108
8	OXFORD ST	82	41.1	97.7	82.2	43	94	84.8	38	103	77.1	31.3	95.2	76.9	43.2	87.3	74.4	39.4	86.6	74	33.9	92.3	81.7	43.1	94.3
9	OXFORD ST	94.8	62.1	110	102	66.7	119	100	67	114	99.1	60	119	98.3	70.3	111	101	77.1	109	99.4	77.7	107	96.6	63.3	114
10	OXFORD ST	106	67.5	124	117	95	123	105	83	111	99.4	75.5	107	107	97.4	108	108	97.3	109	109	93.7	115	114	99.5	117
11	OXFORD ST	74.2	45.3	87.6	79.3	50.7	91.1	85.2	52.8	97.1	75.4	46.7	85.2	75.1	49	86.2	71.5	40.5	89.1	77.3	49	89.4	76.3	41.9	95.2
12	OXFORD ST	98.5	72.6	107	102	71.4	110	99.4	65	110	95.5	63.6	107	96.5	82.6	97.8	92.7	70.5	98.7	92.3	66.5	101	95.3	66.7	105
13	OXFORD ST	99.8	66.3	112	105	69	116	102	66	113	100	65.6	111	102	77.5	108	99.3	68.4	110	103	75.6	110	95	64.4	106
14	OXFORD ST	71.2	40.1	96	86.5	47	114	86.3	36	118	84.9	49.2	105	74.4	50.5	87	76.2	50.4	95.5	70.1	47.9	80.7	74.8	53.6	82.1
15	OXFORD ST	92.6	62.8	102	91.6	63	98	93.7	63	101	88.4	57	96.9	94.9	65.2	103	94.8	66.9	102	97.7	67.4	107	92.5	59	104
16	OXFORD ST	91.6	63.8	102	92.6	48.8	110	87	37.5	103	86.5	44.2	100	83.5	46.1	99.2	86	56.5	97.1	79.7	49.6	92.4	81.8	59.7	89.1
17	OXFORD ST	95.5	134	85.4	103	91	103	97.4	99.4	90.3	102			101	117	95.5	95.4	103	92	103	110	98.6	94.6	96	92.5
18	OXFORD ST	95.9	64.7	112	109	71.5	125	101	63.5	120	103	65.5	120	100	71.2	114	99.9	63.5	119	110	79.6	125	104	73.1	119
19	OXFORD ST	99.5	81.1	101	107	80.2	108	107	90.1	105	104	88.7	101	99.6	98.7	92.9	97.1	89.2	92.4	104	87.1	103	99.2	89.2	94.9
20	OXFORD ST	94.4	58.2	105	105	61.9	116	93.4	58	99.2	85.4	53.2	91.8	88.2	50.5	101	105	63.8	117	99.9	63.7	107	105	64.2	117
21	OXFORD ST	91.5	76.8	99.6	97.8	77.3	107	95.7	81.5	102	102	92.5	107	92.7	80.5	100	95.9	85.2	103	93.6	83.7	100	91.3	73.8	101
22	OXFORD ST	95.2	60.2	109	97.2	67	106	96.5	67.4	104	87.4	60.6	94.9	90.7	65.4	99.2	90.5	60.8	101	82.1	57.5	91.1	90.1	60.4	101
23	OXFORD ST	81	65	91.5	81.2	63	89	75.2	53	89	78	61.8	85.7	73.1	63.6	78.6	79.7	70.8	86.6	78.8	52.9	95.3	85.1	68.9	96.4
24	OXFORD ST	104	88.6	107	105	93.2	104	105	99	103	105	101	102	109	112	102	105	102	97.8	109	98	110	107	102	106
25	OXFORD ST	95.9	64.9	107	98.7	46.3	125	100	37.8	133	95.2	65.1	104	97.6	79.5	99.2	91.8	71.4	95.4	92.2	57.1	107	99.5	72.5	107
26	OXFORD ST	92.7	52	114	94.6	50.6	115	99.4	52.3	121	98.3	57.6	115	94.8	62.2	107	92.7	55.7	111	99.1	68.7	108	98.9	59.9	116
27	OXFORD ST	92.8	58.9	111	104	64.1	124	94	57.7	114	90.2	55.9	109	85.6	49.4	112	88.1	65.5	94.4	97.4	65	112	88.8	55.1	107
28	OXFORD ST	96.8	89.8	96.6	102	99.9	97.6	97.4	94	94.2	89.4	78.6	89.2	84.2	73.1	84.9	97.9	101	91.8	98.5	91.5	98.2	99	85.2	101
29	OXFORD ST	94.2	61.1	105	92.7	52	106	93.9	46.1	116	87.1	34.3	113	88.3	53.6	99.5	90.3	52.3	104	87.9	49.3	104	98.1	69.1	105
30	OXFORD ST	97	72.8	99.1	99.4	76.2	98.9	90.6	65.7	93.5	91.6	61	96.9	92.4	67.1	94.9	89.7	63.7	93.4	90.2	64.5	91.9	99	66.7	105
31	OXFORD ST	83.4	44.7	102	93.4	52	109	81.6	41.9	99	83.3	46	96.8	90	60.1	100	81	51.1	92.4	80	51.1	91.3	82.4	50.8	95.4
32	OXFORD ST	101	87.6	106	99.8	85.3	102	95.1	74.7	100	96.6	81.9	98.5	99.3	83.2	105	99.4	92.8	99.5	104	97.8	104	96.1	85.7	98.3
33	OXFORD ST	73.3	43.5	86.3	84.6	55.8	90.1	74.6	36.4	87	73.6	43.5	85.2	78	49.5	88.5	70.1	39.4	85.5	76.5	38.7	95.1	84	53.9	95.1
34	OXFORD ST	73.2	58.2	77.3	74.9	64	74	69.6	59	70	73.2	60.4	74.2	74.1	63.2	75.9	73.2	61.3	75	70.5	51.4	77.5	69.3	47.7	78.5
35	OXFORD ST	90.1	69.5	95.5	91.9	73.7	93	84.8	63.8	88.4	88.8	71.2	91	93.5	81.3	94.7	92.7	78	93.7	91.3	68.6	98.4	85.8	66.2	90.9
36	OXFORD ST	81.6	59.4	86.6	97.6	76	95.7	93	67.2	96.3	94.2	77.2	89.5	89.9	75.4	86.3	88.8	77.4	82.5	87.9	63.4	93.7	78.2	59.7	79.6
37	OXFORD ST	82.7	58	91.7	80.9	56	89	78.1	55	84	78.7	55.6	86.1	77.4	56.7	83.6	77.2	76.5	80.3	80.9	59.4	87.9	85.9	62.9	93.5
38	OXFORD ST	85.4	90.2	78.9	91.5	99	80.6	85.1	89.3	76.2	89.7	94.5	79	87.6	101	76.6	84.6	95.9	73.4	88.2	98.5	78.5	85.7	100	74.9
39	OXFORD ST	92.6	66.3	104	105	81	110	102	78	108	104	77.1	110	104	84	107	104	81.7	110	104	80.5	110	97	67.9	110
40	OXFORD ST	91	57	109	95.4	65.9	105	97.1	65.8	108	92.1	63.8	101	90.5	64.7	98.3	90.6	63.4	101	91.8	60	107	83.6	53.5	98.6

41	OXFORD ST	114	107	111	116	104	113	107	91	108	105	81.5	109	101	82.4	104	101	80.1	105	97.3	69.6	107	107	92.6	109
42	OXFORD ST	67.5	34	102	73.5	38	107	71.7	37.4	105	76.8	42.7	108	70.1	39.7	97	73	41.1	103	75.1	40.6	107	72.1	39.5	104
43	OXFORD ST	82.2	54.3	96.1	90	67	98	81.7	53	95	77.1	47.8	91.3	86.5	77.7	89.4	83.8	68.4	87.4	85.3	56.7	99.4	85.7	63.2	94.6
44	OXFORD ST	84.6	44.3	111	88.2	45.3	109	81.2	40.5	106	81.5	42.2	105	89	46.9	116	82.4	34.4	119	85.6	43.5	116	59	22.2	103
45	OXFORD ST	76.2	42.5	105	86.6	42.7	112	84.7	45	107	81.3	44.7	104	79.4	48.9	95	75.3	41	104	76.1	40.3	99.2	73	38.7	97.5
46	OXFORD ST	71.2	46.6	81.7	71.2	42.1	84.2	70.4	43.7	82.3	69.4	41.3	82.6	67.6	40.3	81.9	68.7	40.7	83.6	61.2	33	82	75	50.1	85.1
47	OXFORD ST	94.2	72.5	101	94.1	68.8	99.8	97.7	74.2	104	89.9	65.7	96.1	95.5	75.8	101	100	78.8	106	93.2	64.1	104	91.5	62.2	104
48	OXFORD ST	76.2	42	99	85.2	46.1	108	72.1	34	101	64.3	30.5	92.9	77.4	46.1	97.1	77.3	51.5	90.4	70	40.2	90.1	79.8	47.8	99.6
49	OXFORD ST	93	74.4	96.6	98.6	63.9	109	90.3	59.9	97.4	87.3	62.5	93.2	87.1	69.7	92.1	97.8	75.6	104	93.6	79.1	95.7	87	71	90
50	OXFORD ST	98.4	83.7	96.9	103	82.7	103	97.6	84.1	94.3	98.2	84	94.2	97.7	84.9	94.1	101	88	97.9	100	87	97.5	99.8	84.2	98.1
51	OXFORD ST	99.9	71	111	95.3	59.2	111	90	55.7	106	93.5	63.4	104	101	70.6	113	98.6	67.7	111	103	74.8	113	92.3	68.8	101
52	OXFORD ST	92.8	69.9	102	95.1	73.3	102	94.5	74.3	99.7	93	74.5	97.6	98.3	81.4	104	97.5	82.8	102	95.2	82.6	98.2	91.2	73.9	96.4
53	OXFORD ST	81.6	77.7	79.3	89.8	93.7	85.4	88.4	86.6	82.5	76.7	77.7	70	86.8	88.9	82.1	85.7	85.3	81.1	82.3	82.1	77.5	79.5	86	73.4
54	OXFORD ST	78.7	41.5	108	84	45.5	109	77.9	40.2	107	76	37.6	107	81.9	44	109	82.4	45.4	111	83.8	44.4	115	75.3	36.3	111
55	OXFORD ST	90.5	59.9	108	95.6	64.5	108	94.1	64.1	107	96.2	63.5	110	94.8	65.6	108	92.4	61.6	108	98.9	72.3	109	94.9	59.6	116
56	OXFORD ST	101	80.8	109	98.3	67.8	112	79.4	46.5	101	81.9	49	105	108	94.1	113	105	83.3	114	101	72.7	115	110	86.1	121
57	OXFORD ST	77.9	33.6	102	92.1	69.4	97.2	82.8	54.9	91.8	80.4	54.4	88.4	84.1	73.8	86	91.4	65.7	100	86.7	64.9	93.7	82.7	57.7	91.6
58	OXFORD ST	79.3	46.6	94.4	87.1	50.1	102	81.1	45.1	96.7	83.4	48.6	97.1	85.3	58.2	94	84.4	52.6	97.6	79.9	47.5	94.6	79.4	48.7	92.5
59	OXFORD ST	77.6	52.5	88.3	71.8	36.3	93.1	60.9	26.4	93.9	62.5	30.3	86.3	71	38.9	87.7	69.6	39	88.2	72.5	43.5	87.2	70.7	39.6	90.5
60	OXFORD ST	112	75.6	124	115	72.9	128	109	67	124	108	69.7	120	112	82.4	119	108	77.4	115	106	79.2	111	102	72.8	110

56	HYDE PARK	4	2	2	1	2	2	3	2	0	4	1	5	3	5	2	3
57	HYDE PARK	0	0	0	2	0	0	2	0	0	0	0	0	1	0	0	0
58	HYDE PARK	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0
59	HYDE PARK								2	0							
60	HYDE PARK	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0
1	OXFORD ST		1	0	0	2	5	4	1	1	3	1	0	2	2	0	2
2	OXFORD ST	0	0	0	0	0	0	1	0	0	1	4	0	0	0	3	1
3	OXFORD ST	3	2	2	3	2	3	3	3	2	5	3	2	2	2	3	2
4	OXFORD ST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
5	OXFORD ST								2	0							
6	OXFORD ST	1	0	0	0	1	0	0	1	0	0	0	0	0	0	3	3
7	OXFORD ST	1	1	1	2	2	3	0	2	1	1	2	1	2	1	2	1
8	OXFORD ST	1	0	0	0	1	1	0	2	1	2	0	1	1	1	1	1
9	OXFORD ST	1	0	0	0	0	0	0	0	0	3	6	7	7	8	7	8
10	OXFORD ST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
11	OXFORD ST	1	2	1	3	2	1	1	1	2	0	4	6	3	5	5	1
12	OXFORD ST	2	2	5	6	10	10	7	4	3	5	2	2	2	2	2	2
13	OXFORD ST	0	0	0	0	0	4	0	1	0	1	1	0	0	0	0	0
14	OXFORD ST	0	0	1	0	0	1	1	0	0	5	1	0	0	2	0	0
15	OXFORD ST	3	0	1	3	3	2	5	2	1	2	2	0	2	3	0	0
16	OXFORD ST	0	1	1	1	1	1	0	2	0	0	0	0	0	0	0	0
17	OXFORD ST	1	1	0	0	1	1	1	2	4	3	3	1	1	3	3	3
18	OXFORD ST	2	2	1	1	0	1	1	2	2	2	1	2	1	1	3	3
19	OXFORD ST	1	0	0	3	3	2	0	1	1	0	1	0	0	2	0	0
20	OXFORD ST	3	4	2	0	3	2	2	3	0	2	2	7	12	14	12	12
21	OXFORD ST								2	0							
22	OXFORD ST	0	3	8	6	3	0	1	8	5	5	2	2	1	2	1	3
23	OXFORD ST	5	5	6	5	5	6	7	3	1	6	6	1	1	2	0	1
24	OXFORD ST	10	10	11	9	10	6	3	1	3	7	9	9	7	5	4	4
25	OXFORD ST	2	1	1	1	1	1	1	0	2	1	2	1	1	1	2	2
26	OXFORD ST	2	4	3	1	3	4	6	6	3	6	3	1	2	3	2	5
27	OXFORD ST								1	2							
28	OXFORD ST	0	0	1	1	0	0	0	3	0	4	2	0	0	0	0	0
29	OXFORD ST	0	1	1	1	1	1	2	0	0	0	0	1	1	2	1	1
30	OXFORD ST	6	3	2	2	0	0	0	0	0	1	1	1	1	2	2	2
31	OXFORD ST	2	2	2	2	1	1	2	2	2	2	2	2	1	1	1	1
32	OXFORD ST	3	3	1	0	4	0	4	0	0	3	2	2	0	0	1	3
33	OXFORD ST	0	0	0	2	2	1	1	1	2	1	2	0	1	1	0	2
34	OXFORD ST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
35	OXFORD ST	9	1	1	1	1	3	1	0	0	6	4	0	1	1	4	3
36	OXFORD ST	0	0	2	5	5	2	1	0	2	2	1	0	1	0	3	4
37	OXFORD ST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	OXFORD ST	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
39	OXFORD ST	1	1	2	2	1	1	0	2	0	0	0	0	0	1	0	0
40	OXFORD ST	1	2	2	2	0	0	0	1	0	3	1	2	0	0	0	0
41	OXFORD ST								1	0							
42	OXFORD ST	0	0	0	1	1	0	0	1	0	1	4	5	4	3	2	1
43	OXFORD ST	0	2	1	0	4	3	0	2	0	2	1	0	1	3	0	0
44	OXFORD ST		4	4	7	3	2	5	3	0	7	6	6	5	6	9	8
45	OXFORD ST	2	0	0	0	0	0	0	0	2	2	2	0	0	0	0	0
46	OXFORD ST	0	0	0	0	3	1	0	1	0	3	2	4	3	3	3	3
47	OXFORD ST	1	0	1	0	1	0	0	0	0	2	2	1	0	0	1	1
48	OXFORD ST	0	2	2	0	0	0	0	4	1	1	2	2	0	0	0	0
49	OXFORD ST								3	2							
50	OXFORD ST						0	0	2	0	0	0	0	1	0	0	
51	OXFORD ST								2	1							
52	OXFORD ST	4	3	1	1	0	1	0	1	0	1	0	0	2	1	0	1
53	OXFORD ST	0	1	3	0	0	0	0	2	0	0	0	0	0	0	0	0
54	OXFORD ST	0	2	0	2	0	0	0	1	0	2	2	2	0	0	2	2
55	OXFORD ST	1	2	0	1	0	0	0	1	0	0	0	0	0	0	0	0
56	OXFORD ST	1	2	2	2	0	1	5	8	4	0	0	5	0	4	4	0

57	OXFORD ST	0	0	0	0	1	0	1	1	0	0	0	0	0	0	2	0
58	OXFORD ST	0	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0
59	OXFORD ST								2	1							
60	OXFORD ST	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0