



Glasgow Airport Airspace Change Proposal

Stage 3 Full Options Appraisal

Appendix B: Air Quality Modelling Results

B.1 AIR QUALITY RESULTS

B.1.1 2027 NO₂ results

Table 1: 2027 NO₂ results (µg/m³)

Receptor ID	DN	DS	Change	Impact
H1	11.01	11.01	<0.01	Negligible
H2	11.02	11.02	<0.01	Negligible
H3	11.02	11.02	<0.01	Negligible
H4	11.02	11.02	<0.01	Negligible
H5	11.01	11.01	<0.01	Negligible
H6	11.02	11.02	<0.01	Negligible
H7	11.02	11.02	<0.01	Negligible
H8	11.02	11.02	<0.01	Negligible
H9	11.01	11.02	<0.01	Negligible
H10	11.01	11.02	<0.01	Negligible
H11	11.01	11.01	<0.01	Negligible
H12	11.02	11.02	<0.01	Negligible
H13	11.02	11.02	<0.01	Negligible
H14	11.01	11.01	<0.01	Negligible
H15	11.01	11.01	<0.01	Negligible
H16	11.01	11.01	<0.01	Negligible
H17	11.01	11.01	<0.01	Negligible
H18	11.02	11.02	<0.01	Negligible
H19	11.01	11.01	<0.01	Negligible
H20	11.01	11.01	<0.01	Negligible
H21	11.01	11.01	<0.01	Negligible
H22	11.01	11.02	<0.01	Negligible
H23	11.02	11.02	<0.01	Negligible
H24	11.02	11.02	<0.01	Negligible
H25	9.69	9.69	<0.01	Negligible
H26	9.69	9.69	<0.01	Negligible

Receptor ID	DN	DS	Change	Impact
H27	9.69	9.69	<0.01	Negligible
H28	9.69	9.69	<0.01	Negligible
H29	9.69	9.69	<0.01	Negligible
H30	11.02	11.02	<0.01	Negligible
H31	9.69	9.69	<0.01	Negligible
H32	8.81	8.81	<0.01	Negligible
H33	14.72	14.72	<0.01	Negligible
H34	14.28	14.28	<0.01	Negligible
H35	14.42	14.42	<0.01	Negligible
H36	14.96	14.96	<0.01	Negligible
H37	14.72	14.72	<0.01	Negligible
H38	8.07	8.07	<0.01	Negligible
H39	14.72	14.72	<0.01	Negligible
H40	8.07	8.07	<0.01	Negligible
H41	11.97	11.97	<0.01	Negligible
H42	8.98	8.98	<0.01	Negligible
H43	8.97	8.97	<0.01	Negligible
H44	11.97	11.97	<0.01	Negligible
H45	15.63	15.63	<0.01	Negligible

B.1.2 2027 PM₁₀ results

Table 2: 2027 PM₁₀ results (µg/m³)

Receptor ID	DN	DS	Change	Impact	No. 24-hour mean exceedances
H1	9.43	9.43	<0.01	Negligible	5
H2	9.43	9.43	<0.01	Negligible	5
H3	9.43	9.43	<0.01	Negligible	5
H4	9.43	9.43	<0.01	Negligible	5
H5	9.43	9.43	<0.01	Negligible	5
H6	9.43	9.43	<0.01	Negligible	5
H7	9.43	9.43	<0.01	Negligible	5

Receptor ID	DN	DS	Change	Impact	No. 24-hour mean exceedances
H8	9.43	9.43	<0.01	Negligible	5
H9	9.43	9.43	<0.01	Negligible	5
H10	9.43	9.43	<0.01	Negligible	5
H11	9.43	9.43	<0.01	Negligible	5
H12	9.43	9.43	<0.01	Negligible	5
H13	9.43	9.43	<0.01	Negligible	5
H14	9.43	9.43	<0.01	Negligible	5
H15	9.43	9.43	<0.01	Negligible	5
H16	9.43	9.43	<0.01	Negligible	5
H17	9.43	9.43	<0.01	Negligible	5
H18	9.43	9.43	<0.01	Negligible	5
H19	9.43	9.43	<0.01	Negligible	5
H20	9.43	9.43	<0.01	Negligible	5
H21	9.43	9.43	<0.01	Negligible	5
H22	9.43	9.43	<0.01	Negligible	5
H23	9.43	9.43	<0.01	Negligible	5
H24	9.43	9.43	<0.01	Negligible	5
H25	8.59	8.59	<0.01	Negligible	6
H26	8.59	8.59	<0.01	Negligible	6
H27	8.59	8.59	<0.01	Negligible	6
H28	8.59	8.59	<0.01	Negligible	6
H29	8.59	8.59	<0.01	Negligible	6
H30	9.43	9.43	<0.01	Negligible	5
H31	8.59	8.59	<0.01	Negligible	6
H32	9.27	9.27	<0.01	Negligible	5
H33	10.79	10.79	<0.01	Negligible	2
H34	9.11	9.11	<0.01	Negligible	5
H35	8.91	8.91	<0.01	Negligible	6
H36	10.86	10.86	<0.01	Negligible	2
H37	10.79	10.79	<0.01	Negligible	2

Receptor ID	DN	DS	Change	Impact	No. 24-hour mean exceedances
H38	8.52	8.52	<0.01	Negligible	7
H39	10.79	10.79	<0.01	Negligible	2
H40	8.52	8.52	<0.01	Negligible	7
H41	9.17	9.17	<0.01	Negligible	5
H42	8.65	8.65	<0.01	Negligible	6
H43	8.65	8.65	<0.01	Negligible	6
H44	9.17	9.17	<0.01	Negligible	5
H45	8.93	8.93	<0.01	Negligible	6

B.1.3 2027 PM_{2.5} results

Table 3: 2027 PM_{2.5} results (µg/m³)

Receptor ID	DN	DS	Change	Impact
H1	5.57	5.57	<0.01	Negligible
H2	5.57	5.57	<0.01	Negligible
H3	5.57	5.57	<0.01	Negligible
H4	5.57	5.57	<0.01	Negligible
H5	5.57	5.57	<0.01	Negligible
H6	5.57	5.57	<0.01	Negligible
H7	5.57	5.57	<0.01	Negligible
H8	5.57	5.57	<0.01	Negligible
H9	5.57	5.57	<0.01	Negligible
H10	5.57	5.57	<0.01	Negligible
H11	5.57	5.57	<0.01	Negligible
H12	5.57	5.57	<0.01	Negligible
H13	5.57	5.57	<0.01	Negligible
H14	5.57	5.57	<0.01	Negligible
H15	5.57	5.57	<0.01	Negligible
H16	5.57	5.57	<0.01	Negligible
H17	5.57	5.57	<0.01	Negligible
H18	5.57	5.57	<0.01	Negligible

Receptor ID	DN	DS	Change	Impact
H19	5.57	5.57	<0.01	Negligible
H20	5.57	5.57	<0.01	Negligible
H21	5.57	5.57	<0.01	Negligible
H22	5.57	5.57	<0.01	Negligible
H23	5.57	5.57	<0.01	Negligible
H24	5.57	5.57	<0.01	Negligible
H25	5.16	5.16	<0.01	Negligible
H26	5.16	5.16	<0.01	Negligible
H27	5.16	5.16	<0.01	Negligible
H28	5.16	5.16	<0.01	Negligible
H29	5.16	5.16	<0.01	Negligible
H30	5.57	5.57	<0.01	Negligible
H31	5.16	5.16	<0.01	Negligible
H32	5.51	5.51	<0.01	Negligible
H33	6.31	6.31	<0.01	Negligible
H34	5.42	5.42	<0.01	Negligible
H35	5.39	5.39	<0.01	Negligible
H36	6.26	6.26	<0.01	Negligible
H37	6.31	6.31	<0.01	Negligible
H38	5.19	5.19	<0.01	Negligible
H39	6.31	6.31	<0.01	Negligible
H40	5.19	5.19	<0.01	Negligible
H41	5.50	5.50	<0.01	Negligible
H42	5.20	5.20	<0.01	Negligible
H43	5.20	5.20	<0.01	Negligible
H44	5.50	5.50	<0.01	Negligible
H45	5.42	5.42	<0.01	Negligible

B.1.4 2027 NO_x results

Table 4: 2027 NO_x results (µg/m³)

Receptor ID	DN	DS	Change	Impact
E1	13.02	13.02	<0.01	Negligible
E2	13.03	13.03	<0.01	Negligible
E3	21.05	21.05	<0.01	Negligible

B.1.5 2036 NO₂ results

Table 5: 2036 NO₂ results (µg/m³)

Receptor ID	DN	DS	Change	Impact
H1	11.01	11.01	<0.01	Negligible
H2	11.02	11.02	<0.01	Negligible
H3	11.02	11.02	<0.01	Negligible
H4	11.02	11.02	<0.01	Negligible
H5	11.01	11.01	<0.01	Negligible
H6	11.02	11.02	<0.01	Negligible
H7	11.02	11.02	<0.01	Negligible
H8	11.02	11.02	<0.01	Negligible
H9	11.02	11.02	<0.01	Negligible
H10	11.02	11.02	<0.01	Negligible
H11	11.01	11.01	<0.01	Negligible
H12	11.02	11.02	<0.01	Negligible
H13	11.02	11.02	<0.01	Negligible
H14	11.01	11.01	<0.01	Negligible
H15	11.01	11.01	<0.01	Negligible
H16	11.01	11.01	<0.01	Negligible
H17	11.01	11.02	<0.01	Negligible
H18	11.02	11.02	<0.01	Negligible
H19	11.01	11.02	<0.01	Negligible

Receptor ID	DN	DS	Change	Impact
H20	11.01	11.02	<0.01	Negligible
H21	11.01	11.02	<0.01	Negligible
H22	11.02	11.02	<0.01	Negligible
H23	11.02	11.02	<0.01	Negligible
H24	11.02	11.02	<0.01	Negligible
H25	9.69	9.70	<0.01	Negligible
H26	9.69	9.69	<0.01	Negligible
H27	9.69	9.69	<0.01	Negligible
H28	9.69	9.69	<0.01	Negligible
H29	9.69	9.69	<0.01	Negligible
H30	11.02	11.02	<0.01	Negligible
H31	9.69	9.69	<0.01	Negligible
H32	8.81	8.81	<0.01	Negligible
H33	14.72	14.72	<0.01	Negligible
H34	14.28	14.28	<0.01	Negligible
H35	14.42	14.42	<0.01	Negligible
H36	14.96	14.96	<0.01	Negligible
H37	14.72	14.72	<0.01	Negligible
H38	8.07	8.07	<0.01	Negligible
H39	14.72	14.72	<0.01	Negligible
H40	8.07	8.07	<0.01	Negligible
H41	11.97	11.97	<0.01	Negligible
H42	8.98	8.98	<0.01	Negligible
H43	8.97	8.97	<0.01	Negligible
H44	11.98	11.98	<0.01	Negligible
H45	15.63	15.63	<0.01	Negligible

B.1.6 2036 PM₁₀ results

Table 6: 2036 PM₁₀ results (µg/m³)

Receptor ID	DN	DS	Change	Impact	No. 24-hour mean exceedances
H1	9.43	9.43	<0.01	Negligible	5
H2	9.43	9.43	<0.01	Negligible	5
H3	9.43	9.43	<0.01	Negligible	5
H4	9.43	9.43	<0.01	Negligible	5
H5	9.43	9.43	<0.01	Negligible	5
H6	9.43	9.43	<0.01	Negligible	5
H7	9.43	9.43	<0.01	Negligible	5
H8	9.43	9.43	<0.01	Negligible	5
H9	9.43	9.43	<0.01	Negligible	5
H10	9.43	9.43	<0.01	Negligible	5
H11	9.43	9.43	<0.01	Negligible	5
H12	9.43	9.43	<0.01	Negligible	5
H13	9.43	9.43	<0.01	Negligible	5
H14	9.43	9.43	<0.01	Negligible	5
H15	9.43	9.43	<0.01	Negligible	5
H16	9.43	9.43	<0.01	Negligible	5
H17	9.43	9.43	<0.01	Negligible	5
H18	9.43	9.43	<0.01	Negligible	5
H19	9.43	9.43	<0.01	Negligible	5
H20	9.43	9.43	<0.01	Negligible	5
H21	9.43	9.43	<0.01	Negligible	5
H22	9.43	9.43	<0.01	Negligible	5
H23	9.43	9.43	<0.01	Negligible	5
H24	9.43	9.43	<0.01	Negligible	5
H25	8.59	8.59	<0.01	Negligible	6
H26	8.59	8.59	<0.01	Negligible	6
H27	8.59	8.59	<0.01	Negligible	6
H28	8.59	8.59	<0.01	Negligible	6

Receptor ID	DN	DS	Change	Impact	No. 24-hour mean exceedances
H29	8.59	8.59	<0.01	Negligible	6
H30	9.43	9.43	<0.01	Negligible	5
H31	8.59	8.59	<0.01	Negligible	6
H32	9.27	9.27	<0.01	Negligible	5
H33	10.79	10.79	<0.01	Negligible	2
H34	9.11	9.11	<0.01	Negligible	5
H35	8.91	8.91	<0.01	Negligible	6
H36	10.86	10.86	<0.01	Negligible	2
H37	10.79	10.79	<0.01	Negligible	2
H38	8.52	8.52	<0.01	Negligible	7
H39	10.79	10.79	<0.01	Negligible	2
H40	8.52	8.52	<0.01	Negligible	7
H41	9.17	9.17	<0.01	Negligible	5
H42	8.65	8.65	<0.01	Negligible	6
H43	8.65	8.65	<0.01	Negligible	6
H44	9.17	9.17	<0.01	Negligible	5
H45	8.93	8.93	<0.01	Negligible	6

B.1.7 2036 PM_{2.5} results

Table 7: 2036 PM_{2.5} results (µg/m³)

Receptor ID	DN	DS	Change	Impact
H1	5.57	5.57	<0.01	Negligible
H2	5.57	5.57	<0.01	Negligible
H3	5.57	5.57	<0.01	Negligible
H4	5.57	5.57	<0.01	Negligible
H5	5.57	5.57	<0.01	Negligible
H6	5.57	5.57	<0.01	Negligible
H7	5.57	5.57	<0.01	Negligible
H8	5.57	5.57	<0.01	Negligible
H9	5.57	5.57	<0.01	Negligible

Receptor ID	DN	DS	Change	Impact
H10	5.57	5.57	<0.01	Negligible
H11	5.57	5.57	<0.01	Negligible
H12	5.57	5.57	<0.01	Negligible
H13	5.57	5.57	<0.01	Negligible
H14	5.57	5.57	<0.01	Negligible
H15	5.57	5.57	<0.01	Negligible
H16	5.57	5.57	<0.01	Negligible
H17	5.57	5.57	<0.01	Negligible
H18	5.57	5.57	<0.01	Negligible
H19	5.57	5.57	<0.01	Negligible
H20	5.57	5.57	<0.01	Negligible
H21	5.57	5.57	<0.01	Negligible
H22	5.57	5.57	<0.01	Negligible
H23	5.57	5.57	<0.01	Negligible
H24	5.57	5.57	<0.01	Negligible
H25	5.16	5.16	<0.01	Negligible
H26	5.16	5.16	<0.01	Negligible
H27	5.16	5.16	<0.01	Negligible
H28	5.16	5.16	<0.01	Negligible
H29	5.16	5.16	<0.01	Negligible
H30	5.57	5.57	<0.01	Negligible
H31	5.16	5.16	<0.01	Negligible
H32	5.51	5.51	<0.01	Negligible
H33	6.31	6.31	<0.01	Negligible
H34	5.42	5.42	<0.01	Negligible
H35	5.39	5.39	<0.01	Negligible
H36	6.26	6.26	<0.01	Negligible
H37	6.31	6.31	<0.01	Negligible
H38	5.19	5.19	<0.01	Negligible
H39	6.31	6.31	<0.01	Negligible

Receptor ID	DN	DS	Change	Impact
H40	5.19	5.19	<0.01	Negligible
H41	5.50	5.50	<0.01	Negligible
H42	5.20	5.20	<0.01	Negligible
H43	5.20	5.20	<0.01	Negligible
H44	5.50	5.50	<0.01	Negligible
H45	5.42	5.42	<0.01	Negligible

B.1.8 2036 NOx results

Table 8: 2036 NOx results (µg/m3)

Receptor ID	DN	DS	Change	Impact
E1	13.02	13.02	<0.01	Negligible
E2	13.03	13.03	<0.01	Negligible
E3	21.05	21.05	<0.01	Negligible