

Appendix 9.3: Air Quality Impact Assessment Results

Existing Sensitive Receptors

Air pollutant concentrations have been modelled at twenty-three existing receptor locations. This appendix details the 2030 Opening/Future Year without Proposed Development scenario and the six 2030 Opening/Future Year with Proposed Development scenarios (scenarios 1 a-b, 2 a-b and 3 a-b) assessment results. The impact of the 2030 with Proposed Development scenarios on the ESRs has been assessed against the 2030 without development scenario, taking into account the significance criteria detailed in the EPUK/IAQM guidance. Full details of the significance criteria used within the assessment are included in Appendix 9.2.

NO₂ Impact Assessment Results

Scenarios 1i and 1a

Table 9.24 compares the predicted NO₂ concentrations for the 2030 Opening/Future Year without Proposed Development scenario and the 2030 Opening/Future with Proposed Development (Baseline Year traffic data + Phase 1). The impact has been assessed in accordance with the descriptors included in Appendix 9.2.

Table 9.24 – Adjusted NO₂ Concentrations at Existing Sensitive Receptors for Scenarios 1i and 1a (2030 Opening/Future Year)

Calculated Annual Mean NO ₂ Concentrations (µg/m ³) ^a					
Receptor	Scenario 1i - Without Development	Scenario 1a - With Development		Concentration Change as Percentage of AQAL	Impact ^b
		Concentration	Percentage in Relation to AQAL		
ESR 1	15.52	15.55	<75%	<0.5%	Negligible
ESR 2	15.77	15.81	<75%	<0.5%	Negligible
ESR 3	19.92	20.22	<75%	1%	Negligible
ESR 4	20.57	22.76	<75%	2-5%	Negligible
ESR 5	22.30	22.62	<75%	1%	Negligible
ESR 6	19.41	19.67	<75%	1%	Negligible
ESR 7	19.89	20.04	<75%	<0.5%	Negligible

Calculated Annual Mean NO ₂ Concentrations (µg/m ³) ^a					
Receptor	Scenario 1i - Without Development	Scenario 1a - With Development		Concentration Change as Percentage of AQAL	Impact ^b
		Concentration	Percentage in Relation to AQAL		
ESR 8	17.95	18.01	<75%	<0.5%	Negligible
ESR 9	16.15	16.21	<75%	<0.5%	Negligible
ESR 10	15.86	16.18	<75%	1%	Negligible
ESR 11	16.93	17.05	<75%	<0.5%	Negligible
ESR 12	20.60	20.91	<75%	1%	Negligible
ESR 13	16.87	16.94	<75%	<0.5%	Negligible
ESR 14	21.09	21.24	<75%	<0.5%	Negligible
ESR 15	16.04	16.07	<75%	<0.5%	Negligible
ESR 16	16.01	16.05	<75%	<0.5%	Negligible
ESR 17	16.10	16.14	<75%	<0.5%	Negligible
ESR 18	21.67	21.81	<75%	<0.5%	Negligible
ESR 19	19.52	19.63	<75%	<0.5%	Negligible
ESR 20	17.03	17.10	<75%	<0.5%	Negligible
ESR 21	17.06	17.30	<75%	1%	Negligible
ESR 22	14.85	15.11	<75%	1%	Negligible
ESR 23	14.82	15.07	<75%	1%	Negligible
^a NO ₂ concentrations obtained by inputting predicted NO _x concentrations into the NO _x to NO ₂ calculator, in accordance with LAQM.TG(16) ^b Assessed using the Impact Descriptors from the EPUK/IAQM guidance, included in Appendix C. Changes of less than 0.5% should be described as negligible					

Scenarios 1i and 1b

Table 9.25 compares the predicted NO₂ concentrations for the 2030 Opening/Future Year without Proposed Development scenario and the 2030 Opening/Future with Proposed Development (Baseline Year traffic data + Phase 1 + committed developments). The impact has been assessed in accordance with the descriptors included in Appendix 9.2.

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Table 9.25 – Adjusted NO₂ Concentrations at Existing Sensitive Receptors for Scenarios 1i and 1b (2030 Opening/Future Year)

Calculated Annual Mean NO ₂ Concentrations (µg/m ³) ^a					
Receptor	Scenario 1i - Without Development	Scenario 1b - With Development		Concentration Change as Percentage of AQAL	Impact ^b
		Concentration	Percentage in Relation to AQAL		
ESR 1	15.52	15.67	<75%	<0.5%	Negligible
ESR 2	15.77	15.92	<75%	<0.5%	Negligible
ESR 3	19.92	20.87	<75%	2-5%	Negligible
ESR 4	20.57	23.62	<75%	6-10%	Slight Adverse
ESR 5	22.30	23.31	<75%	2-5%	Negligible
ESR 6	19.41	20.22	<75%	2-5%	Negligible
ESR 7	19.89	20.33	<75%	1%	Negligible
ESR 8	17.95	18.13	<75%	<0.5%	Negligible
ESR 9	16.15	16.28	<75%	<0.5%	Negligible
ESR 10	15.86	16.32	<75%	1%	Negligible
ESR 11	16.93	17.23	<75%	1%	Negligible
ESR 12	20.60	21.59	<75%	2-5%	Negligible
ESR 13	16.87	17.02	<75%	<0.5%	Negligible
ESR 14	21.09	21.40	<75%	1%	Negligible
ESR 15	16.04	16.09	<75%	<0.5%	Negligible
ESR 16	16.01	16.06	<75%	<0.5%	Negligible
ESR 17	16.10	16.15	<75%	<0.5%	Negligible
ESR 18	21.67	21.87	<75%	<0.5%	Negligible
ESR 19	19.52	19.67	<75%	<0.5%	Negligible
ESR 20	17.03	17.14	<75%	<0.5%	Negligible
ESR 21	17.06	17.35	<75%	1%	Negligible
ESR 22	14.85	15.16	<75%	1%	Negligible
ESR 23	14.82	15.13	<75%	1%	Negligible
^a NO ₂ concentrations obtained by inputting predicted NO _x concentrations into the NO _x to NO ₂ calculator, in accordance with LAQM.TG(16)					

Calculated Annual Mean NO ₂ Concentrations (µg/m ³) ^a					
Receptor	Scenario 1i - Without Development	Scenario 1b - With Development		Concentration Change as Percentage of AQAL	Impact ^b
		Concentration	Percentage in Relation to AQAL		
^b Assessed using the Impact Descriptors from the EPUK/IAQM guidance, included in Appendix C. Changes of less than 0.5% should be described as negligible					

Scenarios 1i and 2a

Table 9.26 compares the predicted NO₂ concentrations for the 2030 Opening/Future Year without Proposed Development scenario and the 2030 Opening/Future with Proposed Development (Baseline Year traffic data + Phase 1 + School). The impact has been assessed in accordance with the descriptors included in Appendix 9.2.

Table 9.26 – Adjusted NO₂ Concentrations at Existing Sensitive Receptors for Scenarios 1i and 2a (2030 Opening/Future Year)

Calculated Annual Mean NO ₂ Concentrations (µg/m ³) ^a					
Receptor	Scenario 1i - Without Development	Scenario 2a - With Development		Concentration Change as Percentage of AQAL	Impact ^b
		Concentration	Percentage in Relation to AQAL		
ESR 1	15.52	15.56	<75%	<0.5%	Negligible
ESR 2	15.77	15.81	<75%	<0.5%	Negligible
ESR 3	19.92	20.28	<75%	1%	Negligible
ESR 4	20.57	22.84	<75%	6-10%	Slight Adverse
ESR 5	22.30	22.69	<75%	1%	Negligible
ESR 6	19.41	19.73	<75%	1%	Negligible
ESR 7	19.89	20.06	<75%	<0.5%	Negligible
ESR 8	17.95	18.02	<75%	<0.5%	Negligible
ESR 9	16.15	16.21	<75%	<0.5%	Negligible
ESR 10	15.86	16.20	<75%	1%	Negligible
ESR 11	16.93	17.07	<75%	<0.5%	Negligible
ESR 12	20.60	20.98	<75%	1%	Negligible
ESR 13	16.87	16.95	<75%	<0.5%	Negligible
ESR 14	21.09	21.24	<75%	<0.5%	Negligible

Calculated Annual Mean NO ₂ Concentrations (µg/m ³) ^a					
Receptor	Scenario 1i - Without Development	Scenario 2a - With Development		Concentration Change as Percentage of AQAL	Impact ^b
		Concentration	Percentage in Relation to AQAL		
ESR 15	16.04	16.08	<75%	<0.5%	Negligible
ESR 16	16.01	16.05	<75%	<0.5%	Negligible
ESR 17	16.10	16.14	<75%	<0.5%	Negligible
ESR 18	21.67	21.82	<75%	<0.5%	Negligible
ESR 19	19.52	19.64	<75%	<0.5%	Negligible
ESR 20	17.03	17.11	<75%	<0.5%	Negligible
ESR 21	17.06	17.36	<75%	1%	Negligible
ESR 22	14.85	15.18	<75%	1%	Negligible
ESR 23	14.82	15.14	<75%	1%	Negligible
^a NO ₂ concentrations obtained by inputting predicted NO _x concentrations into the NO _x to NO ₂ calculator, in accordance with LAQM.TG(16)					
^b Assessed using the Impact Descriptors from the EPUK/IAQM guidance, included in Appendix C. Changes of less than 0.5% should be described as negligible					

Scenarios 1i and 2b

Table 9.27 compares the predicted NO₂ concentrations for the 2030 Opening/Future Year without Proposed Development scenario and the 2030 Opening/Future with Proposed Development (Baseline Year traffic data + Phase 1 + School + committed developments). The impact has been assessed in accordance with the descriptors included in Appendix 9.2.

Table 9.27 – Adjusted NO₂ Concentrations at Existing Sensitive Receptors for Scenarios 1i and 2b (2030 Opening/Future Year)

Calculated Annual Mean NO ₂ Concentrations (µg/m ³) ^a					
Receptor	Scenario 1i - Without Development	Scenario 2b - With Development		Concentration Change as Percentage of AQAL	Impact ^b
		Concentration	Percentage in Relation to AQAL		
ESR 1	15.52	15.68	<75%	<0.5%	Negligible
ESR 2	15.77	15.92	<75%	<0.5%	Negligible

Calculated Annual Mean NO ₂ Concentrations (µg/m ³) ^a					
Receptor	Scenario 1i - Without Development	Scenario 2b - With Development		Concentration Change as Percentage of AQAL	Impact ^b
		Concentration	Percentage in Relation to AQAL		
ESR 3	19.92	20.93	<75%	2-5%	Negligible
ESR 4	20.57	23.70	<75%	6-10%	Slight Adverse
ESR 5	22.30	23.38	<75%	2-5%	Negligible
ESR 6	19.41	20.27	<75%	2-5%	Negligible
ESR 7	19.89	20.35	<75%	1%	Negligible
ESR 8	17.95	18.14	<75%	<0.5%	Negligible
ESR 9	16.15	16.29	<75%	<0.5%	Negligible
ESR 10	15.86	16.34	<75%	1%	Negligible
ESR 11	16.93	17.25	<75%	1%	Negligible
ESR 12	20.60	21.66	<75%	2-5%	Negligible
ESR 13	16.87	17.02	<75%	<0.5%	Negligible
ESR 14	21.09	21.40	<75%	1%	Negligible
ESR 15	16.04	16.09	<75%	<0.5%	Negligible
ESR 16	16.01	16.06	<75%	<0.5%	Negligible
ESR 17	16.10	16.15	<75%	<0.5%	Negligible
ESR 18	21.67	21.87	<75%	<0.5%	Negligible
ESR 19	19.52	19.67	<75%	<0.5%	Negligible
ESR 20	17.03	17.14	<75%	<0.5%	Negligible
ESR 21	17.06	17.41	<75%	1%	Negligible
ESR 22	14.85	15.23	<75%	1%	Negligible
ESR 23	14.82	15.20	<75%	1%	Negligible
^a NO ₂ concentrations obtained by inputting predicted NO _x concentrations into the NO _x to NO ₂ calculator, in accordance with LAQM.TG(16) ^b Assessed using the Impact Descriptors from the EPUK/IAQM guidance, included in Appendix C. Changes of less than 0.5% should be described as negligible					

Scenarios 1i and 3a

Table 9.28 compares the predicted NO₂ concentrations for the 2030 Opening/Future Year without Proposed Development scenario and the 2030 Opening/Future with Proposed Development (Baseline Year traffic data +

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Phase 1 + School + Phase 2). The impact has been assessed in accordance with the descriptors included in Appendix 9.2.

Table 9.28 – Adjusted NO₂ Concentrations at Existing Sensitive Receptors for Scenarios 1i and 3a (2030 Opening/Future Year)

Calculated Annual Mean NO ₂ Concentrations (µg/m ³) ^a					
Receptor	Scenario 1i - Without Development	Scenario 3a - With Development		Concentration Change as Percentage of AQAL	Impact ^b
		Concentration	Percentage in Relation to AQAL		
ESR 1	15.52	15.58	<75%	<0.5%	Negligible
ESR 2	15.77	15.82	<75%	<0.5%	Negligible
ESR 3	19.92	20.43	<75%	1%	Negligible
ESR 4	20.57	23.04	<75%	6-10%	Slight Adverse
ESR 5	22.30	22.84	<75%	1%	Negligible
ESR 6	19.41	19.86	<75%	1%	Negligible
ESR 7	19.89	20.12	<75%	1%	Negligible
ESR 8	17.95	18.04	<75%	<0.5%	Negligible
ESR 9	16.15	16.22	<75%	<0.5%	Negligible
ESR 10	15.86	16.25	<75%	1%	Negligible
ESR 11	16.93	17.12	<75%	<0.5%	Negligible
ESR 12	20.60	21.13	<75%	1%	Negligible
ESR 13	16.87	16.97	<75%	<0.5%	Negligible
ESR 14	21.09	21.26	<75%	<0.5%	Negligible
ESR 15	16.04	16.10	<75%	<0.5%	Negligible
ESR 16	16.01	16.07	<75%	<0.5%	Negligible
ESR 17	16.10	16.16	<75%	<0.5%	Negligible
ESR 18	21.67	22.02	<75%	1%	Negligible
ESR 19	19.52	19.97	<75%	1%	Negligible
ESR 20	17.03	17.21	<75%	<0.5%	Negligible
ESR 21	17.06	17.56	<75%	1%	Negligible
ESR 22	14.85	15.35	<75%	1%	Negligible
ESR 23	14.82	15.29	<75%	1%	Negligible

Calculated Annual Mean NO ₂ Concentrations (µg/m ³) ^a					
Receptor	Scenario 1i - Without Development	Scenario 3a - With Development		Concentration Change as Percentage of AQAL	Impact ^b
		Concentration	Percentage in Relation to AQAL		
^a NO ₂ concentrations obtained by inputting predicted NO _x concentrations into the NO _x to NO ₂ calculator, in accordance with LAQM.TG(16)					
^b Assessed using the Impact Descriptors from the EPUK/IAQM guidance, included in Appendix C. Changes of less than 0.5% should be described as negligible					

Scenarios 1i and 3b

Table 9.29 compares the predicted NO₂ concentrations for the 2030 Opening/Future Year without Proposed Development scenario and the 2030 Opening/Future with Proposed Development (Baseline Year traffic data + Phase 1 + School + Phase 2 + committed developments). The impact has been assessed in accordance with the descriptors included in Appendix 9.2.

Table 9.29 – Adjusted NO₂ Concentrations at Existing Sensitive Receptors for Scenarios 1i and 3b (2030 Opening/Future Year)

Calculated Annual Mean NO ₂ Concentrations (µg/m ³) ^a					
Receptor	Scenario 1i - Without Development	Scenario 3b - With Development		Concentration Change as Percentage of AQAL	Impact ^b
		Concentration	Percentage in Relation to AQAL		
ESR 1	15.52	15.69	<75%	<0.5%	Negligible
ESR 2	15.77	15.93	<75%	<0.5%	Negligible
ESR 3	19.92	21.08	<75%	2-5%	Negligible
ESR 4	20.57	23.90	<75%	6-10%	Slight Adverse
ESR 5	22.30	23.53	<75%	2-5%	Negligible
ESR 6	19.41	20.40	<75%	2-5%	Negligible
ESR 7	19.89	20.41	<75%	1%	Negligible
ESR 8	17.95	18.15	<75%	<0.5%	Negligible
ESR 9	16.15	16.30	<75%	<0.5%	Negligible
ESR 10	15.86	16.39	<75%	1%	Negligible
ESR 11	16.93	17.31	<75%	1%	Negligible
ESR 12	20.60	21.81	<75%	2-5%	Negligible
ESR 13	16.87	17.04	<75%	<0.5%	Negligible

Calculated Annual Mean NO ₂ Concentrations (µg/m ³) ^a					
Receptor	Scenario 1i - Without Development	Scenario 3b - With Development		Concentration Change as Percentage of AQAL	Impact ^b
		Concentration	Percentage in Relation to AQAL		
ESR 14	21.09	21.42	<75%	1%	Negligible
ESR 15	16.04	16.11	<75%	<0.5%	Negligible
ESR 16	16.01	16.09	<75%	<0.5%	Negligible
ESR 17	16.10	16.16	<75%	<0.5%	Negligible
ESR 18	21.67	22.07	<75%	1%	Negligible
ESR 19	19.52	20.01	<75%	1%	Negligible
ESR 20	17.03	17.24	<75%	1%	Negligible
ESR 21	17.06	17.61	<75%	1%	Negligible
ESR 22	14.85	15.40	<75%	1%	Negligible
ESR 23	14.82	15.35	<75%	1%	Negligible
^a NO ₂ concentrations obtained by inputting predicted NO _x concentrations into the NO _x to NO ₂ calculator, in accordance with LAQM.TG(16) ^b Assessed using the Impact Descriptors from the EPUK/IAQM guidance, included in Appendix C. Changes of less than 0.5% should be described as negligible					

PM₁₀ Impact Assessment Results

Scenarios 1i and 1a

Table 9.30 compares the predicted PM₁₀ concentrations for the 2030 Opening/Future Year without Proposed Development scenario and the 2030 Opening/Future with Proposed Development (Baseline Year traffic data + Phase 1). The impact has been assessed in accordance with the descriptors included in Appendix 9.2.

Table 9.30 – Adjusted PM₁₀ Concentrations at Existing Sensitive Receptors for Scenarios 1i and 1a (2030 Opening/Future Year)

Calculated Annual Mean PM ₁₀ Concentrations (µg/m ³)					
Receptor	Scenario 1i - Without Development	Scenario 1a - With Development		Concentration Change as Percentage of AQAL	Impact ^a
		Concentration	Percentage in Relation to AQAL		
ESR 1	12.05	12.06	<75%	<0.5%	Negligible
ESR 2	12.14	12.15	<75%	<0.5%	Negligible

Calculated Annual Mean PM ₁₀ Concentrations (µg/m ³)					
Receptor	Scenario 1i - Without Development	Scenario 1a - With Development		Concentration Change as Percentage of AQAL	Impact ^a
		Concentration	Percentage in Relation to AQAL		
ESR 3	13.37	13.46	<75%	<0.5%	Negligible
ESR 4	13.60	14.14	<75%	1%	Negligible
ESR 5	13.71	13.80	<75%	<0.5%	Negligible
ESR 6	13.30	13.37	<75%	<0.5%	Negligible
ESR 7	13.21	13.25	<75%	<0.5%	Negligible
ESR 8	12.94	12.96	<75%	<0.5%	Negligible
ESR 9	12.38	12.39	<75%	<0.5%	Negligible
ESR 10	12.23	12.31	<75%	<0.5%	Negligible
ESR 11	12.51	12.54	<75%	<0.5%	Negligible
ESR 12	13.67	13.77	<75%	<0.5%	Negligible
ESR 13	12.48	12.49	<75%	<0.5%	Negligible
ESR 14	13.62	13.66	<75%	<0.5%	Negligible
ESR 15	12.25	12.25	<75%	<0.5%	Negligible
ESR 16	12.24	12.24	<75%	<0.5%	Negligible
ESR 17	12.27	12.27	<75%	<0.5%	Negligible
ESR 18	13.52	13.56	<75%	<0.5%	Negligible
ESR 19	13.18	13.21	<75%	<0.5%	Negligible
ESR 20	11.83	11.84	<75%	<0.5%	Negligible
ESR 21	11.81	11.86	<75%	<0.5%	Negligible
ESR 22	11.99	12.07	<75%	<0.5%	Negligible
ESR 23	11.98	12.05	<75%	<0.5%	Negligible
^a Assessed using the Impact Descriptors from the EPUK/IAQM guidance, included in Appendix C. Changes of less than 0.5% should be described as negligible					

Scenarios 1i and 1b

Table 9.31 compares the predicted PM₁₀ concentrations for the 2030 Opening/Future Year without Proposed Development scenario and the 2030 Opening/Future with Proposed Development (Baseline Year traffic data +

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Phase 1 + committed developments). The impact has been assessed in accordance with the descriptors included in Appendix 9.2.

Table 9.31 – Adjusted PM₁₀ Concentrations at Existing Sensitive Receptors for Scenarios 1i and 1b (2030 Opening/Future Year)

Calculated Annual Mean PM ₁₀ Concentrations (µg/m ³)					
Receptor	Scenario 1i - Without Development	Scenario 1b - With Development		Concentration Change as Percentage of AQAL	Impact ^a
		Concentration	Percentage in Relation to AQAL		
ESR 1	12.05	12.09	<75%	<0.5%	Negligible
ESR 2	12.14	12.18	<75%	<0.5%	Negligible
ESR 3	13.37	13.66	<75%	1%	Negligible
ESR 4	13.60	14.39	<75%	2-5%	Negligible
ESR 5	13.71	13.97	<75%	1%	Negligible
ESR 6	13.30	13.54	<75%	1%	Negligible
ESR 7	13.21	13.32	<75%	<0.5%	Negligible
ESR 8	12.94	12.99	<75%	<0.5%	Negligible
ESR 9	12.38	12.41	<75%	<0.5%	Negligible
ESR 10	12.23	12.35	<75%	<0.5%	Negligible
ESR 11	12.51	12.59	<75%	<0.5%	Negligible
ESR 12	13.67	13.98	<75%	1%	Negligible
ESR 13	12.48	12.52	<75%	<0.5%	Negligible
ESR 14	13.62	13.72	<75%	<0.5%	Negligible
ESR 15	12.25	12.26	<75%	<0.5%	Negligible
ESR 16	12.24	12.25	<75%	<0.5%	Negligible
ESR 17	12.27	12.28	<75%	<0.5%	Negligible
ESR 18	13.52	13.57	<75%	<0.5%	Negligible
ESR 19	13.18	13.23	<75%	<0.5%	Negligible
ESR 20	11.83	11.86	<75%	<0.5%	Negligible
ESR 21	11.81	11.88	<75%	<0.5%	Negligible
ESR 22	11.99	12.08	<75%	<0.5%	Negligible
ESR 23	11.98	12.07	<75%	<0.5%	Negligible

Calculated Annual Mean PM ₁₀ Concentrations (µg/m³)					
Receptor	Scenario 1i - Without Development	Scenario 1b - With Development		Concentration Change as Percentage of AQAL	Impact ^a
		Concentration	Percentage in Relation to AQAL		
^a Assessed using the Impact Descriptors from the EPUK/IAQM guidance, included in Appendix C. Changes of less than 0.5% should be described as negligible					

Scenarios 1i and 2a

Table 9.32 compares the predicted PM₁₀ concentrations for the 2030 Opening/Future Year without Proposed Development scenario and the 2030 Opening/Future with Proposed Development (Baseline Year traffic data + Phase 1 + School). The impact has been assessed in accordance with the descriptors included in Appendix 9.2.

Table 9.32 – Adjusted PM₁₀ Concentrations at Existing Sensitive Receptors for Scenarios 1i and 2a (2030 Opening/Future Year)

Calculated Annual Mean PM ₁₀ Concentrations (µg/m ³)					
Receptor	Scenario 1i - Without Development	Scenario 2a - With Development		Concentration Change as Percentage of AQAL	Impact ^a
		Concentration	Percentage in Relation to AQAL		
ESR 1	12.05	12.06	<75%	<0.5%	Negligible
ESR 2	12.14	12.15	<75%	<0.5%	Negligible
ESR 3	13.37	13.48	<75%	<0.5%	Negligible
ESR 4	13.60	14.16	<75%	1%	Negligible
ESR 5	13.71	13.81	<75%	<0.5%	Negligible
ESR 6	13.30	13.39	<75%	<0.5%	Negligible
ESR 7	13.21	13.26	<75%	<0.5%	Negligible
ESR 8	12.94	12.96	<75%	<0.5%	Negligible
ESR 9	12.38	12.39	<75%	<0.5%	Negligible
ESR 10	12.23	12.32	<75%	<0.5%	Negligible
ESR 11	12.51	12.55	<75%	<0.5%	Negligible
ESR 12	13.67	13.79	<75%	<0.5%	Negligible
ESR 13	12.48	12.50	<75%	<0.5%	Negligible
ESR 14	13.62	13.67	<75%	<0.5%	Negligible

Calculated Annual Mean PM ₁₀ Concentrations (µg/m ³)					
Receptor	Scenario 1i - Without Development	Scenario 2a - With Development		Concentration Change as Percentage of AQAL	Impact ^a
		Concentration	Percentage in Relation to AQAL		
ESR 15	12.25	12.26	<75%	<0.5%	Negligible
ESR 16	12.24	12.25	<75%	<0.5%	Negligible
ESR 17	12.27	12.28	<75%	<0.5%	Negligible
ESR 18	13.52	13.56	<75%	<0.5%	Negligible
ESR 19	13.18	13.22	<75%	<0.5%	Negligible
ESR 20	11.83	11.85	<75%	<0.5%	Negligible
ESR 21	11.81	11.88	<75%	<0.5%	Negligible
ESR 22	11.99	12.09	<75%	<0.5%	Negligible
ESR 23	11.98	12.07	<75%	<0.5%	Negligible
^a Assessed using the Impact Descriptors from the EPUK/IAQM guidance, included in Appendix C. Changes of less than 0.5% should be described as negligible					

Scenarios 1i and 2b

Table 9.33 compares the predicted PM₁₀ concentrations for the 2030 Opening/Future Year without Proposed Development scenario and the 2030 Opening/Future with Proposed Development (Baseline Year traffic data + Phase 1 + School + committed developments). The impact has been assessed in accordance with the descriptors included in Appendix 9.2.

Table 9.33 – Adjusted PM₁₀ Concentrations at Existing Sensitive Receptors for Scenarios 1i and 2b (2030 Opening/Future Year)

Calculated Annual Mean PM ₁₀ Concentrations (µg/m ³)					
Receptor	Scenario 1i - Without Development	Scenario 2b - With Development		Concentration Change as Percentage of AQAL	Impact ^a
		Concentration	Percentage in Relation to AQAL		
ESR 1	12.05	12.09	<75%	<0.5%	Negligible
ESR 2	12.14	12.18	<75%	<0.5%	Negligible
ESR 3	13.37	13.68	<75%	1%	Negligible
ESR 4	13.60	14.41	<75%	2-5%	Negligible

Calculated Annual Mean PM ₁₀ Concentrations (µg/m ³)					
Receptor	Scenario 1i - Without Development	Scenario 2b - With Development		Concentration Change as Percentage of AQAL	Impact ^a
		Concentration	Percentage in Relation to AQAL		
ESR 5	13.71	13.99	<75%	1%	Negligible
ESR 6	13.30	13.55	<75%	1%	Negligible
ESR 7	13.21	13.33	<75%	<0.5%	Negligible
ESR 8	12.94	12.99	<75%	<0.5%	Negligible
ESR 9	12.38	12.42	<75%	<0.5%	Negligible
ESR 10	12.23	12.35	<75%	<0.5%	Negligible
ESR 11	12.51	12.60	<75%	<0.5%	Negligible
ESR 12	13.67	14.00	<75%	1%	Negligible
ESR 13	12.48	12.52	<75%	<0.5%	Negligible
ESR 14	13.62	13.72	<75%	<0.5%	Negligible
ESR 15	12.25	12.26	<75%	<0.5%	Negligible
ESR 16	12.24	12.25	<75%	<0.5%	Negligible
ESR 17	12.27	12.28	<75%	<0.5%	Negligible
ESR 18	13.52	13.57	<75%	<0.5%	Negligible
ESR 19	13.18	13.23	<75%	<0.5%	Negligible
ESR 20	11.83	11.86	<75%	<0.5%	Negligible
ESR 21	11.81	11.89	<75%	<0.5%	Negligible
ESR 22	11.99	12.10	<75%	<0.5%	Negligible
ESR 23	11.98	12.09	<75%	<0.5%	Negligible
^a Assessed using the Impact Descriptors from the EPUK/IAQM guidance, included in Appendix C. Changes of less than 0.5% should be described as negligible					

Scenarios 1i and 3a

Table 9.34 compares the predicted PM₁₀ concentrations for the 2030 Opening/Future Year without Proposed Development scenario and the 2030 Opening/Future with Proposed Development (Baseline Year traffic data + Phase 1 + School + Phase 2). The impact has been assessed in accordance with the descriptors included in Appendix 9.2.

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Table 9.34 – Adjusted PM₁₀ Concentrations at Existing Sensitive Receptors for Scenarios 1i and 3a (2030 Opening/Future Year)

Calculated Annual Mean PM ₁₀ Concentrations (µg/m ³)					
Receptor	Scenario 1i - Without Development	Scenario 3a - With Development		Concentration Change as Percentage of AQAL	Impact ^a
		Concentration	Percentage in Relation to AQAL		
ESR 1	12.05	12.06	<75%	<0.5%	Negligible
ESR 2	12.14	12.15	<75%	<0.5%	Negligible
ESR 3	13.37	13.53	<75%	<0.5%	Negligible
ESR 4	13.60	14.22	<75%	2-5%	Negligible
ESR 5	13.71	13.85	<75%	<0.5%	Negligible
ESR 6	13.30	13.43	<75%	<0.5%	Negligible
ESR 7	13.21	13.27	<75%	<0.5%	Negligible
ESR 8	12.94	12.96	<75%	<0.5%	Negligible
ESR 9	12.38	12.40	<75%	<0.5%	Negligible
ESR 10	12.23	12.33	<75%	<0.5%	Negligible
ESR 11	12.51	12.56	<75%	<0.5%	Negligible
ESR 12	13.67	13.84	<75%	<0.5%	Negligible
ESR 13	12.48	12.50	<75%	<0.5%	Negligible
ESR 14	13.62	13.68	<75%	<0.5%	Negligible
ESR 15	12.25	12.26	<75%	<0.5%	Negligible
ESR 16	12.24	12.25	<75%	<0.5%	Negligible
ESR 17	12.27	12.28	<75%	<0.5%	Negligible
ESR 18	13.52	13.61	<75%	<0.5%	Negligible
ESR 19	13.18	13.30	<75%	<0.5%	Negligible
ESR 20	11.83	11.88	<75%	<0.5%	Negligible
ESR 21	11.81	11.93	<75%	<0.5%	Negligible
ESR 22	11.99	12.14	<75%	<0.5%	Negligible
ESR 23	11.98	12.12	<75%	<0.5%	Negligible
^a Assessed using the Impact Descriptors from the EPUK/IAQM guidance, included in Appendix C. Changes of less than 0.5% should be described as negligible					

Scenarios 1i and 3b

Table 9.35 compares the predicted PM₁₀ concentrations for the 2030 Opening/Future Year without Proposed Development scenario and the 2030 Opening/Future with Proposed Development (Baseline Year traffic data + Phase 1 + School + Phase 2 + committed developments). The impact has been assessed in accordance with the descriptors included in Appendix 9.2.

Table 9.35 – Adjusted PM₁₀ Concentrations at Existing Sensitive Receptors for Scenarios 1i and 3b (2030 Opening/Future Year)

Calculated Annual Mean PM ₁₀ Concentrations (µg/m ³)					
Receptor	Scenario 1i - Without Development	Scenario 3b - With Development		Concentration Change as Percentage of AQAL	Impact ^a
		Concentration	Percentage in Relation to AQAL		
ESR 1	12.05	12.10	<75%	<0.5%	Negligible
ESR 2	12.14	12.19	<75%	<0.5%	Negligible
ESR 3	13.37	13.73	<75%	1%	Negligible
ESR 4	13.60	14.47	<75%	2-5%	Negligible
ESR 5	13.71	14.03	<75%	1%	Negligible
ESR 6	13.30	13.59	<75%	1%	Negligible
ESR 7	13.21	13.35	<75%	<0.5%	Negligible
ESR 8	12.94	13.00	<75%	<0.5%	Negligible
ESR 9	12.38	12.42	<75%	<0.5%	Negligible
ESR 10	12.23	12.37	<75%	<0.5%	Negligible
ESR 11	12.51	12.61	<75%	<0.5%	Negligible
ESR 12	13.67	14.04	<75%	1%	Negligible
ESR 13	12.48	12.52	<75%	<0.5%	Negligible
ESR 14	13.62	13.72	<75%	<0.5%	Negligible
ESR 15	12.25	12.27	<75%	<0.5%	Negligible
ESR 16	12.24	12.26	<75%	<0.5%	Negligible
ESR 17	12.27	12.29	<75%	<0.5%	Negligible
ESR 18	13.52	13.62	<75%	<0.5%	Negligible
ESR 19	13.18	13.31	<75%	<0.5%	Negligible
ESR 20	11.83	11.88	<75%	<0.5%	Negligible

Calculated Annual Mean PM ₁₀ Concentrations (µg/m ³)					
Receptor	Scenario 1i - Without Development	Scenario 3b - With Development		Concentration Change as Percentage of AQAL	Impact ^a
		Concentration	Percentage in Relation to AQAL		
ESR 21	11.81	11.94	<75%	<0.5%	Negligible
ESR 22	11.99	12.15	<75%	<0.5%	Negligible
ESR 23	11.98	12.14	<75%	<0.5%	Negligible
^a Assessed using the Impact Descriptors from the EPUK/IAQM guidance, included in Appendix C. Changes of less than 0.5% should be described as negligible					

PM_{2.5} Impact Assessment Results

Scenarios 1i and 1a

Table 9.36 compares the predicted PM_{2.5} concentrations for the 2030 Opening/Future Year without Proposed Development scenario and the 2030 Opening/Future with Proposed Development (Baseline Year traffic data + Phase 1). The impact has been assessed in accordance with the descriptors included in Appendix 9.2.

Table 9.36 – Adjusted PM_{2.5} Concentrations at Existing Sensitive Receptors for Scenarios 1i and 1a (2030 Opening/Future Year)

Calculated Annual Mean PM _{2.5} Concentrations (µg/m ³)					
Receptor	Scenario 1i - Without Development	Scenario 1a - With Development		Concentration Change as Percentage of AQAL	Impact ^a
		Concentration	Percentage in Relation to AQAL		
ESR 1	7.91	7.92	<75%	<0.5%	Negligible
ESR 2	7.96	7.97	<75%	<0.5%	Negligible
ESR 3	8.65	8.70	<75%	<0.5%	Negligible
ESR 4	8.85	9.15	<75%	1%	Negligible
ESR 5	8.93	8.97	<75%	<0.5%	Negligible
ESR 6	8.69	8.73	<75%	<0.5%	Negligible
ESR 7	8.64	8.66	<75%	<0.5%	Negligible
ESR 8	8.48	8.49	<75%	<0.5%	Negligible
ESR 9	8.18	8.18	<75%	<0.5%	Negligible
ESR 10	8.10	8.14	<75%	<0.5%	Negligible
ESR 11	8.25	8.27	<75%	<0.5%	Negligible

Calculated Annual Mean PM _{2.5} Concentrations (µg/m ³)					
Receptor	Scenario 1i - Without Development	Scenario 1a - With Development		Concentration Change as Percentage of AQAL	Impact ^a
		Concentration	Percentage in Relation to AQAL		
ESR 12	8.89	8.94	<75%	<0.5%	Negligible
ESR 13	8.47	8.48	<75%	<0.5%	Negligible
ESR 14	9.11	9.13	<75%	<0.5%	Negligible
ESR 15	8.34	8.35	<75%	<0.5%	Negligible
ESR 16	8.34	8.34	<75%	<0.5%	Negligible
ESR 17	8.36	8.36	<75%	<0.5%	Negligible
ESR 18	9.06	9.08	<75%	<0.5%	Negligible
ESR 19	8.87	8.88	<75%	<0.5%	Negligible
ESR 20	7.88	7.90	<75%	<0.5%	Negligible
ESR 21	7.87	7.91	<75%	<0.5%	Negligible
ESR 22	7.96	8.00	<75%	<0.5%	Negligible
ESR 23	7.96	7.99	<75%	<0.5%	Negligible
^a Assessed using the Impact Descriptors from the EPUK/IAQM guidance, included in Appendix C. Changes of less than 0.5% should be described as negligible					

Scenarios 1i and 1b

Table 9.37 compares the predicted PM_{2.5} concentrations for the 2030 Opening/Future Year without Proposed Development scenario and the 2030 Opening/Future with Proposed Development (Baseline Year traffic data + Phase 1 + committed developments). The impact has been assessed in accordance with the descriptors included in Appendix 9.2.

Table 9.37 – Adjusted PM_{2.5} Concentrations at Existing Sensitive Receptors for Scenarios 1i and 1b (2030 Opening/Future Year)

Calculated Annual Mean PM _{2.5} Concentrations (µg/m ³)					
Receptor	Scenario 1i - Without Development	Scenario 1b - With Development		Concentration Change as Percentage of AQAL	Impact ^a
		Concentration	Percentage in Relation to AQAL		
ESR 1	7.91	7.94	<75%	<0.5%	Negligible
ESR 2	7.96	7.99	<75%	<0.5%	Negligible

Calculated Annual Mean PM _{2.5} Concentrations (µg/m ³)					
Receptor	Scenario 1i - Without Development	Scenario 1b - With Development		Concentration Change as Percentage of AQAL	Impact ^a
		Concentration	Percentage in Relation to AQAL		
ESR 3	8.65	8.81	<75%	<0.5%	Negligible
ESR 4	8.85	9.30	<75%	1%	Negligible
ESR 5	8.93	9.07	<75%	<0.5%	Negligible
ESR 6	8.69	8.82	<75%	<0.5%	Negligible
ESR 7	8.64	8.71	<75%	<0.5%	Negligible
ESR 8	8.48	8.51	<75%	<0.5%	Negligible
ESR 9	8.18	8.20	<75%	<0.5%	Negligible
ESR 10	8.10	8.16	<75%	<0.5%	Negligible
ESR 11	8.25	8.30	<75%	<0.5%	Negligible
ESR 12	8.89	9.06	<75%	<0.5%	Negligible
ESR 13	8.47	8.49	<75%	<0.5%	Negligible
ESR 14	9.11	9.16	<75%	<0.5%	Negligible
ESR 15	8.34	8.35	<75%	<0.5%	Negligible
ESR 16	8.34	8.35	<75%	<0.5%	Negligible
ESR 17	8.36	8.36	<75%	<0.5%	Negligible
ESR 18	9.06	9.09	<75%	<0.5%	Negligible
ESR 19	8.87	8.89	<75%	<0.5%	Negligible
ESR 20	7.88	7.90	<75%	<0.5%	Negligible
ESR 21	7.87	7.91	<75%	<0.5%	Negligible
ESR 22	7.96	8.01	<75%	<0.5%	Negligible
ESR 23	7.96	8.01	<75%	<0.5%	Negligible
^a Assessed using the Impact Descriptors from the EPUK/IAQM guidance, included in Appendix C. Changes of less than 0.5% should be described as negligible					

Scenarios 1i and 2a

Table 9.38 compares the predicted PM_{2.5} concentrations for the 2030 Opening/Future Year without Proposed Development scenario and the 2030 Opening/Future with Proposed Development (Baseline Year traffic data + Phase 1 + School). The impact has been assessed in accordance with the descriptors included in Appendix 9.2.

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Table 9.38 – Adjusted PM_{2.5} Concentrations at Existing Sensitive Receptors for Scenarios 1i and 2a (2030 Opening/Future Year)

Calculated Annual Mean PM _{2.5} Concentrations (µg/m ³)					
Receptor	Scenario 1i - Without Development	Scenario 2a - With Development		Concentration Change as Percentage of AQAL	Impact ^a
		Concentration	Percentage in Relation to AQAL		
ESR 1	7.91	7.92	<75%	<0.5%	Negligible
ESR 2	7.96	7.97	<75%	<0.5%	Negligible
ESR 3	8.65	8.71	<75%	<0.5%	Negligible
ESR 4	8.85	9.17	<75%	1%	Negligible
ESR 5	8.93	8.99	<75%	<0.5%	Negligible
ESR 6	8.69	8.74	<75%	<0.5%	Negligible
ESR 7	8.64	8.67	<75%	<0.5%	Negligible
ESR 8	8.48	8.50	<75%	<0.5%	Negligible
ESR 9	8.18	8.19	<75%	<0.5%	Negligible
ESR 10	8.10	8.14	<75%	<0.5%	Negligible
ESR 11	8.25	8.27	<75%	<0.5%	Negligible
ESR 12	8.89	8.96	<75%	<0.5%	Negligible
ESR 13	8.47	8.48	<75%	<0.5%	Negligible
ESR 14	9.11	9.13	<75%	<0.5%	Negligible
ESR 15	8.34	8.35	<75%	<0.5%	Negligible
ESR 16	8.34	8.34	<75%	<0.5%	Negligible
ESR 17	8.36	8.36	<75%	<0.5%	Negligible
ESR 18	9.06	9.08	<75%	<0.5%	Negligible
ESR 19	8.87	8.88	<75%	<0.5%	Negligible
ESR 20	7.88	7.89	<75%	<0.5%	Negligible
ESR 21	7.87	7.91	<75%	<0.5%	Negligible
ESR 22	7.96	8.02	<75%	<0.5%	Negligible
ESR 23	7.96	8.01	<75%	<0.5%	Negligible
^a Assessed using the Impact Descriptors from the EPUK/IAQM guidance, included in Appendix C. Changes of less than 0.5% should be described as negligible					

Scenarios 1i and 2b

Table 9.39 compares the predicted PM_{2.5} concentrations for the 2030 Opening/Future Year without Proposed Development scenario and the 2030 Opening/Future with Proposed Development (Baseline Year traffic data + Phase 1 + School + committed developments). The impact has been assessed in accordance with the descriptors included in Appendix 9.2.

Table 9.39 – Adjusted PM_{2.5} Concentrations at Existing Sensitive Receptors for Scenarios 1i and 2b (2030 Opening/Future Year)

Calculated Annual Mean PM _{2.5} Concentrations (µg/m ³)					
Receptor	Scenario 1i - Without Development	Scenario 2b - With Development		Concentration Change as Percentage of AQAL	Impact ^a
		Concentration	Percentage in Relation to AQAL		
ESR 1	7.91	7.94	<75%	<0.5%	Negligible
ESR 2	7.96	7.99	<75%	<0.5%	Negligible
ESR 3	8.65	8.82	<75%	<0.5%	Negligible
ESR 4	8.85	9.31	<75%	1%	Negligible
ESR 5	8.93	9.08	<75%	<0.5%	Negligible
ESR 6	8.69	8.83	<75%	<0.5%	Negligible
ESR 7	8.64	8.71	<75%	<0.5%	Negligible
ESR 8	8.48	8.52	<75%	<0.5%	Negligible
ESR 9	8.18	8.20	<75%	<0.5%	Negligible
ESR 10	8.10	8.17	<75%	<0.5%	Negligible
ESR 11	8.25	8.30	<75%	<0.5%	Negligible
ESR 12	8.89	9.07	<75%	<0.5%	Negligible
ESR 13	8.47	8.49	<75%	<0.5%	Negligible
ESR 14	9.11	9.16	<75%	<0.5%	Negligible
ESR 15	8.34	8.35	<75%	<0.5%	Negligible
ESR 16	8.34	8.35	<75%	<0.5%	Negligible
ESR 17	8.36	8.36	<75%	<0.5%	Negligible
ESR 18	9.06	9.09	<75%	<0.5%	Negligible
ESR 19	8.87	8.89	<75%	<0.5%	Negligible
ESR 20	7.88	7.90	<75%	<0.5%	Negligible

Calculated Annual Mean PM _{2.5} Concentrations (µg/m ³)					
Receptor	Scenario 1i - Without Development	Scenario 2b - With Development		Concentration Change as Percentage of AQAL	Impact ^a
		Concentration	Percentage in Relation to AQAL		
ESR 21	7.87	7.92	<75%	<0.5%	Negligible
ESR 22	7.96	8.02	<75%	<0.5%	Negligible
ESR 23	7.96	8.02	<75%	<0.5%	Negligible
^a Assessed using the Impact Descriptors from the EPUK/IAQM guidance, included in Appendix C. Changes of less than 0.5% should be described as negligible					

Scenarios 1i and 3a

Table 9.40 compares the predicted PM_{2.5} concentrations for the 2030 Opening/Future Year without Proposed Development scenario and the 2030 Opening/Future with Proposed Development (Baseline Year traffic data + Phase 1 + School + Phase 2). The impact has been assessed in accordance with the descriptors included in Appendix 9.2.

Table 9.40 – Adjusted PM_{2.5} Concentrations at Existing Sensitive Receptors for Scenarios 1i and 3a (2030 Opening/Future Year)

Calculated Annual Mean PM ₁₀ Concentrations (µg/m ³)					
Receptor	Scenario 1i - Without Development	Scenario 3a - With Development		Concentration Change as Percentage of AQAL	Impact ^a
		Concentration	Percentage in Relation to AQAL		
ESR 1	7.91	7.92	<75%	<0.5%	Negligible
ESR 2	7.96	7.97	<75%	<0.5%	Negligible
ESR 3	8.65	8.73	<75%	<0.5%	Negligible
ESR 4	8.85	9.20	<75%	1%	Negligible
ESR 5	8.93	9.01	<75%	<0.5%	Negligible
ESR 6	8.69	8.76	<75%	<0.5%	Negligible
ESR 7	8.64	8.68	<75%	<0.5%	Negligible
ESR 8	8.48	8.50	<75%	<0.5%	Negligible
ESR 9	8.18	8.19	<75%	<0.5%	Negligible
ESR 10	8.10	8.15	<75%	<0.5%	Negligible
ESR 11	8.25	8.28	<75%	<0.5%	Negligible

Calculated Annual Mean PM ₁₀ Concentrations (µg/m ³)					
Receptor	Scenario 1i - Without Development	Scenario 3a - With Development		Concentration Change as Percentage of AQAL	Impact ^a
		Concentration	Percentage in Relation to AQAL		
ESR 12	8.89	8.98	<75%	<0.5%	Negligible
ESR 13	8.47	8.48	<75%	<0.5%	Negligible
ESR 14	9.11	9.14	<75%	<0.5%	Negligible
ESR 15	8.34	8.35	<75%	<0.5%	Negligible
ESR 16	8.34	8.35	<75%	<0.5%	Negligible
ESR 17	8.36	8.36	<75%	<0.5%	Negligible
ESR 18	9.06	9.11	<75%	<0.5%	Negligible
ESR 19	8.87	8.93	<75%	<0.5%	Negligible
ESR 20	7.88	7.91	<75%	<0.5%	Negligible
ESR 21	7.87	7.94	<75%	<0.5%	Negligible
ESR 22	7.96	8.04	<75%	<0.5%	Negligible
ESR 23	7.96	8.03	<75%	<0.5%	Negligible
^a Assessed using the Impact Descriptors from the EPUK/IAQM guidance, included in Appendix C. Changes of less than 0.5% should be described as negligible					

Scenarios 1i and 3b

Table 9.41 compares the predicted PM_{2.5} concentrations for the 2030 Opening/Future Year without Proposed Development scenario and the 2030 Opening/Future with Proposed Development (Baseline Year traffic data + Phase 1 + School + Phase 2 + committed developments). The impact has been assessed in accordance with the descriptors included in Appendix 9.2.

Table 9.41 – Adjusted PM_{2.5} Concentrations at Existing Sensitive Receptors for Scenarios 1i and 3b (2030 Opening/Future Year)

Calculated Annual Mean PM _{2.5} Concentrations (µg/m ³)					
Receptor	Scenario 1i - Without Development	Scenario 3b - With Development		Concentration Change as Percentage of AQAL	Impact ^a
		Concentration	Percentage in Relation to AQAL		
ESR 1	7.91	7.94	<75%	<0.5%	Negligible
ESR 2	7.96	7.99	<75%	<0.5%	Negligible

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Calculated Annual Mean PM _{2.5} Concentrations (µg/m ³)					
Receptor	Scenario 1i - Without Development	Scenario 3b - With Development		Concentration Change as Percentage of AQAL	Impact ^a
		Concentration	Percentage in Relation to AQAL		
ESR 3	8.65	8.84	<75%	<0.5%	Negligible
ESR 4	8.85	9.34	<75%	1%	Negligible
ESR 5	8.93	9.10	<75%	<0.5%	Negligible
ESR 6	8.69	8.85	<75%	<0.5%	Negligible
ESR 7	8.64	8.72	<75%	<0.5%	Negligible
ESR 8	8.48	8.52	<75%	<0.5%	Negligible
ESR 9	8.18	8.20	<75%	<0.5%	Negligible
ESR 10	8.10	8.17	<75%	<0.5%	Negligible
ESR 11	8.25	8.31	<75%	<0.5%	Negligible
ESR 12	8.89	9.10	<75%	1%	Negligible
ESR 13	8.47	8.50	<75%	<0.5%	Negligible
ESR 14	9.11	9.16	<75%	<0.5%	Negligible
ESR 15	8.34	8.35	<75%	<0.5%	Negligible
ESR 16	8.34	8.35	<75%	<0.5%	Negligible
ESR 17	8.36	8.36	<75%	<0.5%	Negligible
ESR 18	9.06	9.12	<75%	<0.5%	Negligible
ESR 19	8.87	8.94	<75%	<0.5%	Negligible
ESR 20	7.88	7.91	<75%	<0.5%	Negligible
ESR 21	7.87	7.95	<75%	<0.5%	Negligible
ESR 22	7.96	8.05	<75%	<0.5%	Negligible
ESR 23	7.96	8.04	<75%	<0.5%	Negligible
^a Assessed using the Impact Descriptors from the EPUK/IAQM guidance, included in Appendix C. Changes of less than 0.5% should be described as negligible					

Proposed Sensitive Receptors

Air pollutant concentrations have also been modelled at five proposed sensitive receptor locations, for the 2030 Opening/Future Year with Proposed Development scenarios; Table 9.42 details the predicted NO₂, PM₁₀ and PM_{2.5} at the PSRs considered in scenarios 1 a-b, 2 a-b and 3 a-b.

Table 9.42 – Predicted NO₂ (Adjusted), PM₁₀ and PM_{2.5} (Unadjusted) Concentrations at Proposed Sensitive Receptor Locations for With Development 2030 Opening/Future Year Scenarios

Proposed Receptor Location	Calculated Annual Mean Concentrations (µg/m ³)		
	NO ₂ *	PM ₁₀	PM _{2.5}
Scenario 1a			
PSR 1	15.73	12.23	8.09
PSR 2	14.53	11.89	7.90
Scenario 1b			
PSR 1	15.79	12.24	8.10
PSR 2	14.56	11.89	7.91
Scenario 2a			
PSR 1	15.92	12.27	8.12
PSR 2	14.69	11.93	7.93
PSR 3	14.12	11.76	7.84
Scenario 2b			
PSR 1	15.98	12.29	8.13
PSR 2	14.71	11.94	7.93
PSR 3	14.15	11.77	7.84
Scenario 3a			
PSR 1	16.30	12.37	8.18
PSR 2	14.96	12.01	7.98
PSR 3	14.18	11.78	7.85
PSR 4	14.51	11.86	7.89
PSR 5	14.57	11.89	7.91
Scenario 3b			
PSR 1	16.36	12.39	8.18
PSR 2	14.99	12.02	7.98
PSR 3	14.20	11.78	7.85
PSR 4	14.52	11.86	7.89
PSR 5	14.59	11.90	7.91
*NO ₂ concentrations obtained by inputting predicted NO _x concentrations into the NO _x to NO ₂ calculator in accordance with LAQM.TG(16)			