

A1 in Northumberland: Morpeth to Ellingham

Scheme Number: TR010041

6.8 Environmental Statement – Appendix 5.5 Operational Impacts – Human Receptors

Part B

APFP Regulation 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed
Forms and Procedure) Regulations 2009

June 2020

Infrastructure Planning

Planning Act 2008

**The Infrastructure Planning
(Applications: Prescribed Forms and
Procedure) Regulations 2009**

The A1 in Northumberland: Morpeth to Ellingham
Development Consent Order 20[xx]

Environmental Statement - Appendix

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OPERATIONAL IMPACTS – HUMAN RECEPTORS

Table 5-1 - Annual Mean NO₂ Concentrations (µg/m³)

Receptor ID	Verification Factor Group*	Base 2015	Do-Minimum 2023	Do-Something 2023	Change with Do-Something	Do-Something Cumulative 2023	Change with Do-Something Cumulative
R_05	3	7.6	5.9	6	0.1	6.1	0.2
R_06	3	9.8	7.8	6.4	-1.4	6.5	-1.3
R_07	3	5.8	4.3	4.3	0	4.4	0.1
R_08	3	5.7	4.3	4.3	0	4.3	0
R_09	3	8.5	6.6	6.4	-0.2	6.2	-0.4
R_10	3	6.6	5	4.8	-0.2	4.8	-0.2
R_11	3	5.9	4.5	4.5	0	4.5	0
R_12	3	6.8	5.2	5.3	0.1	5.4	0.2
R_13	3	12.2	9.6	9.8	0.2	10.1	0.5
R_14	3	7.3	5.6	5.6	0	5.9	0.3

* verification factor as applied to road NO_x

Table 5-2 - Annual Mean PM₁₀ / PM_{2.5} Concentrations

Receptor ID	Verification Factor Group *	Base 2015	Do-Minimum 2023	Do-Something 2023	Change with Do-Something	Do-Something Cumulative 2023	Change with Do-Something Cumulative
R_05	3	9.5	9.1	9.1	0	9.2	0.1
R_06	3	10.5	10.1	9.8	-0.3	9.9	-0.2
R_07	3	8.4	8	8	0	8	0
R_08	3	9.9	9.6	9.6	0	9.6	0
R_09	3	10.4	10	9.9	-0.1	9.9	-0.1
R_10	3	10	9.7	9.6	-0.1	9.6	-0.1
R_11	3	10.2	9.8	9.8	0	9.8	0
R_12	3	9.8	9.5	9.5	0	9.5	0
R_13	3	10.5	10	10	0	10.1	0.1
R_14	3	10.2	9.8	9.8	0	9.8	0

Table 5-3 - 24-hour Mean PM₁₀ Concentrations (days >50 µg/m³)

Receptor ID	Verification Factor Group*	Do-Minimum 2023	Do-Something 2023	Change with Do-Something	Cumulative 2023	Change with Do-Something Cumulative
R_05	3	< 1	< 1	-	< 1	-
R_06	3	< 1	< 1	-	< 1	-
R_07	3	< 1	< 1	-	< 1	-
R_08	3	< 1	< 1	-	< 1	-
R_09	3	< 1	< 1	-	< 1	-
R_10	3	< 1	< 1	-	< 1	-
R_11	3	< 1	< 1	-	< 1	-
R_12	3	< 1	< 1	-	< 1	-
R_13	3	< 1	< 1	-	< 1	-
R_14	3	< 1	< 1	-	< 1	-

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