

A9 Dualling: Luncarty to Pass of Birnam

DMRB Stage 3 Environmental Statement

Appendix A14.3: Local Air Quality - Specific Receptor Modelled Results – NO₂ and PM₁₀

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Table 1: Specific Receptor Modelled Results NO₂ and PM₁₀

Receptor ID	Grid Reference		Background Concentration 2012		Modelled Total Concentrations Base 2012		Background Concentrations 2019		Modelled Total Concentrations LAQM TG(09) Do Minimum (DM) 2019		Modelled Total Concentrations LAQM TG (09) Do Something (DS) 2019		Modelled Total NO ₂ Concentrations with Long Term Trends (2019)	
			(µg/m ³)		(µg/m ³)		(µg/m ³)		(µg/m ³)		(µg/m ³)		(µg/m ³)	
	X	Y	NO ₂	PM ₁₀	NO ₂	PM ₁₀	NO ₂	PM ₁₀	NO ₂	PM ₁₀	NO ₂	PM ₁₀	DM	DS
R1	302745	742007	3.7	9.1	15.8	11.0	2.9	8.8	8.8	10.5	8.9	10.5	15.0	15.2
R2	303080	741739	3.4	9.1	19.5	11.6	2.7	8.7	10.9	11.1	10.9	11.1	18.5	18.5
R3	303622	741447	3.4	9.1	16.1	11.0	2.7	8.7	9.0	10.5	9.1	10.5	15.3	15.5
R4	303820	741284	3.4	9.1	15.9	11.0	2.7	8.7	8.8	10.5	8.8	10.5	15.1	15.1
R5	303921	741285	3.4	9.1	12.0	10.4	2.7	8.7	6.8	9.9	6.8	9.9	11.4	11.4
R6	304504	740208	3.2	9.4	8.4	10.2	2.5	9.1	4.9	9.7	5.0	9.7	8.0	8.2
R7	306528	738834	3.5	9.4	8.5	10.1	2.8	9.0	5.2	9.6	5.2	9.6	8.1	8.1
R8	306633	739024	3.3	9.5	14.7	11.2	2.6	9.2	8.3	10.6	8.4	10.6	14.0	14.1
R9	307125	735076	3.5	11.0	11.5	12.3	2.7	10.7	6.6	11.8	6.9	11.7	10.9	11.4
R10	307151	734886	3.6	11.5	13.8	13.2	2.8	11.1	8.0	12.6	8.5	12.6	13.1	13.9
R11	307170	735549	3.5	11.0	16.4	13.0	2.7	10.7	9.0	12.5	10.7	12.7	15.6	18.5
R12	307247	734547	3.6	11.5	14.6	13.3	2.8	11.1	8.2	12.7	8.2	12.5	13.9	13.9
R13	307270	736511	3.3	9.6	7.5	10.2	2.6	9.2	4.5	9.7	4.8	9.7	7.1	7.6
R14	307412	734194	3.6	11.5	14.5	13.3	2.8	11.1	8.2	12.7	8.3	12.6	13.8	14.0
R15	307610	735311	3.5	11.0	7.6	11.7	2.7	10.7	4.7	11.2	4.9	11.2	7.2	7.5
R16	308062	733252	3.5	10.8	11.9	12.1	2.8	10.4	6.7	11.6	7.6	11.7	11.3	12.8
R17	308072	732989	3.6	11.5	13.3	13.0	2.8	11.1	7.7	12.5	8.5	12.5	12.6	14.0
R18	308512	732183	3.6	11.5	13.2	12.9	2.8	11.1	7.6	12.5	8.6	12.5	12.6	14.2
R19 (DM Only)	308711	731931	3.7	11.3	21.5	14.2	2.9	11.0	12.2	13.7	DM Only	DM Only	20.4	DM Only

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Receptor ID	Grid Reference		Background Concentration 2012		Modelled Total Concentrations Base 2012		Background Concentrations 2019		Modelled Total Concentrations LAQM TG(09) Do Minimum (DM) 2019		Modelled Total Concentrations LAQM TG (09) Do Something (DS) 2019		Modelled Total NO ₂ Concentrations with Long Term Trends (2019)	
			(µg/m ³)		(µg/m ³)		(µg/m ³)		(µg/m ³)		(µg/m ³)		(µg/m ³)	
	X	Y	NO ₂	PM ₁₀	NO ₂	PM ₁₀	NO ₂	PM ₁₀	NO ₂	PM ₁₀	NO ₂	PM ₁₀	DM	DS
R20	308818	732520	3.6	11.5	8.2	12.2	2.8	11.1	5.0	11.7	5.0	11.6	7.8	7.8
R21	309180	731191	3.9	12.1	10.9	13.2	3.1	11.8	6.4	12.7	6.7	12.6	10.4	10.9
R22	309252	729309	4.9	12.4	14.1	13.9	3.9	11.9	8.9	13.3	9.2	13.3	13.4	13.9
R23	309256	728645	4.7	12.2	12.4	13.4	3.7	11.8	7.9	12.9	7.9	12.8	11.8	11.8
R24	309408	729463	4.9	12.4	22.5	15.3	3.9	11.9	14.0	14.5	14.1	14.5	21.4	21.6
R25	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC

DM Only: Ladner Cottage is part of an agreed buyout and will not exist in the future scenarios, therefore it has only been included in the DM scenario.