Environmental Impact Assessment Report

Beinneun 2 Wind Farm

Volume 3

Technical Appendix A9.1: Traffic Noise Calculations

Document prepared by Envams Ltd for Beinneun 2 Wind Farm Ltd

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A9.2 TRAFFIC NOISE CALCULATIONS

A9.2.1 CHANGE IN ROAD TRAFFIC NOISE LEVELS (CRTN METHOD)

Location	Projected Annual Average Baseline Daily Traffic	Low Flows	% HGV	Average Speed, km/h	Noise Level, corrected for 4m distance, facades and low flows, dB
1 A887(T)	911	LOW	28.8	81	N/A
2 A82(T) Spean Bridge	5,054	-	20.1	81	70.3
3 A82(T) Drumnadrochit	4,007	-	21.5	81	69.5
4 A87(T) Bunloyne	1,809	CORRECTION	19.4	81	64.6
5 A87(T) Auchtertyre	4,571	-	18.5	81	69.7
6 A87(T) Skye Bridge	5,491	-	17.7	81	70.4

Additional Traffic Due to Development				
Location	All Vehicles	HGV only	Increase in Noise Level Relative to Baseline, dB	Magnitude of Impact
1 A887(T)	389	329	N/A	N/A
2 A82(T) Spean Bridge	389	329	0.9	Negligible
3 A82(T) Drumnadrochit	389	329	1.0	Minor
4 A87(T) Bunloyne	389	329	2.6	Minor
5 A87(T) Auchtertyre	78	66	0.2	Negligible
6 A87(T) Skye Bridge	78	66	0.2	Negligible

A9.2.2 PREDICTED ROAD TRAFFIC NOISE LEVELS (BS5228 METHOD)

Location	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	Sound Power Level, dB, L_{WA}	Predicted Noise Level, dB, L_{Aeq}
A887(T)	4	2	81	105.5	50.4