

Fanellan Hub 400 kV Substation and Converter Station

Environmental Impact Assessment Report

Volume 4 | Technical Appendices

Appendix 14.14 – Fanellan Hub Worst Case Construction Activities and Associated Noise Levels for DC Earthworks

February 2025



TECHNICAL APPENDIX 14: NOISE IMPACT ASSESSMENT

14.14 Fanellan Hub Worst Case Construction Activities and Associated Noise Levels for DC Earthworks

Activity	Plant Item	Quantity	Utilisation %	Sound Power, LW (dB(A))	Sound Power corrected for quantity and utilisation, LW (dB(A))	L _{Aeq} at 10 m (dB)
DC Earthworks	C2.24 Tracked Excavator	1	90%	101	101	73
	C6.26 Articulated Dump Truck	9	90%	107	116	88
	C1.13 Tracked Excavator	2	90%	114	117	89
	C5.27 Vibratory Roller	1	60%	95	92	64
	C5.28 Vibratory Roller	2	70%	104	106	78
	C2.34 Lorry	5	50%	108	112	84
	C4.55 Telescopic Handler	1	30%	99	93	65
	C6.38 Tractor (Towing Water Bowser)	3	40%	111	112	84
	C5.15 Bulldozer	2	80%	111	113	85
	C4.86 Diesel Generator	4	50%	93	97	69
	Diesel Generator For Lights	16	30%	75	82	54
	C6.31 Grader	2	60%	75	76	48
	C9.15 Tracked Semi-Mobile Crusher	2	60%	124	125	97
Total					127	99