

# **Fanellan Hub 400 kV Substation and Converter Station**

## **Environmental Impact Assessment Report**

### **Volume 4 | Technical Appendices**

#### **Appendix 14.13 – Fanellan Hub Worst Case Construction Activities and Associated Noise Levels for AC Earthworks**

**February 2025**



## TECHNICAL APPENDIX 14: NOISE IMPACT ASSESSMENT

### 14.13 Fanellan Hub Worst Case Construction Activities and Associated Noise Levels for AC Earthworks

Activity	Plant Item	Quantity	Utilisation %	Sound Power, LW (dB(A))	Sound Power corrected for quantity and utilisation, LW (dB(A))	L <sub>Aeq</sub> at 10 m (dB)
AC Earthworks	C2.24 Tracked Excavator	1	90%	101	101	73
	C6.26 Articulated Dump Truck	12	90%	107	118	90
	C1.13 Tracked Excavator	4	90%	114	120	92
	C5.27 Vibratory Roller	1	70%	95	93	65
	C5.28 Vibratory Roller	3	70%	104	108	80
	C2.34 Lorry	6	50%	108	113	85
	C4.55 Telescopic Handler	3	70%	99	102	74
	C6.38 Tractor (Towing Water Bowser)	3	60%	111	114	86
	C5.15 Bulldozer	4	80%	111	116	88
	C4.86 Diesel Generator	4	70%	93	98	70
	Diesel Generator For Lights	16	30%	75	82	54
	C6.31 Grader	2	70%	75	76	48
	C9.15 Tracked Semi-Mobile Crusher	2	80%	124	126	98
<b>Total</b>					128	100