

SSEN Transmission
Bingally 400 / 132 kV Substation
Environmental Appraisal
Volume 3
Appendix N

February 2025



APPENDIX N COMPARISON OF PREDICTED CONSTRUCTION TRAFFIC LEVELS ON LINK 1 IN ALL MONTHS

1.1 Predicted Effect of Development Construction Traffic Noise on Link 1

1.1.1 The following table presents the predicted 16-hour equivalent noise level for a typical weekday in each month during construction for the “Future Baseline” and “Future Baseline + Development Traffic” scenarios.

1.1.2 These have been calculated using the methods outlined in **Volume 1, Chapter 13 Noise and Vibration**. The predicted level change is also given and the resulting Initial Magnitude of Impact and Potential Significance of Effect in each month for a high sensitivity (residential) receptor.

1.1.3 The results in this the table should be read in the conjunction with **Volume 1, Chapter 13 Noise and Vibration**.

Table 1 The predicted initial Magnitude of Impact and potential Significance of Effect in each month of the construction due to development traffic using Link 1

Month #	Future Baseline Predicted Road Traffic Noise Level ($L_{Aeq,16hr}$)	Future Baseline + Development Construction Traffic Predicted Road Traffic Noise Level ($L_{Aeq,16hr}$)	Predicted Road Traffic Noise Level Change	Initial Magnitude of Impact / Potential Significance of Effect
Month 1	53.8	54.9	1.1	Low/Minor
Month 2	53.8	54.8	1.0	Low/Minor
Month 3	53.8	55.0	1.2	Low/Minor
Month 4	53.8	55.1	1.3	Low/Minor
Month 5	53.8	54.8	1.0	Low/Minor
Month 6	53.8	55.1	1.3	Low/Minor
Month 7	53.8	55.0	1.2	Low/Minor
Month 8	53.8	55.5	1.7	Low/Minor
Month 9	53.8	55.4	1.6	Low/Minor
Month 10	53.8	55.4	1.6	Low/Minor
Month 11	53.8	55.7	1.9	Low/Minor
Month 12	53.8	55.6	1.8	Low/Minor
Month 13	53.8	55.6	1.8	Low/Minor
Month 14	53.8	56.0	2.2	Low/Minor
Month 15	53.8	56.8	3.1	Medium/Moderate
Month 16	53.8	57.0	3.2	Medium/Moderate
Month 17	53.8	57.5	3.7	Medium/Moderate
Month 18	53.8	58.1	4.3	Medium/Moderate
Month 19	53.8	58.3	4.5	Medium/Moderate
Month 20	53.8	58.5	4.7	Medium/Moderate
Month 21	53.8	58.9	5.1	High/Major
Month 22	53.8	58.8	5.0	High/Major
Month 23	53.8	58.8	5.0	High/Major
Month 24	53.8	58.7	4.9	Medium/Moderate
Month 25	53.8	59.8	6.0	High/Major
Month 26	53.8	59.7	5.9	High/Major
Month 27	53.8	59.5	5.8	High/Major
Month 28	53.8	59.3	5.5	High/Major
Month 29	53.8	59.2	5.4	High/Major
Month 30	53.8	58.5	4.7	Medium/Moderate
Month 31	53.8	58.0	4.3	Medium/Moderate
Month 32	53.8	57.8	4.0	Medium/Moderate
Month 33	53.8	57.9	4.1	Medium/Moderate

TRANSMISSION

Month #	Future Baseline Predicted Road Traffic Noise Level ($L_{Aeq,16hr}$)	Future Baseline + Development Construction Traffic Predicted Road Traffic Noise Level ($L_{Aeq,16hr}$)	Predicted Road Traffic Noise Level Change	Initial Magnitude of Impact / Potential Significance of Effect
Month 34	53.8	57.5	3.7	Medium/Moderate
Month 35	53.8	57.5	3.7	Medium/Moderate
Month 36	53.8	57.5	3.7	Medium/Moderate
Month 37	53.8	57.5	3.7	Medium/Moderate
Month 38	53.8	57.6	3.9	Medium/Moderate
Month 39	53.8	57.6	3.9	Medium/Moderate
Month 40	53.8	57.7	3.9	Medium/Moderate
Month 41	53.8	57.6	3.8	Medium/Moderate
Month 42	53.8	55.1	1.4	Low/Minor
Month 43	53.8	55.0	1.3	Low/Minor
Month 44	53.8	55.0	1.2	Low/Minor
Month 45	53.8	55.0	1.2	Low/Minor
Month 46	53.8	54.9	1.1	Low/Minor
Month 47	53.8	54.9	1.1	Low/Minor