

Oweninny Wind Farm Phase 3

Environmental Impact Assessment Report

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**Appendix 13.7 Predicted Noise Levels (Directional)**



## Appendix 13.7 – Predicted Noise Levels (Directional)

Table A13-7.1 Predicted Noise Levels at maximum Turbine Noise Emission Level

Table A13-7.1 Directional Cumulative Predicted Noise Levels at Maximum Turbine Noise Emission Level

NSL	L <sub>A90, 10-min</sub> Levels (dB) at Maximum Turbine Noise Emission Level at Various Wind Direction Sectors (9 m/s 10m Height Standardised Wind Speed)							
	N	NE	E	SE	S	SW	W	NW
R01	33.5	30.2	29.3	31.1	34.0	35.6	35.7	35.3
R02	32.8	29.4	28.5	30.4	33.4	35.0	35.0	34.7
R03	32.6	29.2	28.3	30.1	33.2	34.8	34.8	34.5
R04	29.7	26.3	25.2	27.4	30.6	31.9	31.9	31.6
R05	30.4	27.1	26.0	27.8	31.1	32.7	32.7	32.5
R06	30.3	27.0	25.9	27.7	30.9	32.6	32.6	32.4
R07	33.5	30.3	29.2	31.0	33.9	35.5	35.7	35.4
R08	31.4	27.9	27.0	28.8	31.9	33.6	33.6	33.3
R09	31.4	27.9	26.5	27.8	31.1	33.1	33.2	33.1
R10	35.4	33.2	30.0	29.2	31.8	34.6	35.7	35.7
R11	33.5	31.4	28.1	26.9	28.6	32.0	33.7	33.7
R12	32.9	30.9	27.5	26.2	27.8	31.2	33.0	33.0
R13	33.0	31.1	27.7	26.3	27.8	31.2	33.1	33.1
R14	33.5	31.6	28.1	26.8	28.2	31.6	33.5	33.5
R15	34.0	32.8	29.3	27.4	28.4	31.4	33.8	34.0
R16	34.0	32.9	29.7	27.6	28.2	31.2	33.7	34.1
R17	33.6	32.5	29.2	27.1	27.7	30.6	33.2	33.6
R18	33.6	32.4	29.1	27.1	27.8	30.9	33.4	33.6
R19	31.3	29.7	26.1	24.5	25.8	29.0	31.2	31.3
R20	31.1	29.5	25.9	24.3	25.7	28.9	31.1	31.1
R21	30.4	28.6	25.1	23.6	25.1	28.4	30.4	30.5
R22	30.0	28.0	24.6	23.1	24.7	28.1	30.0	30.0
R23	30.1	28.1	24.8	23.3	24.9	28.3	30.2	30.2
R24	30.2	28.0	24.8	23.3	25.0	28.5	30.2	30.2
R25	30.7	29.2	25.7	24.0	25.2	28.3	30.7	30.7
R26	30.4	29.1	25.4	23.7	24.7	27.7	30.3	30.4
R27	30.9	30.1	26.6	24.5	25.0	27.7	30.6	30.9
R28	30.9	30.0	26.5	24.5	25.0	27.7	30.6	30.9
R29	30.8	30.0	26.4	24.4	24.9	27.6	30.5	30.8
R30	30.7	29.8	26.2	24.3	24.8	27.6	30.4	30.8
R31	30.6	29.6	26.0	24.1	24.7	27.4	30.3	30.6
R32	30.2	29.1	25.4	23.6	24.4	27.3	30.0	30.2
R33	29.9	28.7	25.1	23.3	24.2	27.2	29.8	30.0
R34	27.9	27.0	23.2	21.4	22.0	25.0	27.7	27.9
R35	30.5	29.8	26.5	24.2	24.4	27.0	30.0	30.5
R36	30.9	30.2	27.4	24.8	24.6	27.3	30.1	30.9
R37	30.7	30.0	27.2	24.6	24.4	27.1	29.9	30.7
R38	28.3	27.8	25.4	22.4	21.9	24.6	27.5	28.3
R39	28.0	27.4	24.5	21.9	21.7	24.3	27.2	28.0
R40	27.5	26.9	24.0	21.4	21.2	23.7	26.7	27.5

R41	30.5	29.8	27.0	24.4	24.1	26.7	29.6	30.5
R42	30.6	30.0	27.2	24.6	24.2	26.7	29.7	30.6
R43	30.8	30.2	27.4	24.8	24.4	27.0	29.9	30.8
R44	30.8	30.2	27.5	24.8	24.5	27.0	29.9	30.8
R45	31.1	30.5	27.9	25.1	24.8	27.2	30.1	31.1
R46	31.1	30.6	28.0	25.2	24.8	27.2	30.1	31.1
R47	31.2	30.6	28.0	25.2	24.8	27.2	30.1	31.2
R48	31.2	30.6	28.1	25.3	24.9	27.3	30.2	31.2
R49	31.5	30.9	28.5	25.6	25.2	27.5	30.4	31.5
R50	31.5	31.0	28.6	25.6	25.2	27.6	30.4	31.5
R51	31.4	30.9	28.6	25.5	25.1	27.4	30.3	31.4
R52	31.5	31.1	28.9	25.7	25.2	27.3	30.2	31.5
R53	26.9	26.4	23.4	20.8	20.5	23.0	26.1	26.9
R54	26.8	26.2	23.3	20.7	20.4	22.8	26.0	26.8
R55	26.8	26.3	23.3	20.7	20.4	22.8	26.0	26.8
R56	26.8	26.2	23.3	20.7	20.4	22.8	25.9	26.8
R57	27.0	26.5	23.6	21.0	20.6	23.2	26.2	27.0
R58	26.9	26.3	23.4	20.8	20.6	23.0	26.2	26.9
R59	27.0	26.5	23.9	21.0	20.6	22.8	25.9	27.0
R60	30.8	30.4	28.3	25.4	24.5	26.5	29.4	30.7
R61	30.0	29.6	27.7	24.6	23.5	25.6	28.4	29.9
R62	29.7	29.3	27.4	24.3	23.2	25.3	28.1	29.6
R63	30.6	30.2	28.5	25.3	24.2	26.1	28.8	30.5
R64	30.8	30.4	28.8	25.5	24.5	26.4	29.1	30.7
R65	34.9	34.3	33.0	30.0	28.8	30.7	32.9	34.6
R66	37.2	36.3	34.8	32.3	31.6	33.6	35.8	36.8
R67	38.1	37.5	35.2	33.0	32.1	34.0	37.0	37.7
R68	38.2	37.6	35.3	33.1	32.2	34.1	37.0	37.8
R69	38.4	37.9	35.6	33.3	32.4	34.4	37.3	38.1
R70	39.2	38.7	36.4	34.1	33.2	35.2	38.1	38.9
R71	39.9	38.4	36.8	34.9	34.6	37.3	38.9	39.5
R72	41.0	39.6	38.9	37.4	37.0	39.0	39.7	40.6
R73	41.5	40.7	40.1	39.1	38.2	39.4	40.1	41.0
R74	41.2	41.2	41.2	41.6	41.8	41.5	41.5	41.2
R75	41.2	41.1	41.2	41.5	41.6	41.4	41.2	41.0
R76	41.1	41.1	41.2	41.5	41.5	41.4	41.2	40.9
R77	38.1	37.5	35.3	33.0	32.1	34.0	37.0	37.8
R78	30.1	28.9	25.3	23.4	24.3	27.2	29.9	30.1
R79	30.7	29.4	25.9	24.0	25.0	28.0	30.6	30.7
R80	34.0	33.3	30.0	27.8	28.0	30.6	33.6	34.1