

Table 11.4.1 Omni-direction Noise Predictions Derrinlough Turbines Only

Location	dB LA90,10min at Various Standardised Wind Speeds (m/s)				
	3	4	5	6	≥7
R001	22.5	26.2	31.2	34.4	34.7
R002	19.9	23.6	28.6	31.8	32.1
R003	24.8	28.5	33.6	36.7	37.0
R004	18.7	22.4	27.4	30.6	30.9
R005	18.3	22.0	27.0	30.2	30.5
R006	17.7	21.4	26.5	29.6	29.9
R007	21.2	24.9	30.0	33.1	33.4
R008	21.1	24.8	29.9	33.0	33.3
R009	18.7	22.4	27.4	30.6	30.9
R010	18.2	21.9	26.9	30.1	30.4
R011	18.9	22.6	27.6	30.8	31.1
R012	17.8	21.5	26.6	29.7	30.0
R013	18.8	22.5	27.5	30.7	31.0
R014	19.6	23.3	28.3	31.5	31.8
R015	19.9	23.6	28.7	31.8	32.1
R016	18.2	21.9	27.0	30.1	30.4
R017	19.4	23.1	28.1	31.3	31.6
R018	19.8	23.5	28.5	31.7	32.0
R019	17.3	21.0	26.0	29.2	29.5
R020	20.8	24.5	29.5	32.7	33.0
R021	21.0	24.7	29.7	32.9	33.2
R022	21.1	24.8	29.8	33.0	33.3
R023	20.5	24.2	29.3	32.4	32.8
R024	20.0	23.7	28.7	31.9	32.2
R025	18.7	22.4	27.5	30.6	30.9
R026	18.0	21.7	26.7	29.9	30.2
R027	17.8	21.5	26.6	29.7	30.0
R028	18.0	21.7	26.7	29.9	30.2
R029	16.5	20.2	25.2	28.4	28.7
R030	16.3	20.0	25.1	28.2	28.6
R031	17.9	21.6	26.6	29.8	30.1
R032	23.9	27.6	32.7	35.8	36.1
R033	19.3	23.0	28.0	31.2	31.5
R034	20.5	24.2	29.3	32.4	32.7
R035	21.2	24.9	29.9	33.1	33.4
R036	20.5	24.2	29.2	32.4	32.7
R037	19.8	23.5	28.6	31.7	32.0
R038	18.8	22.5	27.5	30.7	31.0
R039	18.9	22.6	27.6	30.8	31.1
R040	17.7	21.4	26.4	29.6	29.9
R041	17.7	21.4	26.5	29.6	29.9
R042	24.1	27.8	32.8	35.9	36.2
R043	21.4	25.1	30.1	33.3	33.6
R044	20.8	24.5	29.5	32.7	33.0

Location	dB L _{A90,10min} at Various Standardised Wind Speeds (m/s)				
	3	4	5	6	≥7
R045	19.1	22.8	27.9	31.0	31.3
R046	24.0	27.7	32.7	35.9	36.2
R047	20.5	24.2	29.2	32.4	32.7
R048	23.2	26.9	32.0	35.1	35.4
R049	23.2	26.9	31.9	35.1	35.4
R050	23.6	27.3	32.3	35.4	35.7
R051	25.9	29.6	34.6	37.8	38.1
R052	18.0	21.7	26.8	29.9	30.2
R053	19.8	23.5	28.5	31.7	32.0
R054	19.8	23.5	28.5	31.7	32.0
R055	16.4	20.1	25.1	28.3	28.6
R056	16.8	20.5	25.6	28.7	29.0
R057	19.6	23.3	28.3	31.5	31.8
R058	22.3	26.0	31.0	34.2	34.5
R059	24.7	28.3	33.4	36.5	36.8
R060	22.5	26.2	31.2	34.4	34.7
R061	20.5	24.2	29.3	32.4	32.7
R062	20.7	24.4	29.5	32.6	32.9
R063	19.7	23.4	28.5	31.6	31.9
R064	24.2	27.9	32.9	36.1	36.4
R065	19.6	23.3	28.4	31.5	31.8
R066	19.7	23.4	28.4	31.6	31.9
R067	20.9	24.6	29.6	32.8	33.1
R068	20.0	23.7	28.8	31.9	32.2
R069	22.9	26.6	31.7	34.8	35.1
R070	25.3	29.0	34.1	37.2	37.5
R071	25.2	28.9	33.9	37.1	37.4
R072	19.9	23.6	28.7	31.8	32.1
R073	19.2	22.9	28.0	31.1	31.5
R074	19.1	22.8	27.8	31.0	31.3
R075	19.3	23.0	28.1	31.2	31.5
R076	18.7	22.4	27.5	30.6	31.0
R077	23.3	27.0	32.0	35.2	35.5
R078	23.6	27.3	32.4	35.5	35.8
R079	25.2	28.9	33.9	37.0	37.4
R080	17.3	21.0	26.0	29.2	29.5
R081	17.7	21.4	26.5	29.6	29.9
R082	17.5	21.2	26.3	29.4	29.8
R083	22.7	26.3	31.4	34.5	34.8
R084	24.1	27.8	32.8	36.0	36.3
R085	20.0	23.7	28.7	31.9	32.2
R086	20.7	24.4	29.4	32.6	32.9
R087	16.7	20.4	25.4	28.6	28.9
R088	22.0	25.7	30.7	33.9	34.2
R089	21.9	25.6	30.7	33.8	34.1
R090	23.4	27.1	32.2	35.3	35.6

Location	dB L _{A90,10min} at Various Standardised Wind Speeds (m/s)				
	3	4	5	6	≥7
R091	22.1	25.8	30.9	34.0	34.3
R092	19.0	22.7	27.7	30.9	31.2
R093	19.3	23.0	28.1	31.2	31.5
R094	17.7	21.4	26.5	29.6	29.9
R095	19.2	22.9	27.9	31.1	31.4
R096	24.8	28.5	33.5	36.7	37.0
R097	24.8	28.4	33.5	36.6	36.9
R098	25.4	29.1	34.1	37.2	37.5
R099	19.1	22.8	27.8	31.0	31.3
R100	23.6	27.3	32.3	35.5	35.8
R101	25.8	29.5	34.5	37.6	37.9
R102	23.3	27.0	32.0	35.2	35.5
R103	18.6	22.3	27.4	30.5	30.8
R104	18.6	22.3	27.3	30.5	30.8
R105	22.6	26.3	31.4	34.5	34.8
R106	19.0	22.7	27.8	30.9	31.2
R107	26.0	29.6	34.7	37.8	38.1
R108	22.0	25.7	30.7	33.9	34.2
R109	19.0	22.7	27.7	30.9	31.2
R110	18.9	22.6	27.7	30.8	31.1
R111	19.6	23.3	28.4	31.5	31.8
R112	23.5	27.2	32.3	35.4	35.7
R113	25.8	29.5	34.5	37.6	37.9
R114	23.0	26.7	31.8	34.9	35.2
R115	21.5	25.2	30.3	33.4	33.7
R116	19.9	23.6	28.7	31.8	32.1
R117	20.5	24.2	29.2	32.4	32.7
R118	19.6	23.3	28.3	31.5	31.8
R119	20.9	24.6	29.7	32.8	33.1
R120	17.9	21.6	26.6	29.8	30.1
R121	22.2	25.9	30.9	34.1	34.4
R122	18.8	22.5	27.5	30.7	31.0
R123	20.2	23.9	29.0	32.1	32.4
R124	23.7	27.4	32.4	35.6	35.9
R125	19.9	23.6	28.6	31.8	32.1
R126	23.4	27.1	32.2	35.3	35.6
R127	22.4	26.1	31.2	34.3	34.6
R128	18.7	22.4	27.4	30.6	30.9
R129	17.2	20.9	26.0	29.1	29.4
R130	26.6	30.3	35.3	38.4	38.8
R131	24.7	28.4	33.4	36.6	36.9
R132	17.1	20.8	25.8	29.0	29.3
R133	16.9	20.6	25.6	28.8	29.1
R134	18.8	22.5	27.5	30.7	31.0
R135	17.7	21.4	26.4	29.6	29.9
R136	22.1	25.8	30.8	34.0	34.3

Location	dB L _{A90,10min} at Various Standardised Wind Speeds (m/s)				
	3	4	5	6	≥7
R137	25.1	28.8	33.8	36.9	37.2
R138	19.3	23.1	28.1	31.3	31.6
R139	18.0	21.7	26.8	29.9	30.2
R140	17.9	21.6	26.7	29.8	30.1
R141	18.0	21.7	26.7	29.9	30.2
R142	20.2	23.9	29.0	32.1	32.4
R143	20.3	24.0	29.0	32.2	32.5
R144	21.9	25.6	30.6	33.8	34.1
R145	19.6	23.3	28.4	31.5	31.8
R146	17.3	21.0	26.1	29.2	29.6
R147	17.9	21.6	26.6	29.8	30.1
R148	18.4	22.1	27.2	30.4	30.7
R149	20.7	24.4	29.4	32.6	32.9
R150	17.0	20.7	25.8	28.9	29.2
R151	20.6	24.3	29.4	32.5	32.8
R152	23.6	27.3	32.4	35.5	35.8
R153	24.2	27.9	32.9	36.1	36.4
R154	24.0	27.7	32.7	35.9	36.2
R155	20.8	24.5	29.6	32.7	33.0
R156	23.0	26.7	31.7	34.9	35.2
R157	23.6	27.3	32.3	35.5	35.8
R158	22.8	26.5	31.5	34.7	35.0
R159	20.7	24.4	29.4	32.6	32.9
R160	25.4	29.1	34.2	37.3	37.6
R161	22.5	26.2	31.2	34.4	34.7
R162	23.4	27.1	32.1	35.3	35.6
R163	19.5	23.2	28.2	31.4	31.7
R164	24.9	28.6	33.6	36.8	37.1
R165	19.5	23.2	28.2	31.4	31.7
R166	16.5	20.2	25.3	28.4	28.7
R167	24.8	28.5	33.5	36.6	37.0
R168	21.7	25.4	30.4	33.6	33.9
R169	17.7	21.5	26.5	29.7	30.0
R170	17.6	21.3	26.3	29.5	29.8
R171	17.6	21.3	26.3	29.5	29.8
R172	17.6	21.3	26.4	29.5	29.9
R173	17.6	21.3	26.4	29.5	29.8
R174	16.9	20.6	25.7	28.8	29.2
R175	20.8	24.5	29.5	32.7	33.0
R176	26.7	30.4	35.4	38.6	38.9
R177	27.4	31.1	36.1	39.3	39.6
R178	17.6	21.3	26.3	29.5	29.8
R179	18.9	22.6	27.7	30.8	31.2
R180	23.8	27.5	32.6	35.7	36.0
R181	20.6	24.3	29.3	32.5	32.8
R182	19.7	23.4	28.4	31.6	31.9

Location	dB L _{A90,10min} at Various Standardised Wind Speeds (m/s)				
	3	4	5	6	≥7
R183	20.9	24.6	29.7	32.8	33.1
R184	18.1	21.8	26.9	30.0	30.3
R185	17.9	21.6	26.7	29.9	30.2
R186	17.9	21.6	26.7	29.8	30.1
R187	17.4	21.1	26.1	29.3	29.6
R188	17.8	21.5	26.5	29.7	30.0
R189	19.4	23.1	28.1	31.3	31.6
R190	19.5	23.2	28.3	31.4	31.7
R191	20.6	24.3	29.3	32.5	32.8
R192	20.2	23.9	28.9	32.1	32.4
R193	16.6	20.3	25.4	28.5	28.9
R194	16.6	20.3	25.4	28.5	28.9
R195	16.4	20.1	25.2	28.3	28.7
R196	16.4	20.1	25.1	28.3	28.6
R197	19.6	23.3	28.4	31.5	31.8
R198	26.4	30.0	35.1	38.2	38.5

Table 11.4.2 Omni-direction Noise Predictions Cumulative (All Turbines)

Location	dB LA90,10min at Various Standardised Wind Speeds (m/s)				
	3	4	5	6	≥7
R001	23.1	26.8	31.8	34.9	35.3
R002	23.1	27.0	32.0	35.1	35.8
R003	26.8	30.6	35.6	38.7	39.3
R004	23.3	26.4	31.4	33.5	33.7
R005	20.4	23.9	28.8	31.6	32.0
R006	18.7	22.3	27.3	30.4	30.8
R007	33.8	36.5	41.7	42.8	42.9
R008	33.8	36.5	41.7	42.9	42.9
R009	22.3	25.5	30.4	32.8	33.1
R010	22.8	25.9	30.9	33.0	33.2
R011	23.7	26.7	31.7	33.8	34.0
R012	22.0	25.1	30.1	32.4	32.6
R013	23.5	26.6	31.6	33.7	33.9
R014	25.7	28.6	33.7	35.5	35.7
R015	29.6	32.3	37.5	38.9	38.9
R016	20.3	24.2	29.2	32.4	33.0
R017	22.2	26.1	31.1	34.4	35.1
R018	23.4	27.4	32.4	35.6	36.3
R019	19.7	23.6	28.5	31.8	32.4
R020	23.9	27.9	32.9	36.2	36.9
R021	25.4	29.6	34.5	37.9	38.7
R022	26.4	30.6	35.6	38.9	39.8
R023	26.9	31.1	36.1	39.4	40.3
R024	26.0	30.2	35.2	38.5	39.4
R025	21.0	24.7	29.6	32.6	33.1
R026	20.4	24.0	29.0	32.0	32.5
R027	20.1	23.7	28.6	31.5	31.9
R028	20.2	23.8	28.7	31.7	32.1
R029	17.5	21.2	26.1	29.3	29.7
R030	17.3	21.0	26.0	29.1	29.5
R031	20.2	23.8	28.7	31.7	32.1
R032	31.8	36.1	41.1	44.4	45.4
R033	22.0	25.9	30.9	34.2	34.9
R034	26.9	31.1	36.1	39.4	40.4
R035	25.2	29.3	34.3	37.6	38.4
R036	23.6	27.6	32.6	35.9	36.7
R037	22.0	25.7	30.6	33.7	34.2
R038	26.9	29.7	34.8	36.3	36.5
R039	24.2	27.2	32.2	34.2	34.4
R040	20.0	23.5	28.4	31.4	31.8
R041	20.0	23.6	28.5	31.4	31.9
R042	26.3	29.7	34.7	37.3	37.5
R043	23.6	27.5	32.5	35.7	36.4
R044	25.8	30.0	35.0	38.3	39.2

Location	dB L _{A90,10min} at Various Standardised Wind Speeds (m/s)				
	3	4	5	6	≥7
R045	21.8	25.8	30.7	34.0	34.7
R046	26.2	29.5	34.5	37.2	37.4
R047	22.3	25.9	30.9	33.9	34.3
R048	25.0	28.4	33.4	36.2	36.5
R049	24.9	28.4	33.4	36.2	36.5
R050	25.2	28.7	33.7	36.5	36.8
R051	27.2	30.9	35.9	39.0	39.5
R052	20.4	24.3	29.3	32.5	33.2
R053	22.5	26.5	31.5	34.7	35.5
R054	22.6	26.6	31.6	34.9	35.6
R055	17.3	21.0	26.0	29.1	29.6
R056	17.8	21.5	26.4	29.6	30.0
R057	21.7	25.3	30.3	33.3	33.8
R058	30.0	34.3	39.3	42.6	43.6
R059	26.6	29.9	35.0	37.7	37.9
R060	26.7	30.7	35.7	39.0	39.8
R061	26.9	31.1	36.1	39.4	40.4
R062	27.4	31.6	36.6	39.9	40.9
R063	21.9	25.5	30.5	33.5	34.0
R064	26.2	29.6	34.6	37.3	37.5
R065	22.0	25.8	30.7	33.8	34.3
R066	21.8	25.5	30.4	33.4	33.9
R067	27.1	31.3	36.3	39.6	40.6
R068	20.7	24.4	29.4	32.5	32.9
R069	24.5	28.2	33.1	36.1	36.5
R070	28.1	32.0	37.0	40.2	40.9
R071	27.4	31.3	36.3	39.4	40.0
R072	22.3	25.7	30.6	33.3	33.7
R073	21.6	25.0	29.9	32.7	33.0
R074	21.4	24.8	29.7	32.5	32.8
R075	21.5	25.0	29.9	32.7	33.0
R076	21.0	24.4	29.3	32.1	32.5
R077	24.9	28.6	33.6	36.5	37.0
R078	25.1	28.7	33.7	36.8	37.2
R079	27.3	31.1	36.1	39.2	39.8
R080	18.1	21.8	26.8	29.9	30.3
R081	18.6	22.2	27.2	30.3	30.7
R082	18.4	22.1	27.0	30.2	30.6
R083	30.8	33.6	38.8	40.2	40.3
R084	43.5	46.0	51.3	52.3	52.3
R085	27.3	30.1	35.2	36.8	37.0
R086	28.5	31.3	36.5	38.0	38.1
R087	17.6	21.3	26.2	29.4	29.8
R088	24.6	27.9	32.8	35.4	35.7
R089	34.0	36.7	41.9	43.1	43.1
R090	24.9	28.6	33.6	36.6	37.1

Location	dB L _{A90,10min} at Various Standardised Wind Speeds (m/s)				
	3	4	5	6	≥7
R091	24.7	28.0	33.0	35.6	35.9
R092	30.6	33.2	38.4	39.6	39.7
R093	31.2	33.9	39.1	40.3	40.3
R094	18.6	22.3	27.2	30.4	30.8
R095	21.4	24.9	29.8	32.6	32.9
R096	25.2	28.9	33.9	37.1	37.4
R097	25.2	28.9	33.9	37.0	37.4
R098	25.8	29.6	34.6	37.7	38.1
R099	21.4	24.8	29.8	32.5	32.9
R100	25.2	28.8	33.8	36.8	37.3
R101	26.7	30.4	35.4	38.6	39.0
R102	24.9	28.5	33.5	36.5	36.9
R103	29.6	32.3	37.5	38.7	38.8
R104	25.8	28.7	33.7	35.4	35.5
R105	31.5	34.2	39.4	40.8	40.9
R106	21.3	24.7	29.6	32.4	32.8
R107	26.8	30.6	35.6	38.7	39.1
R108	33.8	36.5	41.7	42.9	43.0
R109	21.2	24.6	29.5	32.4	32.7
R110	27.4	30.2	35.3	36.8	36.9
R111	22.0	25.4	30.3	33.1	33.4
R112	25.0	28.7	33.6	36.7	37.1
R113	26.1	29.8	34.8	37.9	38.2
R114	37.7	40.3	45.5	46.6	46.6
R115	26.1	30.2	35.1	38.4	39.2
R116	22.9	26.1	31.1	33.6	33.9
R117	32.4	35.0	40.3	41.4	41.5
R118	31.3	34.0	39.2	40.4	40.4
R119	30.2	33.0	38.2	39.5	39.6
R120	24.6	27.5	32.5	34.3	34.4
R121	32.9	35.6	40.8	42.1	42.1
R122	23.9	27.0	31.9	34.0	34.2
R123	23.9	27.1	32.0	34.4	34.6
R124	25.4	28.9	33.8	36.6	37.0
R125	20.6	24.3	29.2	32.4	32.7
R126	25.1	28.7	33.7	36.7	37.1
R127	24.2	27.7	32.7	35.6	36.0
R128	21.1	24.5	29.4	32.2	32.5
R129	18.3	21.9	26.8	29.9	30.3
R130	27.1	30.9	35.9	39.0	39.4
R131	25.1	28.8	33.9	37.0	37.4
R132	18.0	21.6	26.6	29.7	30.1
R133	17.8	21.5	26.4	29.6	30.0
R134	21.3	25.1	30.0	33.1	33.7
R135	18.5	22.2	27.1	30.3	30.7
R136	22.6	26.3	31.3	34.4	34.8

Location	dB L _{A90,10min} at Various Standardised Wind Speeds (m/s)				
	3	4	5	6	≥7
R137	26.1	29.7	34.7	37.7	38.0
R138	21.5	25.1	30.0	33.0	33.5
R139	20.3	23.9	28.8	31.7	32.2
R140	20.2	23.8	28.7	31.6	32.0
R141	20.4	24.1	29.0	32.0	32.5
R142	22.1	25.7	30.6	33.5	33.9
R143	22.5	26.2	31.2	34.2	34.8
R144	28.9	33.2	38.2	41.5	42.5
R145	22.8	26.6	31.6	34.8	35.4
R146	19.8	23.7	28.7	31.9	32.6
R147	20.1	24.0	29.0	32.2	32.8
R148	20.9	24.9	29.9	33.1	33.8
R149	26.5	30.7	35.7	39.0	39.9
R150	17.9	21.6	26.6	29.7	30.1
R151	23.4	27.4	32.4	35.6	36.3
R152	25.3	28.8	33.8	36.6	36.9
R153	26.6	29.9	34.9	37.5	37.8
R154	27.0	30.2	35.2	37.7	37.9
R155	22.6	26.2	31.1	34.1	34.5
R156	25.9	29.1	34.1	36.6	36.9
R157	24.9	28.5	33.4	36.4	36.7
R158	25.3	28.6	33.6	36.2	36.4
R159	24.4	27.6	32.6	34.9	35.1
R160	26.9	30.6	35.6	38.7	39.2
R161	25.1	28.4	33.4	35.9	36.2
R162	25.2	28.7	33.6	36.4	36.7
R163	21.7	25.4	30.3	33.4	33.9
R164	26.4	30.1	35.1	38.2	38.7
R165	22.4	26.2	31.2	34.3	35.0
R166	17.5	21.2	26.1	29.3	29.7
R167	26.2	29.9	34.9	38.0	38.5
R168	34.7	37.3	42.6	43.7	43.7
R169	21.9	25.0	29.9	32.2	32.5
R170	20.0	23.5	28.4	31.2	31.6
R171	19.9	23.5	28.4	31.3	31.8
R172	20.0	23.5	28.4	31.4	31.8
R173	24.6	27.5	32.5	34.2	34.4
R174	17.9	21.6	26.5	29.6	30.0
R175	26.9	31.1	36.1	39.4	40.3
R176	27.1	30.8	35.8	38.9	39.3
R177	27.8	31.5	36.5	39.7	40.0
R178	24.5	27.4	32.4	34.2	34.3
R179	21.1	24.6	29.5	32.3	32.7
R180	25.9	29.2	34.2	36.9	37.2
R181	25.0	28.1	33.1	35.3	35.5
R182	31.5	34.2	39.4	40.6	40.7

Location	dB L _{A90,10min} at Various Standardised Wind Speeds (m/s)				
	3	4	5	6	≥7
R183	23.9	27.2	32.2	34.6	34.9
R184	20.1	23.9	28.9	32.1	32.8
R185	20.4	24.3	29.3	32.5	33.2
R186	28.6	31.3	36.5	37.8	37.9
R187	27.6	30.3	35.4	36.8	36.9
R188	24.8	27.7	32.7	34.4	34.6
R189	22.9	26.8	31.8	35.0	35.7
R190	23.4	27.4	32.3	35.5	36.3
R191	26.8	31.0	35.9	39.3	40.2
R192	26.0	30.2	35.2	38.5	39.4
R193	19.0	22.9	27.9	31.1	31.8
R194	19.0	22.9	27.8	31.1	31.7
R195	18.8	22.7	27.7	30.9	31.5
R196	18.7	22.6	27.6	30.8	31.4
R197	21.8	25.2	30.2	33.0	33.3
R198	28.5	32.3	37.3	40.4	41.0