

Appendix 11.5: Predicted noise levels for 102.5m hub height

Table A1: Predicted Noise Levels from the Development at Varying Wind Speeds for Hub Height of 102.5m at Standardised 10m Height Wind Speed

	ITM	ITM	3m/s	4m/s	5m/s	6m/s	7m/s	8m/s	9+m/s
House ID	Easting	Northing	dBA	dBA	dBA	dBA	dBA	dBA	dBA
H1	517410	571864	31.9	38.4	40.9	40.9	40.9	40.9	40.9
H2	517402	573794	31.7	38.2	40.7	40.7	40.7	40.7	40.7
H3	517734	572119	31.2	37.7	40.2	40.2	40.2	40.2	40.2
H4	515736	571186	32.1	38.6	41.1	41.1	41.1	41.1	41.1
H5	515395	574092	30.1	36.6	39.1	39.1	39.1	39.1	39.1
H6	517462	571790	31.2	37.7	40.2	40.2	40.2	40.2	40.2
H7	517467	571806	31.3	37.8	40.3	40.3	40.3	40.3	40.3
H8	515487	574211	29.4	35.9	38.4	38.4	38.4	38.4	38.4
H9	516372	574046	31.1	37.6	40.1	40.1	40.1	40.1	40.1
H10	517533	571990	31.7	38.2	40.7	40.7	40.7	40.7	40.7
H11	515143	574094	28.9	35.4	37.9	37.9	37.9	37.9	37.9
H12	515896	574342	28.9	35.4	37.9	37.9	37.9	37.9	37.9
H13	517811	571946	29.8	36.3	38.8	38.8	38.8	38.8	38.8
H14	514534	572878	30.8	37.3	39.8	39.8	39.8	39.8	39.8
H15	516142	574318	29.1	35.6	38.1	38.1	38.1	38.1	38.1
H16	514510	572872	30.6	37.1	39.6	39.6	39.6	39.6	39.6
H17	516223	574321	29	35.5	38	38	38	38	38
H18	514997	574130	28	34.5	37	37	37	37	37
H19	515702	570880	29.5	36	38.5	38.5	38.5	38.5	38.5
H20	514411	572890	29.9	36.4	38.9	38.9	38.9	38.9	38.9
H21	518556	572363	26.7	33.2	35.7	35.7	35.7	35.7	35.7
H22	517923	573934	28	34.5	37	37	37	37	37
H23	517883	573984	27.9	34.4	36.9	36.9	36.9	36.9	36.9
H24	514830	574098	27.4	33.9	36.4	36.4	36.4	36.4	36.4
H25	517613	571154	27.2	33.7	36.2	36.2	36.2	36.2	36.2
H26	514887	574194	27.1	33.6	36.1	36.1	36.1	36.1	36.1
H27	514265	570703	25.5	32	34.5	34.5	34.5	34.5	34.5
H28	518705	572403	25.7	32.2	34.7	34.7	34.7	34.7	34.7
H29	514728	570617	26.3	32.8	35.3	35.3	35.3	35.3	35.3
H30	517670	571142	26.9	33.4	35.9	35.9	35.9	35.9	35.9
H31	514223	570697	25.3	31.8	34.3	34.3	34.3	34.3	34.3

	ITM	ITM	3m/s	4m/s	5m/s	6m/s	7m/s	8m/s	9+m/s
House ID	Easting	Northing	dBA	dBA	dBA	dBA	dBA	dBA	dBA
H32	518774	572454	25.4	31.9	34.4	34.4	34.4	34.4	34.4
H33	518384	573830	26	32.5	35	35	35	35	35
H34	514633	570556	25.7	32.2	34.7	34.7	34.7	34.7	34.7
H35	514379	570581	25.2	31.7	34.2	34.2	34.2	34.2	34.2
H36	514814	570551	26.1	32.6	35.1	35.1	35.1	35.1	35.1
H37	514777	570545	26	32.5	35	35	35	35	35
H38	515088	570586	26.8	33.3	35.8	35.8	35.8	35.8	35.8
H39	514187	570609	24.7	31.2	33.7	33.7	33.7	33.7	33.7
H40	514433	570535	25.1	31.6	34.1	34.1	34.1	34.1	34.1
H41	517124	574610	26.3	32.8	35.3	35.3	35.3	35.3	35.3
H42	518824	572353	24.9	31.4	33.9	33.9	33.9	33.9	33.9
H43	518107	574098	26.2	32.7	35.2	35.2	35.2	35.2	35.2
H44	516773	574652	26.5	33	35.5	35.5	35.5	35.5	35.5
H45	517869	574232	26.5	33	35.5	35.5	35.5	35.5	35.5
H46	514750	570477	25.5	32	34.5	34.5	34.5	34.5	34.5
H47	518434	573927	25.4	31.9	34.4	34.4	34.4	34.4	34.4
H48	517605	574420	26.3	32.8	35.3	35.3	35.3	35.3	35.3
H49	516256	574698	26.4	32.9	35.4	35.4	35.4	35.4	35.4
H50	517850	571155	26.1	32.6	35.1	35.1	35.1	35.1	35.1
H51	517890	571229	26.2	32.7	35.2	35.2	35.2	35.2	35.2
H52	514698	570464	25.3	31.8	34.3	34.3	34.3	34.3	34.3
H53	517210	574625	26	32.5	35	35	35	35	35
H54	514485	570469	24.9	31.4	33.9	33.9	33.9	33.9	33.9
H55	514590	570438	24.9	31.4	33.9	33.9	33.9	33.9	33.9
H56	518528	573917	24.9	31.4	33.9	33.9	33.9	33.9	33.9
H57	515290	570548	26.8	33.3	35.8	35.8	35.8	35.8	35.8
H58	514512	570431	24.7	31.2	33.7	33.7	33.7	33.7	33.7
H59	518930	572410	24.3	30.8	33.3	33.3	33.3	33.3	33.3
H60	516878	574725	25.9	32.4	34.9	34.9	34.9	34.9	34.9
H61	517955	571250	26	32.5	35.0	35.0	35.0	35.0	35.0
H62	514394	573903	26.2	32.7	35.2	35.2	35.2	35.2	35.2
H63	514059	570556	24	30.5	33	33	33	33	33
H64	518941	572403	24.3	30.8	33.3	33.3	33.3	33.3	33.3
H65	518321	574087	25.2	31.7	34.2	34.2	34.2	34.2	34.2

	ITM	ITM	3m/s	4m/s	5m/s	6m/s	7m/s	8m/s	9+m/s
House ID	Easting	Northing	dBA	dBA	dBA	dBA	dBA	dBA	dBA
H66	518957	572447	24.2	30.7	33.2	33.2	33.2	33.2	33.2
H67	518976	572514	24.2	30.7	33.2	33.2	33.2	33.2	33.2
H68	518097	574217	25.6	32.1	34.6	34.6	34.6	34.6	34.6
H69	518989	572432	24	30.5	33	33	33	33	33
H70	519003	572456	24	30.5	33	33	33	33	33
H71	518987	572390	24	30.5	33	33	33	33	33
H72	519042	572577	23.8	30.3	32.8	32.8	32.8	32.8	32.8
H73	519032	572454	23.8	30.3	32.8	32.8	32.8	32.8	32.8
H74	518159	574273	25.1	31.6	34.1	34.1	34.1	34.1	34.1
H75	517248	574791	25	31.5	34.0	34.0	34.0	34.0	34.0
H76	514292	570334	23.6	30.1	32.6	32.6	32.6	32.6	32.6
H77	519031	572269	23.6	30.1	32.6	32.6	32.6	32.6	32.6
H78	514600	574467	24.6	31.1	33.6	33.6	33.6	33.6	33.6
H79	519083	573399	23.2	29.7	32.2	32.2	32.2	32.2	32.2
H80	518088	574393	24.8	31.3	33.8	33.8	33.8	33.8	33.8
H81	514828	574738	24.1	30.6	33.1	33.1	33.1	33.1	33.1
H82	515800	575045	24.2	30.7	33.2	33.2	33.2	33.2	33.2
H83	514232	574023	25	31.5	34	34	34	34	34
H84	516832	574974	24.5	31	33.5	33.5	33.5	33.5	33.5
H85	515011	570183	24.3	30.8	33.3	33.3	33.3	33.3	33.3
H86	516572	574987	24.6	31.1	33.6	33.6	33.6	33.6	33.6
H87	514991	574930	23.6	30.1	32.6	32.6	32.6	32.6	32.6
H88	516684	575011	24.4	30.9	33.4	33.4	33.4	33.4	33.4
H89	518743	574118	23.2	29.7	32.2	32.2	32.2	32.2	32.2
H90	514914	574938	23.3	29.8	32.3	32.3	32.3	32.3	32.3
H91	514204	570162	22.6	29.1	31.6	31.6	31.6	31.6	31.6
H92	514308	574396	23.8	30.3	32.8	32.8	32.8	32.8	32.8
H93	515847	575193	23.5	30	32.5	32.5	32.5	32.5	32.5
H94	517147	575057	23.7	30.2	32.7	32.7	32.7	32.7	32.7
H95	514310	574440	23.7	30.2	32.7	32.7	32.7	32.7	32.7
H96	516360	570045	24.1	30.6	33.1	33.1	33.1	33.1	33.1
H97	515285	570118	24.3	30.8	33.3	33.3	33.3	33.3	33.3
H98	517237	575083	23.5	30	32.5	32.5	32.5	32.5	32.5
H99	518853	574198	22.5	29	31.5	31.5	31.5	31.5	31.5

	ITM	ITM	3m/s	4m/s	5m/s	6m/s	7m/s	8m/s	9+m/s
House ID	Easting	Northing	dBA	dBA	dBA	dBA	dBA	dBA	dBA
H100	514172	569993	21.8	28.3	30.8	30.8	30.8	30.8	30.8
H101	514126	574409	23.1	29.6	32.1	32.1	32.1	32.1	32.1
H102	519337	573772	21.3	27.8	30.3	30.3	30.3	30.3	30.3
H103	515882	575406	22.4	28.9	31.4	31.4	31.4	31.4	31.4
H104	519423	572097	21.4	27.9	30.4	30.4	30.4	30.4	30.4
H105	515128	575313	22	28.5	31	31	31	31	31
H106	519384	571987	21.4	27.9	30.4	30.4	30.4	30.4	30.4

Table A2: Margin between Predicted Development Noise Levels for Hub Height of 102.5m and Lower Fixed Limit of 43dBA at Standardised 10m Height Wind Speed

	ITM	ITM	3m/s	4m/s	5m/s	6m/s	7m/s	8m/s	9+m/s
House ID	Easting	Northing	dBA	dBA	dBA	dBA	dBA	dBA	dBA
H1	517410	571864	-11.1	-4.6	-2.1	-2.1	-2.1	-2.1	-2.1
H2	517402	573794	-11.3	-4.8	-2.3	-2.3	-2.3	-2.3	-2.3
H3	517734	572119	-11.8	-5.3	-2.8	-2.8	-2.8	-2.8	-2.8
H4	515736	571186	-10.9	-4.4	-1.9	-1.9	-1.9	-1.9	-1.9
H5	515395	574092	-12.9	-6.4	-3.9	-3.9	-3.9	-3.9	-3.9
H6	517462	571790	-11.8	-5.3	-2.8	-2.8	-2.8	-2.8	-2.8
H7	517467	571806	-11.7	-5.2	-2.7	-2.7	-2.7	-2.7	-2.7
H8	515487	574211	-13.6	-7.1	-4.6	-4.6	-4.6	-4.6	-4.6
H9	516372	574046	-11.9	-5.4	-2.9	-2.9	-2.9	-2.9	-2.9
H10	517533	571990	-11.3	-4.8	-2.3	-2.3	-2.3	-2.3	-2.3
H11	515143	574094	-14.1	-7.6	-5.1	-5.1	-5.1	-5.1	-5.1
H12	515896	574342	-14.1	-7.6	-5.1	-5.1	-5.1	-5.1	-5.1
H13	517811	571946	-13.2	-6.7	-4.2	-4.2	-4.2	-4.2	-4.2
H14	514534	572878	-12.2	-5.7	-3.2	-3.2	-3.2	-3.2	-3.2
H15	516142	574318	-13.9	-7.4	-4.9	-4.9	-4.9	-4.9	-4.9
H16	514510	572872	-12.4	-5.9	-3.4	-3.4	-3.4	-3.4	-3.4
H17	516223	574321	-14	-7.5	-5	-5	-5	-5	-5
H18	514997	574130	-15	-8.5	-6	-6	-6	-6	-6
H19	515702	570880	-13.5	-7	-4.5	-4.5	-4.5	-4.5	-4.5
H20	514411	572890	-13.1	-6.6	-4.1	-4.1	-4.1	-4.1	-4.1
H21	518556	572363	-16.3	-9.8	-7.3	-7.3	-7.3	-7.3	-7.3

	ITM	ITM	3m/s	4m/s	5m/s	6m/s	7m/s	8m/s	9+m/s
House ID	Easting	Northing	dBA	dBA	dBA	dBA	dBA	dBA	dBA
H22	517923	573934	-15	-8.5	-6	-6	-6	-6	-6
H23	517883	573984	-15.1	-8.6	-6.1	-6.1	-6.1	-6.1	-6.1
H24	514830	574098	-15.6	-9.1	-6.6	-6.6	-6.6	-6.6	-6.6
H25	517613	571154	-15.8	-9.3	-6.8	-6.8	-6.8	-6.8	-6.8
H26	514887	574194	-15.9	-9.4	-6.9	-6.9	-6.9	-6.9	-6.9
H27	514265	570703	-17.5	-11	-8.5	-8.5	-8.5	-8.5	-8.5
H28	518705	572403	-17.3	-10.8	-8.3	-8.3	-8.3	-8.3	-8.3
H29	514728	570617	-16.7	-10.2	-7.7	-7.7	-7.7	-7.7	-7.7
H30	517670	571142	-16.1	-9.6	-7.1	-7.1	-7.1	-7.1	-7.1
H31	514223	570697	-17.7	-11.2	-8.7	-8.7	-8.7	-8.7	-8.7
H32	518774	572454	-17.6	-11.1	-8.6	-8.6	-8.6	-8.6	-8.6
H33	518384	573830	-17	-10.5	-8	-8	-8	-8	-8
H34	514633	570556	-17.3	-10.8	-8.3	-8.3	-8.3	-8.3	-8.3
H35	514379	570581	-17.8	-11.3	-8.8	-8.8	-8.8	-8.8	-8.8
H36	514814	570551	-16.9	-10.4	-7.9	-7.9	-7.9	-7.9	-7.9
H37	514777	570545	-17	-10.5	-8	-8	-8	-8	-8
H38	515088	570586	-16.2	-9.7	-7.2	-7.2	-7.2	-7.2	-7.2
H39	514187	570609	-18.3	-11.8	-9.3	-9.3	-9.3	-9.3	-9.3
H40	514433	570535	-17.9	-11.4	-8.9	-8.9	-8.9	-8.9	-8.9
H41	517124	574610	-16.7	-10.2	-7.7	-7.7	-7.7	-7.7	-7.7
H42	518824	572353	-18.1	-11.6	-9.1	-9.1	-9.1	-9.1	-9.1
H43	518107	574098	-16.8	-10.3	-7.8	-7.8	-7.8	-7.8	-7.8
H44	516773	574652	-16.5	-10	-7.5	-7.5	-7.5	-7.5	-7.5
H45	517869	574232	-16.5	-10	-7.5	-7.5	-7.5	-7.5	-7.5
H46	514750	570477	-17.5	-11	-8.5	-8.5	-8.5	-8.5	-8.5
H47	518434	573927	-17.6	-11.1	-8.6	-8.6	-8.6	-8.6	-8.6
H48	517605	574420	-16.7	-10.2	-7.7	-7.7	-7.7	-7.7	-7.7
H49	516256	574698	-16.6	-10.1	-7.6	-7.6	-7.6	-7.6	-7.6
H50	517850	571155	-16.9	-10.4	-7.9	-7.9	-7.9	-7.9	-7.9
H51	517890	571229	-16.8	-10.3	-7.8	-7.8	-7.8	-7.8	-7.8
H52	514698	570464	-17.7	-11.2	-8.7	-8.7	-8.7	-8.7	-8.7
H53	517210	574625	-17	-10.5	-8	-8	-8	-8	-8
H54	514485	570469	-18.1	-11.6	-9.1	-9.1	-9.1	-9.1	-9.1
H55	514590	570438	-18.1	-11.6	-9.1	-9.1	-9.1	-9.1	-9.1

	ITM	ITM	3m/s	4m/s	5m/s	6m/s	7m/s	8m/s	9+m/s
House ID	Easting	Northing	dBA	dBA	dBA	dBA	dBA	dBA	dBA
H56	518528	573917	-18.1	-11.6	-9.1	-9.1	-9.1	-9.1	-9.1
H57	515290	570548	-16.2	-9.7	-7.2	-7.2	-7.2	-7.2	-7.2
H58	514512	570431	-18.3	-11.8	-9.3	-9.3	-9.3	-9.3	-9.3
H59	518930	572410	-18.7	-12.2	-9.7	-9.7	-9.7	-9.7	-9.7
H60	516878	574725	-17.1	-10.6	-8.1	-8.1	-8.1	-8.1	-8.1
H61	517955	571250	-17	-10.5	-8	-8	-8	-8	-8
H62	514394	573903	-16.8	-10.3	-7.8	-7.8	-7.8	-7.8	-7.8
H63	514059	570556	-19	-12.5	-10	-10	-10	-10	-10
H64	518941	572403	-18.7	-12.2	-9.7	-9.7	-9.7	-9.7	-9.7
H65	518321	574087	-17.8	-11.3	-8.8	-8.8	-8.8	-8.8	-8.8
H66	518957	572447	-18.8	-12.3	-9.8	-9.8	-9.8	-9.8	-9.8
H67	518976	572514	-18.8	-12.3	-9.8	-9.8	-9.8	-9.8	-9.8
H68	518097	574217	-17.4	-10.9	-8.4	-8.4	-8.4	-8.4	-8.4
H69	518989	572432	-19	-12.5	-10	-10	-10	-10	-10
H70	519003	572456	-19	-12.5	-10	-10	-10	-10	-10
H71	518987	572390	-19	-12.5	-10	-10	-10	-10	-10
H72	519042	572577	-19.2	-12.7	-10.2	-10.2	-10.2	-10.2	-10.2
H73	519032	572454	-19.2	-12.7	-10.2	-10.2	-10.2	-10.2	-10.2
H74	518159	574273	-17.9	-11.4	-8.9	-8.9	-8.9	-8.9	-8.9
H75	517248	574791	-18	-11.5	-9	-9	-9	-9	-9
H76	514292	570334	-19.4	-12.9	-10.4	-10.4	-10.4	-10.4	-10.4
H77	519031	572269	-19.4	-12.9	-10.4	-10.4	-10.4	-10.4	-10.4
H78	514600	574467	-18.4	-11.9	-9.4	-9.4	-9.4	-9.4	-9.4
H79	519083	573399	-19.8	-13.3	-10.8	-10.8	-10.8	-10.8	-10.8
H80	518088	574393	-18.2	-11.7	-9.2	-9.2	-9.2	-9.2	-9.2
H81	514828	574738	-18.9	-12.4	-9.9	-9.9	-9.9	-9.9	-9.9
H82	515800	575045	-18.8	-12.3	-9.8	-9.8	-9.8	-9.8	-9.8
H83	514232	574023	-18	-11.5	-9	-9	-9	-9	-9
H84	516832	574974	-18.5	-12	-9.5	-9.5	-9.5	-9.5	-9.5
H85	515011	570183	-18.7	-12.2	-9.7	-9.7	-9.7	-9.7	-9.7
H86	516572	574987	-18.4	-11.9	-9.4	-9.4	-9.4	-9.4	-9.4
H87	514991	574930	-19.4	-12.9	-10.4	-10.4	-10.4	-10.4	-10.4
H88	516684	575011	-18.6	-12.1	-9.6	-9.6	-9.6	-9.6	-9.6
H89	518743	574118	-19.8	-13.3	-10.8	-10.8	-10.8	-10.8	-10.8

	ITM	ITM	3m/s	4m/s	5m/s	6m/s	7m/s	8m/s	9+m/s
House ID	Easting	Northing	dBA	dBA	dBA	dBA	dBA	dBA	dBA
H90	514914	574938	-19.7	-13.2	-10.7	-10.7	-10.7	-10.7	-10.7
H91	514204	570162	-20.4	-13.9	-11.4	-11.4	-11.4	-11.4	-11.4
H92	514308	574396	-19.2	-12.7	-10.2	-10.2	-10.2	-10.2	-10.2
H93	515847	575193	-19.5	-13	-10.5	-10.5	-10.5	-10.5	-10.5
H94	517147	575057	-19.3	-12.8	-10.3	-10.3	-10.3	-10.3	-10.3
H95	514310	574440	-19.3	-12.8	-10.3	-10.3	-10.3	-10.3	-10.3
H96	516360	570045	-18.9	-12.4	-9.9	-9.9	-9.9	-9.9	-9.9
H97	515285	570118	-18.7	-12.2	-9.7	-9.7	-9.7	-9.7	-9.7
H98	517237	575083	-19.5	-13	-10.5	-10.5	-10.5	-10.5	-10.5
H99	518853	574198	-20.5	-14	-11.5	-11.5	-11.5	-11.5	-11.5
H100	514172	569993	-21.2	-14.7	-12.2	-12.2	-12.2	-12.2	-12.2
H101	514126	574409	-19.9	-13.4	-10.9	-10.9	-10.9	-10.9	-10.9
H102	519337	573772	-21.7	-15.2	-12.7	-12.7	-12.7	-12.7	-12.7
H103	515882	575406	-20.6	-14.1	-11.6	-11.6	-11.6	-11.6	-11.6
H104	519423	572097	-21.6	-15.1	-12.6	-12.6	-12.6	-12.6	-12.6
H105	515128	575313	-21	-14.5	-12	-12	-12	-12	-12
H106	519384	571987	-21.6	-15.1	-12.6	-12.6	-12.6	-12.6	-12.6