

West Burton Solar Project

Environmental Statement Appendix 15.1: Noise Survey Information

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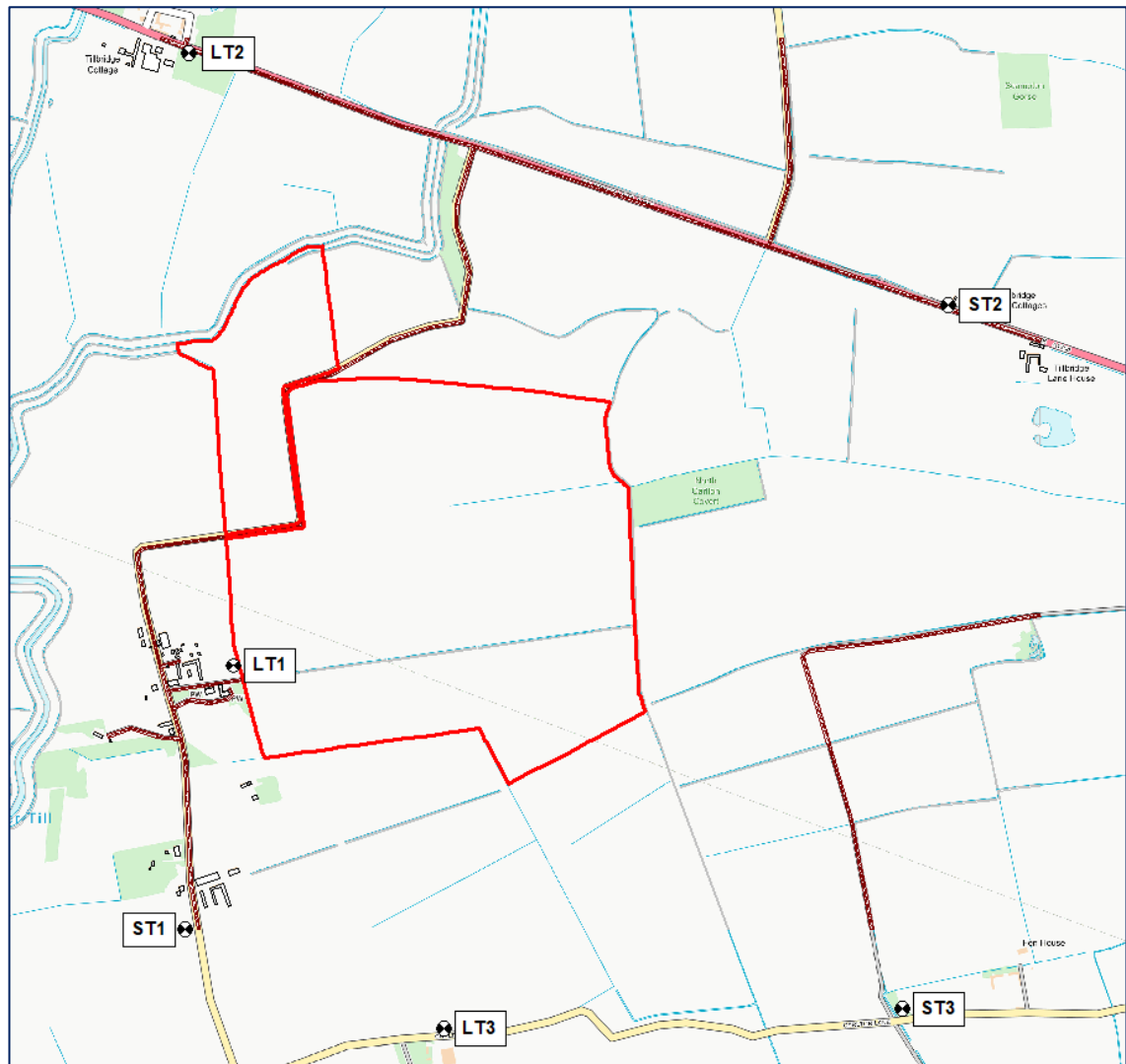
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15.1 West Burton 1 Noise Survey

15.1.1 The baseline noise environment has been established following a noise survey undertaken from Thursday 16th September 2021 to Tuesday 21st September 2021. Attended 15-minute short-term measures were undertaken at nine locations during the day, evening and night-time periods with four additional locations being measured unattended over a 117-hour period.

Figure A.15.1: Noise Monitoring Locations



Not to scale

OS Licence No. AL553611

15.1.2 The existing ambient noise climate was mainly dominated by road traffic noise. The main sources of this noise included: Broxholme Lane and Carlton Lane. A summary of the baseline noise monitoring survey is shown in Table A.15.1 below.

Table A.15.1: Results of Baseline Noise Monitoring Survey (Average Levels)

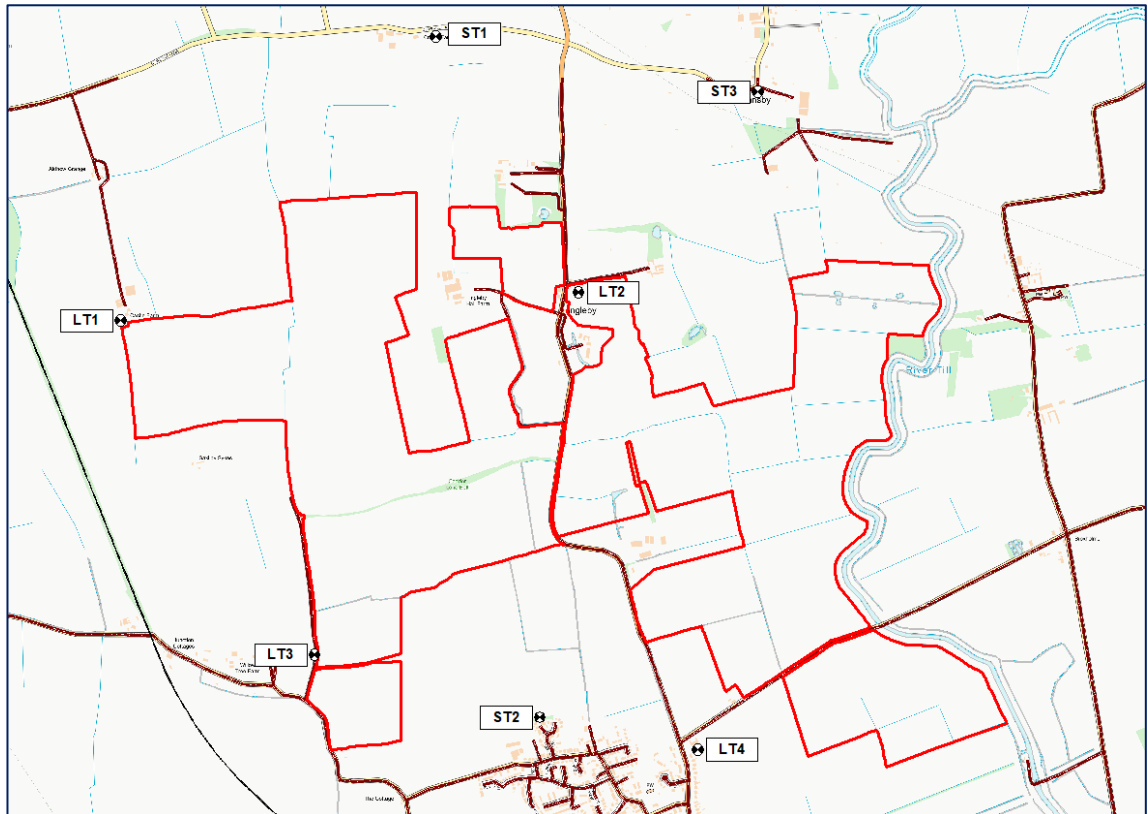
Period	Duration (T)	Monitoring Date and Times	Location	L _{Aeq,T} (dB)	L _{Amax,T} (dB)	L _{Amin,T} (dB)	L _{A10,T} (dB)	L _{A90,T} (dB)
Weekday Daytime 07:00 - 23:00	45 Hours	16/09/2021 – 21/09/2021 12:09 – 08:54	LT1	60.6	89.3	19.7	50.6	40
Weekday Night-time 23:00 – 07:00	24 hours	16/09/2021 – 21/09/2021 23:00 – 07:00		48.9	88.0	17.4	33.6	22
Weekend Daytime 07:00 - 23:00	32 Hours	18/09/2021 – 19/09/2021 07:00 - 23:00		55.3	97.2	21.2	43.7	26
Weekend Night-time 23:00 – 07:00	16 hours	18/09/2021 – 19/09/2021 23:00 – 07:00		45.6	83.8	17.8	32.5	20
Weekday Daytime 07:00 - 23:00	46 Hours	16/09/2021 – 21/09/2021 11:28 – 09:13	LT2	71.0	101.4	19.9	74.7	46
Weekday Night-time 23:00 – 07:00	24 hours	16/09/2021 – 21/09/2021 23:00 – 07:00		62.9	89.1	17.8	47.5	24
Weekend Daytime 07:00 - 23:00	32 Hours	18/09/2021 – 19/09/2021 07:00 - 23:00		69.1	101.6	19.0	71.1	44
Weekend Night-time 23:00 – 07:00	16 hours	18/09/2021 – 19/09/2021 23:00 – 07:00		61.0	88.4	17.1	48.6	28

Weekday Daytime 07:00 - 23:00	46 Hours	16/09/2021 - 21/09/2021 11:13 - 09:03	LT3	49.0	88.6	18.3	41.4	38
Weekday Night-time 23:00 - 07:00	24 hours	16/09/2021 - 21/09/2021 23:00 - 07:00		39.2	77.6	16.9	35.3	37
Weekend Daytime 07:00 - 23:00	32 Hours	18/09/2021 - 19/09/2021 07:00 - 23:00		44.5	82.2	20.7	40.6	32
Weekend Night-time 23:00 - 07:00	16 hours	18/09/2021 - 19/09/2021 23:00 - 07:00		35.7	71.9	15.6	31.6	18
Daytime 07:00 - 19:00	15 Mins	16/09/2021 12:31	ST1	58.4	85.1	29.1	47.6	32.2
	15 Mins	16/09/2021 12:56	ST2	69.0	89.0	35.3	74.1	42.6
	15 Mins	16/09/2021 13:22	ST3	55.0	78.0	27.1	48.7	31.0
Evening 19:00 - 23:00	15 Mins	11/11/2021 22:09	ST1	46.0	73.4	31.7	39.1	33.7
	15 Mins	11/11/2021 21:48	ST2	69.4	92.7	31.6	67.1	34.1
	15 Mins	11/11/2021 22:29	ST3	39.7	61.7	32.1	42.0	34.8
Night-time 23:00 - 07:00	15 Mins	11/11/2021 23:19	ST1	45.6	77.5	36.8	45.4	39.3
	15 Mins	11/11/2021 23:40	ST2	67.0	94.8	28.7	52.8	36.9
	15 Mins	11/11/2021 23:00	ST3	47.1	74.8	30.7	46.8	35.8

15.2 West Burton 2 Noise Survey

15.2.1 The baseline noise environment has been established following a noise survey undertaken from Thursday 16th September 2021 to Tuesday 21st September 2021. Attended 15-minute short-term measures were undertaken at three locations during the day, evening and night-time periods with two additional locations being measured unattended over a 116-hour period.

Figure A.15.2: Noise Monitoring Locations



Not to scale

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15.2.2 The existing ambient noise climate was dominated by road traffic noise with the main sources being Broxholme Lane, Cowdale Lane and Sturton Road. A summary of the baseline noise monitoring survey is shown in Table A.15.2 below.

Table A.15.2: Results of Baseline Noise Monitoring Survey (Average Levels)

Period	Duration (T)	Monitoring Date and Times	Location	L _{Aeq,T} (dB)	L _{Amax,T} (dB)	L _{Amin,T} (dB)	L _{A10,T} (dB)	L _{A90,T} (dB)
Weekday Daytime 07:00 - 23:00	44 Hours	16/09/2021 – 21/09/2021 16:25 – 12:05	LT1	44.2	76.5	16.1	41.0	38
Weekday Night-time 23:00 – 07:00	24 hours	16/09/2021 – 21/09/2021 23:00 – 07:00		41.4	74.1	15.7	32.5	18
Weekend Daytime 07:00 - 23:00	32 Hours	18/09/2021 – 19/09/2021 07:00 - 23:00		38.9	81.8	17.3	38.1	28
Weekend Night-time 23:00 – 07:00	16 hours	18/09/2021 – 19/09/2021 23:00 – 07:00		37.3	63.1	16.2	31.7	20
Weekday Daytime 07:00 - 23:00	46 Hours	16/09/2021 – 21/09/2021 14:30 – 10:15	LT2	51.8	91.0	17.0	53.5	44
Weekday Night-time 23:00 – 07:00	24 hours	16/09/2021 – 21/09/2021 23:00 – 07:00		42.0	74.9	15.9	36.6	18
Weekend Daytime 07:00 - 23:00	32 Hours	18/09/2021 – 19/09/2021 07:00 - 23:00		48.2	82.8	19.2	50.6	40
Weekend Night-time 23:00 – 07:00	16 hours	18/09/2021 – 19/09/2021 23:00 – 07:00		39.6	71.1	15.8	36.6	21

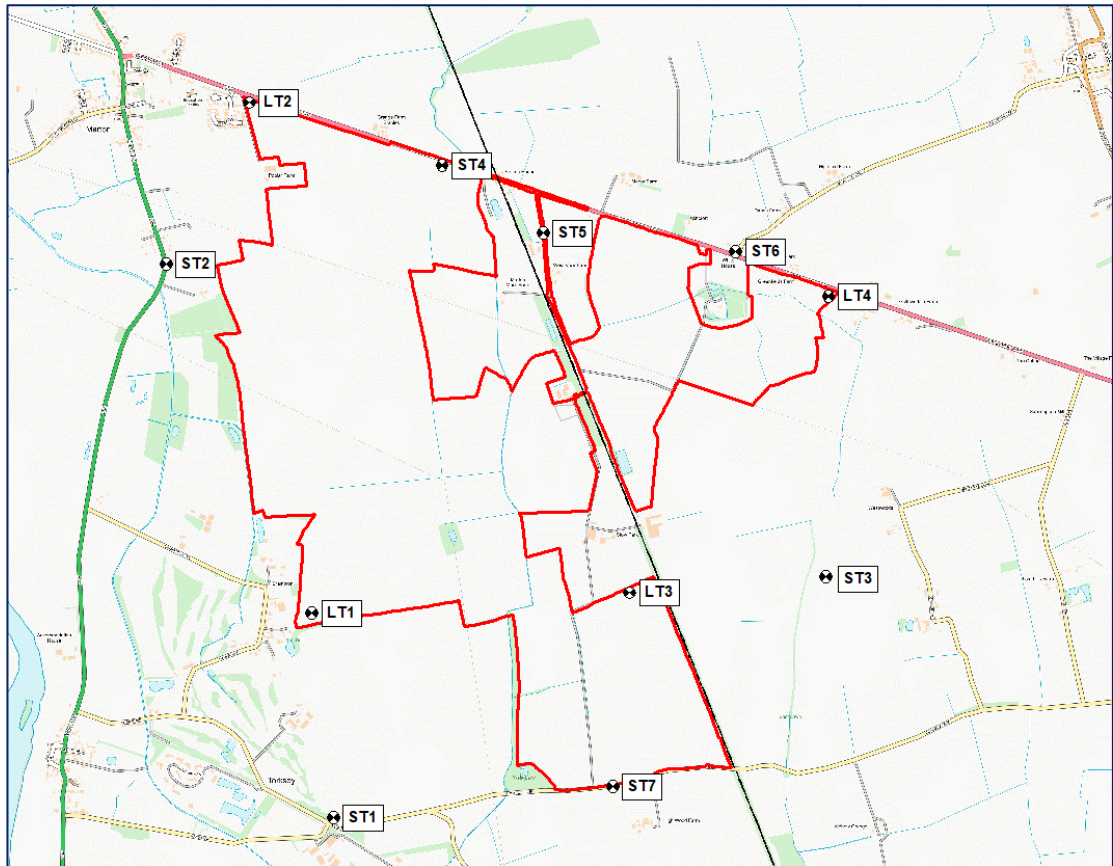
Weekday Daytime 07:00 - 23:00	46 Hours	16/09/2021 - 21/09/2021 15:43 - 11:13	LT3	44.5	79.9	15.9	41.8	36
Weekday Night-time 23:00 - 07:00	24 hours	16/09/2021 - 21/09/2021 23:00 - 07:00		40.7	72.3	15.5	32.0	19
Weekend Daytime 07:00 - 23:00	32 Hours	18/09/2021 - 19/09/2021 07:00 - 23:00		38.3	68.9	18.8	38.6	32
Weekend Night-time 23:00 - 07:00	16 hours	18/09/2021 - 19/09/2021 23:00 - 07:00		38.0	62.2	16.8	35.0	22
Weekday Daytime 07:00 - 23:00	46 Hours	16/09/2021 - 21/09/2021 17:34 - 10:39	LT4	47.6	84.0	18.2	45.7	40
Weekday Night-time 23:00 - 07:00	24 hours	16/09/2021 - 21/09/2021 23:00 - 07:00		46.5	83.9	17.7	35.8	23
Weekend Daytime 07:00 - 23:00	32 Hours	18/09/2021 - 19/09/2021 07:00 - 23:00		47.2	88.2	20.6	43.0	34
Weekend Night-time 23:00 - 07:00	16 hours	18/09/2021 - 19/09/2021 23:00 - 07:00		42.7	82.4	18.4	37.7	26
Daytime 07:00 - 19:00	15 Mins	16/09/2021 14:49	ST1	48.7	72.2	28.4	48.1	36.1
	15 Mins	16/09/2021	ST2	35.7	63.7	24.3	36.6	27.6

		14:08						
	15 Mins	16/09/2021 15:09	ST3	51.2	71.7	29.7	51.1	33.9
Evening 19:00 - 23:00	15 Mins	11/11/2021 21:07	ST1	47.2	74.6	31.4	43.3	34.8
	15 Mins	11/11/2021 21:26	ST3	36.1	65.9	28.0	38.2	30.2
Night-time 23:00 - 07:00	15 Mins	12/11/2021 00:30	ST1	45.7	75.1	30.4	46.8	34.7
	15 Mins	12/11/2021 00:46	ST2	43.2	71.5	29.4	45.9	34.8
	15 Mins	12/11/2021 00:06	ST3	41.2	75.9	28.3	37.5	30.5

15.3 West Burton 3 Noise Survey

15.3.1 The baseline noise environment has been established following a noise survey undertaken from Thursday 16th September 2021 to Wednesday 17th November 2021. Attended 15-minute short-term measures were undertaken at four locations during the day, evening and night-time periods with two additional locations being measured unattended over a 117-hour period.

Figure A.15.3: Noise Monitoring Locations



Not to scale

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15.3.2 The existing ambient noise climate was dominated by road traffic noise throughout the day, evening and night-time measurements. The main sources of the noise were; Station Road, High Street, Slow Park Lane and Till Bridge Lane.

Table A.15.3: Results of Baseline Noise Monitoring Survey (Average Levels)

Period	Duration (T)	Monitoring Date and Times	Location	L _{Aeq,T} (dB)	L _{Amax,T} (dB)	L _{Amin,T} (dB)	L _{A10,T} (dB)	L _{A90,T} (dB)
Weekday Daytime 07:00 - 23:00	44 Hours	16/09/2021 – 21/09/2021 07:00 - 23:00	LT1	44.9	82.2	18.5	39.8	33.0
Weekday Night-time 23:00 – 07:00	25 Hours	16/09/2021 – 21/09/2021 23:00 - 07:00		37.4	73.9	17.7	34.8	20.0
Weekend Daytime 07:00 - 23:00	32 Hours	16/09/2021 – 21/09/2021 07:00 - 23:00		43.2	89.5	22.1	39.1	30.0
Weekend Night-time 23:00 – 07:00	16 hours	16/09/2021 – 21/09/2021 23:00 - 07:00		34.5	76.8	17.5	30.3	22.0
Weekday Daytime 07:00 - 23:00	44 Hours	16/09/2021 – 21/09/2021 07:00 - 23:00	LT2	59.7	96.4	20.0	62.2	40.0
Weekday Night-time 23:00 – 07:00	25 Hours	16/09/2021 – 21/09/2021 23:00 - 07:00		53.6	85.7	17.3	45.0	20.0
Weekend Daytime 07:00 - 23:00	32 Hours	16/09/2021 – 21/09/2021 07:00 - 23:00		58.2	96.5	22.4	59.9	34.0
Weekend Night-time 23:00 – 07:00	16 hours	16/09/2021 – 21/09/2021 23:00 - 07:00		51.1	78.8	17.6	44.5	20.0

Weekday Daytime 07:00 - 23:00	44 Hours	16/09/2021 - 21/09/2021 07:00 - 23:00	LT3	51.3	82.9	19.1	42.5	38.0
Weekday Night-time 23:00 - 07:00	25 Hours	16/09/2021 - 21/09/2021 23:00 - 07:00		39.6	78.4	19.0	34.5	22.0
Weekend Daytime 07:00 - 23:00	32 Hours	16/09/2021 - 21/09/2021 07:00 - 23:00		53.6	93.3	21.4	39.6	28.0
Weekend Night-time 23:00 - 07:00	16 hours	16/09/2021 - 21/09/2021 23:00 - 07:00		40.2	78.3	19.7	33.2	22.0
Weekday Daytime 07:00 - 23:00	44 Hours	16/09/2021 - 21/09/2021 07:00 - 23:00	LT4	63.4	94.5	18.7	41.1	55.0
Weekday Night-time 23:00 - 07:00	25 Hours	16/09/2021 - 21/09/2021 23:00 - 07:00		56.3	88.3	16.7	26.3	19.6
Weekend Daytime 07:00 - 23:00	32 Hours	16/09/2021 - 21/09/2021 07:00 - 23:00		61.4	93.8	22.4	38.2	41.6
Weekend Night-time 23:00 - 07:00	16 hours	16/09/2021 - 21/09/2021 23:00 - 07:00		54.0	80.5	17.2	24.9	19.5
Daytime 07:00 - 19:00	15 Mins	17/09/2021 09:54	ST1	60.9	89.8	31.7	48.5	35.0
	15 Mins	16/09/2021	ST2	71.4	87.9	41.8	76.5	48.3

		14:40						
	15 Mins	17/09/2021 10:34	ST3	46.1	74.8	26.8	40.9	30.4
	15 Mins	17/09/2021 10:59	ST4	56.6	70.5	36.5	61.8	40.9
	15 Mins	16/09/2021 16:05	ST5	73.5	79.9	59.7	77.1	68.8
	15 Mins	16/09/2021 15:46	ST6	62.1	80.6	33.6	67.2	41.9
	15 Mins	17/09/2021 10:14	ST7	62.8	77.9	31.0	56.7	35.6
Evening 19:00 - 23:00	15 Mins	17/11/2021 19:16	ST1	45.3	72.1	26.2	42.3	29.6
	15 Mins	17/11/2021 19:26	ST2	60.3	77.8	27.1	62.6	31.0
	15 Mins	17/11/2021 19:56	ST3	38.0	73.9	24.5	38.4	27.9
	15 Mins	17/11/2021 21:05	ST4	68.1	89.7	30.8	70.2	36.5
	15 Mins	17/11/2021 20:41	ST5	45.2	73.2	27.4	49.0	30.7
	15 Mins	17/11/2021 20:20	ST6	73.7	95.8	29.1	71.3	35.4
	15 Mins	17/11/2021 19:34	ST7	47.4	76.6	25.0	33.9	27.6
Night- time 23:00 - 07:00	15 Mins	16/09/2021 00:40	ST1	27.0	61.6	17.2	24.8	19.4
	15 Mins	16/09/2021 23:13	ST2	55.7	81.6	20.5	46.3	23.0
	15 Mins	17/09/2021 01:17	ST3	35.1	66.0	15.9	32.7	18.4
	15 Mins	16/09/2021	ST4	66.3	92.1	17.7	62.6	22.2

		23:33						
	15 Mins	16/09/2021 23:52	ST5	38.5	56.4	17.7	42.1	23.5
	15 Mins	17/09/2021 00:11	ST6	45.1	70.8	16.6	46.4	19.1
	15 Mins	17/09/2021 00:58	ST7	34.7	64.5	16.6	38.5	18.0