

TECHNICAL APPENDIX 13.4: CONSTRUCTION NOISE ASSESSMENT OF FORT AUGUSTUS TO FORT WILLIAM OHL DIVERSION AND TEMPORARY DIVERSION

- 1. TECHNICAL APPENDIX 13.4: CONSTRUCTION NOISE OF FORT
AUGUSTUS TO FORT WILLIAM OHL DIVERSION AND TEMPORARY
DIVERSION** 1-2

1. TECHNICAL APPENDIX 13.4: CONSTRUCTION NOISE OF FORT AUGUSTUS TO FORT WILLIAM OHL DIVERSION AND TEMPORARY DIVERSION

Table 1-1: BS 5228-1 Assessment – Felling and Access – Evenings and Weekends

NSR	Shortest distance to felling buffer boundary (m)	Daytime Construction Noise Limit (dB)	Total Equivalent Noise Level at 10 m from OHL (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit Exceedance
1	2660	55	91	44	-11
2	1242	55	91	47	-8
3	6534	55	91	32	-23
4	6543	55	91	32	-23
5	6543	55	91	33	-22
6	6426	55	91	45	-10
7	6725	55	91	38	-17
8	7094	55	91	37	-18
9	7126	55	91	36	-19
10	7215	55	91	37	-18
11	7369	55	91	34	-21
12	7393	55	91	33	-22
13	7443	55	91	33	-22
14	7532	55	91	33	-22

Table 1-2: BS 5228-1 Assessment – Temporary Diversion - Felling and Access – Evenings and Weekends

NSR	Shortest distance to felling buffer boundary (m)	Daytime Construction Noise Limit (dB)	Total Equivalent Noise Level at 10 m from OHL (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit Exceedance
1	2632	55	91	44	-11
2	1208	55	91	47	-8
3	6589	55	91	32	-23
4	6868	55	91	32	-23
5	6866	55	91	32	-23
6	6712	55	91	45	-10
7	7007	55	91	37	-18
8	7387	55	91	37	-18

9	7418	55	91	36	-19
10	7509	55	91	37	-18
11	7650	55	91	34	-21
12	7673	55	91	33	-22
13	7724	55	91	33	-22
14	7809	55	91	32	-23

Table 1-3: BS 5228-1 Assessment – Foundations and Access – Evenings and Weekends

NSR	Shortest distance to OHL (m)	Daytime Construction Noise Limit (dB)	Total Equivalent Noise Level at 10 m from OHL (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit Exceedance
1	2660	55	85	43	-12
2	1242	55	85	43	-12
3	6534	55	85	30	-25
4	6543	55	85	30	-25
5	6543	55	85	31	-24
6	6426	55	85	45	-10
7	6725	55	85	37	-18
8	7094	55	85	36	-19
9	7126	55	85	36	-19
10	7215	55	85	37	-18
11	7369	55	85	33	-22
12	7393	55	85	32	-23
13	7443	55	85	32	-23
14	7532	55	85	31	-24

Table 1-4: BS 5228-1 Assessment – Temporary Diversion – Foundations and Access – Evenings and Weekends

NSR	Shortest distance to OHL (m)	Daytime Construction Noise Limit (dB)	Total Equivalent Noise Level at 10 m from OHL (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit Exceedance
1	2632	55	85	43	-12
2	1208	55	85	43	-12
3	6589	55	85	30	-25
4	6868	55	85	30	-25

5	6866	55	85	31	-24
6	6712	55	85	45	-10
7	7007	55	85	37	-18
8	7387	55	85	36	-19
9	7418	55	85	36	-19
10	7509	55	85	37	-18
11	7650	55	85	33	-22
12	7673	55	85	32	-23
13	7724	55	85	32	-23
14	7809	55	85	31	-24

Table 1-5: BS 5228-1 Assessment – Tower Erection – Evenings and Weekends

NSR	Shortest distance to OHL (m)	Daytime Construction Noise Limit (dB)	Total Equivalent Noise Level at 10 m from OHL (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit Exceedance
1	2660	55	84	43	-12
2	1242	55	84	42	-13
3	6534	55	84	30	-25
4	6543	55	84	30	-25
5	6543	55	84	31	-24
6	6426	55	84	45	-10
7	6725	55	84	37	-18
8	7094	55	84	36	-19
9	7126	55	84	36	-19
10	7215	55	84	37	-18
11	7369	55	84	33	-22
12	7393	55	84	32	-23
13	7443	55	84	32	-23
14	7532	55	84	31	-24

Table 1-6: BS 5228-1 Assessment – Temporary Diversion - Tower Erection – Evenings and Weekends

NSR	Shortest distance to OHL (m)	Daytime Construction Noise Limit (dB)	Total Equivalent Noise Level at 10 m from OHL (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit Exceedance
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1	2632	55	84	43	-12
2	1208	55	84	42	-13
3	6589	55	84	30	-25
4	6868	55	84	30	-25
5	6866	55	84	31	-24
6	6712	55	84	45	-10
7	7007	55	84	37	-18
8	7387	55	84	36	-19
9	7418	55	84	36	-19
10	7509	55	84	37	-18
11	7650	55	84	33	-22
12	7673	55	84	32	-23
13	7724	55	84	32	-23
14	7809	55	84	31	-24

Table 1-7: BS 5228-1 Assessment – Stringing – Evenings and Weekends

NSR	Shortest distance to OHL (m)	Daytime Construction Noise Limit (dB)	Total Equivalent Noise Level at 10 m from OHL (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit Exceedance
1	2660	55	74	42	-13
2	1242	55	74	41	-14
3	6534	55	74	30	-25
4	6543	55	74	30	-25
5	6543	55	74	30	-25
6	6426	55	74	45	-10
7	6725	55	74	37	-18
8	7094	55	74	36	-19
9	7126	55	74	36	-19
10	7215	55	74	37	-18
11	7369	55	74	32	-23
12	7393	55	74	32	-23
13	7443	55	74	32	-23
14	7532	55	74	31	-24

Table 1-8: BS 5228-1 Assessment – Temporary Diversion - Stringing – Evenings and Weekends

NSR	Shortest distance to OHL (m)	Daytime Construction Noise Limit (dB)	Total Equivalent Noise Level at 10 m from OHL (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit Exceedance
1	2632	55	74	42	-13
2	1208	55	74	41	-14
3	6589	55	74	30	-25
4	6868	55	74	30	-25
5	6866	55	74	30	-25
6	6712	55	74	45	-10
7	7007	55	74	37	-18
8	7387	55	74	36	-19
9	7418	55	74	36	-19
10	7509	55	74	37	-18
11	7650	55	74	32	-23
12	7673	55	74	32	-23
13	7724	55	74	32	-23
14	7809	55	74	31	-24