

TECHNICAL APPENDIX 13.8: CONSTRUCTION NOISE ASSESSMENT

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Table 13.8.1 BS 5228-1 Assessment – Access, Enabling Works and Platform Creation – Evenings and Weekends

NSR	Shortest Distance to Geometric Centre of Site (m)	SPL at Receptor (dB)	Noise due to Vehicles Access Tracks (dB)	Total Construction Noise (dB)	Construction Noise Limit (dB)	Construction Noise Limit Exceedance (dB)
Mossgiel	460	63	44	63	55	8
Achalone	435	63	44	63	55	8
Revelstone	500	62	45	62	55	7
Achalone Croft	644	59	41	59	55	4
Banniskirk House	600	60	34	60	55	5
Banniskirk Mains	1100	54	28	54	55	-1

Table 13.8.2 BS 5228-1 Assessment – Civil Works – Evenings and Weekends

NSR	Shortest distance to geometric centre of site (m)	SPL at Receptor (dB)	Noise due to Vehicles Access Tracks (dB)	Total Construction Noise (dB)	Construction Noise Limit (dB)	Construction Noise Limit Exceedance (dB)
Mossgiel	460	61	44	61	55	6
Achalone	435	61	44	61	55	6
Revelstone	500	60	45	60	55	5
Achalone Croft	644	57	41	58	55	3
Banniskirk House	600	58	34	58	55	3
Banniskirk Mains	1100	52	28	52	55	-3

Table 13.8.3 BS 5228-1 Assessment – Transformer Installation – Evenings and Weekends

NSR	Shortest distance to geometric centre of site (m)	SPL at Receptor (dB)	Noise due to Vehicles Access Tracks (dB)	Total Construction Noise (dB)	Construction Noise Limit (dB)	Construction Noise Limit Exceedance (dB)
Mossgiel	460	61	44	61	55	6
Achalone	435	62	44	62	55	7
Revelstone	500	60	45	60	55	5
Achalone Croft	644	58	41	58	55	3
Banniskirk House	600	58	34	58	55	3
Banniskirk Mains	1100	52	28	52	55	-3

Table 13.8.4 BS 5228-1 Assessment – Balance of Plant Works – Evenings and Weekends

NSR	Shortest distance to geometric centre of site (m)	SPL at Receptor (dB)	Noise due to Vehicles Access Tracks (dB)	Total Construction Noise (dB)	Construction Noise Limit (dB)	Construction Noise Limit Exceedance (dB)
Mossgiel	460	37	44	45	55	-10
Achalone	435	37	44	45	55	-10
Revelstone	500	36	45	46	55	-9
Achalone Croft	644	33	41	41	55	-14
Banniskirk House	600	34	34	37	55	-18
Banniskirk Mains	1100	28	28	31	55	-24

Table 13.8.5 BS 5228-1 Assessment – Bunding, Landscaping and Removal of Temporary Laydown and Welfare – Evenings and Weekends

NSR	Shortest distance to geometric centre of site (m)	Site Establishment and Haul Roads Works SPL at Receptor (dB)	Noise due to Vehicles Access Tracks (dB)	Total Construction Noise (dB)	Construction Noise Limit (dB)	Construction Noise Limit Exceedance (dB)
Mossgiel	460	45	44	48	55	-7
Achalone	435	46	44	48	55	-7
Revelstone	500	44	45	48	55	-7
Achalone Croft	644	42	41	44	55	-11
Banniskirk House	600	43	34	43	55	-12
Banniskirk Mains	1100	37	28	37	55	-18

Table 13.8.6 BS 5228-1 Assessment – Access, Enabling Works and Platform Creation – Daytime and Saturdays

NSR	Shortest Distance to Geometric Centre of Site (m)	SPL at Receptor (dB)	Noise due to Vehicles Access Tracks (dB)	Total Construction Noise (dB)	Construction Noise Limit (dB)	Construction Noise Limit Exceedance (dB)
Mossgiel	460	63	44	63	65	-2
Achalone	435	63	44	63	65	-2
Revelstone	500	62	45	62	65	-3
Achalone Croft	644	59	41	59	65	-6
Banniskirk House	600	60	34	60	65	-5
Banniskirk Mains	1100	54	28	54	65	-11

Table 13.8.7 BS 5228-1 Assessment – Civil Works – Daytime and Saturdays

NSR	Shortest distance to geometric centre of site (m)	SPL at Receptor (dB)	Noise due to Vehicles Access Tracks (dB)	Total Construction Noise (dB)	Construction Noise Limit (dB)	Construction Noise Limit Exceedance (dB)
Mossgiel	460	61	44	61	65	-4
Achalone	435	61	44	61	65	-4
Revelstone	500	60	45	60	65	-5
Achalone Croft	644	57	41	58	65	-7
Banniskirk House	600	58	34	58	65	-7
Banniskirk Mains	1100	52	28	52	65	-13

Table 13.8.8 BS 5228-1 Assessment – Transformer Installation – Daytime and Saturdays

NSR	Shortest distance to geometric centre of site (m)	SPL at Receptor (dB)	Noise due to Vehicles Access Tracks (dB)	Total Construction Noise (dB)	Construction Noise Limit (dB)	Construction Noise Limit Exceedance (dB)
Mossgiel	460	61	44	61	65	-4
Achalone	435	62	44	62	65	-3
Revelstone	500	60	45	60	65	-5
Achalone Croft	644	58	41	58	65	-7
Banniskirk House	600	58	34	58	65	-7
Banniskirk Mains	1100	52	28	52	65	-13

Table 13.8.9 BS 5228-1 Assessment – Balance of Plant Works – Daytime and Saturdays

NSR	Shortest distance to geometric centre of site (m)	SPL at Receptor (dB)	Noise due to Vehicles Access Tracks (dB)	Total Construction Noise (dB)	Construction Noise Limit (dB)	Construction Noise Limit Exceedance (dB)
Mossgiel	460	37	44	45	65	-20
Achalone	435	37	44	45	65	-20
Revelstone	500	36	45	46	65	-19
Achalone Croft	644	33	41	41	65	-24
Banniskirk House	600	34	34	37	65	-28
Banniskirk Mains	1100	28	28	31	65	-34

Table 13.8.10 BS 5228-1 Assessment – Bunding, Landscaping and Removal of Temporary Laydown and Welfare – Daytime and Saturdays

NSR	Shortest distance to geometric centre of site (m)	Site Establishment and Haul Roads Works SPL at Receptor (dB)	Noise due to Vehicles Access Tracks (dB)	Total Construction Noise (dB)	Construction Noise Limit (dB)	Construction Noise Limit Exceedance (dB)
Mossgiel	460	45	44	48	65	-17
Achalone	435	46	44	48	65	-17
Revelstone	500	44	45	48	65	-17
Achalone Croft	644	42	41	44	65	-21
Banniskirk House	600	43	34	43	65	-22
Banniskirk Mains	1100	37	28	37	65	-28