

Appendix H

Traffic figures

Traffic figures

Table H-1: 2011 existing traffic data

Route Direction	Location	Traffic Speed		Daily Total	9 (10pm - 7am)		Hour 15 (7am - 10pm)		Hour	
		Day km/hr	Night km/hr		Light	Heavy	% Heavy	Light	Heavy	% Heavy
Princes Hwy NB	North of Tannery Road	63	67	4,664	326	124	27	3,700	514	12
Princes Hwy SB		59	63	4,630	303	137	31	3,689	502	12
Princes Hwy EB	Queen Street (between Albany St and Alexandra St)	50	50	5,350	354	129	27	4,336	532	11
Princes Hwy WB		50	50	5,283	337	129	28	4,292	526	11
Princes Hwy NB	South of Hitchcocks Lane	90	95	5,826	385	140	27	4,721	579	11
Princes Hwy SB		90	94	5,753	367	141	28	4,673	572	11
Kangaroo Valley Road NB	North of North Street	61	64	741	35	2	4	662	42	6
Kangaroo Valley Road SB		60	65	744	33	0	1	674	37	5
Tannery Road NB	South of Princes Hwy	57	59	848	40	3	7	764	41	5
Tannery Road SB		56	58	832	47	2	4	737	45	6
Woodhill Mountain Road NB	North of North Street	72	79	490	20	0	2	445	25	5
Woodhill Mountain Road SB		75	77	479	22	1	5	426	30	7
Huntingdale Park Road NB	West of Kangaroo Valley Road	50	50	172	8	0	2	161	3	2
Huntingdale Park Road SB		50	50	172	9	0	1	160	3	2
North Street WB	East of Kangaroo Valley Road	50	50	414	20	1	4	370	24	6
North Street EB		50	50	280	12	0	1	254	14	5

Table H-2: 2017 “No build” traffic data

Route Direction	Location	Traffic Speed		Daily Total	9 Hour (10pm - 7am)			15 Hour (7am - 10pm)		
		Day km/hr	Night km/hr		Light	Heavy	% Heavy	Light	Heavy	% Heavy
Princes Hwy NB	North of Tannery Road	63	67	6,455	373	141	27	5,328	612	10
Princes Hwy SB		59	63	6,248	392	159	29	5,057	640	11
Queen St EB	Queen Street (between Albany St and Alexandra St)	50	50	7,369	431	147	25	6,132	659	10
Queen St WB		50	50	7,127	432	147	25	5,840	708	11
Princes Hwy NB	South of Hitchcocks Lane	90	95	8,024	469	160	25	6,677	718	10
Princes Hwy SB		90	94	7,761	470	160	25	6,360	771	11
Kangaroo Valley Road NB	North of North Street	61	64	904	43	2	4	807	51	6
Kangaroo Valley Road SB		60	65	908	40	0	1	823	45	5
Tannery Road NB	South of Princes Hwy	57	59	1,084	51	4	7	977	52	5
Tannery Road SB		56	58	1,063	60	3	4	942	58	6
Woodhill Mountain Road NB	North of North Street	72	79	598	24	1	2	543	31	5
Woodhill Mountain Road SB		75	77	585	27	1	5	520	37	7
Huntingdale Park Road NB	West of Kangaroo Valley Road	50	50	860	41	1	2	802	17	2
Huntingdale Park Road SB		50	50	860	44	1	1	799	17	2
North Street WB	East of Kangaroo Valley Road	50	50	488	23	1	4	436	28	6
North Street EB		50	50	330	15	0	1	299	16	5

Table H-3: 2027 “No build” traffic data

Route Direction	Location	Traffic Speed		Daily Total	9 Hour (10pm - 7am)			15 Hour (7am - 10pm)		
		Day km/hr	Night km/hr		Light	Heavy	% Heavy	Light	Heavy	% Heavy
Princes Hwy NB	North of Tannery Road	63	67	8,104	469	177	27	6,690	769	10
Princes Hwy SB		59	63	7,845	492	200	29	6,349	803	11
Queen St EB	Queen Street (between Albany St and Alexandra St)	50	50	9,225	539	184	25	7,677	825	10
Queen St WB		50	50	8,922	540	184	25	7,311	886	11
Princes Hwy NB	South of Hitchcocks Lane	90	95	10,044	587	200	25	8,359	899	10
Princes Hwy SB		90	94	9,715	588	200	25	7,961	965	11
Kangaroo Valley Road NB	North of North Street	61	64	1,175	56	2	4	1,050	67	6
Kangaroo Valley Road SB		60	65	1,181	52	0	1	1,070	58	5
Tannery Road NB	South of Princes Hwy	57	59	1,477	70	5	7	1,331	71	5
Tannery Road SB		56	58	1,448	82	4	4	1,284	79	6
Woodhill Mountain Road NB	North of North Street	72	79	778	31	1	2	706	40	5
Woodhill Mountain Road SB		75	77	761	35	2	5	677	48	7
Huntingdale Park Road NB	West of Kangaroo Valley Road	50	50	1,720	81	1	2	1,604	33	2
Huntingdale Park Road SB		50	50	1,720	88	1	1	1,597	33	2
North Street WB	East of Kangaroo Valley Road	50	50	611	29	1	4	546	35	6
North Street EB		50	50	414	18	0	1	375	20	5

Table H-4: 2017 “Build” traffic data

Route Direction	Location	Traffic Speed		Daily Total	9 Hour (10pm - 7am)			15 Hour (7am - 10pm)		
		Day km/hr	Night km/hr		Light	Heavy	% Heavy	Light	Heavy	% Heavy
Princes Hwy NB	North of Berry	100	100	7,353	432	140	24	6,172	609	9
Princes Hwy SB		100	100	7,053	450	158	26	5,808	636	10
Princes Hwy NB	Berry Bypass	100	100	6,824	402	127	24	5,723	572	9
Princes Hwy SB		100	100	6,507	415	147	26	5,355	590	10
Queen St EB	Queen Street (between Albany St and Alexandra St)	50	50	1,947	114	37	24	1,629	167	9
Queen St WB		50	50	1,849	117	43	27	1,516	172	10
Princes Hwy NB	South of Berry	100	100	8,569	505	160	24	7,187	718	9
Princes Hwy SB		100	100	8,220	502	160	24	6,787	771	10
Princes Hwy NB On	Northern Interchange	80	80	529	31	10	24	444	44	9
Princes Hwy SB Off		60	60	546	35	12	26	449	49	10
Princes Hwy NB On	Kangaroo Valley Road Interchange	80	80	431	25	8	24	361	36	9
Princes Hwy SB Off		60	60	465	30	10	26	383	42	10
Princes Hwy NB Off		80	80	2,176	128	41	24	1,825	182	9
Princes Hwy SB On		60	60	2,178	133	42	24	1,799	204	10
North Street WB	East of Kangaroo Valley Road	50	50	678	45	16	27	549	67	11
North Street EB		50	50	668	43	16	28	542	66	11
Kangaroo Valley Road NB	North of North Street	61	64	904	43	2	4	807	51	6
Kangaroo Valley Road SB		60	65	908	40	0	1	823	45	5
Tannery Road NB	South of Princes Hwy	57	59	825	39	3	7	744	40	5
Tannery Road SB		56	58	809	46	2	4	717	44	6
Woodhill Mountain Road NB	North of North Street	72	79	598	24	1	2	543	31	5
Woodhill Mountain Road SB		75	77	585	27	1	5	520	37	7

Route Direction	Location	Traffic Speed		Daily Total	9 Hour (10pm - 7am)			15 Hour (7am - 10pm)		
		Day km/hr	Night km/hr		Light	Heavy	% Heavy	Light	Heavy	% Heavy
Huntingdale Park Road NB	West of Kangaroo Valley Road	50	50	2,559	153	42	22	2,175	189	8
Huntingdale Park Road SB		50	50	383	25	1	5	351	6	2
North Street WB	East of Kangaroo Valley Road	50	50	488	23	1	4	436	28	6
North Street EB		50	50	330	15	0	1	299	16	5

Table H-5: 2027 “Build” traffic data

Route Direction	Location	Traffic Speed		Daily Total	9 Hour (10pm - 7am)			15 Hour (7am - 10pm)		
		Day km/hr	Night km/hr		Light	Heavy	% Heavy	Light	Heavy	% Heavy
Princes Hwy NB	North of Berry	100	100	12,023	726	174	19	10,368	755	7
Princes Hwy SB		100	100	11,618	765	196	20	9,868	789	7
Princes Hwy NB	Berry Bypass	100	100	10,776	646	169	21	9,198	762	8
Princes Hwy SB		100	100	10,413	678	197	22	8,748	790	8
Queen St EB	Queen Street (between Albany St and Alexandra St)	50	50	3,074	184	49	21	2,618	222	8
Queen St WB		50	50	2,957	192	57	23	2,476	231	9
Princes Hwy NB	South of Berry	100	100	12,557	753	197	21	10,719	888	8
Princes Hwy SB		100	100	12,146	757	198	21	10,237	954	9
Princes Hwy NB On	Northern Interchange	80	80	1,247	75	18	19	1,075	78	7
Princes Hwy SB Off		60	60	1,205	79	20	20	1,023	82	7
Princes Hwy NB On	Kangaroo Valley Road Interchange	80	80	910	55	14	21	777	64	8
Princes Hwy SB Off		60	60	926	60	17	22	778	70	8
Princes Hwy NB Off		80	80	2,692	161	42	21	2,298	190	8
Princes Hwy SB On		60	60	2,659	166	43	21	2,241	209	9
Kangaroo Valley Road NB	North of North Street	61	64	1,175	56	2	4	1,050	67	6
Kangaroo Valley Road SB		60	65	1,181	52	0	1	1,070	58	5
Tannery Road NB	South of Princes Hwy	57	59	787	37	3	7	709	38	5
Tannery Road SB		56	58	772	44	2	4	684	42	6
Woodhill Mountain Road NB	North of North Street	72	79	778	31	1	2	706	40	5
Woodhill Mountain Road SB		75	77	761	35	2	5	677	48	7
Huntingdale Park Road NB	West of Kangaroo Valley Road	50	50	3,457	211	45	18	2,999	203	6
Huntingdale Park Road SB		50	50	766	49	3	5	701	13	2

Route Direction	Location	Traffic Speed		Daily Total	9 Hour (10pm - 7am)			15 Hour (7am - 10pm)		
		Day km/hr	Night km/hr		Light	Heavy	% Heavy	Light	Heavy	% Heavy
North Street WB	East of Kangaroo Valley Road	50	50	678	45	16	27	549	67	11
North Street EB		50	50	668	43	16	28	542	66	11
Kangaroo Valley Road NB	North of North Street	61	64	611	29	1	4	546	35	6
Kangaroo Valley Road SB		60	65	414	18	0	1	375	20	5

Appendix I

Predicted noise levels (operational)

Predicted noise levels (operational)

The results provided in this Appendix should be interpreted as follows.

Noise criteria for redeveloped roads and for new roads, and for daytime and night-time periods are different.

During the daytime ($L_{Aeq(15\text{hour})}$) period (**Tables I-1, I-3 and I-5**), a noise criteria of 60 dB(A) indicates that the receiver is subject to the 'redeveloped road' noise criteria. A noise criteria of 55 dB(A) indicates that the receiver is subject to the 'new road' noise criteria. During the night-time ($L_{Aeq(9\text{hour})}$) period (**Tables I-2, I-4 and I-6**), a noise criteria of 55 dB(A) indicates that the receiver is subject to the 'redeveloped road' noise criteria. A noise criteria of 50 dB(A) indicates that the receiver is subject to the 'new road' noise criteria.

Noise levels presented in the 'No Build' column in the tables below represent noise levels at receivers if the project was not to go ahead. Noise levels presented in the 'Build' column represent noise levels at receivers from all roads (including local roads) if the project was to proceed. Noise levels presented in the 'Increase' column represent the difference between the 'No Build' and 'Build' noise levels to one decimal place. Noise levels presented in the 'Project Noise Levels' column represent noise levels at receivers from the project alignment only (not including noise from local roads).

Redeveloped road noise criteria

The noise level presented in the 'Build' column should be assessed against the noise criteria column for each time period. If the noise level presented in the 'Build' column exceeds the noise criteria and the noise level presented in the 'Increase' column is 2.1 dB(A) or greater, the receiver exceeds the noise criteria and is considered eligible for the consideration of additional mitigation.

A receiver is considered to be exposed to 'acute' noise levels if the daytime noise levels presented in the 'Build' column are equal to or exceed 65 dB(A) during the daytime period or 60 dB(A) during the night-time period.

New Road Noise Criteria

The noise level presented in the 'Project Noise Levels' column should be assessed against the noise criteria column for each time period. If the noise level presented in the 'Build' column exceeds the noise criteria the receiver is considered eligible for the consideration of additional mitigation. The 'Increase' column is not applicable to new roads.

A receiver is considered to be exposed to 'acute' noise levels if the daytime noise levels presented in the 'Build' column are equal to or exceed 65 dB(A) during the daytime period or 60 dB(A) during the night-time period.

Contribution analysis

A considerable number of receivers along Queen Street have been found to be acutely affected. These receivers have been found to be acutely affected as a result of the existing contribution from Queen Street, with noise from the project providing noise levels that clearly comply with the appropriate noise criteria. Considering these receivers would not be impacted directly by the project and would actually have reduced traffic flows, hence reduced noise levels, as a result of the project, they are not considered to be eligible for the consideration of noise mitigation.

Table I-1: Predicted daytime $L_{Aeq(15hour)}$ noise levels – DGA

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq} (15hour) levels – dB(A)					2027 L _{Aeq} (15hour) noise levels – dB(A)					Predicted	
			‘No build’	‘Build’	Increase	Project noise levels	Acute	‘No build’	‘Build’	Increase	Project noise levels	Acute	Mitigation required	
1	S	60	67	64	-3.2	64		68	66	-2.5	66	Yes	Yes	
3	S	60	68	63	-5.4	63		69	64	-4.9	64			
11	W	55	52	55	2.9	55		53	57	3.7	57		Yes	
14	N	55	52	55	2.4	55		53	57	3.2	57		Yes	
23	E	55	53	57	4.9	57		54	59	5.7	59		Yes	
25	SW	55	56	64	7.9	64		57	66	8.7	66	Yes	Yes	
28	E	55	53	59	5.2	59		55	60	5.9	60		Yes	
29	E	55	53	58	5.1	58		54	60	6	60		Yes	
30	E	55	55	57	2.2	57		56	59	2.9	59		Yes	
38	SW	60	60	63	2.7	63		61	65	3.5	65	Yes	Yes	
41	E	60	59	61	2.1	61		60	63	2.9	63		Yes	
53	SW	60	57	59	2.1	59		58	61	2.9	61		Yes	
56	SW	60	59	61	2	61		60	62	2.8	62		Yes	
62	NE	60	56	59	2.7	59		57	60	3.3	60			
63	NE	60	56	59	2.3	59		57	60	2.9	60			
64	SE	60	56	58	2.2	58		57	60	2.7	60			
65	SE	60	61	57	-4	57		62	59	-3.5	58			
65	SW	60	60	57	-3.1	57		61	59	-2.7	58			
67	NW	60	65	58	-6.4	58		66	60	-5.8	60			
68	E	60	68	59	-9.2	59		69	61	-8.3	61			
69	N	55	54	56	1.6	54		55	57	1.7	55			
70	W	60	65	58	-7.9	57		66	59	-7.2	59			
71	W	55	53	54	1.2	54		54	56	1.7	56		Yes	
73	E	55	56	58	2.3	57		57	59	2.5	58		Yes	
79	W	55	69	60	-9.4	54		70	61	-8.8	56		Yes	
85	S	55	64	56	-7.6	54		65	59	-6.6	55			
95	S	55	56	56	0	55		57	58	0.8	57		Yes	

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq} (15hour) levels – dB(A)					Predicted noise 2027 L _{Aeq} (15hour) noise levels – dB(A)					Predicted Mitigation required
			'No build'	'Build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
96	N	55	58	60	2.2	57		59	62	3.2	58		Yes
97	S	55	68	60	-7.5	52		69	64	-4.9	53		
98	SW	55	71	63	-8	51		72	67	-5.2	52	Yes	
99	NW	55	52	54	2.1	54		53	56	2.8	55		
100	W	55	53	56	2.8	55		54	58	3.5	57		Yes
102	E	55	56	60	3.7	58		57	62	4.6	59		Yes
108	W	55	67	59	-7.4	51		68	63	-4.9	52		
109	W	55	50	54	4.1	54		51	56	4.7	55		
110	E	55	50	62	12.1	62		51	64	12.5	64		Yes
115	E	55	72	63	-8.6	41		73	67	-5.5	43	Yes	
116	W	55	52	57	5.6	57		53	59	6.2	58		Yes
117	E	55	50	54	3.6	54		51	56	4.2	55		
118	E	55	71	63	-8.5	41		72	67	-5.4	42	Yes	
119	E	55	55	60	4.9	58		56	62	5.8	60		Yes
125	W	55	73	65	-8.3	49	Yes	74	69	-5.3	51	Yes	
134	E	55	75	65	-9.2	41	Yes	76	69	-6.4	43	Yes	
138	SW	55	58	62	4.2	59		59	64	5.1	61		Yes
143	S	55	49	56	6.9	55		50	57	7.5	57		Yes
144	S	55	48	54	6.4	54		49	56	6.9	55		
145	W	55	50	54	4.5	54		51	56	5	55		
153	W	55	75	66	-8.4	46	Yes	76	70	-5.4	48	Yes	
163	E	55	74	65	-9.1	42	Yes	75	69	-6.2	43	Yes	
164	N	55	56	62	5.7	60		57	63	6.4	61		Yes
167	N	55	49	54	5	53		50	55	5.7	55		
171	W	55	56	62	6	60		57	63	6.7	62		Yes
179	E	55	55	61	6.3	60		56	63	7	62		Yes
181	W	55	72	64	-8.2	42		73	68	-5.1	43	Yes	Yes
183	E	55	57	62	5.7	61		58	64	6.4	62		Yes

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq} (15hour) levels – dB(A)					Predicted noise 2027 L _{Aeq} (15hour) noise levels – dB(A)					Predicted Mitigation required
			'No build'	'Build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
184	N	55	46	54	7.8	54		47	56	8.3	55		
185	E	55	72	63	-8.3	48		73	67	-5.2	49	Yes	
196	W	55	72	63	-8.4	42		73	67	-5.3	44	Yes	
198	E	55	55	62	7	61		56	64	7.6	63		Yes
199	E	55	47	56	9.1	55		48	57	9.6	57		Yes
204	W	55	72	63	-8.4	42		73	68	-5.3	44	Yes	
208	E	55	70	61	-8.3	47		71	65	-5.6	49	Yes	
209	W	55	72	64	-8.2	42		73	68	-5.1	44	Yes	
210	E	55	55	62	7.1	61		56	64	7.7	63		Yes
213	E	55	70	62	-8.3	47		71	66	-5.6	49	Yes	
219	E	55	50	60	9.9	60		51	62	10.5	61		Yes
223	E	55	70	62	-8.3	48		71	65	-5.5	49	Yes	
227	W	55	69	60	-8.4	42		70	64	-5.6	44		
228	E	55	56	63	6.7	62		57	64	7.4	63		Yes
231	W	55	72	63	-8.4	43		73	68	-5.3	44	Yes	
232	E	55	53	62	8.9	61		54	63	9.4	63		Yes
233	E	55	45	54	8.9	54		46	56	9.4	55		
237	E	55	46	55	9	55		47	56	9.3	56		Yes
240	W	55	72	63	-8.4	43		73	67	-5.3	44	Yes	
243	E	55	69	61	-8.1	48		70	64	-5.4	49		
247	E	55	70	62	-8.1	48		71	66	-5.4	49	Yes	
251	E	55	56	63	7.2	62		57	65	7.7	63	Yes	Yes
252	S	55	48	57	9.2	57		49	59	9.6	58		Yes
253	S	55	49	55	5.7	55		50	57	6.3	56		Yes
257	N	55	53	62	9	62		54	64	9.5	63		Yes
269	W	55	68	60	-8.3	43		69	64	-5.5	44		
272	E	55	53	62	9.4	62		54	64	9.8	63		Yes
274	E	55	69	61	-8.1	48		70	65	-5.4	50	Yes	

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq} (15hour) levels – dB(A)					Predicted noise 2027 L _{Aeq} (15hour) noise levels – dB(A)					Predicted Mitigation required
			'No build'	'Build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
278	W	55	67	59	-8	43		68	63	-5.3	44		
280	N	55	51	61	10.3	61		52	62	10.7	62		Yes
284	N	55	68	60	-8	49		69	63	-5.3	50		
293	N	55	56	63	7.7	62		57	65	8	64	Yes	Yes
297	N	55	70	62	-8.3	48		71	65	-5.5	49	Yes	
299	S	55	48	60	12.3	60		49	61	12.5	61		Yes
300	N	55	55	63	8	62		56	65	8.3	63	Yes	Yes
304	N	55	56	64	7.5	63		57	65	7.8	64	Yes	Yes
305	S	55	68	60	-8	44		69	64	-5.2	45		
308	N	55	70	61	-8.3	48		71	65	-5.5	49	Yes	
316	N	55	58	64	6.4	63		59	66	6.8	64	Yes	Yes
320	N	55	71	63	-8.4	48		72	66	-5.6	49	Yes	
322	S	55	68	60	-8	43		69	63	-5.2	44		
324	N	55	71	63	-8.4	48		72	66	-5.6	49	Yes	
329	N	55	56	63	7.7	63		57	65	8	64	Yes	Yes
331	S	55	70	61	-8.5	43		71	65	-5.7	45	Yes	
334	N	55	71	63	-8	49		72	68	-4.9	50	Yes	
342	N	55	56	63	7.3	62		57	65	7.7	63	Yes	Yes
344	S	55	68	59	-8.4	44		69	63	-5.6	45		
345	N	55	69	61	-7.9	49		70	65	-5.2	50	Yes	
350	N	55	52	61	8.7	60		53	62	9	61		Yes
351	N	55	71	63	-8.2	49		72	67	-5.1	50	Yes	
353	N	55	46	54	7.7	54		47	55	8	55		
354	E	55	70	61	-8.4	44		71	65	-5.4	45	Yes	
355	W	55	57	64	6.4	62		58	65	6.8	63	Yes	Yes
356	W	55	68	60	-8.2	48		69	64	-5.4	50		
362	E	55	68	60	-8.2	44		69	64	-5.4	45		
363	W	55	71	63	-8.2	48		72	67	-5.3	50	Yes	

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq} (15hour) levels – dB(A)					2027 L _{Aeq} (15hour) Predicted noise levels – dB(A)					Mitigation required
			'No build'	'Build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
367	W	55	52	61	9.1	60		52	62	9.3	61		Yes
368	E	55	69	60	-8.2	44		70	64	-5.5	45		
374	W	55	56	64	7.2	63		57	65	7.6	64	Yes	Yes
375	W	55	69	61	-8.1	48		70	64	-5.4	50		
378	E	55	69	61	-8.2	44		70	65	-5.3	45	Yes	
380	W	55	70	62	-8.2	49		71	66	-5.4	50	Yes	
382	E	55	68	60	-8.1	44		69	64	-5.3	46		
383	W	55	46	56	10.1	56		47	58	10.4	57		Yes
384	W	55	53	63	9.2	62		54	64	9.5	64		Yes
385	S	55	51	56	4.9	56		52	58	5.4	58		Yes
386	W	55	57	68	10.6	67	Yes	58	69	10.9	69	Yes	Yes
388	W	55	48	58	10.7	58		49	60	11	60		Yes
392	W	55	48	59	11.4	59		49	60	11.8	60		Yes
393	S	55	69	61	-8.2	49		70	65	-5.4	50	Yes	
394	N	55	72	63	-8.5	45		73	67	-5.4	46	Yes	Yes
399	S	55	72	64	-8.3	49		73	68	-5.2	50	Yes	
403	S	55	48	58	9.5	58		49	59	9.8	59		Yes
404	N	55	70	62	-8.2	46		71	66	-5.4	47	Yes	
408	N	55	69	61	-8.4	46		70	64	-5.6	47		
409	S	55	68	60	-7.7	50		69	64	-5.1	51		
411	N	55	69	60	-8.3	46		70	64	-5.6	47		
413	S	55	68	60	-7.7	50		69	64	-5	52		
414	S	55	49	55	6	55		50	56	6.4	56		
414	N	55	69	60	-8.3	47		70	64	-5.6	48		
415	S	55	68	60	-7.6	51		69	64	-5	52		
416	S	55	49	59	9.7	59		50	60	10.1	60		Yes
417	S	55	50	56	6	56		51	57	6.3	57		
417	N	55	68	60	-8.2	47		69	64	-5.6	48		

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq} (15hour) levels – dB(A)					2027 L _{Aeq} (15hour) Predicted noise noise levels – dB(A)					Mitigation required
			'No build'	'Build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
421	S	55	49	55	6.1	55		50	56	6.5	56		
421	S	55	69	61	-8.2	48		70	64	-5.6	49		
423	S	55	68	60	-7.5	51		69	64	-4.9	52		
425	S	55	67	60	-7.3	52		68	64	-4.7	53		
426	S	55	51	56	5.4	56		52	57	5.8	57		
426	N	55	68	60	-8	48		69	64	-5.4	49		
427	S	55	50	58	7.4	58		51	59	7.8	59		Yes
429	S	55	69	61	-7.8	52		70	65	-5.2	53	Yes	
430	S	55	53	59	6.2	59		54	61	6.7	60		Yes
434	S	55	53	59	5.9	59		54	60	6.3	60		Yes
435	E	55	53	54	1.2	54		54	55	1.5	55		
438	SE	55	62	61	-0.9	60		63	63	-0.5	61		Yes
438	SW	55	68	62	-6.2	57		69	63	-5.7	58		Yes
439	N	55	55	59	3.7	58		56	60	3.9	60		Yes
445	W	55	52	58	5.7	57		53	59	5.9	59		Yes
451	N	55	60	60	0	59		61	61	0.2	60		Yes
453	E	55	52	54	1.7	53		53	55	2.1	55		
454	E	55	53	54	1	54		54	55	1.3	55		
459	NE	55	57	54	-3.3	53		58	55	-2.9	55		
468	E	55	53	54	1.2	54		54	55	1.5	55		
469	E	55	59	57	-1.1	57		60	59	-0.8	59		
474	W	55	53	54	1.5	54		54	55	1.8	55		
489	SE	60	66	62	-3.5	62		67	64	-3.3	64		
500	SE	60	64	63	-1.1	63		65	64	-1	64		
505	S	55	53	54	1.1	54		54	55	1.2	55		
510	S	60	63	63	0.7	63		64	65	0.9	65	Yes	Yes
513	SE	60	57	60	2.4	60		59	61	2.5	61		Yes
514	S	60	59	61	2	61		60	63	2.3	63		Yes

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq} (15hour) levels – dB(A)					Predicted noise 2027 L _{Aeq} (15hour) noise levels – dB(A)					Predicted	
			'No build'	'Build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	Mitigation required	
514	S	60	57	60	2.7	60		58	61	2.9	61		Yes	
522	E	55	53	54	0.5	54		54	55	0.8	55			
523	SW	55	52	54	1.9	54		53	55	2.1	55			
527	S	60	60	62	1.9	62		61	64	2.2	64		Yes	
528	E	55	54	54	0.2	54		55	55	0.5	55			
532	S	55	54	55	0.7	55		55	56	0.9	56		Yes	
536	W	60	56	59	3	59		57	60	3.3	60			
536	S	60	60	62	2.1	62		61	63	2.2	63		Yes	
542	W	60	56	59	3.2	59		57	60	3.4	60			
542	S	60	59	61	1.8	61		60	62	2.1	62		Yes	
551	SW	55	54	55	0.8	54		55	56	0.9	56		Yes	
552	SW	55	53	54	0.7	54		54	55	1	55			
564	W	60	66	63	-3.3	63		67	64	-3.2	64			
581	N/A	60	65	63	-1.6	63		67	64	-2.4	64			
582	N/A	60	64	64	-0.7	64		66	65	-1.6	65	Yes	Yes	
583	N/A	60	64	64	0.3	64		66	65	-0.5	65	Yes	Yes	
584	N/A	60	63	65	1.3	65	Yes	65	66	0.7	66	Yes	Yes	
585	N/A	60	63	65	1.7	65	Yes	65	66	1.1	66	Yes	Yes	
586	N/A	60	63	64	1.5	64		65	66	1	65	Yes	Yes	
587	N/A	60	62	63	1.3	63		64	65	0.9	65	Yes	Yes	

Table I-2: Predicted night time $L_{Aeq(9hour)}$ noise levels – DGA

Receiver	Most affected facade	Noise criteria dB(A)	2017 $L_{Aeq(9hour)}$ noise levels – dB(A)				Predicted	2027 $L_{Aeq(9hour)}$ noise levels – dB(A)				Predicted	Mitigation required
			'No build'	'build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
1	S	55	64	60	-3.3	60	Yes	65	62	-2.9	62	Yes	Yes
3	S	55	65	59	-5.3	59		66	61	-5.1	61	Yes	Yes
11	W	50	49	52	2.4	52		50	53	2.9	53		Yes
14	N	50	49	51	2	51		50	53	2.5	53		Yes
23	E	50	49	54	4.5	54		50	55	5	55		Yes
25	SW	50	53	60	7.6	60	Yes	54	62	8.1	62	Yes	Yes
28	E	50	50	55	4.8	55		51	56	5.2	56		Yes
29	E	50	49	54	4.9	54		50	56	5.3	56		Yes
30	E	50	51	53	1.8	53		52	55	2.1	55		Yes
38	SW	55	57	59	2.3	59		58	61	2.7	61	Yes	Yes
41	E	55	56	57	1.7	57		57	59	2.2	59		Yes
53	SW	55	54	55	1.7	55		55	57	2.1	57		Yes
56	SW	55	55	57	1.7	57		56	59	2.1	59		Yes
62	NE	55	53	56	3	56		54	57	3.2	57		Yes
63	NE	55	53	56	2.5	56		54	57	2.7	57		Yes
64	SE	55	53	56	2.1	56		54	57	2.3	57		Yes
65	SE	55	58	53	-4.5	53		59	54	-4.6	54		
65	SW	55	57	53	-3.6	53		58	54	-3.6	54		
67	NW	55	61	55	-6.6	55		62	56	-6.5	56		
68	E	55	65	56	-9.5	55		66	57	-9	57		
69	N	50	49	51	1.5	50		50	52	1.3	51		Yes
70	W	55	62	54	-8.1	54		63	55	-7.9	55		
71	W	50	50	51	0.8	51		51	52	0.9	52		Yes
73	E	50	51	54	2.4	53		52	54	2.1	54		Yes
79	W	50	66	55	-10.5	51		67	57	-9.5	52		Yes
85	S	50	62	53	-8.7	50		63	55	-7.9	51		Yes

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	2027 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	Mitigation required
			'No build'	'build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
95	S	50	53	53	0.1	51		54	54	0.6	52		Yes
96	N	50	52	57	5.1	53		53	59	6.2	54		Yes
97	S	50	65	58	-6.1	48		66	61	-4.9	49	Yes	
98	SW	50	68	62	-6.3	47	Yes	69	64	-5.1	48	Yes	
99	NW	50	49	51	2.3	50		50	52	2.5	51		Yes
100	W	50	49	53	3.4	52		50	54	3.9	52		Yes
102	E	50	49	57	7.6	54		50	59	8.5	55		Yes
108	W	50	64	57	-6.1	47		64	60	-4.8	48	Yes	Yes
109	W	50	47	51	4.1	50		48	52	4.4	51		Yes
110	E	50	47	59	12.2	59		48	60	12.1	60	Yes	Yes
115	E	50	69	62	-7	37	Yes	70	64	-5.6	38	Yes	
116	W	50	47	54	6.9	53		48	55	7.2	54		Yes
117	E	50	47	50	3.6	50		48	52	3.8	51		Yes
118	E	50	68	61	-6.7	37	Yes	69	64	-5.3	38	Yes	
119	E	50	48	57	8.4	55		49	58	9.1	56		Yes
125	W	50	70	63	-6.6	46	Yes	71	65	-5.2	47	Yes	
134	E	50	71	64	-7.4	37	Yes	72	66	-6.1	38	Yes	
138	SW	50	50	58	8.2	56		51	60	9.2	57	Yes	Yes
143	S	50	44	52	8.5	52		45	54	8.8	53		Yes
144	S	50	44	51	7.3	50		45	52	7.4	51		Yes
145	W	50	46	51	4.6	50		47	52	4.7	51		Yes
153	W	50	72	65	-6.7	43	Yes	73	67	-5.3	43	Yes	
163	E	50	71	64	-7.3	38	Yes	72	66	-6	39	Yes	
164	N	50	48	58	9.8	57		49	60	10.4	57	Yes	Yes
167	N	50	45	50	5.2	50		46	51	5.5	51		Yes
171	W	50	48	58	10.1	57		49	60	10.6	58	Yes	Yes
179	E	50	48	58	10.3	57		49	60	10.9	58	Yes	Yes
181	W	50	69	62	-6.6	38	Yes	70	64	-5.2	39	Yes	Yes

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	2027 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	Mitigation required
			'No build'	'build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
183	E	50	49	59	10.1	57		50	61	10.6	58	Yes	Yes
184	N	50	42	51	9	50		43	52	9.1	51		Yes
185	E	50	68	62	-6.6	44	Yes	69	64	-5.1	45	Yes	
196	W	50	68	62	-6.7	38	Yes	69	64	-5.2	39	Yes	
198	E	50	48	59	11.1	58		49	60	11.5	59	Yes	Yes
199	E	50	41	52	11.3	52		42	53	11.4	53		Yes
204	W	50	69	62	-6.6	38	Yes	70	64	-5.2	39	Yes	
208	E	50	67	60	-6.7	43	Yes	68	62	-5.5	44	Yes	
209	W	50	69	62	-6.5	39	Yes	70	64	-5.1	39	Yes	
210	E	50	48	59	11.1	58		49	60	11.5	59	Yes	Yes
213	E	50	67	60	-6.7	44	Yes	68	63	-5.5	44	Yes	
219	E	50	43	57	13.9	56		44	58	14.1	57		Yes
223	E	50	67	60	-6.7	44	Yes	68	62	-5.3	45	Yes	
227	W	50	66	59	-6.8	39		67	61	-5.5	39	Yes	
228	E	50	48	59	10.9	58		49	61	11.4	59	Yes	Yes
231	W	50	69	62	-6.7	39	Yes	70	64	-5.3	40	Yes	
232	E	50	46	58	12.8	58		47	60	13	59	Yes	Yes
233	E	50	41	51	9.7	50		42	52	9.7	51		Yes
237	E	50	42	51	9.7	51		43	52	9.6	52		Yes
240	W	50	68	62	-6.6	39	Yes	69	64	-5.2	40	Yes	
243	E	50	66	59	-6.5	44		67	61	-5.3	45	Yes	
247	E	50	67	61	-6.5	44	Yes	68	63	-5.3	45	Yes	
251	E	50	48	60	11.4	59	Yes	49	61	11.8	59	Yes	Yes
252	S	50	43	54	10.6	53		44	55	10.6	54		Yes
253	S	50	46	52	6	51		47	53	6.1	52		Yes
257	N	50	46	59	13.2	58		47	60	13.3	59	Yes	Yes
269	W	50	65	58	-6.7	39		66	61	-5.4	40	Yes	
272	E	50	46	59	13.1	58		47	60	13.2	59	Yes	Yes

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	2027 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	Mitigation required
			'No build'	'build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
274	E	50	66	60	-6.5	45	Yes	67	62	-5.3	46	Yes	
278	W	50	64	58	-6.5	39		65	60	-5.1	40	Yes	
280	N	50	44	57	13.6	57		45	58	13.5	58		Yes
284	N	50	64	58	-6.4	45		65	60	-5.2	46	Yes	
293	N	50	48	60	11.7	59	Yes	49	61	12	59	Yes	Yes
297	N	50	67	60	-6.7	44	Yes	68	62	-5.3	45	Yes	
299	S	50	44	56	12.3	56		45	57	12.1	57		Yes
300	N	50	48	60	12.1	59	Yes	49	61	12.3	59	Yes	Yes
304	N	50	48	60	11.6	59	Yes	49	61	11.9	59	Yes	Yes
305	S	50	65	58	-6.4	40		66	60	-5.1	40	Yes	
308	N	50	66	60	-6.7	44	Yes	67	62	-5.4	45	Yes	
316	N	50	50	61	10.8	59	Yes	51	62	11.2	60	Yes	Yes
320	N	50	68	61	-6.7	44	Yes	69	63	-5.5	45	Yes	
322	S	50	64	58	-6.5	39		65	60	-5.1	40	Yes	
324	N	50	68	61	-6.7	44	Yes	69	63	-5.4	45	Yes	
329	N	50	48	60	12.1	59	Yes	49	61	12.2	59	Yes	Yes
331	S	50	66	60	-6.9	40	Yes	67	62	-5.6	40	Yes	
334	N	50	68	62	-6.4	45	Yes	69	64	-4.9	46	Yes	
342	N	50	48	60	11.5	58	Yes	49	61	11.8	59	Yes	Yes
344	S	50	65	58	-6.9	40		66	60	-5.6	41	Yes	
345	N	50	66	60	-6.4	45	Yes	67	62	-5.1	46	Yes	
350	N	50	44	57	13	56		45	58	13	57		Yes
351	N	50	68	61	-6.5	45	Yes	69	64	-5.1	46	Yes	
353	N	50	42	50	8.2	50		43	51	8.1	51		Yes
354	E	50	66	60	-6.7	40	Yes	67	62	-5.4	41	Yes	
355	W	50	49	60	11	59	Yes	50	62	11.4	59	Yes	Yes
356	W	50	65	59	-6.7	45		66	61	-5.3	46	Yes	
362	E	50	65	59	-6.6	40		66	61	-5.3	41	Yes	

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	2027 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	Mitigation required
			'No build'	'build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
363	W	50	68	61	-6.6	45	Yes	69	64	-5.2	45	Yes	
367	W	50	44	57	13.2	56		45	58	13.3	57		Yes
368	E	50	65	59	-6.6	40		66	61	-5.4	41	Yes	
374	W	50	49	60	11.7	59	Yes	50	62	12	60	Yes	Yes
375	W	50	65	59	-6.6	45		66	61	-5.3	45	Yes	
378	E	50	66	59	-6.6	40		67	62	-5.2	41	Yes	
380	W	50	67	60	-6.6	45	Yes	68	62	-5.4	46	Yes	
382	E	50	65	59	-6.5	41		66	61	-5.2	41	Yes	
383	W	50	42	53	11.2	53		43	54	11	54		Yes
384	W	50	46	59	13.4	59		47	60	13.3	60	Yes	Yes
385	S	50	48	53	4.8	53		49	54	4.7	54		Yes
386	W	50	49	64	15	64	Yes	50	65	14.9	65	Yes	Yes
388	W	50	44	55	11.3	55		45	56	11.2	56		Yes
392	W	50	43	56	12.3	56		44	57	12.2	56		Yes
393	S	50	66	60	-6.6	45	Yes	67	62	-5.3	46	Yes	
394	N	50	69	62	-6.8	41	Yes	70	64	-5.4	42	Yes	Yes
399	S	50	69	62	-6.6	45	Yes	70	65	-5.2	46	Yes	
403	S	50	45	54	9.2	54		46	55	9.2	55		Yes
404	N	50	67	60	-6.6	42	Yes	68	63	-5.2	43	Yes	
408	N	50	66	59	-6.8	42		67	61	-5.5	43	Yes	
409	S	50	65	59	-6.3	46		66	61	-5	47	Yes	
411	N	50	65	59	-6.7	42		66	61	-5.5	43	Yes	
413	S	50	65	58	-6.2	47		66	61	-5	47	Yes	
414	S	50	46	51	5.8	51		47	52	5.7	52		
414	N	50	66	59	-6.8	43		66	61	-5.5	44	Yes	
415	S	50	64	58	-6.2	47		65	60	-5	48	Yes	
416	S	50	46	56	9.3	56		47	57	9.3	57		Yes
417	S	50	47	52	5.3	52		48	53	5.3	53		

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	2027 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	Mitigation required
			'No build'	'build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
417	N	50	65	58	-6.8	43		66	61	-5.6	44	Yes	
421	S	50	46	52	6	51		46	53	6.1	52		
421	S	50	66	59	-6.6	44		67	61	-5.4	45	Yes	
423	S	50	65	58	-6.1	47		66	61	-4.9	48	Yes	
425	S	50	64	58	-6	48		65	60	-4.8	49	Yes	
426	S	50	48	53	4.7	52		49	54	4.7	53		
426	N	50	65	59	-6.6	44		66	61	-5.4	45	Yes	
427	S	50	48	54	6.8	54		49	55	6.8	55		Yes
429	S	50	66	60	-6.4	48	Yes	67	62	-5.1	49	Yes	
430	S	50	51	56	5.1	56		52	57	5.2	57		Yes
434	S	50	51	55	4.5	55		52	56	4.7	56		Yes
435	E	50	48	51	2.6	50		49	51	2.5	51		Yes
438	SE	50	60	57	-3.1	57		61	58	-3	58		Yes
438	SW	50	66	56	-9.5	53		67	57	-9.2	54		Yes
439	N	50	52	55	2.8	55		53	56	2.8	56		Yes
445	W	50	50	54	4.2	54		51	55	4.3	55		Yes
451	N	50	58	56	-2.3	55		59	56	-2.4	56		Yes
453	E	50	48	50	1.5	50		49	51	1.3	51		Yes
454	E	50	49	50	0.9	50		50	51	0.7	51		Yes
459	NE	50	51	50	-0.9	50		52	51	-1	51		Yes
468	E	50	49	50	1	50		50	51	0.9	51		Yes
469	E	50	55	54	-1.8	54		56	54	-2	54		
474	W	50	49	50	1.2	50		50	51	1	51		Yes
489	SE	55	63	59	-4	59		64	60	-4.3	59		
500	SE	55	61	59	-1.7	59		62	60	-1.9	60	Yes	Yes
505	S	50	50	50	0.6	50		51	51	0.4	51		Yes
510	S	55	59	60	0.4	60	Yes	60	60	0.1	60	Yes	Yes
513	SE	55	54	56	2.4	56		55	57	2.2	57		Yes

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	2027 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	Mitigation required
			'No build'	'build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
514	S	55	56	58	1.8	58		57	59	1.5	59		
514	S	55	54	56	2.3	56		55	57	2.1	57		Yes
522	E	50	49	50	0.6	50		50	51	0.3	51		Yes
523	SW	50	49	50	1.6	50		50	51	1.4	51		Yes
527	S	55	57	59	1.7	59		58	59	1.4	59		
528	E	50	50	50	0.2	50		51	51	0.1	51		Yes
532	S	50	50	51	0.5	51		51	52	0.4	52		Yes
536	W	55	52	55	2.7	55		53	56	2.4	56		Yes
536	S	55	56	58	1.8	58		57	59	1.6	59		
542	W	55	53	55	2.9	55		54	56	2.6	56		Yes
542	S	55	56	57	1.7	57		57	58	1.4	58		
551	SW	50	50	51	0.7	51		51	52	0.4	52		Yes
552	SW	50	50	50	0.7	50		51	51	0.5	51		Yes
564	W	55	62	59	-3.5	59		63	60	-3.8	60	Yes	Yes
581	N/A	55	59	59	0.7	59		60	60	0	60	Yes	Yes
582	N/A	55	59	60	1.4	60	Yes	60	61	0.8	61	Yes	Yes
583	N/A	55	58	60	2	60	Yes	60	61	1.5	61	Yes	Yes
584	N/A	55	58	61	2.7	61	Yes	60	62	2.1	62	Yes	Yes
585	N/A	55	58	61	2.9	61	Yes	59	62	2.4	62	Yes	Yes
586	N/A	55	58	61	2.8	61	Yes	59	61	2.3	61	Yes	Yes
587	N/A	55	57	60	2.6	60	Yes	58	60	2.1	60	Yes	Yes

Table I-3 Predicted daytime L_{Aeq(15hour)} noise levels – SMA

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq(15hour)} predicted noise levels – dB(A)					2027 L _{Aeq(15hour)} predicted noise levels – dB(A)					Additional mitigation required
			'No build'	'Build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
1	S	60	67	61	-5.6	61		68	63	-4.8	63		
3	S	60	68	60	-7.9	60		69	62	-7.3	62		
11	W	55	52	53	0.5	53		53	55	1.4	55		
14	N	55	52	52	0	52		53	54	0.9	54		
23	E	55	53	55	2.5	55		54	57	3.4	57		Yes
25	SW	55	56	61	5.5	61		57	63	6.4	63		Yes
28	E	55	53	56	2.8	56		55	58	3.6	58		Yes
29	E	55	53	55	2.7	55		54	57	3.6	57		Yes
30	E	55	55	54	-0.1	54		56	56	0.6	56		Yes
38	SW	60	60	60	0.3	60		61	62	1.2	62		
41	E	60	59	59	-0.3	59		60	61	0.6	61		
53	SW	60	57	57	-0.3	57		58	58	0.5	58		
56	SW	60	59	58	-0.3	58		60	60	0.5	60		
62	NE	60	56	57	0.5	57		57	58	1.3	58		
63	NE	60	56	56	0.1	56		57	58	1	58		
64	SE	60	56	56	-0.1	56		57	58	0.9	58		
65	SE	60	61	55	-6.2	54		62	57	-5.1	57		
65	SW	60	60	55	-5.3	54		61	57	-4.3	57		
67	NW	60	65	56	-8.6	56		66	58	-7.4	58		
68	E	60	68	57	-11.4	56		69	60	-9.8	59		
69	N	55	54	54	0.2	51		55	55	0.4	53		
70	W	60	65	55	-10.1	55		66	58	-8.8	57		
71	W	55	53	52	-1.2	52		54	54	-0.1	54		
73	E	55	56	56	0.6	55		57	58	1.1	57		Yes
79	W	55	69	59	-10	52		70	61	-9.2	54		
85	S	55	64	55	-8.8	52		65	58	-7.3	54		

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq(15hour)} predicted noise levels – dB(A)					2027 L _{Aeq(15hour)} predicted noise levels – dB(A)					Additional mitigation required
			'No build'	'Build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
95	S	55	56	55	-1.6	53		57	57	-0.3	55		
96	N	55	58	59	1.2	55		59	61	2.6	57		Yes
97	S	55	68	60	-7.7	49		69	64	-5	51		
98	SW	55	71	63	-8.1	49		72	67	-5.2	51	Yes	
99	NW	55	52	53	0.2	51		53	55	1.4	53		
100	W	55	53	54	1	53		54	57	2.2	55		
102	E	55	56	59	2.5	55		57	61	3.8	57		Yes
108	W	55	67	59	-7.7	48		68	63	-5	50		
109	W	55	50	52	2.1	51		51	55	3.3	53		
110	E	55	50	60	9.8	60		51	62	10.8	62		Yes
115	E	55	72	63	-8.6	39		73	67	-5.5	41	Yes	
116	W	55	52	55	3.7	54		53	58	4.9	56		Yes
117	E	55	50	52	1.6	51		51	54	2.7	53		
118	E	55	71	63	-8.5	39		72	67	-5.4	40	Yes	
119	E	55	55	58	3.4	56		56	61	4.7	58		Yes
125	W	55	73	65	-8.3	47	Yes	74	69	-5.3	49	Yes	
134	E	55	75	65	-9.2	39	Yes	76	69	-6.4	41	Yes	
138	SW	55	58	61	3	57		59	63	4.2	59		Yes
143	S	55	49	54	4.9	53		50	56	6.1	55		
144	S	55	48	52	4.3	52		49	55	5.5	54		
145	W	55	50	52	2.4	52		51	54	3.5	54		
153	W	55	75	66	-8.4	44	Yes	76	70	-5.4	46	Yes	
163	E	55	74	65	-9.1	40	Yes	75	69	-6.2	41	Yes	
164	N	55	56	60	4.1	58		57	62	5.3	60		Yes
167	N	55	49	52	2.9	51		50	54	4.2	53		
171	W	55	56	60	4.4	58		57	62	5.6	60		Yes
179	E	55	55	60	4.7	58		56	62	5.9	60		Yes
181	W	55	72	63	-8.3	40		73	68	-5.2	42	Yes	Yes

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq(15hour)} predicted noise levels – dB(A)					2027 L _{Aeq(15hour)} predicted noise levels – dB(A)					Additional mitigation required
			'No build'	'Build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
183	E	55	57	61	4.1	59		58	63	5.3	61		Yes
184	N	55	46	52	5.7	51		47	54	6.8	54		
185	E	55	72	63	-8.3	45		73	67	-5.2	47	Yes	
196	W	55	72	63	-8.4	40		73	67	-5.3	42	Yes	
198	E	55	55	61	5.3	59		56	63	6.4	61		Yes
199	E	55	47	54	7	53		48	56	8.1	55		
204	W	55	72	63	-8.4	40		73	68	-5.3	42	Yes	
208	E	55	70	61	-8.4	45		71	65	-5.6	47	Yes	
209	W	55	72	64	-8.2	40		73	68	-5.1	42	Yes	
210	E	55	55	61	5.4	59		56	63	6.5	61		Yes
213	E	55	70	62	-8.4	45		71	66	-5.6	47	Yes	
219	E	55	50	58	7.8	57		51	60	9.1	59		Yes
223	E	55	70	62	-8.3	46		71	65	-5.5	48	Yes	
227	W	55	69	60	-8.5	40		70	64	-5.6	42		
228	E	55	56	61	5	59		57	63	6.2	61		Yes
231	W	55	72	63	-8.4	41		73	68	-5.3	42	Yes	
232	E	55	53	60	7	59		54	62	8	61		Yes
233	E	55	45	52	7	52		46	54	7.9	54		
237	E	55	46	53	6.8	52		47	55	7.7	54		
240	W	55	72	63	-8.4	40		73	67	-5.3	42	Yes	
243	E	55	69	61	-8.2	46		70	64	-5.4	48		
247	E	55	70	62	-8.2	46		71	66	-5.4	48	Yes	
251	E	55	56	62	5.6	60		57	64	6.6	62		Yes
252	S	55	48	55	7	54		49	57	8.1	56		Yes
253	S	55	49	53	3.6	52		50	55	4.8	54		
257	N	55	53	61	7.4	60		54	63	8.2	62		Yes
269	W	55	68	60	-8.3	41		69	64	-5.5	43		
272	E	55	53	61	7.8	60		54	62	8.5	61		Yes

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq(15hour)} predicted noise levels – dB(A)					2027 L _{Aeq(15hour)} predicted noise levels – dB(A)					Additional mitigation required
			'No build'	'Build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
274	E	55	69	61	-8.2	46		70	65	-5.4	48	Yes	
278	W	55	67	59	-8.1	41		68	63	-5.3	43		
280	N	55	51	59	8.6	59		52	61	9.3	60		Yes
284	N	55	68	60	-8.1	47		69	63	-5.4	48		
293	N	55	56	62	6.4	61		57	64	7.1	62		Yes
297	N	55	70	61	-8.4	46		71	65	-5.6	48	Yes	
299	S	55	48	58	10.5	58		49	60	11.1	60		Yes
300	N	55	55	62	6.7	61		56	64	7.4	62		Yes
304	N	55	56	62	6.3	61		57	64	6.9	62		Yes
305	S	55	68	60	-8.1	41		69	63	-5.3	43		
308	N	55	70	61	-8.3	46		71	65	-5.6	48	Yes	
316	N	55	58	63	5.3	61		59	65	6	63	Yes	Yes
320	N	55	71	62	-8.5	46		72	66	-5.6	48	Yes	
322	S	55	68	60	-8	41		69	63	-5.2	43		
324	N	55	71	62	-8.5	46		72	66	-5.6	48	Yes	
329	N	55	56	62	6.6	61		57	64	7.2	62		Yes
331	S	55	70	61	-8.5	41		71	65	-5.7	43	Yes	
334	N	55	71	63	-8	47		72	67	-5	48	Yes	
342	N	55	56	62	6.3	61		57	64	6.8	62		Yes
344	S	55	68	59	-8.4	42		69	63	-5.6	43		
345	N	55	69	61	-8	47		70	65	-5.2	49	Yes	
350	N	55	52	60	7.7	59		53	61	8.1	60		Yes
351	N	55	71	63	-8.2	47		72	67	-5.2	48	Yes	
353	N	55	46	52	6.2	52		47	54	6.8	53		
354	E	55	70	61	-8.4	42		71	65	-5.5	44	Yes	
355	W	55	57	63	5.4	61		58	64	6.1	62		Yes
356	W	55	68	60	-8.3	46		69	64	-5.5	48		
362	E	55	68	60	-8.2	42		69	64	-5.4	44		

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq(15hour)} predicted noise levels – dB(A)					2027 L _{Aeq(15hour)} predicted noise levels – dB(A)					Additional mitigation required
			'No build'	'Build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
363	W	55	71	63	-8.2	46		72	67	-5.3	48	Yes	
367	W	55	52	59	7.9	59		52	61	8.4	60		Yes
368	E	55	69	60	-8.3	42		70	64	-5.5	44		
374	W	55	56	62	6	61		57	64	6.7	62		Yes
375	W	55	69	60	-8.2	46		70	64	-5.5	48		
378	E	55	69	61	-8.3	42		70	65	-5.3	44	Yes	
380	W	55	70	62	-8.3	46		71	66	-5.5	48	Yes	
382	E	55	68	60	-8.1	42		69	64	-5.3	44		
383	W	55	46	54	8.1	54		47	56	8.9	56		Yes
384	W	55	53	61	7.3	60		54	62	8.1	62		Yes
385	S	55	51	54	2.7	54		52	56	3.8	56		Yes
386	W	55	57	65	8.3	65	Yes	58	67	9.2	67	Yes	Yes
388	W	55	48	56	8.5	56		49	58	9.4	58		Yes
392	W	55	48	57	9.1	57		49	59	10.1	59		Yes
393	S	55	69	61	-8.2	47		70	65	-5.5	48	Yes	
394	N	55	72	63	-8.5	42		73	67	-5.4	44	Yes	Yes
399	S	55	72	64	-8.3	47		73	68	-5.2	49	Yes	
403	S	55	48	56	7.3	55		49	58	8.1	57		Yes
404	N	55	70	62	-8.2	43		71	66	-5.4	45	Yes	
408	N	55	69	61	-8.4	44		70	64	-5.7	45		
409	S	55	68	60	-7.9	48		69	64	-5.2	50		
411	N	55	69	60	-8.4	44		70	64	-5.6	46		
413	S	55	68	60	-7.9	48		69	64	-5.1	50		
414	S	55	49	53	3.7	52		50	55	4.8	54		
414	N	55	69	60	-8.4	44		70	64	-5.6	46		
415	S	55	68	60	-7.8	49		69	64	-5.1	50		
416	S	55	49	57	7.4	57		50	59	8.4	59		Yes
417	S	55	50	54	3.8	53		51	56	4.7	55		

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq(15hour)} predicted noise levels – dB(A)					2027 L _{Aeq(15hour)} predicted noise levels – dB(A)					Additional mitigation required
			'No build'	'Build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
417	N	55	68	60	-8.3	45		69	64	-5.6	46		
421	S	55	49	53	3.9	53		50	55	4.9	54		
421	S	55	69	61	-8.3	45		70	64	-5.6	47		
423	S	55	68	60	-7.7	49		69	64	-5	51		
425	S	55	67	60	-7.6	50		68	63	-4.9	52		
426	S	55	51	54	3.2	53		52	56	4.2	55		
426	N	55	68	60	-8.1	46		69	64	-5.5	47		
427	S	55	50	56	5.2	55		51	57	6.1	57		Yes
429	S	55	69	61	-8	50		70	65	-5.3	52	Yes	
430	S	55	53	57	4.1	57		54	59	5	59		Yes
434	S	55	53	57	3.7	56		54	59	4.6	58		Yes
435	E	55	53	52	-0.8	51		54	54	-0.1	53		
438	SE	55	62	60	-2.3	58		63	61	-1.9	60		Yes
438	SW	55	68	62	-6.2	54		69	63	-6.1	56		Yes
439	N	55	55	57	1.7	56		56	58	2.2	58		Yes
445	W	55	52	56	3.6	55		53	57	4.1	57		Yes
451	N	55	60	59	-1.3	56		61	60	-1.2	58		Yes
453	E	55	52	51	-0.6	51		53	53	0.4	53		
454	E	55	53	51	-1.3	51		54	53	-0.4	53		
459	NE	55	57	52	-5	51		58	54	-4.4	53		
468	E	55	53	52	-1.1	51		54	53	-0.2	53		
469	E	55	59	55	-3.2	55		60	57	-2.5	57		
474	W	55	53	52	-0.8	52		54	54	0.1	53		
489	SE	60	66	60	-5.8	60		67	62	-5.2	62		
500	SE	60	64	61	-3.5	60		65	62	-2.9	62		
505	S	55	53	52	-1.2	51		54	53	-0.5	53		
510	S	60	63	61	-1.6	61		64	63	-0.9	63		
513	SE	60	57	57	0	57		59	59	0.6	59		

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq(15hour)} predicted noise levels – dB(A)					2027 L _{Aeq(15hour)} predicted noise levels – dB(A)					Additional mitigation required
			'No build'	'Build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
514	S	60	59	59	-0.4	59		60	61	0.5	61		
514	S	60	57	57	0.3	57		58	59	1	59		
522	E	55	53	51	-1.9	51		54	53	-1	53		
523	SW	55	52	52	-0.4	51		53	54	0.4	53		
527	S	60	60	60	-0.5	60		61	62	0.3	62		
528	E	55	54	51	-2.1	51		55	53	-1.3	53		
532	S	55	54	52	-1.7	52		55	54	-0.8	54		
536	W	60	56	56	0.6	56		57	58	1.5	58		
536	S	60	60	59	-0.3	59		61	61	0.4	61		
542	W	60	56	57	0.9	57		57	59	1.6	58		
542	S	60	59	59	-0.5	59		60	60	0.3	60		
551	SW	55	54	52	-1.6	52		55	54	-0.8	54		
552	SW	55	53	52	-1.7	52		54	53	-0.8	53		
564	W	60	66	60	-5.6	60		67	62	-4.9	62		
581	N/A	60	65	61	-3.9	61		67	63	-4.2	62		
582	N/A	60	64	61	-3	61		66	63	-3.4	63		
583	N/A	60	64	62	-2.1	62		66	64	-2.2	64		
584	N/A	60	63	62	-1	62		65	64	-1	64		
585	N/A	60	63	62	-0.7	62		65	64	-0.7	64		
586	N/A	60	63	62	-0.9	62		65	64	-0.8	64		
587	N/A	60	62	61	-1	61		64	63	-0.8	63		

Table I-4 Predicted night time $L_{Aeq(9hour)}$ noise levels – SMA

Receiver	Most affected facade	Noise criteria dB(A)	2017 $L_{Aeq(9hour)}$ noise levels – dB(A)				Predicted	2027 $L_{Aeq(9hour)}$ noise levels – dB(A)				Predicted	Additional mitigation required
			'No Build'	'Build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
1	S	55	64	58	-5.9	58		65	59	-5.5	59		
3	S	55	65	57	-8	57		66	58	-7.7	58		
11	W	50	49	49	-0.3	49		50	50	0.3	50		
14	N	50	49	48	-0.7	48		50	50	-0.2	50		
23	E	50	49	51	1.8	51		50	53	2.3	53		Yes
25	SW	50	53	58	4.9	58		54	59	5.5	59		Yes
28	E	50	50	52	2.1	52		51	54	2.6	54		Yes
29	E	50	49	51	2.2	51		50	53	2.7	53		Yes
30	E	50	51	50	-0.9	50		52	52	-0.5	52		Yes
38	SW	55	57	56	-0.4	56		58	58	0.1	58		
41	E	55	56	55	-1	55		57	56	-0.5	56		
53	SW	55	54	53	-1	53		55	54	-0.5	54		
56	SW	55	55	55	-0.9	55		56	56	-0.4	56		
62	NE	55	53	54	0.7	54		54	55	1.1	55		
63	NE	55	53	54	0.2	54		54	55	0.9	55		
64	SE	55	53	53	-0.3	53		54	55	0.6	55		
65	SE	55	58	51	-7	51		59	53	-6	53		
65	SW	55	57	51	-6.2	51		58	53	-5.1	53		
67	NW	55	61	52	-9.1	52		62	55	-7.9	54		
68	E	55	65	53	-11.9	52		66	56	-10.3	55		
69	N	50	49	49	-0.6	47		50	50	-0.2	49		
70	W	55	62	51	-10.7	51		63	54	-9.4	54		
71	W	50	50	48	-1.9	48		51	50	-0.8	50		
73	E	50	51	51	0.1	51		52	53	0.7	53		Yes
79	W	50	66	55	-11.3	48		67	57	-10	50		
85	S	50	62	52	-9.9	48		63	54	-8.6	50		

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	2027 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	Additional mitigation required
			'No Build'	'Build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
95	S	50	53	51	-1.6	49		54	54	-0.2	51		Yes
96	N	50	52	56	4	51		53	58	5.8	53		Yes
97	S	50	65	58	-6.2	45		66	61	-5	47	Yes	
98	SW	50	68	61	-6.4	45	Yes	69	64	-5.1	47	Yes	
99	NW	50	49	49	0.2	47		50	51	1.4	49		
100	W	50	49	51	1.5	49		50	53	2.9	51		Yes
102	E	50	49	55	6.4	52		50	58	7.9	53		Yes
108	W	50	64	57	-6.3	44		64	60	-4.9	46	Yes	Yes
109	W	50	47	49	1.9	47		48	51	3.2	49		
110	E	50	47	56	9.5	56		48	58	10.6	58		Yes
115	E	50	69	62	-7	35	Yes	70	64	-5.6	37	Yes	
116	W	50	47	52	4.8	50		48	54	6.1	52		Yes
117	E	50	47	48	1.4	47		48	50	2.6	49		
118	E	50	68	61	-6.8	34	Yes	69	64	-5.3	36	Yes	
119	E	50	48	55	6.7	52		49	57	8.3	54		Yes
125	W	50	70	63	-6.6	43	Yes	71	65	-5.3	45	Yes	
134	E	50	71	64	-7.4	35	Yes	72	66	-6.1	37	Yes	
138	SW	50	50	57	6.9	53		51	60	8.6	55	Yes	Yes
143	S	50	44	50	6.3	49		45	53	7.6	51		Yes
144	S	50	44	49	5.1	48		45	51	6.3	50		
145	W	50	46	48	2.3	48		47	51	3.4	50		
153	W	50	72	65	-6.7	40	Yes	73	67	-5.3	42	Yes	
163	E	50	71	64	-7.3	35	Yes	72	66	-6	37	Yes	
164	N	50	48	56	8.1	54		49	59	9.6	56		Yes
167	N	50	45	48	3	47		46	50	4.2	49		
171	W	50	48	56	8.4	54		49	59	9.7	56		Yes
179	E	50	48	56	8.5	54		49	59	10	56		Yes
181	W	50	69	62	-6.6	36	Yes	70	64	-5.2	38	Yes	Yes

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	2027 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	Additional mitigation required
			‘No Build’	‘Build’	Increase	Project noise levels	Acute	‘No build’	‘Build’	Increase	Project noise levels	Acute	
183	E	50	49	57	8.4	55		50	60	9.8	57	Yes	Yes
184	N	50	42	49	6.7	48		43	51	7.9	50		
185	E	50	68	62	-6.6	41	Yes	69	64	-5.1	43	Yes	
196	W	50	68	62	-6.7	36	Yes	69	64	-5.2	38	Yes	
198	E	50	48	57	9.2	55		49	59	10.6	57		Yes
199	E	50	41	50	9	49		42	52	10.2	51		Yes
204	W	50	69	62	-6.6	36	Yes	70	64	-5.2	38	Yes	
208	E	50	67	60	-6.7	41	Yes	68	62	-5.5	43	Yes	
209	W	50	69	62	-6.5	36	Yes	70	64	-5.1	38	Yes	
210	E	50	48	57	9.2	55		49	59	10.6	57		Yes
213	E	50	67	60	-6.7	41	Yes	68	63	-5.5	43	Yes	
219	E	50	43	54	11.6	54		44	57	12.9	56		Yes
223	E	50	67	60	-6.7	42	Yes	68	62	-5.3	43	Yes	
227	W	50	66	59	-6.8	36		67	61	-5.5	38	Yes	
228	E	50	48	58	9.1	56		49	60	10.5	58	Yes	Yes
231	W	50	69	62	-6.7	36	Yes	70	64	-5.3	38	Yes	
232	E	50	46	56	10.7	55		47	59	11.9	57		Yes
233	E	50	41	48	7.5	48		42	50	8.5	50		
237	E	50	42	49	7.2	49		43	51	8.3	50		
240	W	50	68	62	-6.6	36	Yes	69	64	-5.2	38	Yes	
243	E	50	66	59	-6.5	42		67	61	-5.3	44	Yes	
247	E	50	67	60	-6.6	42	Yes	68	63	-5.3	44	Yes	
251	E	50	48	58	9.6	56		49	60	10.9	58	Yes	Yes
252	S	50	43	51	8.2	51		44	53	9.3	53		Yes
253	S	50	46	49	3.7	49		47	52	4.8	51		Yes
257	N	50	46	57	11.3	56		47	59	12.3	58		Yes
269	W	50	65	58	-6.7	37		66	61	-5.4	39	Yes	
272	E	50	46	57	11.3	56		47	59	12.2	58		Yes

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	2027 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	Additional mitigation required
			‘No Build’	‘Build’	Increase	Project noise levels	Acute	‘No build’	‘Build’	Increase	Project noise levels	Acute	
274	E	50	66	59	-6.6	42		67	62	-5.3	44	Yes	
278	W	50	64	58	-6.5	37		65	60	-5.2	38	Yes	
280	N	50	44	55	11.6	55		45	57	12.4	56		Yes
284	N	50	64	58	-6.5	43		65	60	-5.3	44	Yes	
293	N	50	48	58	10.3	57		49	60	11.2	58	Yes	Yes
297	N	50	67	60	-6.7	42	Yes	68	62	-5.4	44	Yes	
299	S	50	44	54	10.3	54		45	56	10.9	56		Yes
300	N	50	48	58	10.7	57		49	60	11.6	58	Yes	Yes
304	N	50	48	59	10.4	57		49	60	11.2	58	Yes	Yes
305	S	50	65	58	-6.4	37		66	60	-5.2	39	Yes	
308	N	50	66	60	-6.7	42	Yes	67	62	-5.5	44	Yes	
316	N	50	50	59	9.7	58		51	61	10.6	59	Yes	Yes
320	N	50	68	61	-6.8	42	Yes	69	63	-5.5	44	Yes	
322	S	50	64	58	-6.5	37		65	60	-5.1	38	Yes	
324	N	50	68	61	-6.8	42	Yes	69	63	-5.4	44	Yes	
329	N	50	48	59	10.9	57		49	60	11.5	58	Yes	Yes
331	S	50	66	60	-6.9	37	Yes	67	62	-5.6	39	Yes	
334	N	50	68	62	-6.4	43	Yes	69	64	-4.9	44	Yes	
342	N	50	48	58	10.4	57		49	60	11.2	58	Yes	Yes
344	S	50	65	58	-6.9	38		66	60	-5.6	39	Yes	
345	N	50	66	60	-6.4	43	Yes	67	62	-5.1	45	Yes	
350	N	50	44	56	11.9	55		45	57	12.4	56		Yes
351	N	50	68	61	-6.5	43	Yes	69	64	-5.1	44	Yes	
353	N	50	42	49	6.5	48		43	50	7.1	50		
354	E	50	66	60	-6.8	38	Yes	67	62	-5.4	39	Yes	
355	W	50	49	59	9.9	57		50	61	10.9	58	Yes	Yes
356	W	50	65	59	-6.7	42		66	61	-5.4	44	Yes	
362	E	50	65	59	-6.6	38		66	61	-5.3	40	Yes	

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	2027 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	Additional mitigation required
			‘No Build’	‘Build’	Increase	Project noise levels	Acute	‘No build’	‘Build’	Increase	Project noise levels	Acute	
363	W	50	68	61	-6.6	42	Yes	69	64	-5.2	44	Yes	
367	W	50	44	56	12	55		45	57	12.6	56		Yes
368	E	50	65	59	-6.7	38		66	61	-5.4	39	Yes	
374	W	50	49	59	10.3	57		50	61	11.2	59	Yes	Yes
375	W	50	65	59	-6.6	42		66	61	-5.4	44	Yes	
378	E	50	66	59	-6.6	38		67	62	-5.2	40	Yes	
380	W	50	67	60	-6.7	42	Yes	68	62	-5.4	44	Yes	
382	E	50	65	59	-6.5	38		66	61	-5.2	40	Yes	
383	W	50	42	51	8.9	50		43	52	9.7	52		Yes
384	W	50	46	57	11.3	57		47	59	12.1	59		Yes
385	S	50	48	51	2.3	50		49	53	3.3	52		Yes
386	W	50	49	61	12.4	61	Yes	50	63	13.3	63	Yes	Yes
388	W	50	44	52	8.9	52		45	54	9.8	54		Yes
392	W	50	43	53	9.8	53		44	55	10.7	55		Yes
393	S	50	66	60	-6.6	43	Yes	67	62	-5.4	44	Yes	
394	N	50	69	62	-6.8	38	Yes	70	64	-5.4	40	Yes	Yes
399	S	50	69	62	-6.7	43	Yes	70	65	-5.2	45	Yes	
403	S	50	45	52	6.6	52		46	54	7.7	54		Yes
404	N	50	67	60	-6.6	39	Yes	68	63	-5.2	41	Yes	
408	N	50	66	59	-6.8	40		67	61	-5.5	41	Yes	
409	S	50	65	59	-6.4	44		66	61	-5.1	46	Yes	
411	N	50	65	59	-6.8	40		66	61	-5.5	42	Yes	
413	S	50	65	58	-6.3	44		66	61	-5.1	46	Yes	
414	S	50	46	49	3.3	49		47	51	4.2	50		
414	N	50	66	59	-6.8	40		66	61	-5.5	42	Yes	
415	S	50	64	58	-6.3	45		65	60	-5.1	46	Yes	
416	S	50	46	53	6.7	53		47	55	7.7	55		Yes
417	S	50	47	50	2.8	50		48	52	3.8	51		

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	2027 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	Additional mitigation required
			'No Build'	'Build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
417	N	50	65	58	-6.8	41		66	61	-5.6	42	Yes	
421	S	50	46	49	3.6	49		46	51	4.7	51		
421	S	50	66	59	-6.7	41		67	61	-5.5	43	Yes	
423	S	50	65	58	-6.2	45		66	61	-4.9	47	Yes	
425	S	50	64	58	-6.2	46		65	60	-4.9	48	Yes	
426	S	50	48	50	2.2	50		49	52	3.2	52		
426	N	50	65	58	-6.7	42		66	61	-5.4	43	Yes	
427	S	50	48	52	4.2	52		49	54	5.2	54		Yes
429	S	50	66	60	-6.6	46	Yes	67	62	-5.2	48	Yes	
430	S	50	51	53	2.6	53		52	55	3.6	55		Yes
434	S	50	51	53	2	53		52	55	3	55		Yes
435	E	50	48	48	0.2	48		49	50	0.9	50		
438	SE	50	60	55	-5.4	54		61	57	-4.5	56		Yes
438	SW	50	66	55	-10.6	50		67	57	-9.8	52		Yes
439	N	50	52	53	0.3	52		53	54	0.9	54		Yes
445	W	50	50	51	1.8	51		51	53	2.5	53		Yes
451	N	50	58	53	-4.6	53		59	55	-4	54		Yes
453	E	50	48	47	-1	47		49	49	-0.2	49		
454	E	50	49	48	-1.6	47		50	49	-0.8	49		
459	NE	50	51	48	-3.1	47		52	49	-2.4	49		
468	E	50	49	48	-1.5	47		50	49	-0.7	49		
469	E	50	55	51	-4.4	51		56	53	-3.6	53		
474	W	50	49	48	-1.4	48		50	50	-0.5	49		
489	SE	55	63	56	-6.6	56		64	58	-6.1	58		
500	SE	55	61	57	-4.3	57		62	58	-3.7	58		
505	S	50	50	48	-2	47		51	49	-1.2	49		
510	S	55	59	57	-2.3	57		60	59	-1.6	59		
513	SE	55	54	53	-0.3	53		55	55	0.5	55		

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	2027 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	Additional mitigation required
			'No Build'	'Build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
514	S	55	56	55	-0.9	55		57	57	-0.2	57		
514	S	55	54	53	-0.4	53		55	55	0.4	55		
522	E	50	49	47	-2.1	47		50	49	-1.3	49		
523	SW	50	49	48	-1	48		50	50	-0.1	49		
527	S	55	57	56	-1	56		58	58	-0.3	58		
528	E	50	50	47	-2.4	47		51	49	-1.5	49		
532	S	50	50	48	-2.1	48		51	50	-1.2	50		
536	W	55	52	52	-0.1	52		53	54	0.7	54		
536	S	55	56	55	-0.9	55		57	57	-0.1	57		
542	W	55	53	53	0.2	53		54	54	0.9	54		
542	S	55	56	55	-1	55		57	56	-0.3	56		
551	SW	50	50	48	-2	48		51	50	-1.2	50		
552	SW	50	50	48	-2	48		51	49	-1.1	49		
564	W	55	62	56	-6	56		63	58	-5.3	58		
581	N/A	55	59	57	-2	57		60	59	-1.6	59		
582	N/A	55	59	57	-1.3	57		60	59	-0.8	59		
583	N/A	55	58	58	-0.6	58		60	60	-0.1	60	Yes	Yes
584	N/A	55	58	58	0	58		60	60	0.5	60	Yes	Yes
585	N/A	55	58	58	0.2	58		59	60	0.8	60	Yes	Yes
586	N/A	55	58	58	0.1	58		59	60	0.7	60	Yes	Yes
587	N/A	55	57	57	-0.1	57		58	59	0.6	59		

Table I-5: Predicted daytime $L_{Aeq(15\text{hour})}$ noise – SMA with North Street and Huntingdale Park Road noise barriers

Receiver	Most affected facade	Noise criteria dB(A)	2017 $L_{Aeq(15\text{hour})}$ levels – dB(A)					2027 $L_{Aeq(15\text{hour})}$ noise levels – dB(A)					Additional mitigation required
			'No Build'	'Build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
1	S	60	67	61	-5.6	61		68	63	-4.8	63		
3	S	60	68	60	-7.9	60		69	62	-7.3	62		
11	W	55	52	53	0.5	53		53	55	1.3	55		
14	N	55	52	52	0	52		53	54	0.9	54		
23	E	55	53	55	2.5	55		54	57	3.4	57		Yes
25	SW	55	56	61	5.5	61		57	63	6.4	63		Yes
28	E	55	53	56	2.8	56		55	58	3.6	58		Yes
29	E	55	53	55	2.7	55		54	57	3.6	57		Yes
30	E	55	55	54	-0.1	54		56	56	0.6	56		Yes
38	SW	60	60	60	0.3	60		61	62	1.2	62		
41	E	60	59	59	-0.3	59		60	61	0.6	61		
53	SW	60	57	57	-0.3	57		58	58	0.6	58		
56	SW	60	59	58	-0.3	58		60	60	0.5	60		
62	NE	60	56	57	0.5	57		57	58	1.3	58		
63	NE	60	56	56	0.1	56		57	58	1	58		
64	SE	60	56	56	-0.1	56		57	58	0.9	58		
65	SE	60	61	55	-6.4	54		62	57	-5.3	56		
65	SW	60	60	55	-5.5	54		61	57	-4.6	56		
67	NW	60	65	56	-8.9	55		66	58	-7.6	58		
68	E	60	68	57	-11.6	56		69	59	-10	59		
69	N	55	54	54	0.2	51		55	55	0.4	53		
70	W	60	65	55	-10.3	55		66	57	-9	57		
71	W	55	53	52	-1.2	52		54	54	-0.1	54		
73	E	55	56	56	0.6	55		57	58	1.1	57		Yes
79	W	55	69	59	-10.1	52		70	61	-9.4	54		
85	S	55	64	55	-9.3	50		65	57	-7.8	52		

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq} (15hour) Predicted noise levels – dB(A)					2027 L _{Aeq} (15hour) Predicted noise levels – dB(A)					Additional mitigation required
			'No Build'	'Build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
95	S	55	56	54	-2.5	51		57	56	-1.2	53		
96	N	55	58	58	0.4	52		59	61	1.8	54		
97	S	55	68	60	-7.8	48		69	64	-5.1	50		
98	SW	55	71	63	-8.1	48		72	67	-5.2	50	Yes	
99	NW	55	52	51	-1.2	49		53	53	0.1	52		
100	W	55	53	53	-0.1	51		54	56	1.2	53		
102	E	55	56	58	1.3	52		57	60	2.7	54		
108	W	55	67	59	-7.7	47		68	63	-5.1	49		
109	W	55	50	49	-0.8	47		51	52	0.5	49		
110	E	55	50	54	3.6	54		51	56	4.7	56		Yes
115	E	55	72	63	-8.6	39		73	67	-5.5	40	Yes	
116	W	55	52	53	1.7	51		53	56	2.9	53		
117	E	55	50	50	-0.4	49		51	52	0.8	51		
118	E	55	71	63	-8.5	38		72	67	-5.4	40	Yes	
119	E	55	55	56	1.4	52		56	59	2.9	54		
125	W	55	73	65	-8.3	46	Yes	74	69	-5.3	48	Yes	
134	E	55	75	65	-9.2	39	Yes	76	69	-6.4	40	Yes	
138	SW	55	58	59	1.2	52		59	61	2.7	54		
143	S	55	49	50	0.9	46		50	52	2.3	49		
144	S	55	48	48	0.4	46		49	51	1.8	48		
145	W	55	50	50	0.1	49		51	52	1.1	51		
153	W	55	75	66	-8.4	43	Yes	76	70	-5.4	45	Yes	
163	E	55	74	65	-9.1	39	Yes	75	69	-6.2	41	Yes	
164	N	55	56	57	1.4	51		57	60	2.8	53		
167	N	55	49	48	-0.9	46		50	50	0.6	48		
171	W	55	56	57	1.4	51		57	59	2.8	53		
179	E	55	55	57	1.4	51		56	59	2.9	53		
181	W	55	72	63	-8.3	40		73	68	-5.2	41	Yes	

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq} (15hour) Predicted noise levels – dB(A)					2027 L _{Aeq} (15hour) Predicted noise levels – dB(A)					Additional mitigation required
			'No Build'	'Build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
183	E	55	57	58	1.2	52		58	60	2.6	54		
184	N	55	46	48	1.5	46		47	50	2.8	48		
185	E	55	72	63	-8.4	44		73	67	-5.2	46	Yes	
196	W	55	72	63	-8.4	40		73	67	-5.3	41	Yes	
198	E	55	55	57	1.6	52		56	59	3	54		
199	E	55	47	49	2.6	47		48	52	3.9	49		
204	W	55	72	63	-8.4	40		73	68	-5.3	41	Yes	
208	E	55	70	61	-8.4	44		71	65	-5.6	45	Yes	
209	W	55	72	64	-8.2	40		73	68	-5.1	42	Yes	
210	E	55	55	57	1.5	52		56	59	2.9	54		
213	E	55	70	62	-8.4	44		71	66	-5.6	45	Yes	
219	E	55	50	53	2.6	49		51	55	4	51		
223	E	55	70	62	-8.4	44		71	65	-5.6	46	Yes	
227	W	55	69	60	-8.5	40		70	64	-5.6	42		
228	E	55	56	57	1.3	52		57	60	2.8	54		
231	W	55	72	63	-8.4	40		73	68	-5.3	42	Yes	
232	E	55	53	55	2.2	51		54	57	3.5	53		
233	E	55	45	49	3.3	48		46	51	4.4	49		
237	E	55	46	49	2.9	48		47	51	3.9	50		
240	W	55	72	63	-8.4	40		73	67	-5.3	42	Yes	
243	E	55	69	61	-8.2	44		70	64	-5.4	46		
247	E	55	70	62	-8.2	44		71	66	-5.5	46	Yes	
251	E	55	56	57	1.5	52		57	60	2.8	54		
252	S	55	48	50	1.7	48		49	52	3	50		
253	S	55	49	49	-0.8	47		50	51	0.6	49		
257	N	55	53	56	2.3	52		54	58	3.6	54		
269	W	55	68	60	-8.3	41		69	64	-5.5	42		
272	E	55	53	55	2.3	52		54	57	3.5	53		

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq} (15hour) Predicted noise levels – dB(A)					2027 L _{Aeq} (15hour) Predicted noise levels – dB(A)					Additional mitigation required
			'No Build'	'Build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
274	E	55	69	61	-8.2	45		70	65	-5.4	46	Yes	
278	W	55	67	59	-8.1	41		68	63	-5.3	42		
280	N	55	51	53	2.8	51		52	56	4	53		
284	N	55	68	59	-8.2	45		69	63	-5.4	47		
293	N	55	56	58	1.9	52		57	60	3.2	54		
297	N	55	70	61	-8.4	45		71	65	-5.6	46	Yes	
299	S	55	48	58	10.4	58		49	60	11	60		Yes
300	N	55	55	57	2	52		56	60	3.3	54		
304	N	55	56	58	1.9	53		57	60	3.1	54		
305	S	55	68	60	-8.1	41		69	63	-5.3	43		
308	N	55	70	61	-8.4	45		71	65	-5.6	46	Yes	
316	N	55	58	59	1.6	53		59	62	2.9	55		
320	N	55	71	62	-8.5	45		72	66	-5.6	46	Yes	
322	S	55	68	60	-8	41		69	63	-5.2	42		
324	N	55	71	62	-8.5	45		72	66	-5.6	46	Yes	
329	N	55	56	58	2.2	53		57	60	3.4	55		
331	S	55	70	61	-8.5	41		71	65	-5.7	43	Yes	
334	N	55	71	63	-8.1	45		72	67	-5	47	Yes	
342	N	55	56	58	2.3	54		57	60	3.4	55		
344	S	55	68	59	-8.4	42		69	63	-5.6	43		
345	N	55	69	61	-8.1	45		70	65	-5.3	47	Yes	
350	N	55	52	55	3.4	52		53	57	4.5	54		
351	N	55	71	63	-8.2	45		72	67	-5.2	47	Yes	
353	N	55	46	50	4.1	50		47	52	4.8	51		
354	E	55	70	61	-8.4	42		71	65	-5.5	43	Yes	
355	W	55	57	59	2	54		58	61	3.2	56		Yes
356	W	55	68	60	-8.4	45		69	64	-5.5	47		
362	E	55	68	60	-8.2	42		69	64	-5.4	43		

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq} (15hour) Predicted noise levels – dB(A)					2027 L _{Aeq} (15hour) Predicted noise levels – dB(A)					Additional mitigation required
			'No Build'	'Build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
363	W	55	71	63	-8.3	45		72	67	-5.3	47	Yes	
367	W	55	52	55	3.9	53		52	57	4.9	54		
368	E	55	69	60	-8.3	42		70	64	-5.5	43		
374	W	55	56	59	2.3	55		57	61	3.5	56		Yes
375	W	55	69	60	-8.3	45		70	64	-5.5	47		
378	E	55	69	61	-8.3	42		70	65	-5.4	43	Yes	
380	W	55	70	62	-8.3	45		71	66	-5.5	47	Yes	
382	E	55	68	60	-8.1	42		69	64	-5.3	44		
383	W	55	46	51	4.4	50		47	52	5.3	52		
384	W	55	53	55	1.6	54		54	57	2.5	56		Yes
385	S	55	51	50	-1.9	48		52	52	-0.6	50		
386	W	55	57	56	-0.6	56		58	58	0.4	58		Yes
388	W	55	48	51	3.8	51		49	53	4.7	53		
392	W	55	48	52	3.9	51		49	53	4.8	53		
393	S	55	69	61	-8.3	45		70	65	-5.5	47	Yes	
394	N	55	72	63	-8.5	42		73	67	-5.4	44	Yes	
399	S	55	72	64	-8.4	46		73	68	-5.2	47	Yes	
403	S	55	48	50	1.9	50		49	52	2.8	52		
404	N	55	70	62	-8.2	43		71	66	-5.4	45	Yes	
408	N	55	69	61	-8.4	44		70	64	-5.7	45		
409	S	55	68	60	-8	47		69	64	-5.2	48		
411	N	55	69	60	-8.4	44		70	64	-5.6	46		
413	S	55	68	60	-8	47		69	64	-5.1	48		
414	S	55	49	49	0.2	49		50	51	1.3	50		
414	N	55	69	60	-8.4	44		70	64	-5.6	46		
415	S	55	68	60	-7.9	47		69	63	-5.2	49		
416	S	55	49	51	1.8	51		50	53	2.7	53		
417	S	55	50	50	-0.3	49		51	52	0.7	51		

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq} (15hour) Predicted noise levels – dB(A)					2027 L _{Aeq} (15hour) Predicted noise levels – dB(A)					Additional mitigation required
			'No Build'	'Build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
417	N	55	68	60	-8.3	44		69	64	-5.6	46		
421	S	55	49	50	0.6	49		50	52	1.6	51		
421	S	55	69	61	-8.3	45		70	64	-5.6	47		
423	S	55	68	60	-7.8	48		69	64	-5.1	49		
425	S	55	67	60	-7.8	48		68	63	-5	50		
426	S	55	51	50	-0.5	50		52	52	0.5	51		
426	N	55	68	60	-8.1	46		69	64	-5.5	47		
427	S	55	50	51	0.4	50		51	53	1.5	52		
429	S	55	69	61	-8	49		70	65	-5.3	50	Yes	
430	S	55	53	52	-1	51		54	54	-0.1	53		
434	S	55	53	52	-1.1	51		54	54	-0.3	53		
435	E	55	53	52	-0.7	52		54	54	-0.1	53		
438	SE	55	62	58	-3.6	55		63	60	-3.5	57		Yes
438	SW	55	68	62	-6.2	54		69	63	-6.1	56		Yes
439	N	55	55	57	1.6	56		56	58	1.9	57		Yes
445	W	55	52	55	3.4	55		53	57	3.9	57		Yes
451	N	55	60	58	-1.5	56		61	60	-1.4	58		Yes
453	E	55	52	51	-0.6	51		53	53	0.3	53		
454	E	55	53	51	-1.5	51		54	53	-0.7	53		
459	NE	55	57	52	-5.2	51		58	54	-4.6	53		
468	E	55	53	51	-1.2	51		54	53	-0.4	53		
469	E	55	59	55	-3.2	55		60	57	-2.5	57		
474	W	55	53	52	-0.9	52		54	53	-0.1	53		
489	SE	60	66	60	-5.8	60		67	62	-5.2	62		
500	SE	60	64	61	-3.5	60		65	62	-2.9	62		
505	S	55	53	52	-1.2	51		54	53	-0.6	53		
510	S	60	63	61	-1.6	61		64	63	-0.9	63		
513	SE	60	57	55	-2.5	55		59	57	-1.9	57		

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq} (15hour) levels – dB(A)					2027 L _{Aeq} (15hour) Predicted noise noise levels – dB(A)					Additional mitigation required
			'No Build'	'Build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
514	S	60	59	59	-0.4	59		60	61	0.4	61		
514	S	60	57	57	0.3	57		58	59	1	59		
522	E	55	53	51	-1.9	51		54	53	-1.1	53		
523	SW	55	52	52	-0.4	51		53	54	0.4	53		
527	S	60	60	60	-0.5	60		61	62	0.3	62		
528	E	55	54	51	-2.1	51		55	53	-1.3	53		
532	S	55	54	52	-1.7	52		55	54	-0.9	54		
536	W	60	56	56	0.6	56		57	58	1.5	58		
536	S	60	60	59	-0.3	59		61	61	0.4	61		
542	W	60	56	57	0.9	57		57	59	1.6	58		
542	S	60	59	59	-0.6	59		60	60	0.2	60		
551	SW	55	54	52	-1.6	52		55	54	-0.9	54		
552	SW	55	53	52	-1.7	52		54	53	-0.8	53		
564	W	60	66	60	-5.6	60		67	62	-4.9	62		
581	N/A	60	65	58	-6.8	58		67	60	-7.1	59		
582	N/A	60	64	58	-6.7	57		66	59	-7.1	59		
583	N/A	60	64	57	-6.6	57		66	59	-6.8	59		
584	N/A	60	63	57	-6.1	57		65	59	-6.2	59		
585	N/A	60	63	57	-5.7	57		65	59	-5.7	59		
586	N/A	60	63	58	-5.1	57		65	59	-5.1	59		
587	N/A	60	62	58	-4.3	58		64	60	-4.1	59		

Table I-6: Predicted night time $L_{Aeq(9hour)}$ noise levels – SMA with North Street and Huntingdale Park Road noise barriers

Receiver	Most affected facade	Noise criteria dB(A)	2017 $L_{Aeq(9hour)}$ noise levels – dB(A)					2027 $L_{Aeq(9hour)}$ noise levels – dB(A)					Additional mitigation required
			'No build'	'Build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
1	S	55	64	58	-5.9	58		65	59	-5.5	59		
3	S	55	65	57	-8	57		66	58	-7.7	58		
11	W	50	49	49	-0.3	49		50	50	0.3	50		
14	N	50	49	48	-0.7	48		50	50	-0.2	50		
23	E	50	49	51	1.8	51		50	53	2.3	53		Yes
25	SW	50	53	58	4.9	58		54	59	5.5	59		Yes
28	E	50	50	52	2.1	52		51	54	2.6	54		Yes
29	E	50	49	51	2.2	51		50	53	2.7	53		Yes
30	E	50	51	50	-0.9	50		52	52	-0.5	52		Yes
38	SW	55	57	56	-0.4	56		58	58	0.1	58		
41	E	55	56	55	-1	55		57	56	-0.5	56		
53	SW	55	54	53	-1	53		55	54	-0.5	54		
56	SW	55	55	55	-0.9	55		56	56	-0.4	56		
62	NE	55	53	54	0.7	54		54	55	1.1	55		
63	NE	55	53	54	0.2	54		54	55	0.9	55		
64	SE	55	53	53	-0.3	53		54	55	0.6	55		
65	SE	55	58	51	-7.2	50		59	53	-6.2	52		
65	SW	55	57	51	-6.4	50		58	53	-5.3	52		
67	NW	55	61	52	-9.4	52		62	54	-8.2	54		
68	E	55	65	53	-12.1	52		66	56	-10.5	55		
69	N	50	49	49	-0.6	47		50	50	-0.2	49		
70	W	55	62	51	-10.8	51		63	54	-9.5	53		
71	W	50	50	48	-1.9	48		51	50	-0.8	50		
73	E	50	51	51	0.1	51		52	53	0.7	53		Yes
79	W	50	66	55	-11.4	48		67	57	-10.1	50		
85	S	50	62	51	-10.4	46		63	54	-9	48		

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	2027 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	Additional mitigation required
			'No build'	'Build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
95	S	50	53	50	-2.5	47		54	53	-1	49		
96	N	50	52	55	3.2	48		53	58	5.2	50		
97	S	50	65	58	-6.3	44		66	61	-5	46	Yes	
98	SW	50	68	61	-6.4	44	Yes	69	64	-5.1	46	Yes	
99	NW	50	49	48	-1	46		50	50	0.3	48		
100	W	50	49	50	0.5	47		50	52	2	49		
102	E	50	49	54	5.3	48		50	57	7	50		
108	W	50	64	57	-6.3	43		64	59	-5	45		
109	W	50	47	46	-0.6	44		48	49	0.9	46		
110	E	50	47	50	3.4	50		48	52	4.6	52		Yes
115	E	50	69	62	-7	35	Yes	70	64	-5.6	36	Yes	
116	W	50	47	50	2.9	47		48	52	4.4	50		
117	E	50	47	46	-0.3	45		48	49	1	47		
118	E	50	68	61	-6.8	34	Yes	69	64	-5.3	36	Yes	
119	E	50	48	53	4.9	48		49	56	6.7	50		
125	W	50	70	63	-6.6	42	Yes	71	65	-5.3	44	Yes	
134	E	50	71	64	-7.5	35	Yes	72	66	-6.1	36	Yes	
138	SW	50	50	56	5.4	48		51	58	7.3	50		
143	S	50	44	47	2.7	43		45	49	4.4	45		
144	S	50	44	45	1.6	42		45	48	3.1	45		
145	W	50	46	46	0.2	45		47	49	1.4	47		
153	W	50	72	65	-6.7	39	Yes	73	67	-5.3	41	Yes	
163	E	50	71	64	-7.3	35	Yes	72	66	-6	37	Yes	
164	N	50	48	54	5.7	48		49	57	7.6	50		
167	N	50	45	45	-0.4	42		46	47	1.1	44		
171	W	50	48	54	5.6	48		49	57	7.4	50		
179	E	50	48	53	5.6	48		49	56	7.5	50		
181	W	50	69	62	-6.6	35	Yes	70	64	-5.2	37	Yes	

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	2027 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	Additional mitigation required
			'No build'	'Build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
183	E	50	49	55	5.8	48		50	58	7.6	50		
184	N	50	42	45	2.8	42		43	47	4.3	44		
185	E	50	68	62	-6.6	40	Yes	69	64	-5.1	42	Yes	
196	W	50	68	62	-6.7	36	Yes	69	64	-5.2	37	Yes	
198	E	50	48	54	5.8	48		49	57	7.7	50		
199	E	50	41	46	4.9	44		42	48	6.4	46		
204	W	50	69	62	-6.6	36	Yes	70	64	-5.2	37	Yes	
208	E	50	67	60	-6.7	40	Yes	68	62	-5.5	42	Yes	
209	W	50	69	62	-6.5	36	Yes	70	64	-5.1	37	Yes	
210	E	50	48	54	5.7	48		49	56	7.6	50		
213	E	50	67	60	-6.8	40	Yes	68	63	-5.5	42	Yes	
219	E	50	43	50	6.7	46		44	52	8.5	48		
223	E	50	67	60	-6.7	40	Yes	68	62	-5.4	42	Yes	
227	W	50	66	59	-6.8	36		67	61	-5.5	38	Yes	
228	E	50	48	54	5.7	48		49	57	7.6	50		
231	W	50	69	62	-6.7	36	Yes	70	64	-5.3	38	Yes	
232	E	50	46	52	6.2	48		47	55	7.9	50		
233	E	50	41	45	4.2	44		42	47	5.4	46		
237	E	50	42	45	3.7	44		43	48	4.9	46		
240	W	50	68	62	-6.7	36	Yes	69	64	-5.2	38	Yes	
243	E	50	66	59	-6.6	40		67	61	-5.3	42	Yes	
247	E	50	67	60	-6.6	40	Yes	68	63	-5.3	42	Yes	
251	E	50	48	54	5.9	48		49	57	7.7	50		
252	S	50	43	46	3.2	44		44	49	4.6	46		
253	S	50	46	45	-0.3	43		47	48	1.1	45		
257	N	50	46	53	6.7	48		47	55	8.4	50		
269	W	50	65	58	-6.7	37		66	61	-5.4	38	Yes	
272	E	50	46	52	6.3	48		47	55	7.9	50		

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	2027 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	Additional mitigation required
			'No build'	'Build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
274	E	50	66	59	-6.6	41		67	62	-5.3	43	Yes	
278	W	50	64	58	-6.5	37		65	60	-5.2	38	Yes	
280	N	50	44	50	6.4	47		45	53	7.7	49		
284	N	50	64	58	-6.6	41		65	60	-5.3	43	Yes	
293	N	50	48	54	6.3	49		49	57	8	50		
297	N	50	67	60	-6.8	41	Yes	68	62	-5.4	43	Yes	
299	S	50	44	54	10.2	54		45	56	10.8	56		Yes
300	N	50	48	54	6.5	49		49	57	8.2	50		
304	N	50	48	55	6.4	49		49	57	8.1	51		
305	S	50	65	58	-6.4	37		66	60	-5.2	39	Yes	
308	N	50	66	60	-6.8	41	Yes	67	62	-5.5	43	Yes	
316	N	50	50	56	6.5	50		51	59	8.2	51		
320	N	50	68	61	-6.8	41	Yes	69	63	-5.5	43	Yes	
322	S	50	64	58	-6.5	37		65	60	-5.1	38	Yes	
324	N	50	68	61	-6.8	41	Yes	69	63	-5.4	43	Yes	
329	N	50	48	55	7	50		49	57	8.5	51		
331	S	50	66	60	-6.9	37	Yes	67	62	-5.6	39	Yes	
334	N	50	68	62	-6.5	41	Yes	69	64	-4.9	43	Yes	
342	N	50	48	55	6.8	50		49	57	8.4	52		
344	S	50	65	58	-6.9	37		66	60	-5.6	39	Yes	
345	N	50	66	60	-6.5	42	Yes	67	62	-5.2	43	Yes	
350	N	50	44	52	8	49		45	54	9.3	50		
351	N	50	68	61	-6.5	41	Yes	69	64	-5.1	43	Yes	
353	N	50	42	47	4.5	46		43	48	5.2	47		
354	E	50	66	60	-6.8	38	Yes	67	62	-5.4	39	Yes	
355	W	50	49	56	6.9	51		50	59	8.6	52		Yes
356	W	50	65	58	-6.8	41		66	61	-5.4	43	Yes	
362	E	50	65	59	-6.6	38		66	61	-5.3	39	Yes	

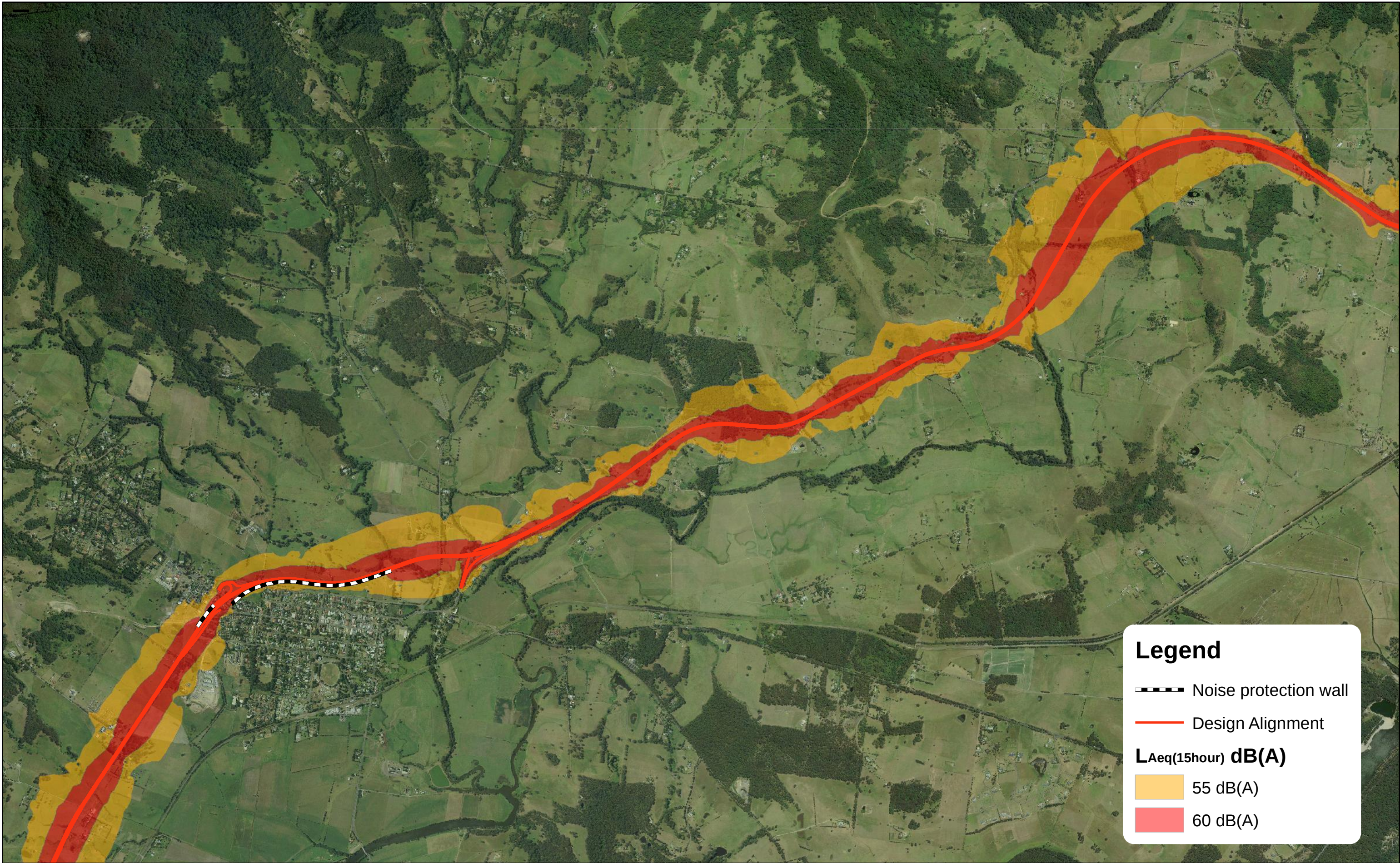
Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	2027 L _{Aeq} (9hour) noise levels – dB(A)				Predicted	Additional mitigation required
			'No build'	'Build'	Increase	Project noise levels	Acute	'No build'	'Build'	Increase	Project noise levels	Acute	
363	W	50	68	61	-6.6	41	Yes	69	64	-5.2	43	Yes	
367	W	50	44	52	8.3	50		45	54	9.6	51		
368	E	50	65	59	-6.7	38		66	61	-5.4	39	Yes	
374	W	50	49	55	6.9	51		50	58	8.5	53		Yes
375	W	50	65	59	-6.7	41		66	61	-5.4	43	Yes	
378	E	50	66	59	-6.6	38		67	62	-5.3	39	Yes	
380	W	50	67	60	-6.7	41	Yes	68	62	-5.4	43	Yes	
382	E	50	65	59	-6.5	38		66	61	-5.2	40	Yes	
383	W	50	42	47	5.3	47		43	49	6.2	48		
384	W	50	46	51	5.7	51		47	53	6.7	53		Yes
385	S	50	48	46	-2	45		49	48	-0.9	47		
386	W	50	49	53	3.8	52		50	55	4.9	54		Yes
388	W	50	44	48	4.3	48		45	50	5.3	49		
392	W	50	43	48	4.6	48		44	50	5.6	50		
393	S	50	66	59	-6.7	42		67	62	-5.4	43	Yes	
394	N	50	69	62	-6.8	38	Yes	70	64	-5.4	40	Yes	
399	S	50	69	62	-6.7	42	Yes	70	65	-5.2	44	Yes	
403	S	50	45	47	1.4	46		46	49	2.4	48		
404	N	50	67	60	-6.6	39	Yes	68	63	-5.2	41	Yes	
408	N	50	66	59	-6.8	40		67	61	-5.5	41	Yes	
409	S	50	65	58	-6.5	43		66	61	-5.1	44	Yes	
411	N	50	65	59	-6.8	40		66	61	-5.5	42	Yes	
413	S	50	65	58	-6.4	43		66	61	-5.1	45	Yes	
414	S	50	46	46	0.1	45		47	48	1	47		
414	N	50	66	59	-6.8	40		66	61	-5.5	42	Yes	
415	S	50	64	58	-6.4	43		65	60	-5.1	45	Yes	
416	S	50	46	47	1.1	47		47	49	2.1	49		
417	S	50	47	46	-0.9	45		48	48	0.1	47		

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq} (9hour) noise levels – dB(A)					2027 L _{Aeq} (9hour) noise levels – dB(A)					Additional mitigation required
			'No build'	'Build'	Increase	Project noise levels	Predicted Acute	'No build'	'Build'	Increase	Project noise levels	Predicted Acute	
417	N	50	65	58	-6.8	40		66	61	-5.6	42	Yes	
421	S	50	46	46	0.5	45		46	48	1.5	47		
421	S	50	66	59	-6.7	41		67	61	-5.5	43	Yes	
423	S	50	65	58	-6.3	44		66	61	-5	46	Yes	
425	S	50	64	58	-6.3	44		65	60	-5	46	Yes	
426	S	50	48	46	-1.5	46		49	48	-0.6	48		
426	N	50	65	58	-6.7	42		66	61	-5.4	43	Yes	
427	S	50	48	47	-0.4	47		49	49	0.6	49		
429	S	50	66	60	-6.6	45	Yes	67	62	-5.2	47	Yes	
430	S	50	51	48	-2.4	48		52	50	-1.5	50		
434	S	50	51	48	-2.9	47		52	50	-1.9	49		
435	E	50	48	48	0.2	48		49	50	0.8	50		
438	SE	50	60	53	-7.5	52		61	54	-6.7	53		Yes
438	SW	50	66	55	-10.6	50		67	57	-9.8	52		Yes
439	N	50	52	52	0.1	52		53	54	0.6	54		Yes
445	W	50	50	51	1.5	51		51	53	2.2	53		Yes
451	N	50	58	53	-4.8	52		59	55	-4.3	54		Yes
453	E	50	48	47	-1	47		49	49	-0.2	49		
454	E	50	49	47	-1.8	47		50	49	-1.1	49		
459	NE	50	51	48	-3.3	47		52	49	-2.7	49		
468	E	50	49	48	-1.6	47		50	49	-0.8	49		
469	E	50	55	51	-4.4	51		56	53	-3.6	53		
474	W	50	49	48	-1.5	47		50	49	-0.7	49		
489	SE	55	63	56	-6.6	56		64	58	-6	58		
500	SE	55	61	57	-4.3	57		62	58	-3.7	58		
505	S	50	50	48	-2	47		51	49	-1.3	49		
510	S	55	59	57	-2.3	57		60	59	-1.6	59		
513	SE	55	54	51	-2.5	51		55	53	-1.7	53		

Receiver	Most affected facade	Noise criteria dB(A)	2017 L _{Aeq} (9hour) noise levels – dB(A)					2027 L _{Aeq} (9hour) noise levels – dB(A)					Additional mitigation required
			'No build'	'Build'	Increase	Project noise levels	Predicted Acute	'No build'	'Build'	Increase	Project noise levels	Predicted Acute	
514	S	55	56	55	-0.9	55		57	57	-0.2	57		
514	S	55	54	53	-0.4	53		55	55	0.4	55		
522	E	50	49	47	-2.1	47		50	49	-1.4	49		
523	SW	50	49	48	-1	48		50	50	-0.1	49		
527	S	55	57	56	-1	56		58	58	-0.3	58		
528	E	50	50	47	-2.4	47		51	49	-1.6	49		
532	S	50	50	48	-2.1	48		51	50	-1.2	50		
536	W	55	52	52	-0.1	52		53	54	0.7	54		
536	S	55	56	55	-0.9	55		57	57	-0.2	57		
542	W	55	53	53	0.2	53		54	54	0.9	54		
542	S	55	56	55	-1	55		57	56	-0.3	56		
551	SW	50	50	48	-2	48		51	50	-1.2	50		
552	SW	50	50	48	-2	48		51	49	-1.2	49		
564	W	55	62	56	-6	56		63	58	-5.3	58		
581	N/A	55	59	54	-4.6	54		60	56	-4.1	56		
582	N/A	55	59	54	-4.7	54		60	56	-4.2	56		
583	N/A	55	58	54	-4.9	53		60	55	-4.3	55		
584	N/A	55	58	54	-4.8	54		60	56	-4.2	55		
585	N/A	55	58	54	-4.6	54		59	56	-3.9	55		
586	N/A	55	58	54	-4	54		59	56	-3.4	56		
587	N/A	55	57	54	-3.2	54		58	56	-2.5	56		

Appendix J

Operational noise contours (with and without a noise barrier)



Legend

--- Noise protection wall

— Design Alignment

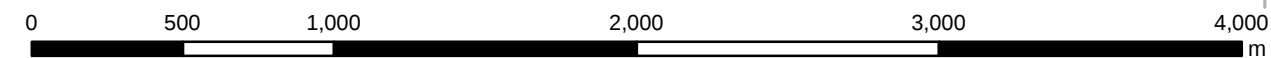
L_{Aeq}(15hour) dB(A)

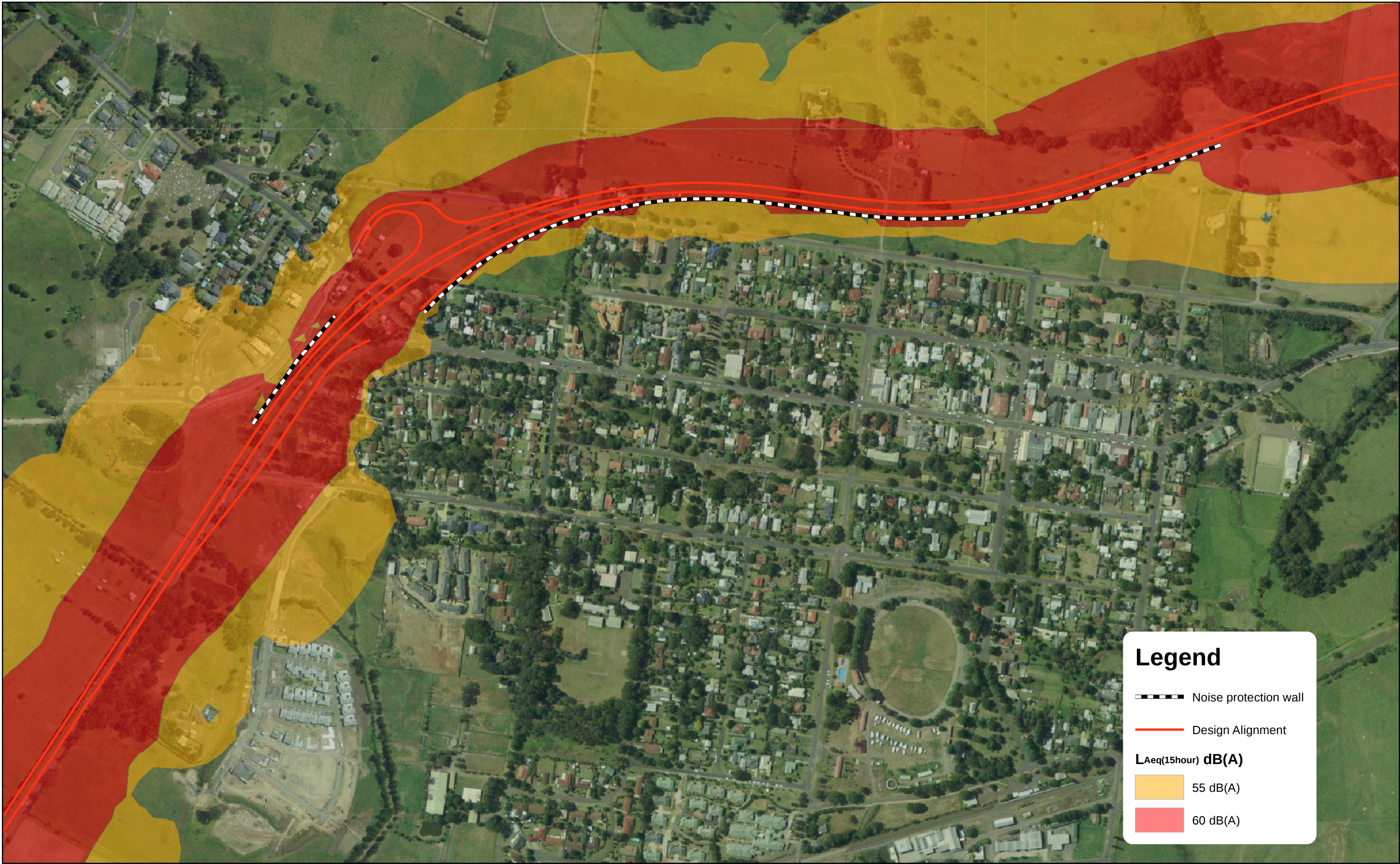
55 dB(A)

60 dB(A)

Foxground and Berry Bypass
Traffic Noise Contours - Daytime
Source: AECOM (2012)

JAN 2012
 60021933





Legend

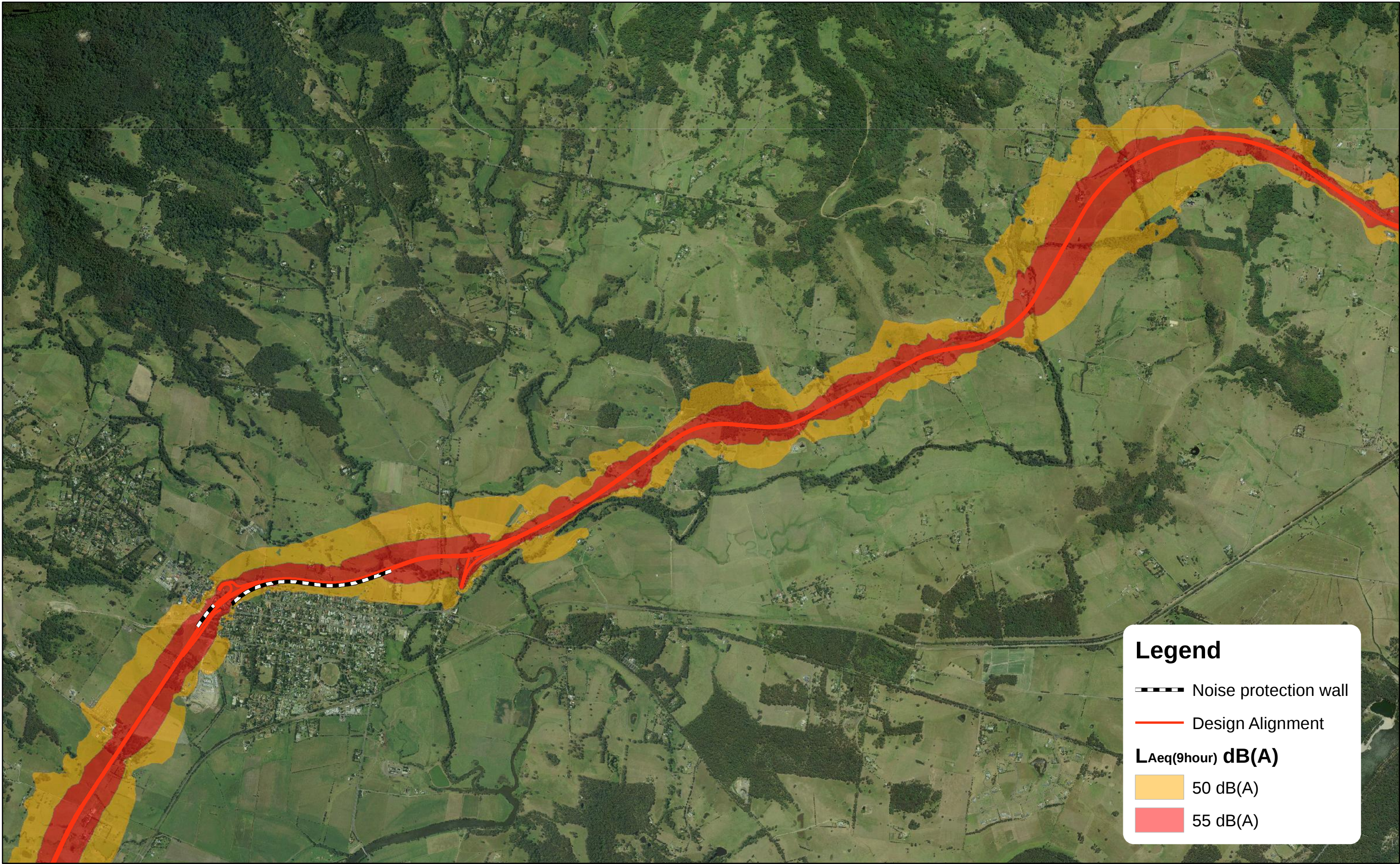
--- Noise protection wall

— Design Alignment

L_{Aeq}(15hour) dB(A)

55 dB(A)

60 dB(A)



Legend

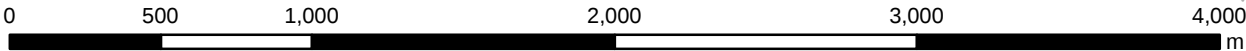
--- Noise protection wall

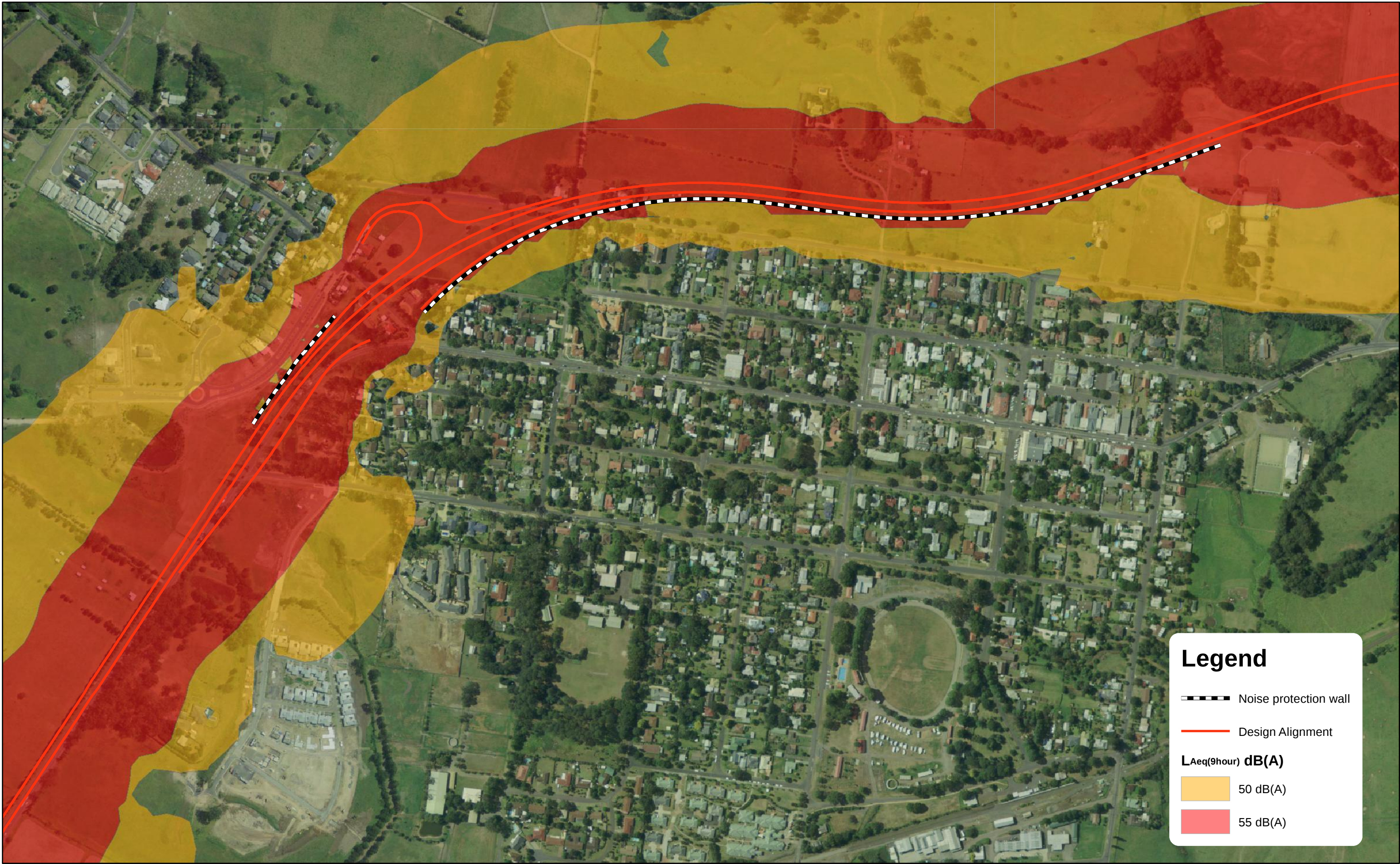
— Design Alignment

L_{Aeq}(9hour) dB(A)

50 dB(A)

55 dB(A)





Legend

--- Noise protection wall

— Design Alignment

L_{Aeq}(9hour) dB(A)

50 dB(A)

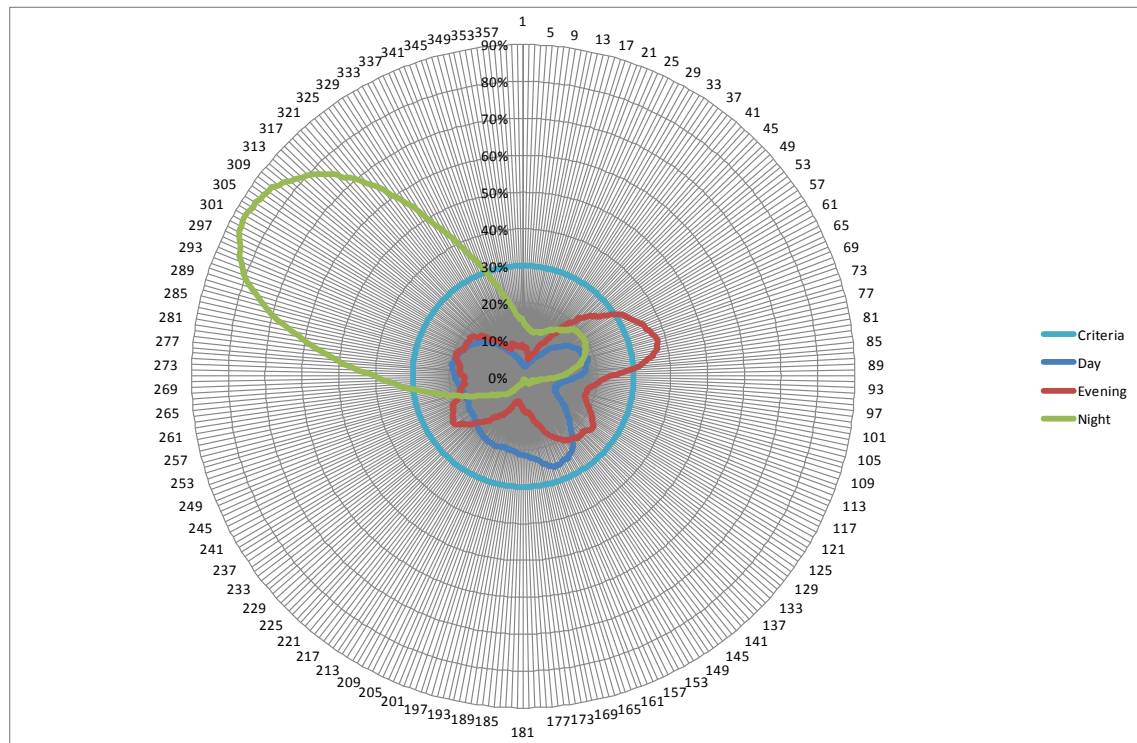
55 dB(A)

Appendix K

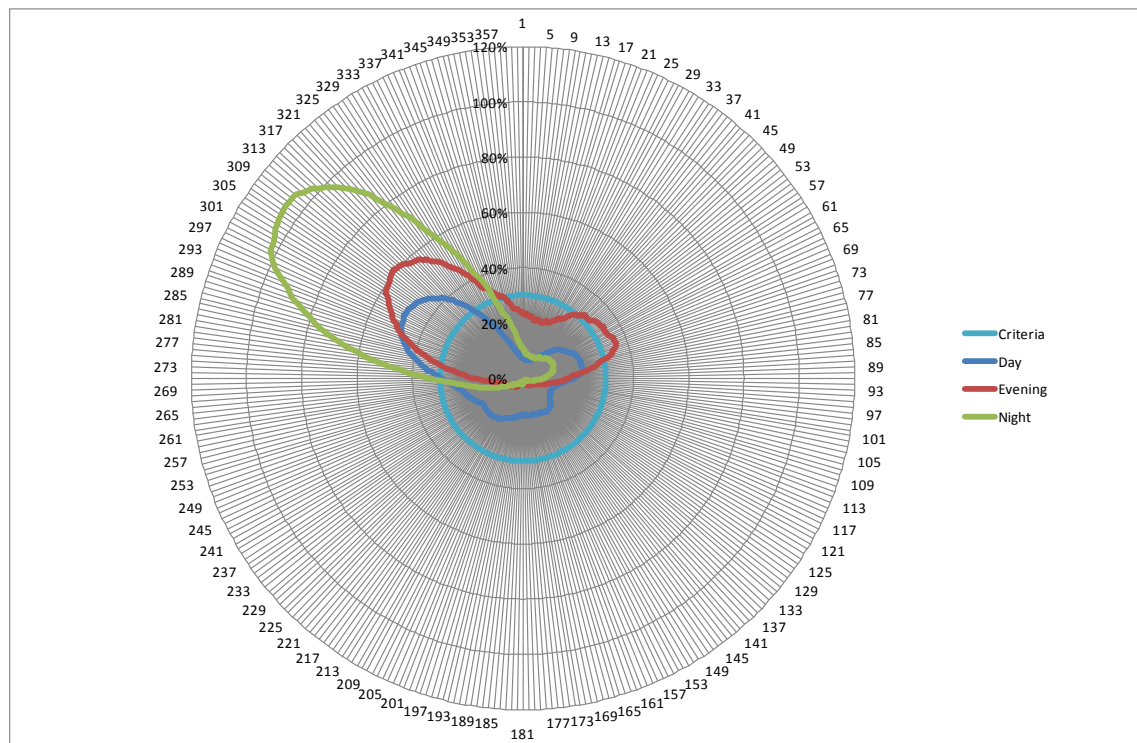
Meteorological data (wind)

Meteorological data (Wind)

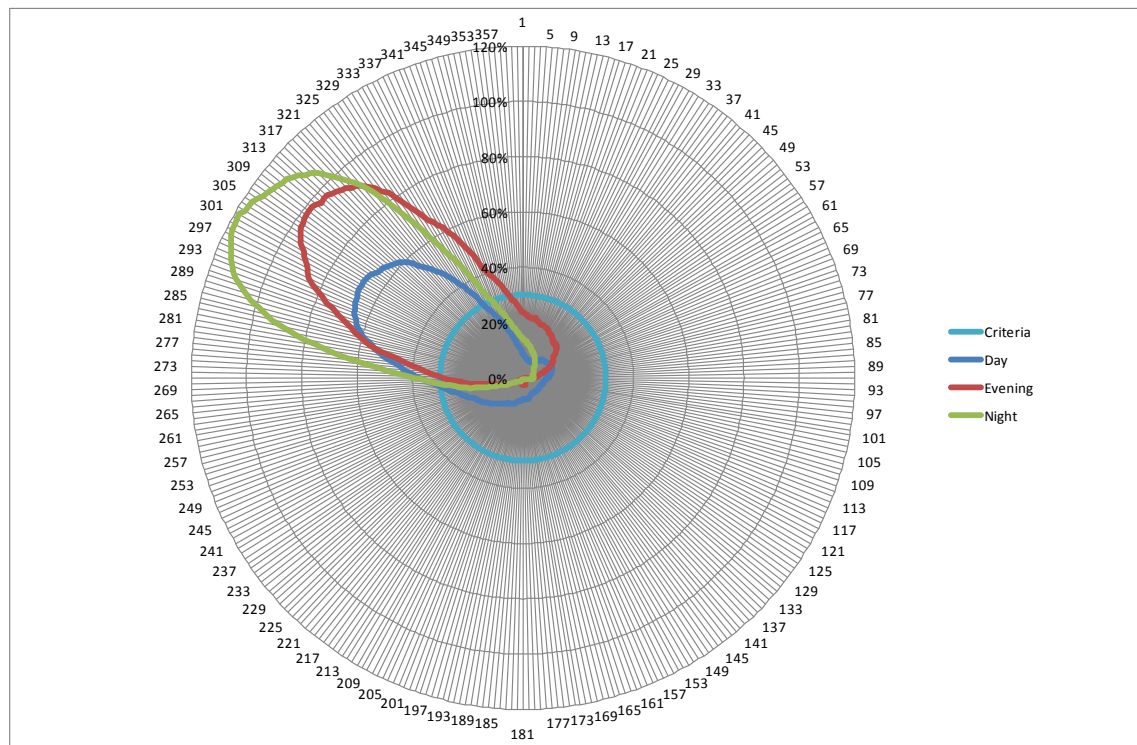
Summer



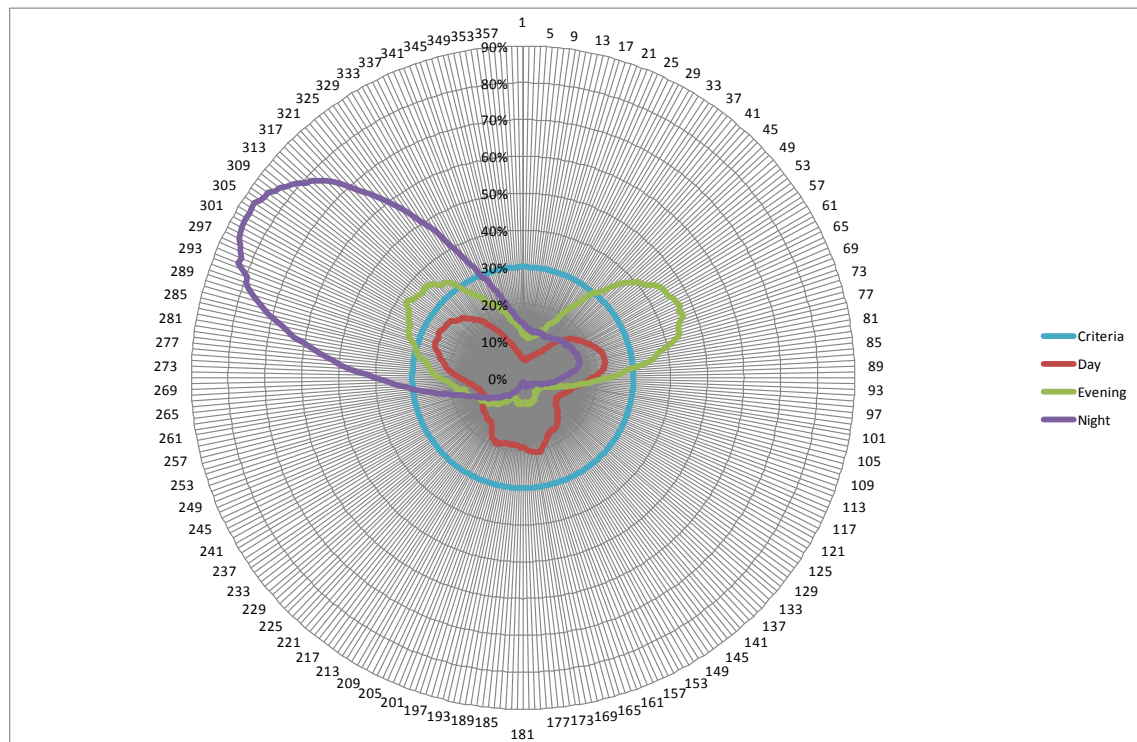
Autumn



Winter



Spring



Appendix L

Noise barrier location



Legend

Noise protection wall

Design Alignment

Foxground and Berry Bypass
Noise Protection Barrier Locations
Source: AECOM (2012)

