

Maximum Noise Levels Assessment

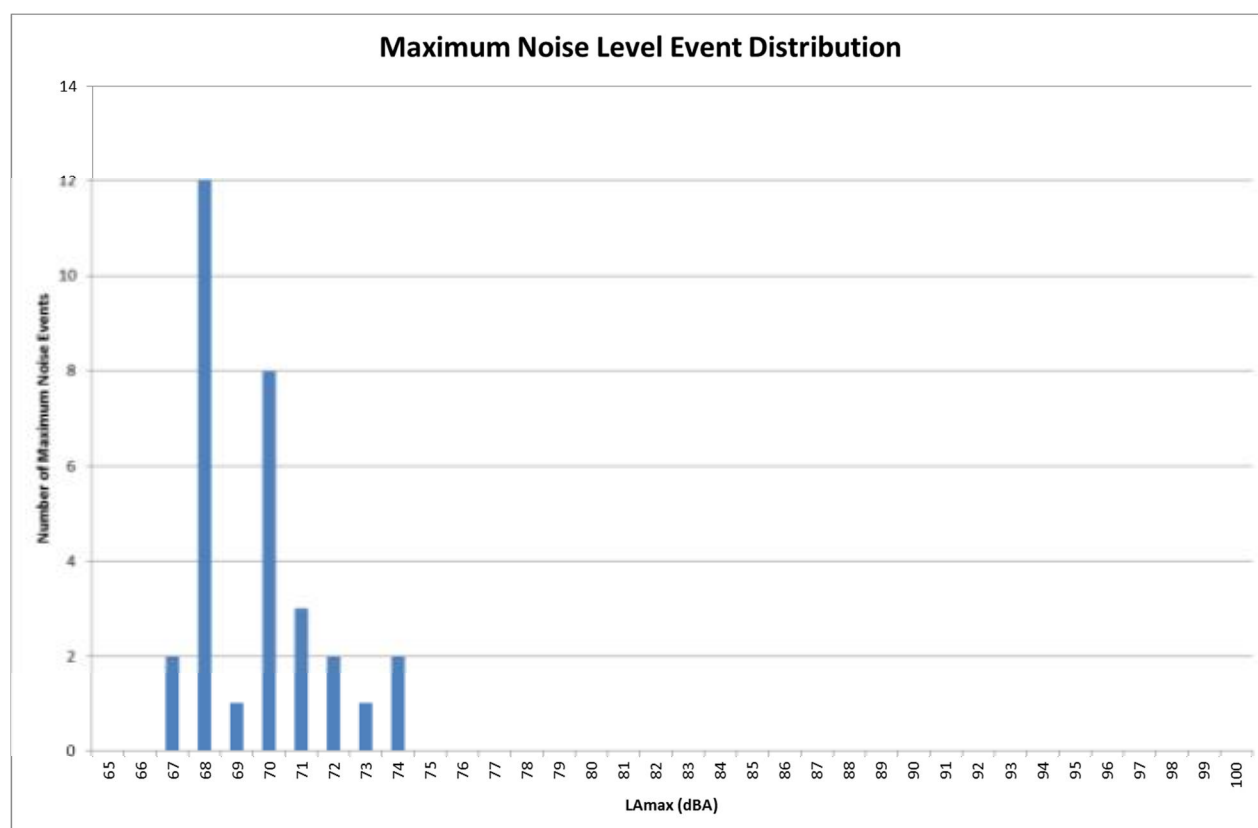
L1 – 6 Gove Avenue, Narwee

Table 1 L1 Maximum Noise Level Events

Monitoring Date	Number of Maximum Noise Events per Hour (LAmax Noise Levels (dBA))									
	00:00-01:00	01:00-02:00	02:00-03:00	03:00-04:00	04:00-05:00	05:00-06:00	06:00-07:00	22:00-23:00	23:00-00:00	Total/ (Range)
22-May-14	n/a ¹	n/a ¹	n/a ¹	n/a ¹	n/a ¹	n/a ¹	n/a ¹	-	2 (68)	2 (68)
23-May-14	-	-	-	-	-	-	-	-	1 (70)	1 (70)
24-May-14	-	-	-	3 (67-68)	1 (70)	-	-	-	2 (70-71)	6 (67-71)
25-May-14	-	1 (68)	-	-	-	-	1 (70)	-	1 (68)	3 (68-70)
26-May-14	-	-	-	-	-	-	-	-	-	-
27-May-14	-	1 (68)	-	-	-	-	-	-	2 (70)	3 (68-70)
28-May-14	-	-	-	-	-	1 (72)	-	-	1 (68)	2 (68-72)
29-May-14	-	1 (70)	-	-	-	-	-	-	-	1 (70)
30-May-14	2 (68-70)	-	-	1 (68)	-	1 (72)	-	-	-	4 (68-72)
31-May-14	1 (67)	-	-	1 (68)	1 (69)	-	-	-	-	3 (67-69)
1-Jun-14	-	-	-	-	-	-	-	5 (71-74)	1 (68)	6 (68-74)
2-Jun-14	-	-	-	-	-	-	-	n/a ¹	n/a ¹	-

Note 1: This period was outside of the period of unattended noise logging.

Figure 1 L1 Maximum Noise Level Event Distribution over Monitoring Period



Maximum Noise Levels Assessment

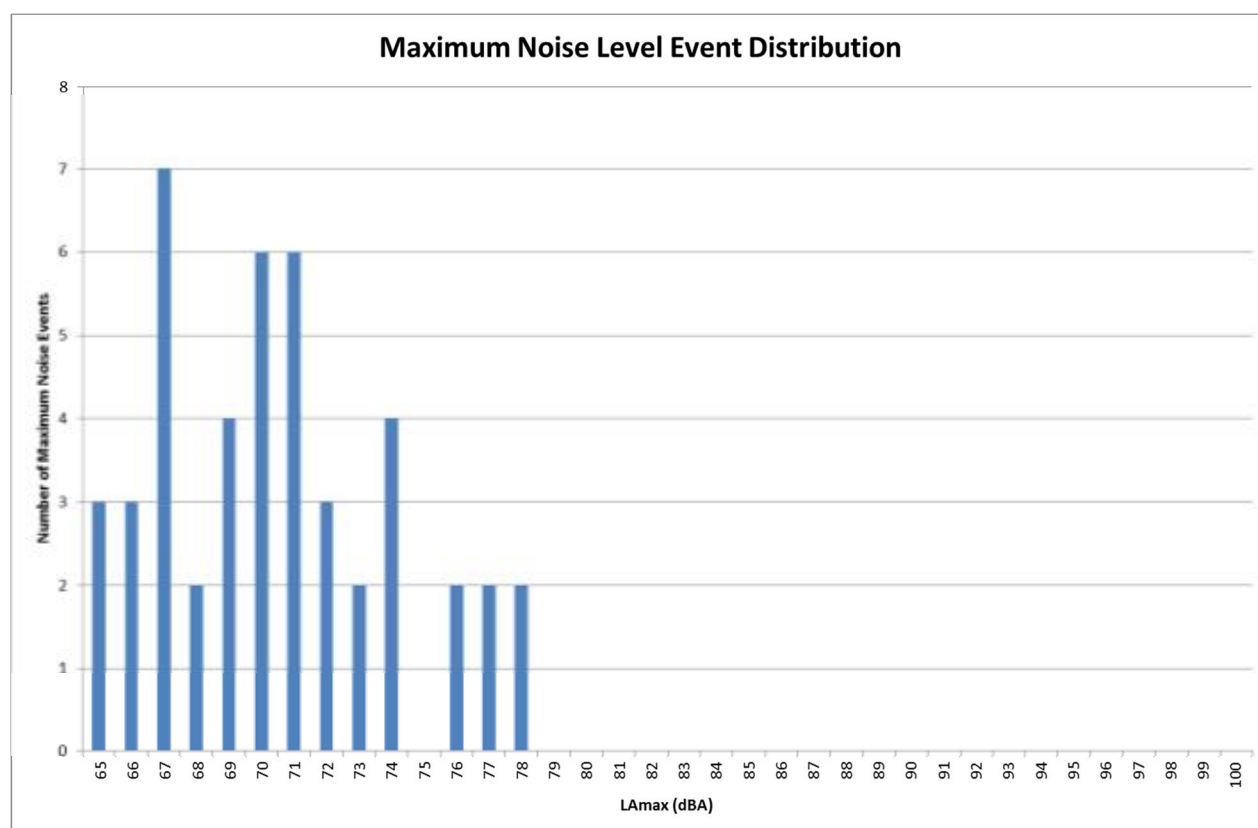
L2 – 15 Rosetta Lane, Beverly Hills

Table 2 L2 Maximum Noise Level Events

Monitoring Date	Number of Maximum Noise Events per Hour (LAmax Noise Levels (dBA))									
	00:00-01:00	01:00-02:00	02:00-03:00	03:00-04:00	04:00-05:00	05:00-06:00	06:00-07:00	22:00-23:00	23:00-00:00	Total/ (Range)
22-May-14	n/a ¹	n/a ¹	n/a ¹	n/a ¹	n/a ¹	n/a ¹	n/a ¹	-	-	-
23-May-14	1 (67)	-	-	-	-	2 (74)	-	-	1 (70)	4 (67-74)
24-May-14	-	-	-	-	-	-	1 (72)	1 (73)	-	2 (72-73)
25-May-14	-	-	2 (68-69)	1 (65)	-	-	4 (70-73)	1 (70)	1 (69)	9 (65-73)
26-May-14	2 (66-67)	2 (65-67)	-	-	-	-	-	1 (76)	-	5 (65-76)
27-May-14	1 (78)	-	-	-	-	-	-	1 (71)	1 (69)	3 (69-78)
28-May-14	-	-	1 (68)	-	-	-	2 (74-76)	-	-	3 (68-76)
29-May-14	-	2 (69-74)	-	-	-	1 (77)	-	-	-	3 (69-77)
30-May-14	-	-	2 (67-71)	-	-	3 (72-77)	1 (78)	-	-	6 (67-78)
31-May-14	-	-	1 (65)	-	1 (67)	-	-	-	-	2 (65-67)
1-Jun-14	1 (71)	-	1 (66)	-	-	-	-	4 (70-71)	-	6 (66-71)
2-Jun-14	-	2 (67)	-	1 (66)	-	-	-	n/a ¹	n/a ¹	3 (66-67)

Note 1: This period was outside of the period of unattended noise logging.

Figure 2 L2 Maximum Noise Level Event Distribution over Monitoring Period



Maximum Noise Levels Assessment

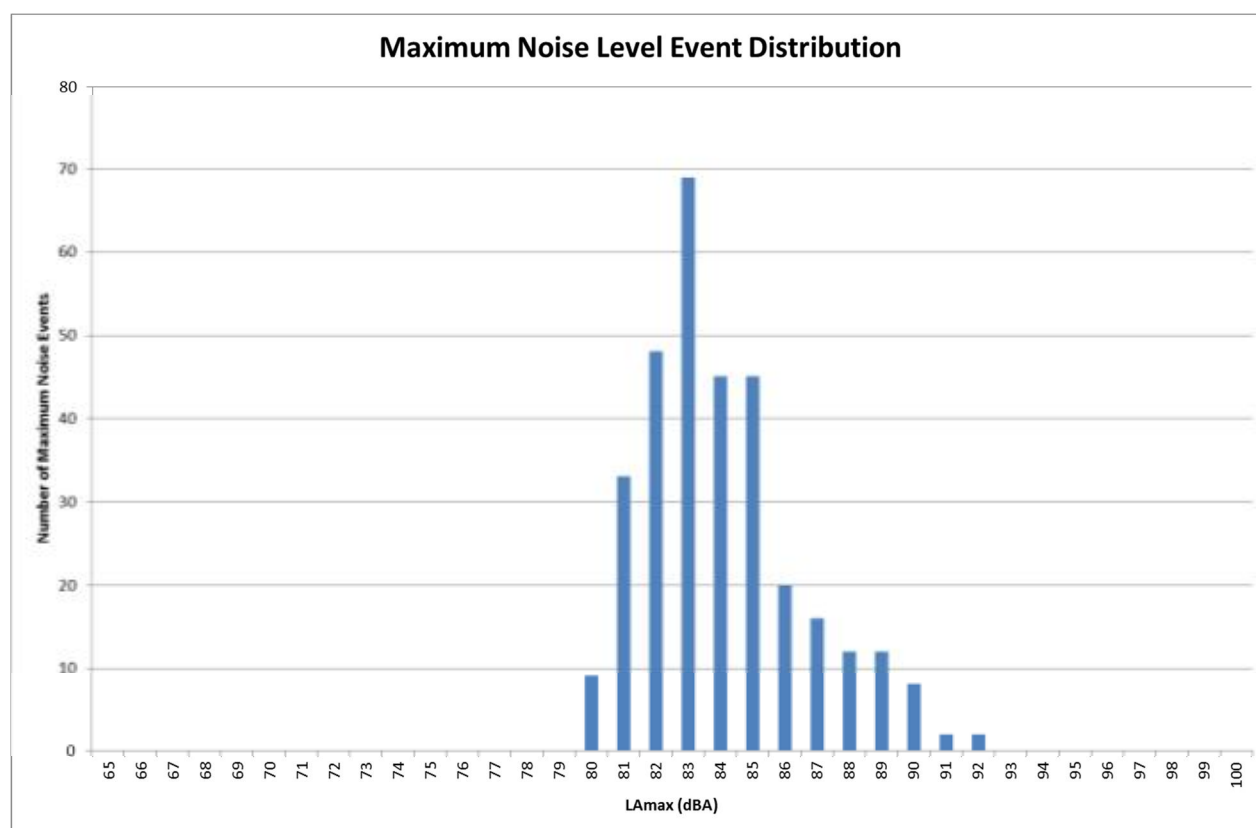
L3 – 311 King Georges Road, Beverly Hills

Table 3 L3 Maximum Noise Level Events

Monitoring Date	Number of Maximum Noise Events per Hour (LAmax Noise Levels (dBA))									
	00:00-01:00	01:00-02:00	02:00-03:00	03:00-04:00	04:00-05:00	05:00-06:00	06:00-07:00	22:00-23:00	23:00-00:00	Total/ (Range)
22-May-14	n/a ¹	n/a ¹	n/a ¹	n/a ¹	n/a ¹	n/a ¹	n/a ¹	5 (85-91)	5 (85-89)	10 (85-91)
23-May-14	4 (85-87)	7 (83-88)	9 (83-87)	6 (83-84)	5 (86-89)	-	1 (89)	5 (86-90)	2 (88-89)	39 (83-90)
24-May-14	4 (84-85)	2 (85-86)	3 (82-90)	8 (82-85)	2 (83-85)	1 (85)	1 (89)	1 (84)	-	22 (82-90)
25-May-14	-	2 (82-85)	3 (81-84)	-	2 (80-81)	1 (84)	-	2 (86-92)	4 (83-85)	14 (80-92)
26-May-14	4 (83-89)	10 (81-87)	5 (80-81)	6 (83-87)	3 (84-86)	-	1 (89)	4 (85-90)	1 (85)	34 (80-90)
27-May-14	7 (82-90)	11 (81-82)	8 (81-84)	5 (82-83)	3 (85-88)	-	1 (89)	2 (84)	4 (84-87)	41 (81-90)
28-May-14	6 (82-85)	9 (81-85)	6 (82-88)	6 (82-84)	1 (88)	1 (87)	1 (88)	1 (84)	4 (83-84)	35 (81-88)
29-May-14	4 (82-85)	7 (81-83)	6 (81-85)	1 (83)	6 (84-87)	1 (86)	1 (92)	2 (86)	2 (83-84)	30 (81-92)
30-May-14	3 (82)	6 (80-82)	7 (80-85)	4 (81-86)	3 (83-85)	-	2 (89-90)	1 (85)	2 (85-87)	28 (80-90)
31-May-14	2 (86)	5 (82-85)	4 (81-84)	4 (81-85)	2 (83)	2 (85)	2 (88-89)	1 (90)	-	22 (81-90)
1-Jun-14	1 (84)	2 (83-85)	1 (90)	5 (82-83)	-	-	1 (85)	-	5 (84-87)	15 (82-90)
2-Jun-14	3 (82-83)	8 (83-88)	8 (80-86)	8 (82-87)	3 (87-89)	1 (91)	-	n/a ¹	n/a ¹	31 (0-89)

Note 1: This period was outside of the period of unattended noise logging.

Figure 3 L3 Maximum Noise Level Event Distribution over Monitoring Period



Maximum Noise Levels Assessment

L4 – 36 Allambee Crescent, Beverley Hills

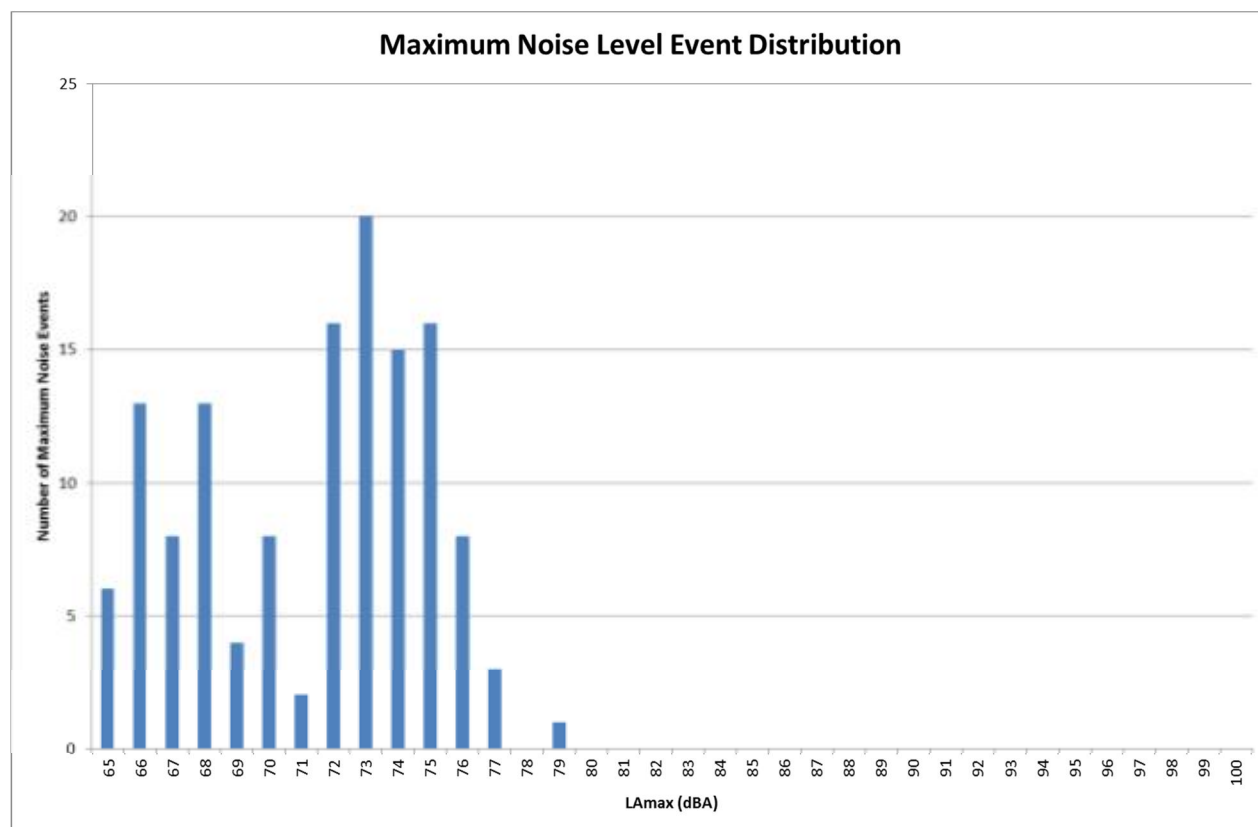
Table 4 L4 Maximum Noise Level Events

Monitoring Date	Number of Maximum Noise Events per Hour (LAmax Noise Levels (dBA))									
	00:00-01:00	01:00-02:00	02:00-03:00	03:00-04:00	04:00-05:00	05:00-06:00	06:00-07:00	22:00-23:00	23:00-00:00	Total/ (Range)
22-May-14	n/a ¹	n/a ¹	n/a ¹	n/a ¹	n/a ¹	n/a ¹	n/a ¹	1 (69)	-	1 (69)
23-May-14	3 (67-68)	-	1 (66)	-	1 (68)	-	8 (74-76)	1 (68)	1 (73)	15 (66-76)
24-May-14	-	-	2 (67-68)	-	-	-	5 (74-79)	-	1 (68)	8 (67-79)
25-May-14	1 (65)	-	-	-	-	-	1 (76)	-	-	2 (65-76)
26-May-14	1 (66)	-	-	2 (66-70)	-	-	1 (75)	2 (68-69)	-	6 (66-75)
27-May-14	-	-	-	1 (65)	4 (68-74)	-	10 (72-77)	1 (67)	4 (66-72)	20 (65-77)
28-May-14	3 (65-70)	-	-	1 (66)	1 (66)	-	5 (72-73)	-	-	10 (65-73)
29-May-14	-	-	3 (67-70)	1 (66)	-	1 (76)	6 (75-77)	-	-	11 (66-77)
30-May-14	-	-	-	2 (65-68)	2 (67-68)	2 (69-71)	23 (73-76)	-	1 (70)	30 (65-76)
31-May-14	2 (66-68)	1 (65)	-	-	1 (65)	-	3 (70-72)	2 (67-68)	-	9 (65-72)
1-Jun-14	2 (66)	1 (66)	-	1 (67)	-	-	7 (73-75)	-	-	11 (66-75)
2-Jun-14	2 (66-70)	-	-	-	-	-	8 (72-73)	n/a ¹	n/a ¹	10 (66-73)

Note 1: This period was outside of the period of unattended noise logging.

Note 2: This location was affected by extraneous noise (birds and dog noise) and should be regarded as indicative only.

Figure 4 L4 Maximum Noise Level Event Distribution over Monitoring Period



Maximum Noise Levels Assessment

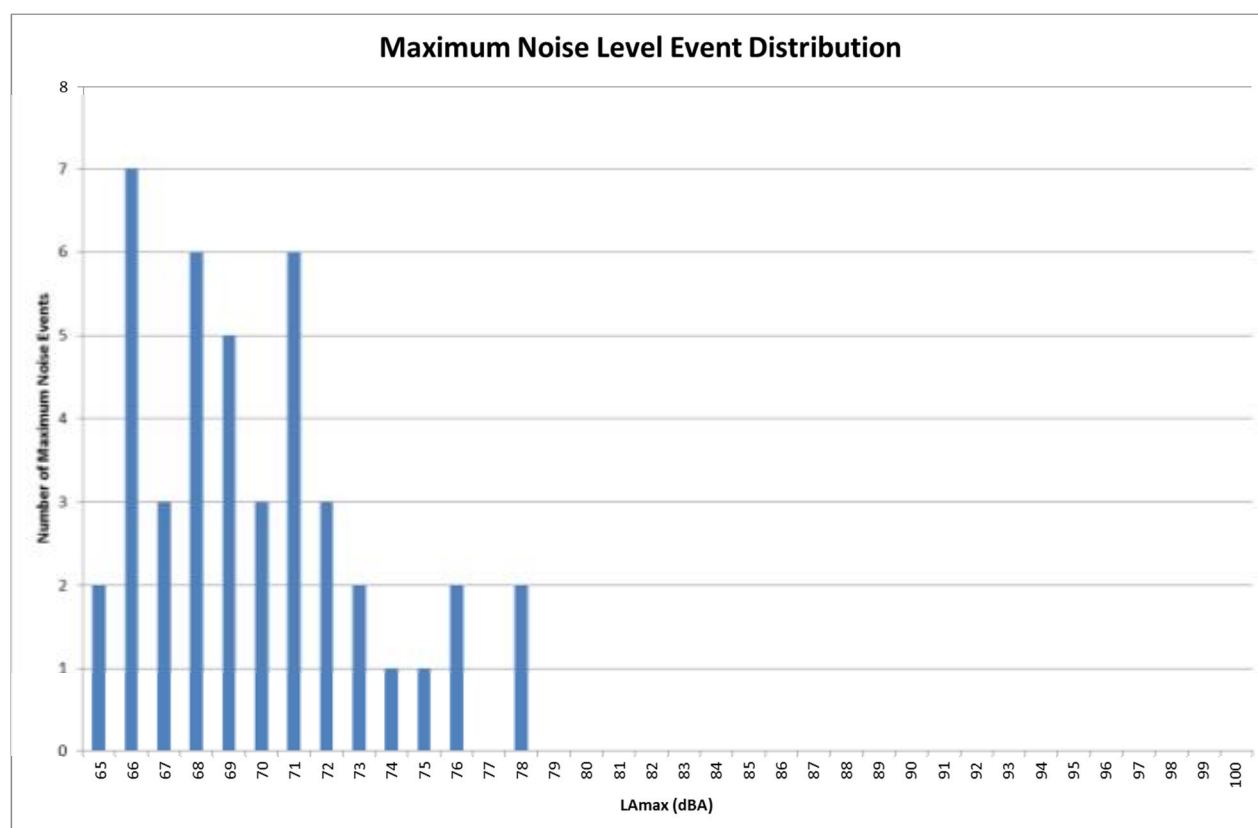
L5 – 6 Allambee Crescent, Beverley Hills

Table 5 L5 Maximum Noise Level Events

Monitoring Date	Number of Maximum Noise Events per Hour (LAmax Noise Levels (dBA))									
	00:00-01:00	01:00-02:00	02:00-03:00	03:00-04:00	04:00-05:00	05:00-06:00	06:00-07:00	22:00-23:00	23:00-00:00	Total/ (Range)
22-May-14	n/a ¹	n/a ¹	n/a ¹	n/a ¹	n/a ¹	n/a ¹	n/a ¹	1 (71)	3 (70-71)	4 (70-71)
23-May-14	-	-	-	-	-	-	5 (75-78)	1 (72)	-	6 (72-78)
24-May-14	-	-	-	-	1 (73)	-	-	1 (68)	-	2 (68-73)
25-May-14	-	-	-	-	-	-	1 (70)	1 (72)	1 (66)	3 (66-72)
26-May-14	-	-	-	1 (65)	-	-	1 (72)	1 (71)	-	3 (65-72)
27-May-14	-	-	-	-	-	-	-	2 (69-71)	2 (67-68)	4 (67-71)
28-May-14	1 (66)	-	-	1 (69)	-	-	-	-	-	2 (66-69)
29-May-14	-	-	2 (65-66)	-	-	-	1 (73)	-	1 (67)	4 (65-73)
30-May-14	1 (69)	-	2 (67-68)	-	2 (68)	1 (70)	-	-	-	6 (67-70)
31-May-14	-	1 (66)	-	-	-	-	1 (74)	-	-	2 (66-74)
1-Jun-14	-	-	-	-	-	-	1 (68)	3 (69-71)	-	4 (68-71)
2-Jun-14	1 (66)	1 (66)	-	1 (66)	-	-	-	n/a ¹	n/a ¹	3 (66)

Note 1: This period was outside of the period of unattended noise logging.

Figure 5 L5 Maximum Noise Level Event Distribution over Monitoring Period



Maximum Noise Levels Assessment

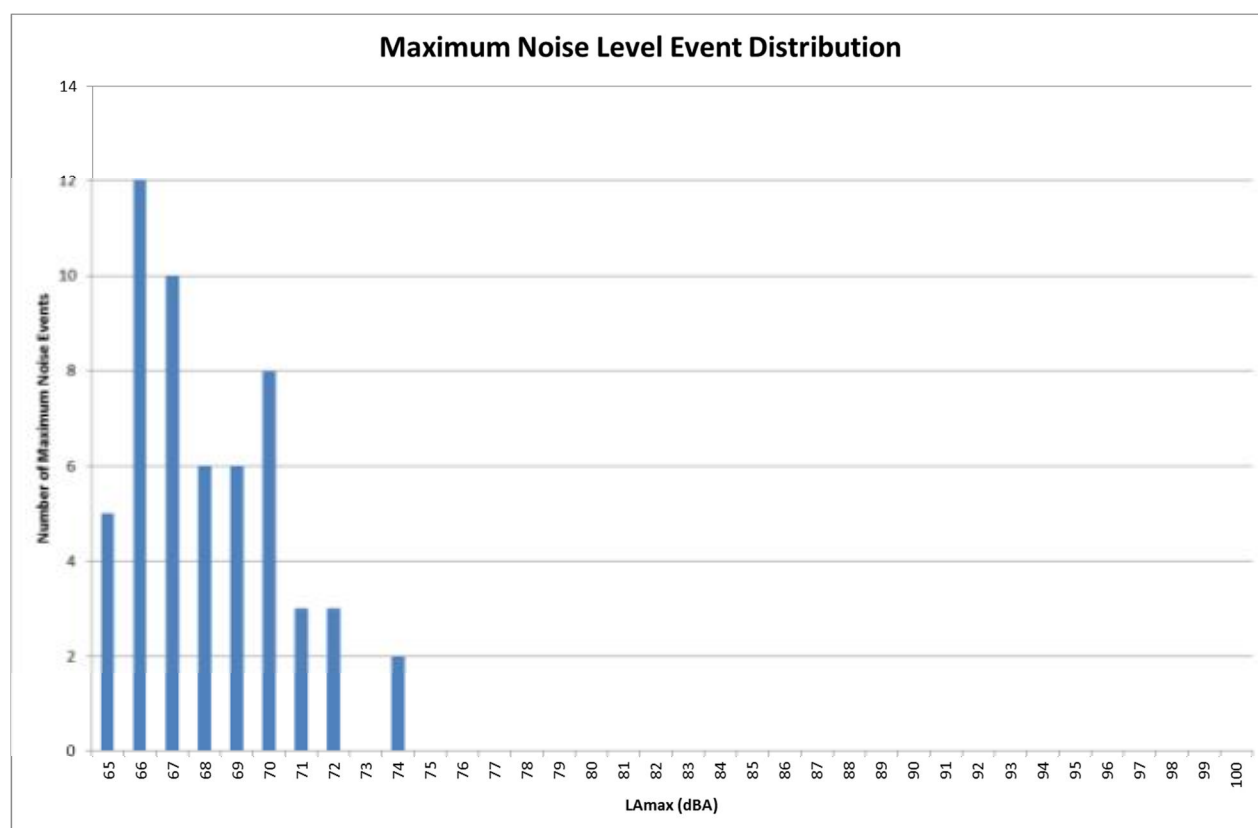
L6 – 19 Elouera Street, Beverley Hills

Table 6 L6 Maximum Noise Level Events

Monitoring Date	Number of Maximum Noise Events per Hour (LAmax Noise Levels (dBA))									
	00:00-01:00	01:00-02:00	02:00-03:00	03:00-04:00	04:00-05:00	05:00-06:00	06:00-07:00	22:00-23:00	23:00-00:00	Total/ (Range)
22-May-14	n/a ¹	n/a ¹	n/a ¹	n/a ¹	n/a ¹	n/a ¹	n/a ¹	-	4 (66-70)	4 (66-70)
23-May-14	-	-	-	-	-	1 (70)	-	3 (70-74)	1 (67)	5 (67-74)
24-May-14	1 (66)	2 (65-69)	-	-	-	-	-	1 (69)	2 (66-70)	6 (65-70)
25-May-14	-	-	1 (70)	-	1 (65)	2 (65-66)	2 (67)	3 (69-72)	1 (67)	10 (65-72)
26-May-14	-	1 (68)	-	1 (66)	-	-	-	-	-	2 (66-68)
27-May-14	-	-	-	-	1 (72)	1 (70)	-	-	1 (66)	3 (66-72)
28-May-14	-	-	-	1 (66)	1 (71)	-	1 (69)	2 (67-68)	-	5 (66-71)
29-May-14	-	-	1 (71)	-	1 (68)	-	-	1 (67)	-	3 (67-71)
30-May-14	-	-	2 (66-74)	1 (65)	-	1 (69)	-	2 (66-67)	1 (69)	7 (65-74)
31-May-14	1 (66)	1 (72)	-	-	-	-	-	-	3 (67-68)	5 (66-72)
1-Jun-14	1 (66)	-	-	-	-	-	-	1 (67)	1 (68)	3 (66-68)
2-Jun-14	-	-	1 (66)	1 (0)	-	-	-	n/a ¹	n/a ¹	2 (0-66)

Note 1: This period was outside of the period of unattended noise logging.

Figure 6 L6 Maximum Noise Level Event Distribution over Monitoring Period



Maximum Noise Levels Assessment

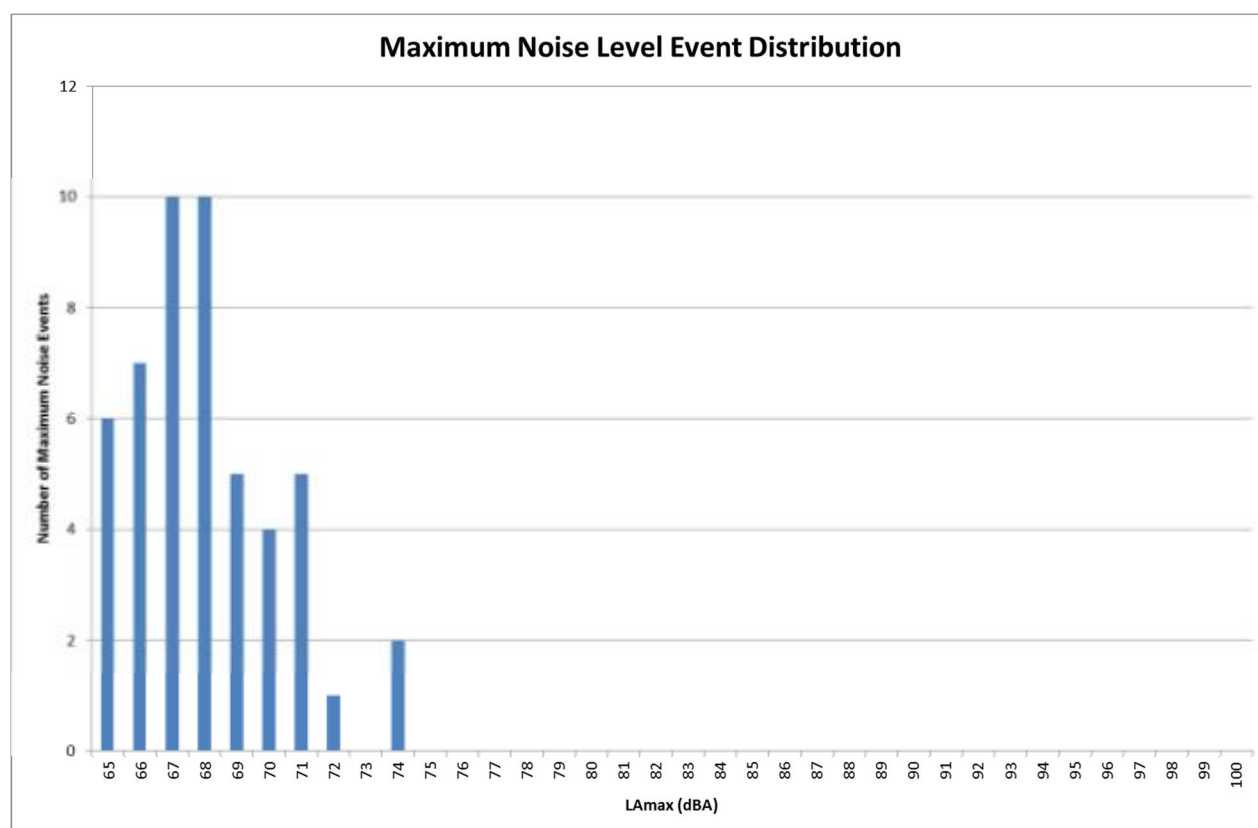
L7 – 25 Kirrang Street, Beverley Hills

Table 7 L7 Maximum Noise Level Events

Monitoring Date	Number of Maximum Noise Events per Hour (LAmax Noise Levels (dBA))									
	00:00-01:00	01:00-02:00	02:00-03:00	03:00-04:00	04:00-05:00	05:00-06:00	06:00-07:00	22:00-23:00	23:00-00:00	Total/ (Range)
22-May-14	n/a ¹	n/a ¹	n/a ¹	n/a ¹	n/a ¹	n/a ¹	n/a ¹	1 (71)	-	1 (71)
23-May-14	1 (71)	-	-	-	-	-	-	2 (72-74)	1 (67)	4 (67-74)
24-May-14	-	1 (69)	-	-	-	-	-	-	-	1 (69)
25-May-14	1 (67)	-	2 (68)	-	-	1 (65)	3 (68-70)	2 (69-71)	1 (66)	10 (65-71)
26-May-14	-	-	-	1 (66)	-	-	-	1 (71)	-	2 (66-71)
27-May-14	1 (66)	-	-	-	1 (70)	1 (69)	-	-	1 (67)	4 (66-70)
28-May-14	1 (68)	-	-	1 (66)	1 (67)	-	-	-	-	3 (66-68)
29-May-14	-	-	1 (69)	-	-	-	-	-	1 (65)	2 (65-69)
30-May-14	-	-	2 (65-67)	-	2 (67-71)	-	1 (70)	-	1 (74)	6 (65-74)
31-May-14	1 (65)	1 (70)	-	-	2 (66)	-	1 (67)	1 (68)	3 (67-68)	9 (65-70)
1-Jun-14	-	2 (65-66)	-	1 (67)	-	-	-	3 (67-68)	1 (68)	7 (65-68)
2-Jun-14	-	-	1 (65)	-	-	-	-	n/a ¹	n/a ¹	1 (65)

Note 1: This period was outside of the period of unattended noise logging.

Figure 7 L7 Maximum Noise Level Event Distribution over Monitoring Period



Appendix K

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Construction Noise Predictions

NCA	Type	Noise Level – LAeq(15minute) (dBA)						Noise Level – LA1(60second) (dBA)							
		Worst-case Predicted at Nearby Receivers	RBL			NML			NML Exceedance			Worst-case Predicted (night-time)	Screening Crft. (RBL+15 dBA)	Exceed.	
			Day	Eve	Night	Day	Day OOH	Night	Day	Day OOH	Eve				Night
Construction Scenario - Main Corridor / Ramp Works															
NCA01.COM	Commercial	up to 45	n/a	n/a	n/a	70	70	n/a	n/a	-	-	n/a	n/a	n/a	n/a
NCA01.OAC	Other (Aged Care)	35-51	52	51	39	62	57	56	44	-	-	-	up to 7	54	3
NCA01.OCC	Other (Childcare)	48-64	n/a	n/a	n/a	50	50	n/a	n/a	up to 14	up to 14	n/a	n/a	n/a	n/a
NCA01.OOA	Other (Outdoor Active)	50-66	n/a	n/a	n/a	65	65	65	n/a	up to 1	up to 1	up to 1	n/a	n/a	n/a
NCA01.OOP	Other (Outdoor Passive)	55-71	n/a	n/a	n/a	60	60	60	n/a	up to 11	up to 11	up to 11	n/a	n/a	n/a
NCA01.OPW	Other (Place of Worship)	36-52	n/a	n/a	n/a	55	55	n/a	n/a	-	-	n/a	n/a	n/a	n/a
NCA01.RES	Residential	63-79	52	51	39	62	57	56	44	1 - 17	6 - 22	7 - 23	19 - 35	54	31
NCA02.COM	Commercial	32-48	n/a	n/a	n/a	70	70	n/a	n/a	-	-	n/a	n/a	n/a	n/a
NCA02.OCB	Other (Café/Bar)	31-47	n/a	n/a	n/a	60	60	60	60	-	-	-	-	n/a	n/a
NCA02.OCC	Other (Childcare)	35-51	n/a	n/a	n/a	50	50	n/a	n/a	up to 1	up to 1	n/a	n/a	n/a	n/a
NCA02.OED	Other (Educational)	31-47	n/a	n/a	n/a	55	n/a	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a
NCA02.OOA	Other (Outdoor Active)	33-49	n/a	n/a	n/a	65	65	65	n/a	-	-	-	n/a	n/a	n/a
NCA02.OOP	Other (Outdoor Passive)	56-72	n/a	n/a	n/a	60	60	60	n/a	up to 12	up to 12	up to 12	n/a	n/a	n/a
NCA02.OPB	Other (Public Building)	32-48	n/a	n/a	n/a	60	60	60	n/a	-	-	-	n/a	n/a	n/a
NCA02.OPW	Other (Place of Worship)	38-54	n/a	n/a	n/a	55	55	n/a	n/a	-	-	n/a	n/a	n/a	n/a
NCA02.RES	Residential	66-82	52	51	39	62	57	56	44	4 - 20	9 - 25	10 - 26	22 - 38	54	34
NCA03.COM	Commercial	up to 33	n/a	n/a	n/a	70	70	n/a	n/a	-	-	n/a	n/a	n/a	n/a
NCA03.OED	Other (Educational)	37-53	n/a	n/a	n/a	55	n/a	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a
NCA03.OOA	Other (Outdoor Active)	32-48	n/a	n/a	n/a	65	65	65	n/a	-	-	-	n/a	n/a	n/a
NCA03.OOP	Other (Outdoor Passive)	31-47	n/a	n/a	n/a	60	60	60	n/a	-	-	-	n/a	n/a	n/a
NCA03.RES	Residential	61-77	53	52	44	63	58	57	49	up to 14	3 - 19	4 - 20	12 - 28	59	24
NCA04.OED	Other (Educational)	31-47	n/a	n/a	n/a	55	n/a	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a
NCA04.OOA	Other (Outdoor Active)	up to 43	n/a	n/a	n/a	65	65	65	n/a	-	-	-	n/a	n/a	n/a

Appendix K

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Construction Noise Predictions

NCA	Type	Noise Level – LAeq(15minute) (dBA)										Noise Level – LA1(60second) (dBA)				
		Worst-case Predicted at Nearby Receivers	RBL			NML			NML Exceedance				Worst-case Predicted (night-time)	Screening Crit.	Exceed.	
			Day	Eve	Night	Day	Day OOH	Eve	Night	Day	Day OOH	Eve				Night
NCA04.OOP	Other (Outdoor Passive)	up to 35	n/a	n/a	n/a	60	60	60	n/a	-	-	-	n/a	n/a	n/a	
NCA04.RES	Residential	49-65	53	52	44	63	58	57	49	up to 2	up to 7	up to 8	up to 16	59	12	
NCA05.COM	Commercial	40-56	n/a	n/a	n/a	70	70	n/a	n/a	-	-	n/a	n/a	n/a	n/a	
NCA05.RES	Residential	49-65	47	46	40	57	52	51	45	up to 8	up to 13	up to 14	4 - 20	55	16	
NCA06.COM	Commercial	up to 45	n/a	n/a	n/a	70	70	n/a	n/a	-	-	n/a	n/a	n/a	n/a	
NCA06.OCC	Other (Childcare)	<30	n/a	n/a	n/a	50	50	n/a	n/a	-	-	n/a	n/a	n/a	n/a	
NCA06.OED	Other (Educational)	34-50	n/a	n/a	n/a	55	n/a	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a	
NCA06.OOP	Other (Outdoor Passive)	up to 43	n/a	n/a	n/a	60	60	60	n/a	-	-	-	n/a	n/a	n/a	
NCA06.OPB	Other (Public Building)	<30	n/a	n/a	n/a	60	60	60	n/a	-	-	-	n/a	n/a	n/a	
NCA06.OPW	Other (Place of Worship)	34-50	n/a	n/a	n/a	55	55	n/a	n/a	-	-	n/a	n/a	n/a	n/a	
NCA06.RES	Residential	50-66	51	50	44	61	56	55	49	up to 5	up to 10	up to 11	1 - 17	59	13	
NCA07.COM	Commercial	42-58	n/a	n/a	n/a	70	70	n/a	n/a	-	-	n/a	n/a	n/a	n/a	
NCA07.OAC	Other (Aged Care)	30-46	50	49	40	60	55	54	45	-	-	-	up to 1	55	-	
NCA07.OCC	Other (Childcare)	up to 36	n/a	n/a	n/a	50	50	n/a	n/a	-	-	n/a	n/a	n/a	n/a	
NCA07.OOA	Other (Outdoor Active)	37-53	n/a	n/a	n/a	65	65	65	n/a	-	-	-	n/a	n/a	n/a	
NCA07.OPB	Other (Public Building)	up to 43	n/a	n/a	n/a	60	60	60	n/a	-	-	-	n/a	n/a	n/a	
NCA07.RES	Residential	66-82	50	49	40	60	55	54	45	6 - 22	11 - 27	12 - 28	21 - 37	55	33	
NCA08.IND	Industrial	up to 33	n/a	n/a	n/a	75	75	n/a	n/a	-	-	n/a	n/a	n/a	n/a	
NCA08.OCC	Other (Childcare)	up to 39	n/a	n/a	n/a	50	50	n/a	n/a	-	-	n/a	n/a	n/a	n/a	
NCA08.RES	Residential	44-60	49	49	42	59	54	54	47	up to 1	up to 6	up to 6	up to 13	57	9	
West of Project Area	Residential	40-56	52	51	39	62	57	56	44	-	-	-	up to 12	54	8	
East of Project Area	Residential	40-56	49	49	42	59	54	54	47	-	up to 2	up to 2	up to 9	57	5	

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Construction Noise Predictions

NCA	Type	Noise Level – LAeq(15minute) (dBA)							Noise Level – LA1(60second) (dBA)						
		Worst-case Predicted at Nearby Receivers	RBL			NML			NML Exceedance			Worst-case Predicted (night-time)	Screening Crit.	Exceed.	
			Day	Eve	Night	Day	Day OOH	Night	Day	Day OOH	Eve				Night
Construction Scenario - Site Compounds															
NCA01.COM	Commercial	up to 37	n/a	n/a	n/a	70	70	n/a	n/a	-	-	n/a	n/a	n/a	n/a
NCA01.OAC	Other (Aged Care)	31-42	52	51	39	62	57	56	44	-	-	-	45	54	-
NCA01.OCC	Other (Childcare)	37-48	n/a	n/a	n/a	50	50	n/a	n/a	-	-	n/a	n/a	n/a	n/a
NCA01.OOA	Other (Outdoor Active)	34-45	n/a	n/a	n/a	65	65	65	n/a	-	-	n/a	n/a	n/a	n/a
NCA01.OOP	Other (Outdoor Passive)	35-46	n/a	n/a	n/a	60	60	60	n/a	-	-	n/a	n/a	n/a	n/a
NCA01.OPW	Other (Place of Worship)	31-42	n/a	n/a	n/a	55	55	n/a	n/a	-	-	n/a	n/a	n/a	n/a
NCA01.RES	Residential	42-53	52	51	39	62	57	56	44	-	-	up to 9	56	54	2
NCA02.COM	Commercial	31-42	n/a	n/a	n/a	70	70	n/a	n/a	-	-	n/a	n/a	n/a	n/a
NCA02.OCB	Other (Café/Bar)	up to 33	n/a	n/a	n/a	60	60	60	60	-	-	-	n/a	n/a	n/a
NCA02.OCC	Other (Childcare)	40-50	n/a	n/a	n/a	50	50	n/a	n/a	-	-	n/a	n/a	n/a	n/a
NCA02.OED	Other (Educational)	up to 40	n/a	n/a	n/a	55	n/a	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a
NCA02.OOA	Other (Outdoor Active)	up to 32	n/a	n/a	n/a	65	65	65	n/a	-	-	n/a	n/a	n/a	n/a
NCA02.OOP	Other (Outdoor Passive)	58-68	n/a	n/a	n/a	60	60	60	n/a	up to 8	up to 8	n/a	n/a	n/a	n/a
NCA02.OPB	Other (Public Building)	up to 36	n/a	n/a	n/a	60	60	60	n/a	-	-	n/a	n/a	n/a	n/a
NCA02.OPW	Other (Place of Worship)	32-43	n/a	n/a	n/a	55	55	n/a	n/a	-	-	n/a	n/a	n/a	n/a
NCA02.RES	Residential	87-98	52	51	39	62	57	56	44	25 - 36	30 - 41	31 - 42	43 - 54	54	47
NCA03.COM	Commercial	<30	n/a	n/a	n/a	70	70	n/a	n/a	-	-	n/a	n/a	n/a	n/a
NCA03.OED	Other (Educational)	38-49	n/a	n/a	n/a	55	n/a	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a
NCA03.OOA	Other (Outdoor Active)	33-43	n/a	n/a	n/a	65	65	65	n/a	-	-	n/a	n/a	n/a	n/a
NCA03.OOP	Other (Outdoor Passive)	32-43	n/a	n/a	n/a	60	60	60	n/a	-	-	n/a	n/a	n/a	n/a
NCA03.RES	Residential	61-72	53	52	44	63	58	57	49	up to 9	3 - 14	4 - 15	12 - 23	59	16
NCA04.OED	Other (Educational)	31-42	n/a	n/a	n/a	55	n/a	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a
NCA04.OOA	Other (Outdoor Active)	up to 33	n/a	n/a	n/a	65	65	65	n/a	-	-	n/a	n/a	n/a	n/a

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Construction Noise Predictions

NCA	Type	Noise Level – LAeq(15minute) (dBA)										Noise Level – LA1(60second) (dBA)				
		Worst-case Predicted at Nearby Receivers	RBL			NML			NML Exceedance				Worst-case Predicted (night-time)	Screening Crit.	Exceed.	
			Day	Eve	Night	Day	Day OOH	Eve	Night	Day	Day OOH	Eve				Night
NCA04.OOP	Other (Outdoor Passive)	<30	n/a	n/a	n/a	60	60	60	n/a	-	-	-	n/a	n/a	n/a	
NCA04.RES	Residential	61-72	53	52	44	63	58	57	49	up to 9	3 - 14	4 - 15	12 - 23	75	16	
NCA05.COM	Commercial	48-59	n/a	n/a	n/a	70	70	n/a	n/a	-	-	n/a	n/a	n/a	n/a	
NCA05.RES	Residential	67-78	47	46	40	57	52	51	45	10 - 21	15 - 26	16 - 27	22 - 33	81	26	
NCA06.COM	Commercial	up to 39	n/a	n/a	n/a	70	70	n/a	n/a	-	-	n/a	n/a	n/a	n/a	
NCA06.OCC	Other (Childcare)	<30	n/a	n/a	n/a	50	50	n/a	n/a	-	-	n/a	n/a	n/a	n/a	
NCA06.OED	Other (Educational)	36-47	n/a	n/a	n/a	55	n/a	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a	
NCA06.OOP	Other (Outdoor Passive)	up to 39	n/a	n/a	n/a	60	60	60	n/a	-	-	-	n/a	n/a	n/a	
NCA06.OPB	Other (Public Building)	<30	n/a	n/a	n/a	60	60	60	n/a	-	-	-	n/a	n/a	n/a	
NCA06.OPW	Other (Place of Worship)	35-46	n/a	n/a	n/a	55	55	n/a	n/a	-	-	n/a	n/a	n/a	n/a	
NCA06.RES	Residential	83-94	51	50	44	61	56	55	49	22 - 33	27 - 38	28 - 39	34 - 45	97	38	
NCA07.COM	Commercial	34-45	n/a	n/a	n/a	70	70	n/a	n/a	-	-	n/a	n/a	n/a	n/a	
NCA07.OAC	Other (Aged Care)	up to 39	50	49	40	60	55	54	45	-	-	-	-	42	-	
NCA07.OCC	Other (Childcare)	<30	n/a	n/a	n/a	50	50	n/a	n/a	-	-	n/a	n/a	n/a	n/a	
NCA07.OOA	Other (Outdoor Active)	35-46	n/a	n/a	n/a	65	65	65	n/a	-	-	-	n/a	n/a	n/a	
NCA07.OPB	Other (Public Building)	up to 35	n/a	n/a	n/a	60	60	60	n/a	-	-	-	n/a	n/a	n/a	
NCA07.RES	Residential	80-91	50	49	40	60	55	54	45	20 - 31	25 - 36	26 - 37	35 - 46	94	39	
NCA08.IND	Industrial	<30	n/a	n/a	n/a	75	75	n/a	n/a	-	-	n/a	n/a	n/a	n/a	
NCA08.OCC	Other (Childcare)	up to 32	n/a	n/a	n/a	50	50	n/a	n/a	-	-	n/a	n/a	n/a	n/a	
NCA08.RES	Residential	79-90	49	49	42	59	54	54	47	20 - 31	25 - 36	25 - 36	32 - 43	93	36	
West of Project Area	Residential	up to 40	52	51	39	62	57	56	44	-	-	-	-	54	-	
East of Project Area	Residential	34-45	49	49	42	59	54	54	47	-	-	-	-	48	-	

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Construction Noise Predictions

NCA	Type	Noise Level – LAeq(15minute) (dBA)						Noise Level – LA1(60second) (dBA)								
		Worst-case Predicted at Nearby Receivers	RBL			NML			NML Exceedance			Worst-case Predicted (night-time)	Screening Crft. (RBL+15 dBA)	Exceed.		
			Day	Eve	Night	Day	Day OOH	Night	Day	Day OOH	Eve				Night	
Structures – Bridge Construction																
NCA01.COM	Commercial	up to 35	n/a	n/a	n/a	70	70	n/a	n/a	-	-	n/a	n/a	n/a	n/a	n/a
NCA01.OAC	Other (Aged Care)	up to 43	52	51	39	62	57	56	44	-	-	-	51	54	-	-
NCA01.OCC	Other (Childcare)	51-65	n/a	n/a	n/a	50	50	n/a	n/a	1 - 15	1 - 15	n/a	n/a	n/a	n/a	n/a
NCA01.OOA	Other (Outdoor Active)	41-55	n/a	n/a	n/a	65	65	65	n/a	-	-	-	n/a	n/a	n/a	n/a
NCA01.OOP	Other (Outdoor Passive)	52-66	n/a	n/a	n/a	60	60	60	n/a	up to 6	up to 6	n/a	n/a	n/a	n/a	n/a
NCA01.OPW	Other (Place of Worship)	38-52	n/a	n/a	n/a	55	55	n/a	n/a	-	-	n/a	n/a	n/a	n/a	n/a
NCA01.RES	Residential	62-76	52	51	39	62	57	56	44	up to 14	5 - 19	6 - 20	18 - 32	54	30	30
NCA02.COM	Commercial	31-45	n/a	n/a	n/a	70	70	n/a	n/a	-	-	n/a	n/a	n/a	n/a	n/a
NCA02.OCB	Other (Café/Bar)	up to 41	n/a	n/a	n/a	60	60	60	60	-	-	-	n/a	n/a	n/a	n/a
NCA02.OCC	Other (Childcare)	up to 41	n/a	n/a	n/a	50	50	n/a	n/a	-	-	n/a	n/a	n/a	n/a	n/a
NCA02.OED	Other (Educational)	up to 39	n/a	n/a	n/a	55	n/a	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a	n/a
NCA02.OOA	Other (Outdoor Active)	up to 39	n/a	n/a	n/a	65	65	65	n/a	-	-	-	n/a	n/a	n/a	n/a
NCA02.OOP	Other (Outdoor Passive)	35-49	n/a	n/a	n/a	60	60	60	n/a	-	-	-	n/a	n/a	n/a	n/a
NCA02.OPB	Other (Public Building)	up to 39	n/a	n/a	n/a	60	60	60	n/a	-	-	-	n/a	n/a	n/a	n/a
NCA02.OPW	Other (Place of Worship)	41-55	n/a	n/a	n/a	55	55	n/a	n/a	-	-	n/a	n/a	n/a	n/a	n/a
NCA02.RES	Residential	63-77	52	51	39	62	57	56	44	1 - 15	6 - 20	7 - 21	19 - 33	85	54	31
NCA03.COM	Commercial	<30	n/a	n/a	n/a	70	70	n/a	n/a	-	-	n/a	n/a	n/a	n/a	n/a
NCA03.OED	Other (Educational)	34-48	n/a	n/a	n/a	55	n/a	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a	n/a
NCA03.OOA	Other (Outdoor Active)	up to 38	n/a	n/a	n/a	65	65	65	n/a	-	-	-	n/a	n/a	n/a	n/a
NCA03.OOP	Other (Outdoor Passive)	up to 41	n/a	n/a	n/a	60	60	60	n/a	-	-	-	n/a	n/a	n/a	n/a
NCA03.RES	Residential	35-49	53	52	44	63	58	57	49	-	-	-	-	57	59	-
NCA04.OED	Other (Educational)	up to 41	n/a	n/a	n/a	55	n/a	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a	n/a
NCA04.OOA	Other (Outdoor Active)	<30	n/a	n/a	n/a	65	65	65	n/a	-	-	-	n/a	n/a	n/a	n/a

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Construction Noise Predictions

NCA	Type	Noise Level – LAeq(15minute) (dBA)										Noise Level – LA1(60second) (dBA)			
		Worst-case Predicted at Nearby Receivers	RBL			NML			NML Exceedance				Worst-case Predicted (night-time)	Screening Crit.	Exceed.
			Day	Eve	Night	Day	Day OOH	Eve	Day	Day OOH	Eve	Night			
NCA04.OOP	Other (Outdoor Passive)	<30	n/a	n/a	n/a	60	60	60	n/a	-	-	n/a	n/a	n/a	n/a
NCA04.RES	Residential	38-52	53	52	44	63	58	57	49	-	-	up to 3	60	59	1
NCA05.COM	Commercial	31-45	n/a	n/a	n/a	70	70	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a
NCA05.RES	Residential	63-77	47	46	40	57	52	51	45	6 - 20	11 - 25	12 - 26	18 - 32	55	30
NCA06.COM	Commercial	up to 41	n/a	n/a	n/a	70	70	n/a	n/a	-	-	n/a	n/a	n/a	n/a
NCA06.OCC	Other (Childcare)	<30	n/a	n/a	n/a	50	50	n/a	n/a	-	-	n/a	n/a	n/a	n/a
NCA06.OED	Other (Educational)	31-46	n/a	n/a	n/a	55	n/a	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a
NCA06.OOP	Other (Outdoor Passive)	30-44	n/a	n/a	n/a	60	60	60	n/a	-	-	n/a	n/a	n/a	n/a
NCA06.OPB	Other (Public Building)	<30	n/a	n/a	n/a	60	60	60	n/a	-	-	n/a	n/a	n/a	n/a
NCA06.OPW	Other (Place of Worship)	35-50	n/a	n/a	n/a	55	55	n/a	n/a	-	-	n/a	n/a	n/a	n/a
NCA06.RES	Residential	59-73	51	50	44	61	56	55	49	up to 12	3 - 17	4 - 18	10 - 24	59	22
NCA07.COM	Commercial	up to 37	n/a	n/a	n/a	70	70	n/a	n/a	-	-	n/a	n/a	n/a	n/a
NCA07.OAC	Other (Aged Care)	up to 32	50	49	40	60	55	54	45	-	-	-	40	55	-
NCA07.OCC	Other (Childcare)	up to 34	n/a	n/a	n/a	50	50	n/a	n/a	-	-	n/a	n/a	n/a	n/a
NCA07.OOA	Other (Outdoor Active)	up to 41	n/a	n/a	n/a	65	65	65	n/a	-	-	n/a	n/a	n/a	n/a
NCA07.OPB	Other (Public Building)	up to 30	n/a	n/a	n/a	60	60	60	n/a	-	-	n/a	n/a	n/a	n/a
NCA07.RES	Residential	68-82	50	49	40	60	55	54	45	8 - 22	13 - 27	14 - 28	23 - 37	55	35
NCA08.IND	Industrial	up to 30	n/a	n/a	n/a	75	75	n/a	n/a	-	-	n/a	n/a	n/a	n/a
NCA08.OCC	Other (Childcare)	up to 35	n/a	n/a	n/a	50	50	n/a	n/a	-	-	n/a	n/a	n/a	n/a
NCA08.RES	Residential	53-67	49	49	42	59	54	54	47	up to 8	up to 13	up to 13	6 - 20	57	18
West of Project Area	Residential	up to 42	52	51	39	62	57	56	44	-	-	-	50	54	-
East of Project Area	Residential	34-48	49	49	42	59	54	54	47	-	-	-	up to 1	57	-

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Construction Noise Predictions

NCA	Type	Noise Level – LAeq(15minute) (dBA)						Noise Level – LA1(60second) (dBA)								
		Worst-case Predicted at Nearby Receivers	RBL			NML			NML Exceedance			Worst-case Predicted (night-time)	Screening Crft. (RBL+15 dBA)	Exceed.		
			Day	Eve	Night	Day	Day OOH	Night	Day	Day OOH	Eve				Night	
Noise Wall Removal																
NCA01.COM	Commercial	up to 40	n/a	n/a	n/a	70	70	n/a	n/a	-	-	n/a	n/a	n/a	n/a	n/a
NCA01.OAC	Other (Aged Care)	up to 59	52	51	39	62	57	56	44	-	up to 2	up to 3	up to 15	63	54	9
NCA01.OCC	Other (Childcare)	up to 63	n/a	n/a	n/a	50	50	n/a	n/a	up to 13	up to 13	n/a	n/a	n/a	n/a	n/a
NCA01.OOA	Other (Outdoor Active)	up to 66	n/a	n/a	n/a	65	65	65	n/a	up to 1	up to 1	up to 1	n/a	n/a	n/a	n/a
NCA01.OOP	Other (Outdoor Passive)	up to 72	n/a	n/a	n/a	60	60	60	n/a	up to 12	up to 12	up to 12	n/a	n/a	n/a	n/a
NCA01.OPW	Other (Place of Worship)	up to 51	n/a	n/a	n/a	55	55	n/a	n/a	-	-	n/a	n/a	n/a	n/a	n/a
NCA01.RES	Residential	up to 78	52	51	39	62	57	56	44	up to 16	up to 21	up to 22	up to 34	82	54	28
NCA02.COM	Commercial	up to 48	n/a	n/a	n/a	70	70	n/a	n/a	-	-	n/a	n/a	n/a	n/a	n/a
NCA02.OCB	Other (Café/Bar)	up to 47	n/a	n/a	n/a	60	60	60	60	-	-	-	-	n/a	n/a	n/a
NCA02.OCC	Other (Childcare)	up to 50	n/a	n/a	n/a	50	50	n/a	n/a	-	-	n/a	n/a	n/a	n/a	n/a
NCA02.OED	Other (Educational)	up to 45	n/a	n/a	n/a	55	n/a	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a	n/a
NCA02.OOA	Other (Outdoor Active)	up to 47	n/a	n/a	n/a	65	65	65	n/a	-	-	-	n/a	n/a	n/a	n/a
NCA02.OOP	Other (Outdoor Passive)	up to 74	n/a	n/a	n/a	60	60	60	n/a	up to 14	up to 14	up to 14	n/a	n/a	n/a	n/a
NCA02.OPB	Other (Public Building)	up to 46	n/a	n/a	n/a	60	60	60	n/a	-	-	-	n/a	n/a	n/a	n/a
NCA02.OPW	Other (Place of Worship)	up to 52	n/a	n/a	n/a	55	55	n/a	n/a	-	-	n/a	n/a	n/a	n/a	n/a
NCA02.RES	Residential	up to 81	52	51	39	62	57	56	44	up to 19	up to 24	up to 25	up to 37	85	54	31
NCA03.COM	Commercial	<30	n/a	n/a	n/a	70	70	n/a	n/a	-	-	n/a	n/a	n/a	n/a	n/a
NCA03.OED	Other (Educational)	up to 47	n/a	n/a	n/a	55	n/a	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a	n/a
NCA03.OOA	Other (Outdoor Active)	up to 41	n/a	n/a	n/a	65	65	65	n/a	-	-	-	n/a	n/a	n/a	n/a
NCA03.OOP	Other (Outdoor Passive)	up to 44	n/a	n/a	n/a	60	60	60	n/a	-	-	-	n/a	n/a	n/a	n/a
NCA03.RES	Residential	up to 53	53	52	44	63	58	57	49	-	-	-	up to 4	57	59	-
NCA04.OED	Other (Educational)	up to 43	n/a	n/a	n/a	55	n/a	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a	n/a
NCA04.OOA	Other (Outdoor Active)	up to 32	n/a	n/a	n/a	65	65	65	n/a	-	-	-	n/a	n/a	n/a	n/a

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Construction Noise Predictions

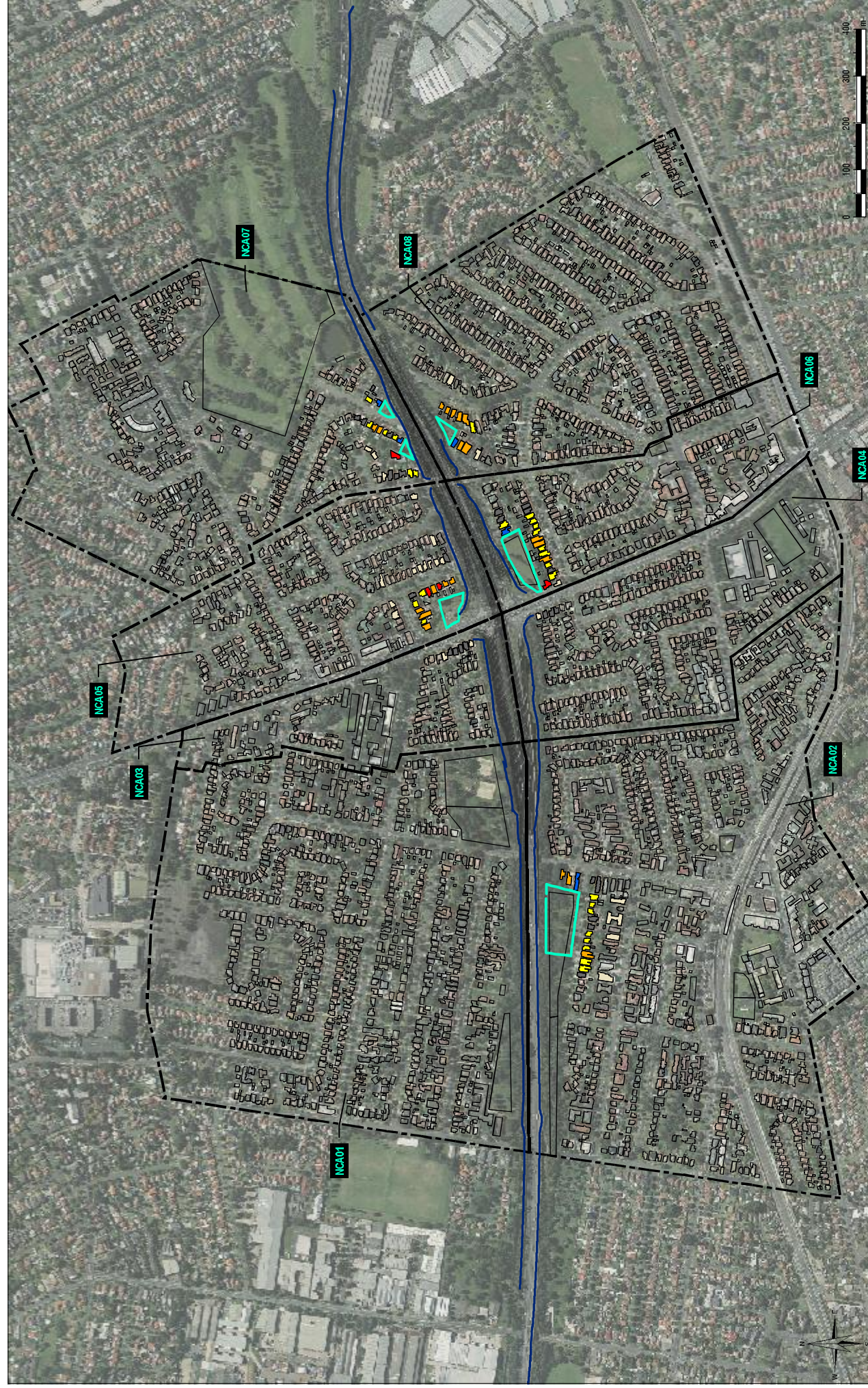
NCA	Type	Noise Level – LAeq(15minute) (dBA)										Noise Level – LA1(60second) (dBA)			
		Worst-case Predicted at Nearby Receivers	RBL			NML			NML Exceedance			Worst-case Predicted (night-time)	Screening Crit.	Exceed.	
			Day	Eve	Night	Day	Day OOH	Eve	Day	Day OOH	Eve				Night
NCA04.OOP	Other (Outdoor Passive)	up to 33	n/a	n/a	n/a	60	60	60	n/a	-	-	-	n/a	n/a	n/a
NCA04.RES	Residential	up to 55	53	52	44	63	58	57	49	-	-	-	up to 6	59	-
NCA05.COM	Commercial	up to 48	n/a	n/a	n/a	70	70	n/a	n/a	-	-	n/a	n/a	n/a	n/a
NCA05.RES	Residential	up to 79	47	46	40	57	52	51	45	up to 22	up to 27	up to 28	up to 34	83	28
NCA06.COM	Commercial	up to 44	n/a	n/a	n/a	70	70	n/a	n/a	-	-	n/a	n/a	n/a	n/a
NCA06.OCC	Other (Childcare)	<30	n/a	n/a	n/a	50	50	n/a	n/a	-	-	n/a	n/a	n/a	n/a
NCA06.OED	Other (Educational)	up to 47	n/a	n/a	n/a	55	n/a	n/a	n/a	-	n/a	n/a	n/a	n/a	n/a
NCA06.OOP	Other (Outdoor Passive)	up to 44	n/a	n/a	n/a	60	60	60	n/a	-	-	-	n/a	n/a	n/a
NCA06.OPB	Other (Public Building)	<30	n/a	n/a	n/a	60	60	60	n/a	-	-	-	n/a	n/a	n/a
NCA06.OPW	Other (Place of Worship)	up to 47	n/a	n/a	n/a	55	55	n/a	n/a	-	-	n/a	n/a	n/a	n/a
NCA06.RES	Residential	up to 79	51	50	44	61	56	55	49	up to 18	up to 23	up to 24	up to 30	83	24
NCA07.COM	Commercial	up to 60	n/a	n/a	n/a	70	70	n/a	n/a	-	-	n/a	n/a	n/a	n/a
NCA07.OAC	Other (Aged Care)	up to 44	50	49	40	60	55	54	45	-	-	-	-	48	-
NCA07.OCC	Other (Childcare)	up to 37	n/a	n/a	n/a	50	50	n/a	n/a	-	-	n/a	n/a	n/a	n/a
NCA07.OOA	Other (Outdoor Active)	up to 52	n/a	n/a	n/a	65	65	65	n/a	-	-	-	n/a	n/a	n/a
NCA07.OPB	Other (Public Building)	up to 44	n/a	n/a	n/a	60	60	60	n/a	-	-	-	n/a	n/a	n/a
NCA07.RES	Residential	up to 90	50	49	40	60	55	54	45	up to 30	up to 35	up to 36	up to 45	94	39
NCA08.IND	Industrial	up to 33	n/a	n/a	n/a	75	75	n/a	n/a	-	-	n/a	n/a	n/a	n/a
NCA08.OCC	Other (Childcare)	up to 37	n/a	n/a	n/a	50	50	n/a	n/a	-	-	n/a	n/a	n/a	n/a
NCA08.RES	Residential	up to 83	49	49	42	59	54	54	47	up to 24	up to 29	up to 29	up to 36	87	30
West of Project Area	Residential	up to 57	52	51	39	62	57	56	44	-	-	up to 1	up to 13	61	7
East of Project Area	Residential	up to 53	49	49	42	59	54	54	47	-	-	-	up to 6	57	-

Appendix L1

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Daytime NML exceedances during compound operation



WestConnex Delivery Authority

Worst-case Exceedence of Daytime NML (dBA)

Site Compounds

Stockpiling and materials storage areas within the sites, and the movement of construction plant and equipment"

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Date: 01/10/2014

Drawn by: NT

Scale: 1:11,000

Sheet Size: A4

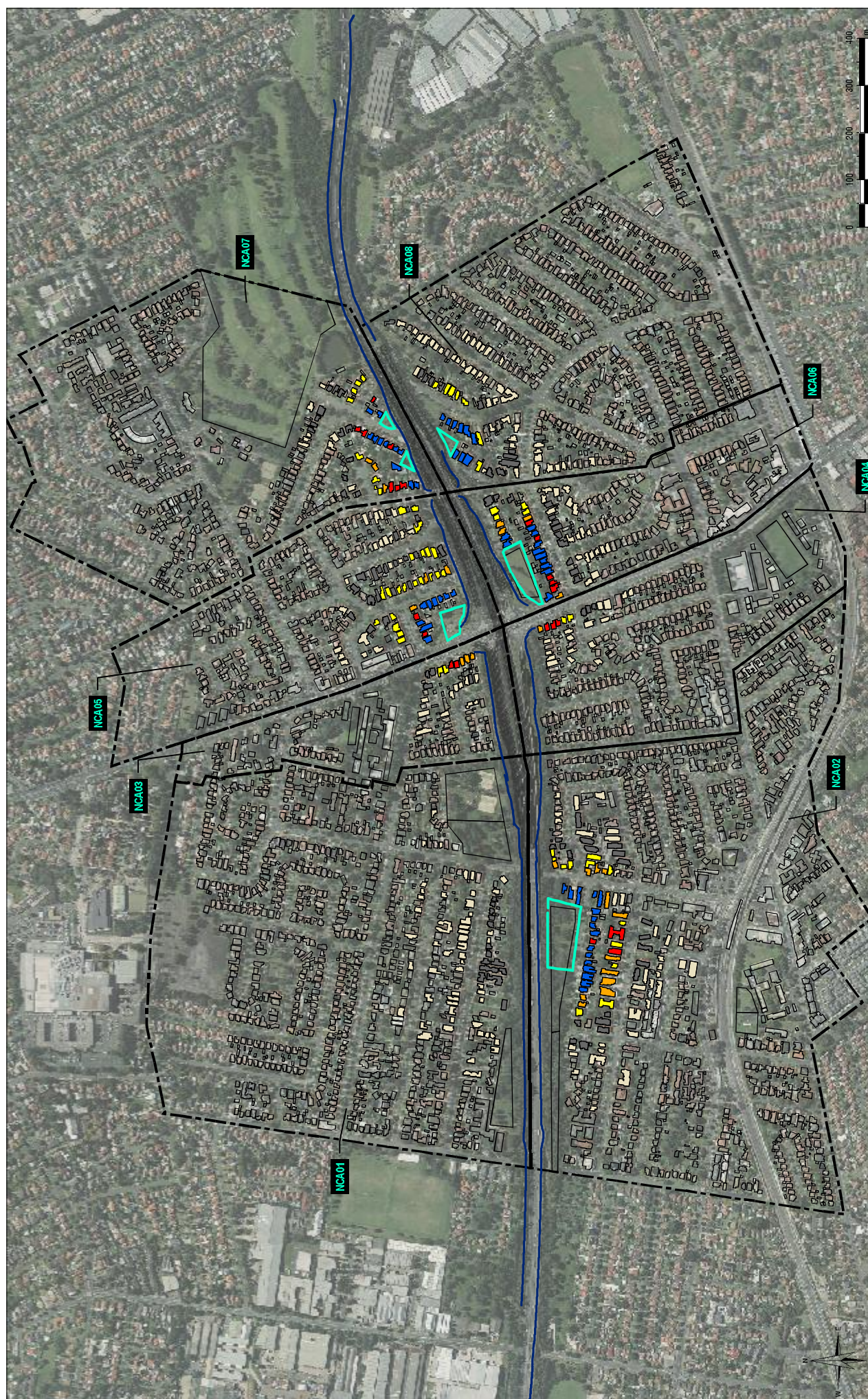
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Projection:	GDA 1994 M

2 LINCOLN STREET
LANE COVE
SOUTH WALES 2066
AUSTRALIA
T: 61 2 9427 8100
F: 61 2 9427 8200
www.slrconsulting.com



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Night-time NML exceedances during compound operation



WestConnex Delivery Authority

Worst-case Exceedence of Night-time NMVL (dBA)

Site Compounds

Stockpiling and materials storage areas within the sites, and the movement of construction plant and equipment





2 LINCOLN STREET
MILTON
NEW SOUTH WALES 2065
AUSTRALIA
T: 61 2 9427 8100
F: 61 2 9427 8200
www.slrconsulting.com

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WestConnex Delivery Authority

Mail

Locked Bag 928
North Sydney NSW 2059

T: 1300 660 248

E: info@westconnex.com.au

www.westconnex.com.au

