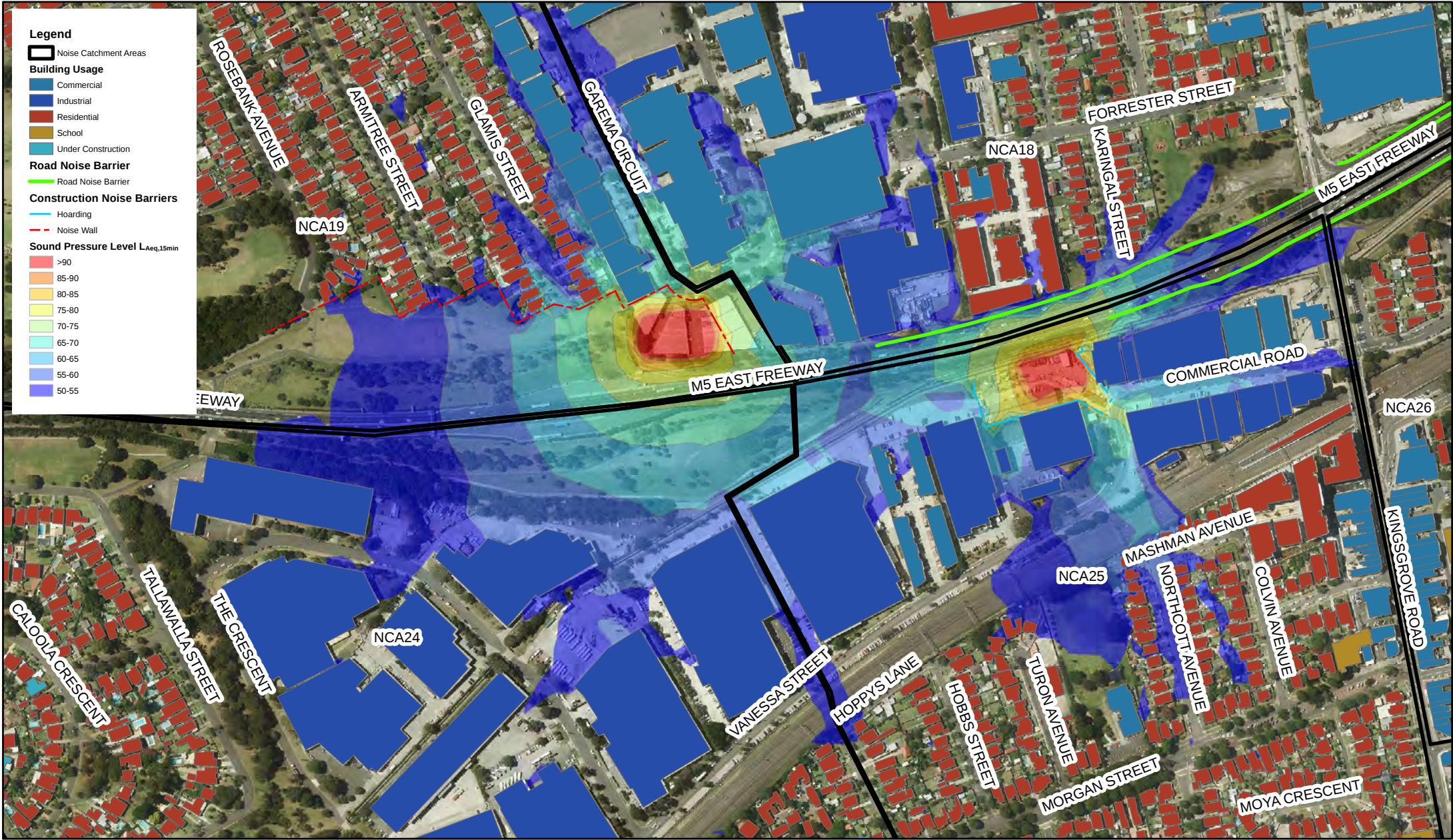




Legend

Noise Catchment Areas

Building Usage

Commercial

Industrial

Residential

School

Under Construction

Road Noise Barrier

Road Noise Barrier

Construction Noise Barriers

Hoarding

Noise Wall

Sound Pressure Level $L_{Aeq,15min}$

>90

85-90

80-85

75-80

70-75

65-70

60-65

55-60

50-55

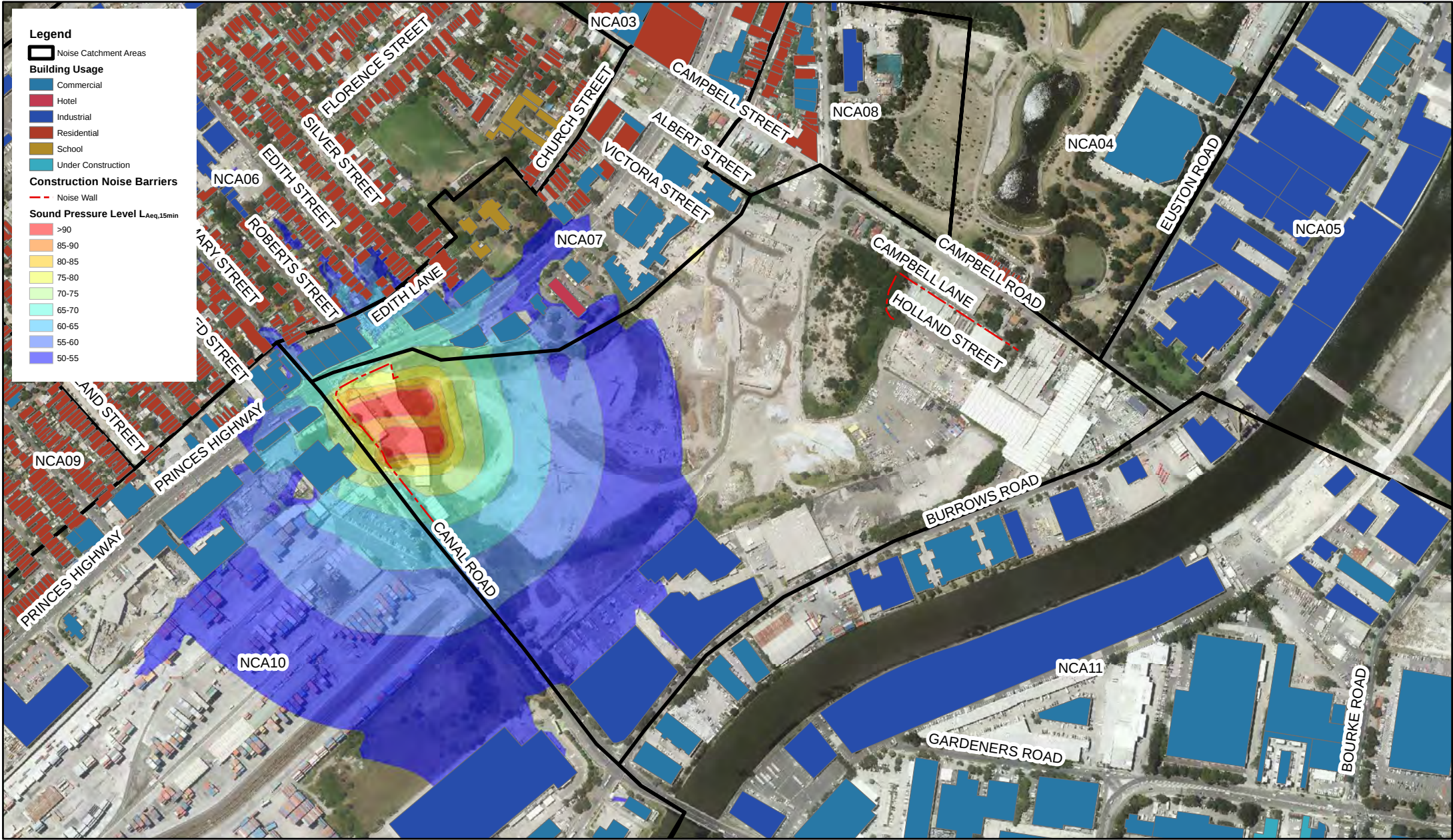
WestConnex Stage 2 - Construction Noise Assessment
Tunnelling works - Tunnelling support establishment - Piling; excavation of decline - Day

Time	Descriptor	Sound Pressure Level, L_{Aeq} dB(A)																													
		NCA1	NCA2	NCA3	NCA4	NCA5	NCA6	NCA7	NCA8	NCA9	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15	NCA16	NCA17	NCA18	NCA19	NCA20	NCA21	NCA22	NCA23	NCA24	NCA25	NCA26	NCA27	NCA28	NCA29	NCA30
Day	Background	57	45	45	57	57	45	52	54	60	58	58	55	49	47	51	54	48	48	45	50	47	47	49	50	47	47	60	52	47	53
	NML	67	55	55	67	67	55	62	64	70	68	68	65	59	57	61	64	58	55	60	57	57	59	60	57	57	70	62	57	63	
Evening	Background	51	43	43	51	51	43	50	45	54	56	52	55	48	47	51	54	48	48	45	49	46	46	49	50	47	47	58	51	47	52
	NML	56	48	48	56	56	48	55	50	59	61	57	60	53	52	56	59	53	53	50	54	51	51	54	55	52	63	56	52	57	
Night	Background	40	32	32	40	40	32	44	40	43	49	42	45	42	39	43	40	43	43	43	40	40	40	42	42	41	41	46	39	41	44
	NML	45	37	37	45	45	37	49	45	48	54	47	50	47	44	48	45	48	48	48	45	45	45	47	47	46	46	51	44	46	49

Source: SKM2014

02550100m

Fig. 12_01

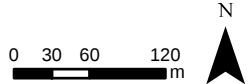


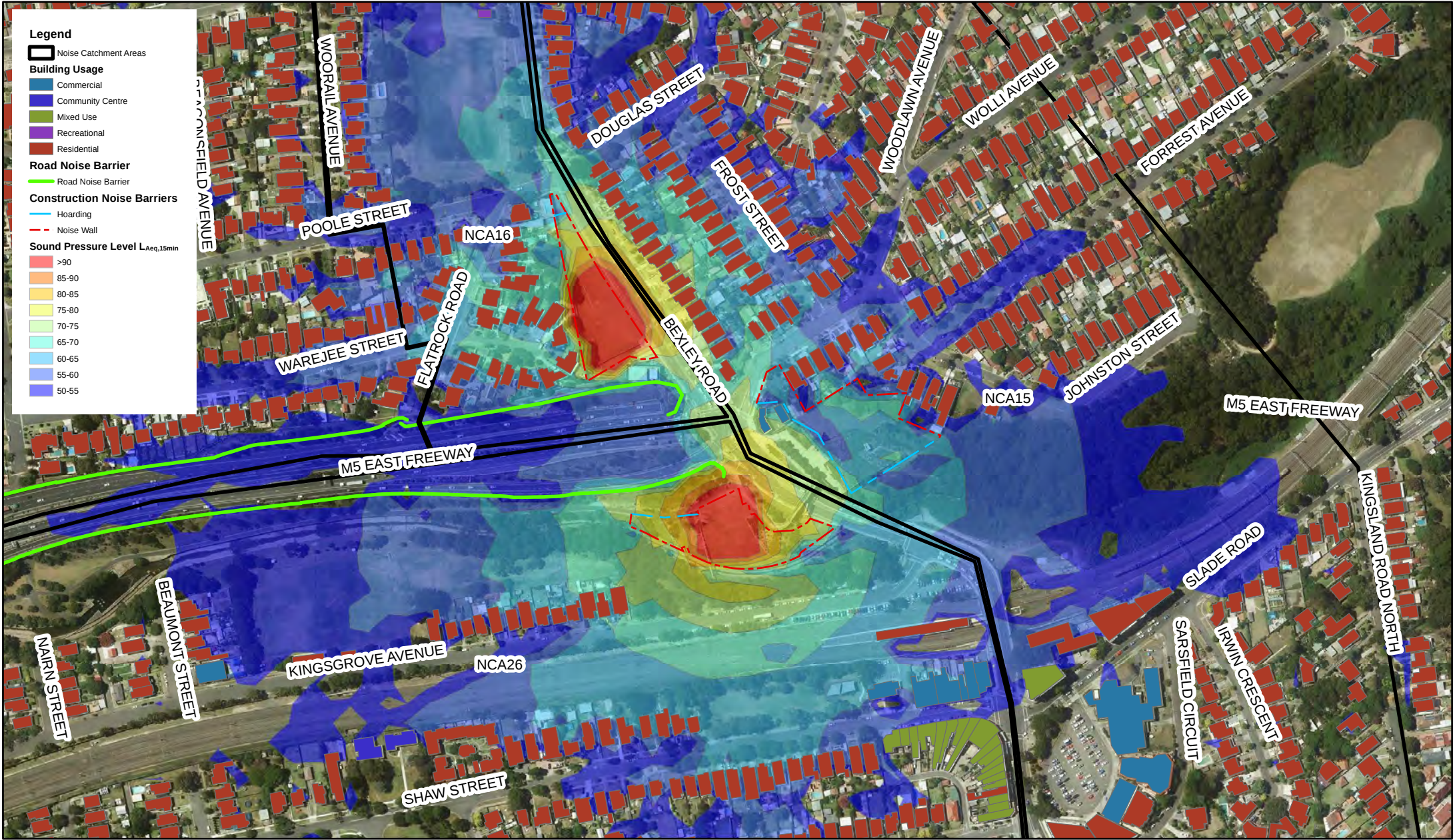
WestConnex Stage 2 - Construction Noise Assessment
Tunnelling works - Tunnelling support establishment - Piling; excavation of decline - Day

OCT 2015
60327128

Time	Descriptor	Sound Pressure Level, L _{eq} , dB(A)																													
		NCA1	NCA2	NCA3	NCA4	NCA5	NCA6	NCA7	NCA8	NCA9	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15	NCA16	NCA17	NCA18	NCA19	NCA20	NCA21	NCA22	NCA23	NCA24	NCA25	NCA26	NCA27	NCA28	NCA29	NCA30
Day	Background	57	45	45	57	57	45	52	54	60	58	58	55	49	47	51	54	48	48	45	50	47	47	49	50	47	47	60	52	47	53
	NML	67	55	55	67	67	55	62	64	70	68	68	65	59	57	61	64	58	58	55	60	57	57	59	60	57	57	70	62	57	63
Evening	Background	51	43	43	51	51	43	50	45	54	56	52	55	48	47	51	54	48	48	45	49	46	46	49	50	47	47	58	51	47	52
	NML	56	48	48	56	56	48	55	50	59	61	57	60	53	52	56	59	53	53	50	54	51	51	54	55	52	52	63	56	52	57
Night	Background	40	32	32	40	40	32	44	40	43	49	42	45	42	39	43	40	43	43	43	40	40	40	42	42	41	41	46	39	41	44
	NML	45	37	37	45	45	37	49	45	48	54	47	50	47	44	48	45	48	48	48	45	45	45	47	47	46	46	51	44	46	49

Source: SKM2014





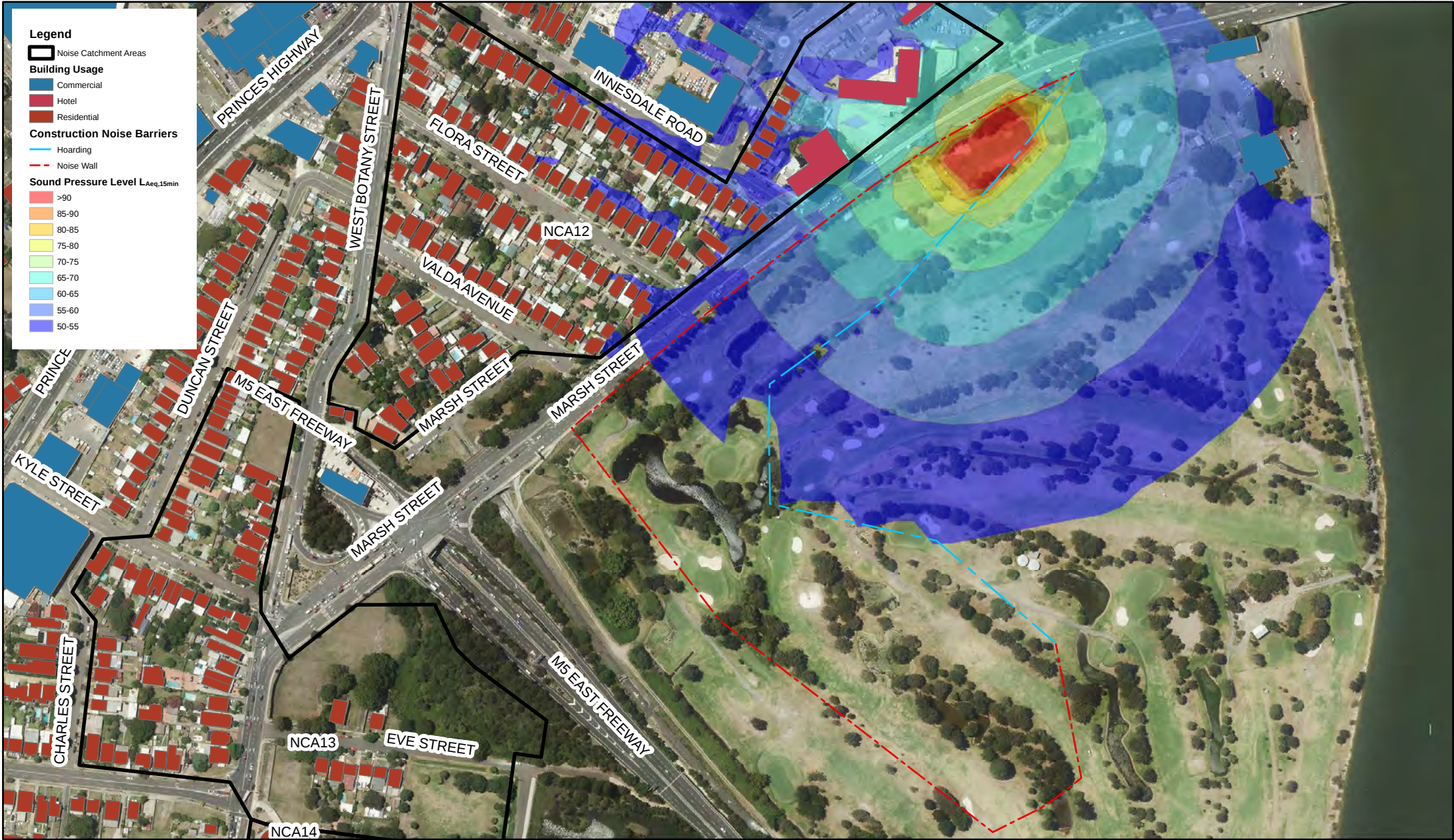
WestConnex Stage 2 - Construction Noise Assessment
Tunnelling works - Tunnelling support establishment - Piling; excavation of decline - Day

OCT 2015
60327128

Time	Descriptor	Sound Pressure Level, L_{Aeq} dB(A)																													
		NCA1	NCA2	NCA3	NCA4	NCA5	NCA6	NCA7	NCA8	NCA9	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15	NCA16	NCA17	NCA18	NCA19	NCA20	NCA21	NCA22	NCA23	NCA24	NCA25	NCA26	NCA27	NCA28	NCA29	NCA30
Day	Background	57	45	45	57	57	45	52	54	60	58	58	55	49	47	51	54	48	48	45	50	47	47	49	50	47	47	60	52	47	53
	NML	67	55	55	67	67	55	62	64	70	68	68	65	59	57	61	64	58	58	55	60	57	57	59	60	57	57	70	62	57	63
Evening	Background	51	43	43	51	51	43	50	45	54	56	52	55	48	47	51	54	48	48	45	49	46	46	49	50	47	47	58	51	47	52
	NML	56	48	48	56	56	48	55	50	59	61	57	60	53	52	56	59	53	53	50	54	51	51	54	55	52	52	63	56	52	57
Night	Background	40	32	32	40	40	32	44	40	43	49	42	45	42	39	43	40	43	43	43	40	40	40	42	42	41	41	46	39	41	44
	NML	45	37	37	45	45	37	49	45	48	54	47	50	47	44	48	45	48	48	48	45	45	45	47	47	46	46	51	44	46	49

Source: SKM2014



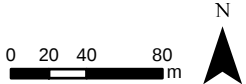


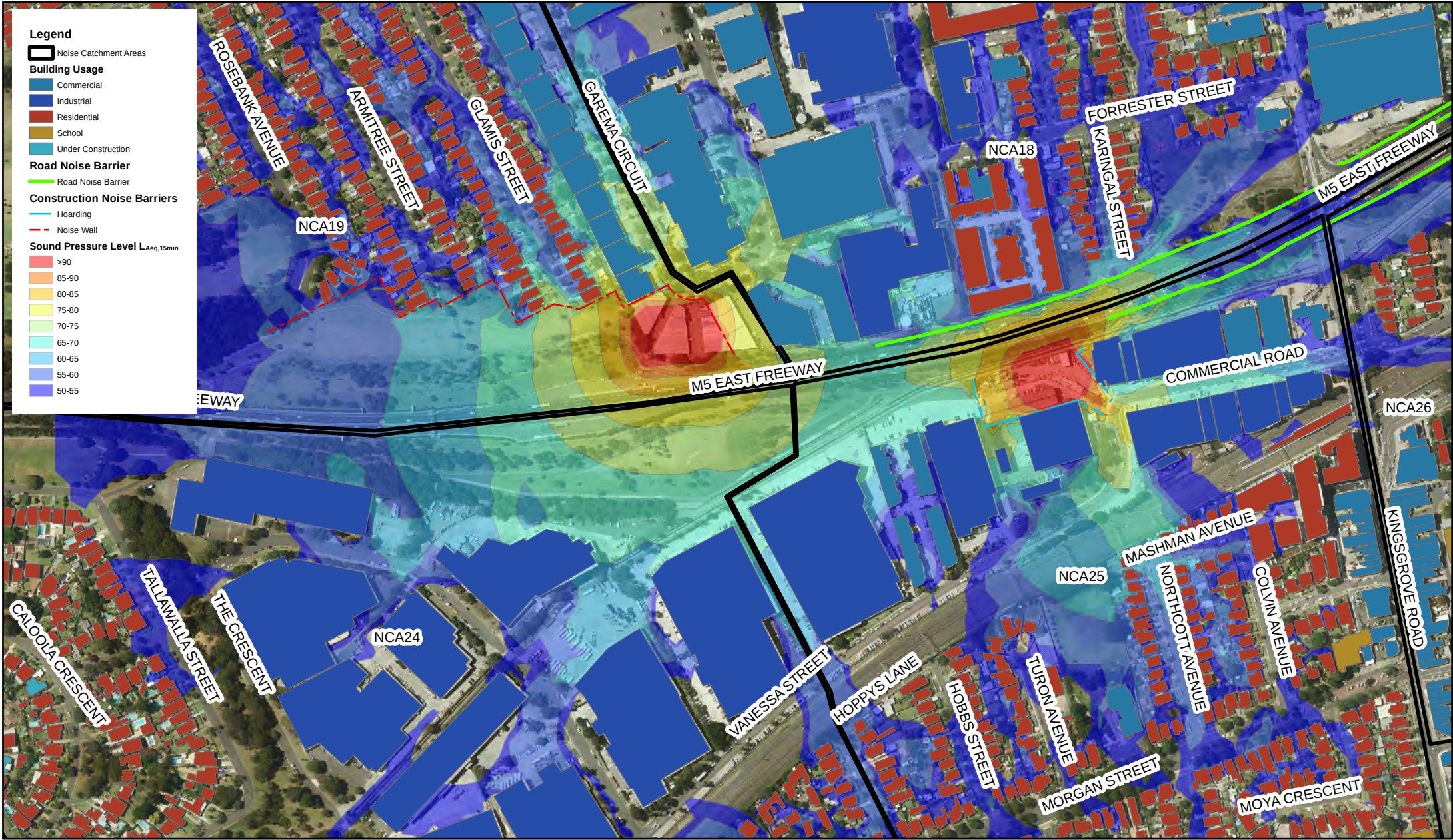
WestConnex Stage 2 - Construction Noise Assessment
Tunnelling works - Tunnelling support establishment - Piling; excavation of decline - Day

OCT 2015
60327128

Time	Descriptor	Sound Pressure Level, L _{Aeq} dB(A)																													
		NCA1	NCA2	NCA3	NCA4	NCA5	NCA6	NCA7	NCA8	NCA9	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15	NCA16	NCA17	NCA18	NCA19	NCA20	NCA21	NCA22	NCA23	NCA24	NCA25	NCA26	NCA27	NCA28	NCA29	NCA30
Day	Background	57	45	45	57	57	45	52	54	60	58	58	55	49	47	51	54	48	48	45	50	47	47	49	50	47	47	60	52	47	53
	NML	67	55	55	67	67	55	62	64	70	68	68	65	59	57	61	64	58	58	55	60	57	57	59	60	57	57	70	62	57	63
Evening	Background	51	43	43	51	51	43	50	45	54	56	52	55	48	47	51	54	48	48	45	49	46	46	49	50	47	47	58	51	47	52
	NML	56	48	48	56	56	48	55	50	59	61	57	60	53	52	56	59	53	53	50	54	51	51	54	55	52	52	63	56	52	57
Night	Background	40	32	32	40	40	32	44	40	43	49	42	45	42	39	43	40	43	43	43	40	40	40	42	42	41	41	46	39	41	44
	NML	45	37	37	45	45	37	49	45	48	54	47	50	47	44	48	45	48	48	48	45	45	45	47	47	46	46	51	44	46	49

Source: SKM2014

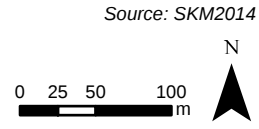


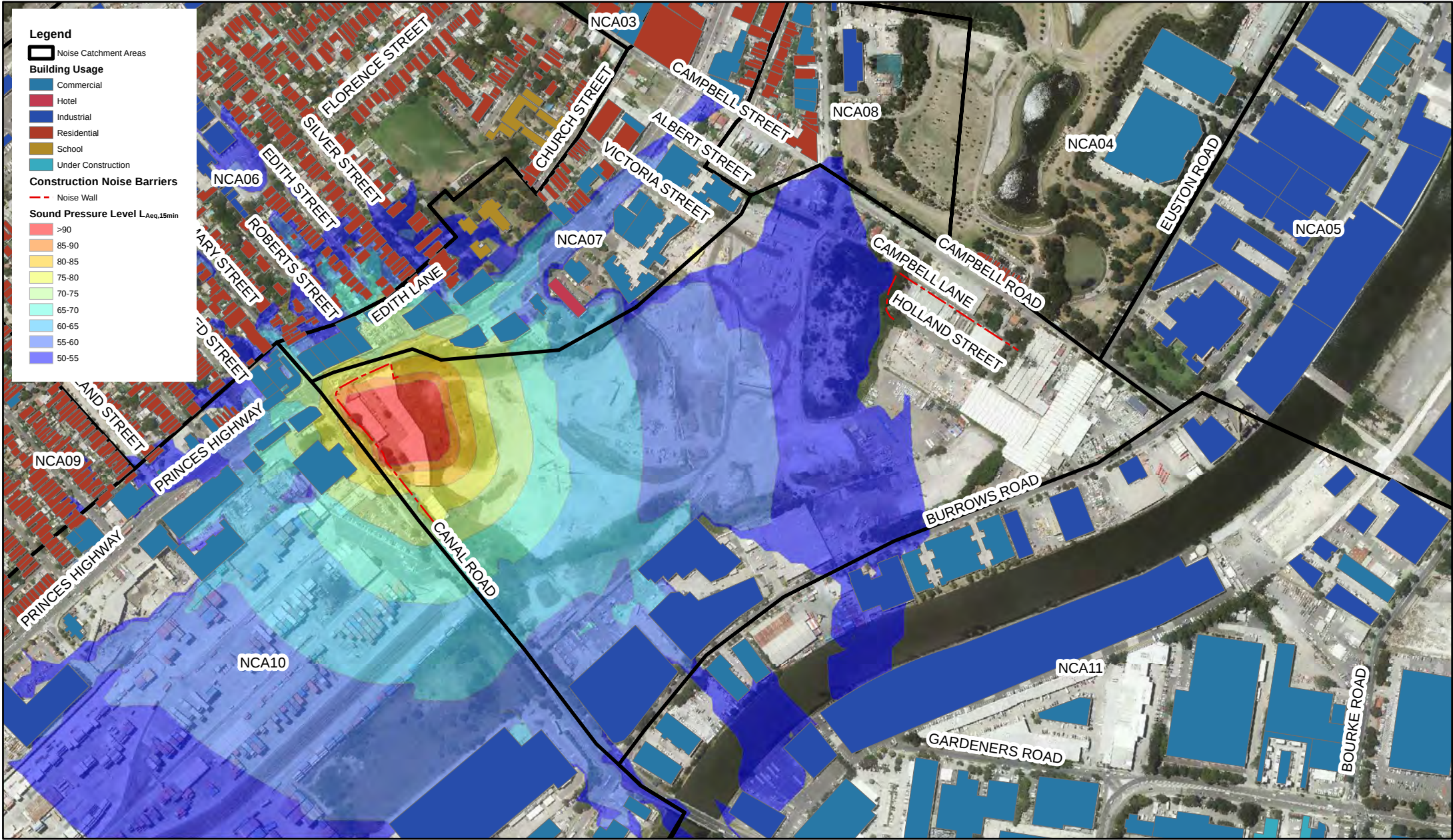


WestConnex Stage 2 - Construction Noise Assessment
Tunnelling works - Tunnelling support establishment - Decline excavation and construction (No rock hammering) - Day

OCT 2015
60327128

Time	Descriptor	Sound Pressure Level, L _{Aeq} dB(A)																													
		NCA1	NCA2	NCA3	NCA4	NCA5	NCA6	NCA7	NCA8	NCA9	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15	NCA16	NCA17	NCA18	NCA19	NCA20	NCA21	NCA22	NCA23	NCA24	NCA25	NCA26	NCA27	NCA28	NCA29	NCA30
Day	Background	57	45	45	57	57	45	52	54	60	58	58	55	49	47	51	54	48	48	45	50	47	47	49	50	47	47	60	52	47	53
	NML	67	55	55	67	67	55	62	64	70	68	68	65	59	57	61	64	58	58	55	60	57	57	59	60	57	57	70	62	57	63
Evening	Background	51	43	43	51	51	43	50	45	54	56	52	55	48	47	51	54	48	48	45	49	46	46	49	50	47	47	58	51	47	52
	NML	56	48	48	56	56	48	55	50	59	61	57	60	53	52	56	59	53	53	50	54	51	51	54	55	52	52	63	56	52	57
Night	Background	40	32	32	40	40	32	44	40	43	49	42	45	42	39	43	40	43	43	43	40	40	40	42	42	41	41	46	39	41	44
	NML	45	37	37	45	45	37	49	45	48	54	47	50	47	44	48	45	48	48	48	45	45	45	47	47	46	46	51	44	46	49





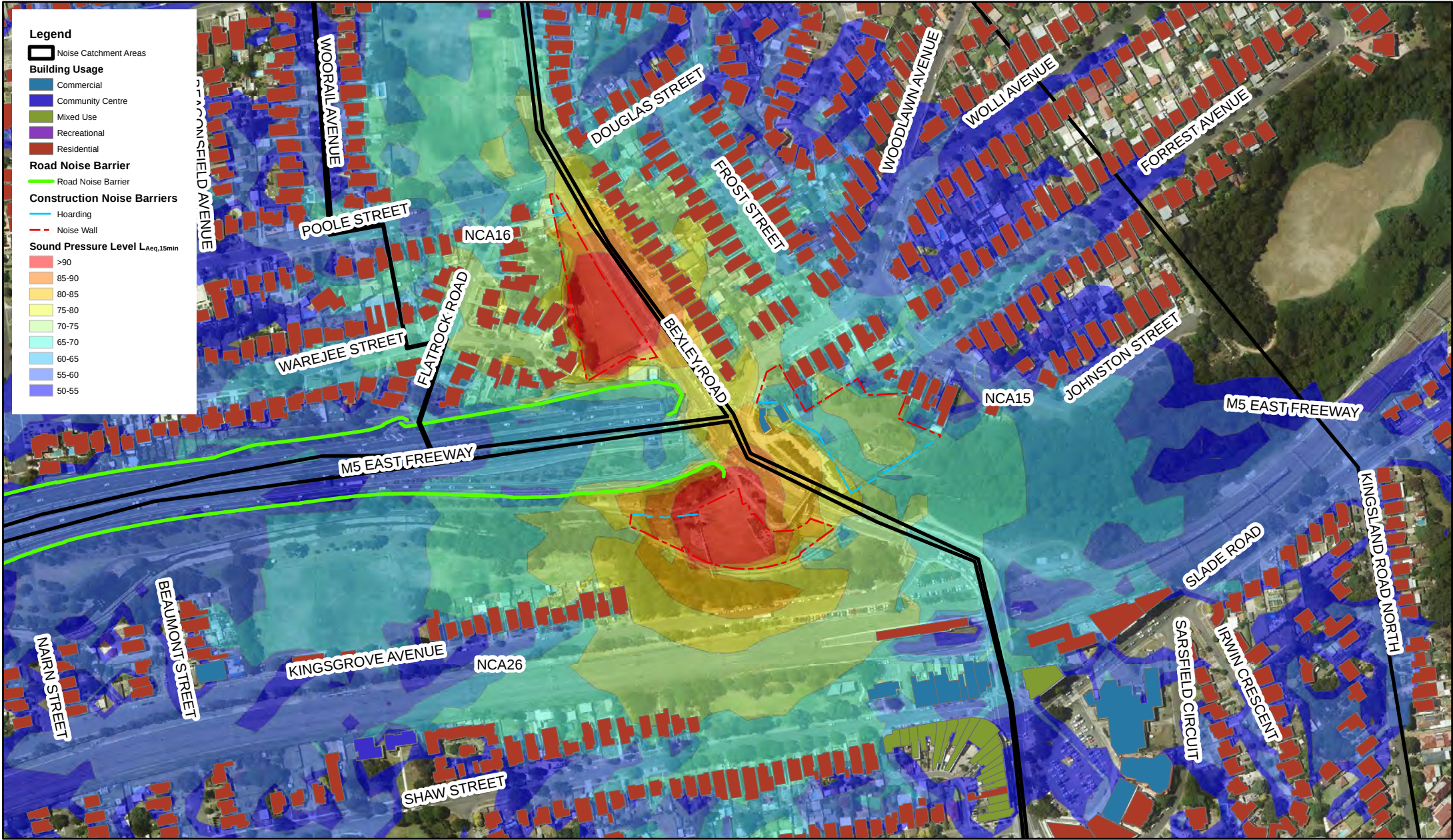
WestConnex Stage 2 - Construction Noise Assessment
Tunnelling works - Tunnelling support establishment - Decline excavation and construction (No rock hammering) - Day

OCT 2015
60327128

Time	Descriptor	Sound Pressure Level, L _{Aeq} dB(A)																													
		NCA1	NCA2	NCA3	NCA4	NCA5	NCA6	NCA7	NCA8	NCA9	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15	NCA16	NCA17	NCA18	NCA19	NCA20	NCA21	NCA22	NCA23	NCA24	NCA25	NCA26	NCA27	NCA28	NCA29	NCA30
Day	Background	57	45	45	57	57	45	52	54	60	58	58	55	49	47	51	54	48	48	45	50	47	47	49	50	47	47	60	52	47	53
	NML	67	55	55	67	67	55	62	64	70	68	68	65	59	57	61	64	58	58	55	60	57	57	59	60	57	57	70	62	57	63
Evening	Background	51	43	43	51	51	43	50	45	54	56	52	55	48	47	51	54	48	48	45	49	46	46	49	50	47	47	58	51	47	52
	NML	56	48	48	56	56	48	55	50	59	61	57	60	53	52	56	59	53	53	50	54	51	51	54	55	52	63	56	52	57	
Night	Background	40	32	32	40	40	32	44	40	43	49	42	45	42	39	43	40	43	43	43	40	40	40	42	42	41	41	46	39	41	44
	NML	45	37	37	45	45	37	49	45	48	54	47	50	47	44	48	45	48	48	48	45	45	45	47	47	46	46	51	44	46	49

Source: SKM2014



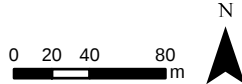


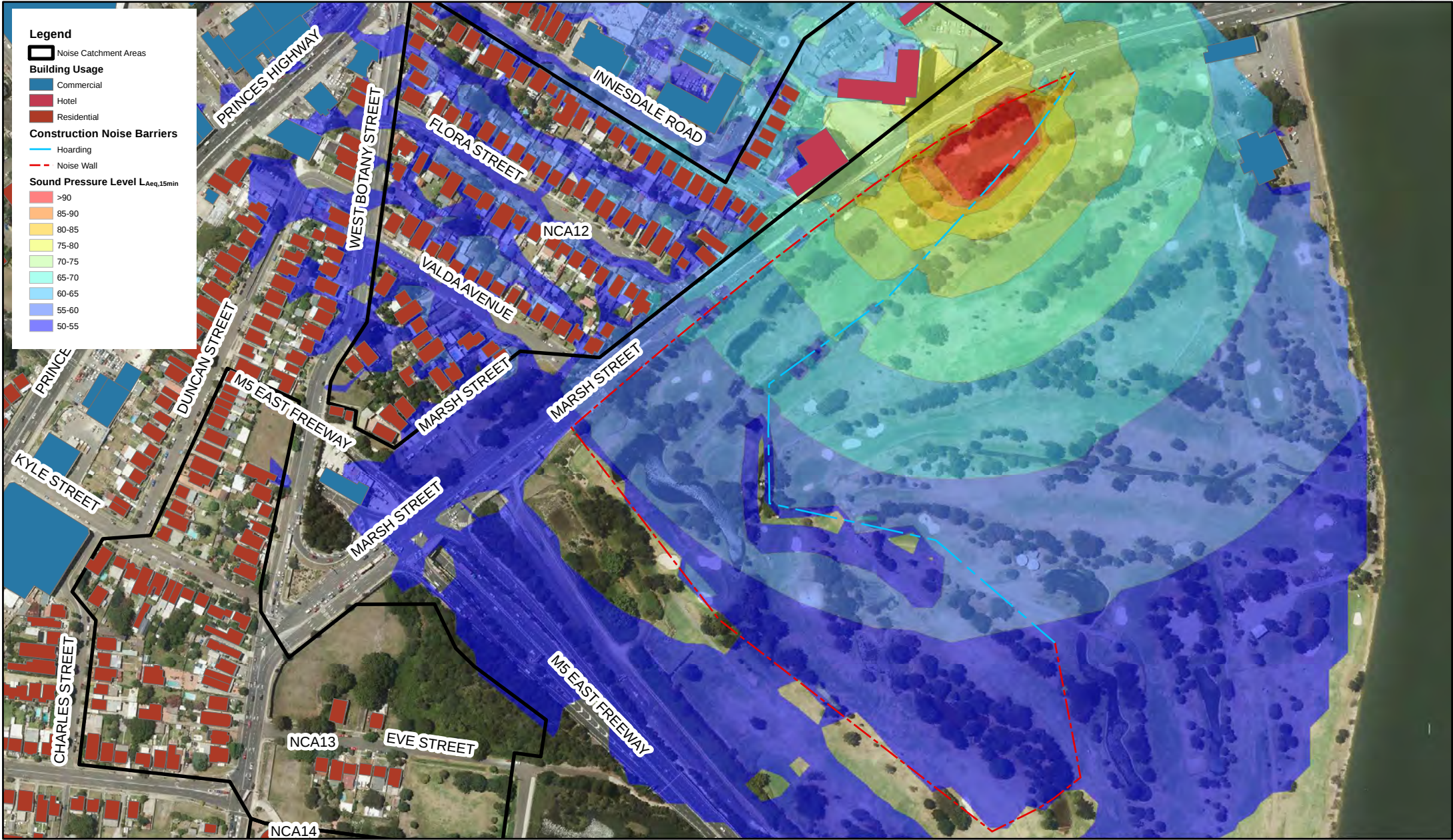
WestConnex Stage 2 - Construction Noise Assessment
Tunnelling works - Tunnelling support establishment - Decline excavation and construction (No rock hammering) - Day

OCT 2015
60327128

Time	Descriptor	Sound Pressure Level, L _{Aeq} dB(A)																													
		NCA1	NCA2	NCA3	NCA4	NCA5	NCA6	NCA7	NCA8	NCA9	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15	NCA16	NCA17	NCA18	NCA19	NCA20	NCA21	NCA22	NCA23	NCA24	NCA25	NCA26	NCA27	NCA28	NCA29	NCA30
Day	Background	57	45	45	57	57	45	52	54	60	58	58	55	49	47	51	54	48	48	45	50	47	47	49	50	47	47	60	52	47	53
	NML	67	55	55	67	67	55	62	64	70	68	68	65	59	57	61	64	58	58	55	60	57	57	59	60	57	57	70	62	57	63
Evening	Background	51	43	43	51	51	43	50	45	54	56	52	55	48	47	51	54	48	48	45	49	46	46	49	50	47	47	58	51	47	52
	NML	56	48	48	56	56	48	55	50	59	61	57	60	53	52	56	59	53	53	50	54	51	51	54	55	52	52	63	56	52	57
Night	Background	40	32	32	40	40	32	44	40	43	49	42	45	42	39	43	40	43	43	43	40	40	40	42	42	41	41	46	39	41	44
	NML	45	37	37	45	45	37	49	45	48	54	47	50	47	44	48	45	48	48	48	45	45	45	47	47	46	46	51	44	46	49

Source: SKM2014



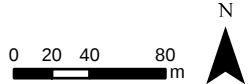


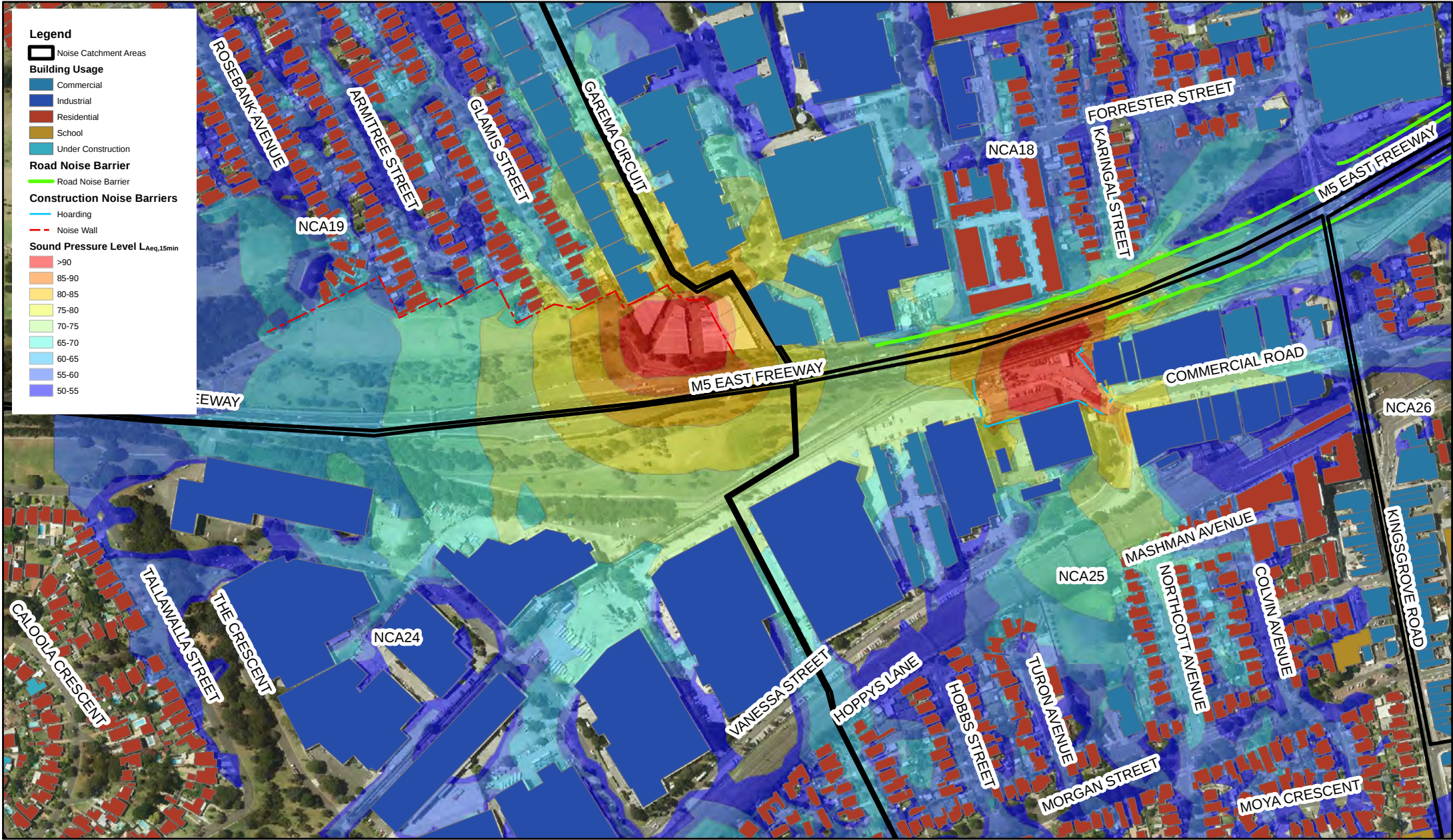
WestConnex Stage 2 - Construction Noise Assessment
Tunnelling works - Tunnelling support establishment - Decline excavation and construction (No rock hammering) - Day

OCT 2015
60327128

Time	Descriptor	Sound Pressure Level, L _{Aeq} dB(A)																													
		NCA1	NCA2	NCA3	NCA4	NCA5	NCA6	NCA7	NCA8	NCA9	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15	NCA16	NCA17	NCA18	NCA19	NCA20	NCA21	NCA22	NCA23	NCA24	NCA25	NCA26	NCA27	NCA28	NCA29	NCA30
Day	Background	57	45	45	57	57	45	52	54	70	58	58	55	49	47	51	54	48	48	45	50	47	47	49	50	47	47	60	52	47	53
	NML	67	55	55	67	67	55	62	64	60	68	68	65	59	57	61	64	58	58	55	60	57	57	59	60	57	57	70	62	57	63
Evening	Background	51	43	43	51	51	43	50	45	54	56	52	55	48	47	51	54	48	48	45	49	46	46	49	50	47	47	58	51	47	52
	NML	56	48	48	56	56	48	55	50	59	61	57	60	53	52	56	59	53	53	50	54	51	51	54	55	52	52	63	56	52	57
Night	Background	40	32	32	40	40	32	44	40	43	49	42	45	42	39	43	40	43	43	43	40	40	40	42	42	41	41	46	39	41	44
	NML	45	37	37	45	45	37	49	45	48	54	47	50	47	44	48	45	48	48	48	45	45	45	47	47	46	46	51	44	46	49

Source: SKM2014



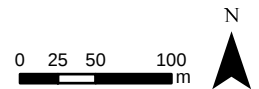


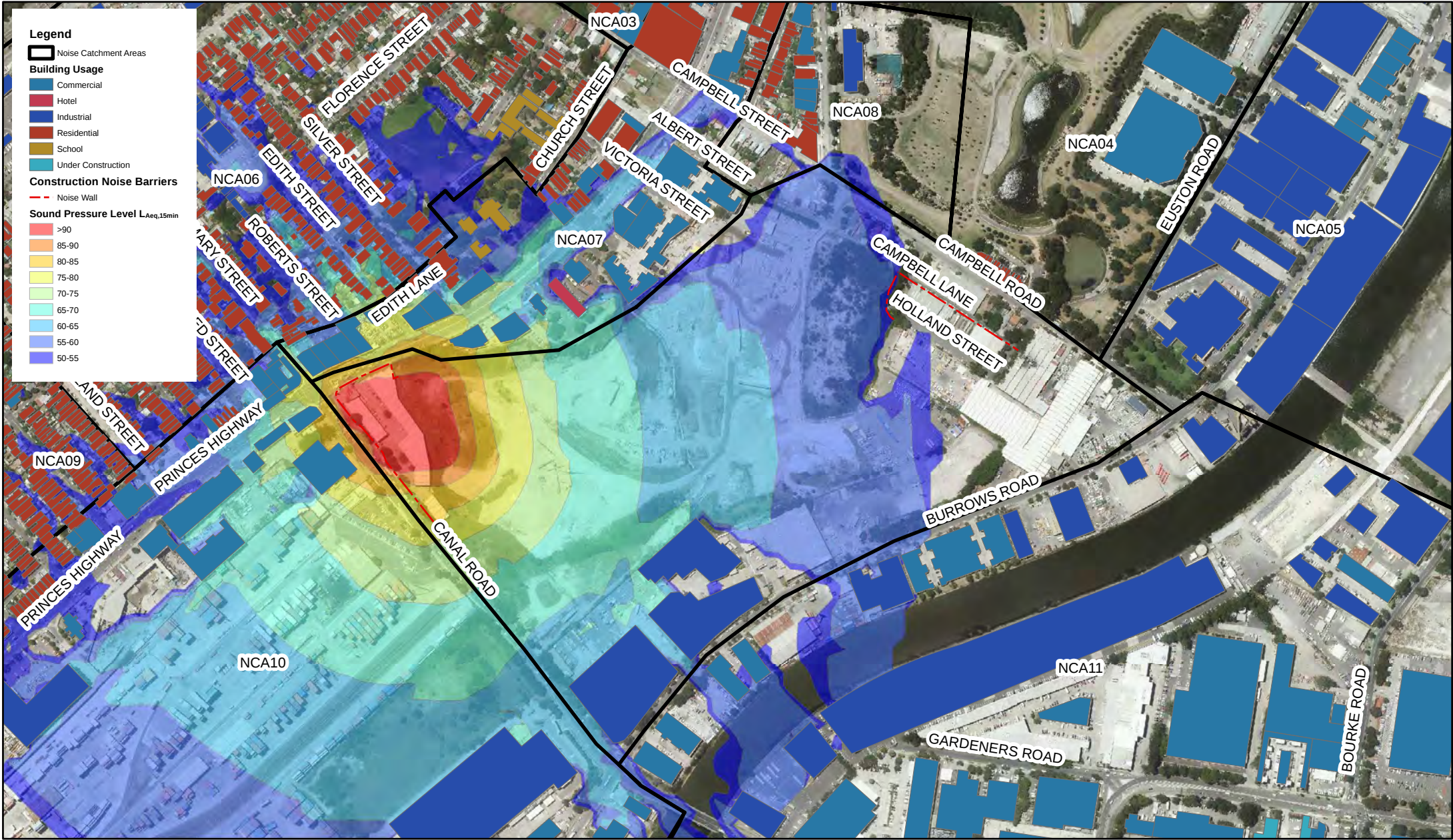
WestConnex Stage 2 - Construction Noise Assessment
Tunnelling works - Tunnelling support establishment - Decline excavation and construction (Rock hammering only) - Day

OCT 2015
60327128

Time	Descriptor	Sound Pressure Level, L_{Aeq} dB(A)																													
		NCA1	NCA2	NCA3	NCA4	NCA5	NCA6	NCA7	NCA8	NCA9	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15	NCA16	NCA17	NCA18	NCA19	NCA20	NCA21	NCA22	NCA23	NCA24	NCA25	NCA26	NCA27	NCA28	NCA29	NCA30
Day	Background	57	45	45	57	57	45	52	54	60	58	58	55	49	47	51	54	48	48	45	50	47	47	49	50	47	47	60	52	47	53
	NML	67	55	55	67	67	55	62	64	70	68	68	65	59	57	61	64	58	55	60	57	57	59	60	57	57	70	62	57	63	
Evening	Background	51	43	43	51	51	43	50	45	54	56	52	55	48	47	51	54	48	48	45	49	46	46	49	50	47	47	58	51	47	52
	NML	56	48	48	56	56	48	55	50	59	61	57	60	53	52	56	59	53	53	50	54	51	51	54	55	52	63	56	52	57	
Night	Background	40	32	32	40	40	32	44	40	43	49	42	45	42	39	43	40	43	43	43	40	40	40	42	42	41	41	46	39	41	44
	NML	45	37	37	45	45	37	49	45	48	54	47	50	47	44	48	45	48	48	48	45	45	45	47	47	46	46	51	44	46	49

Source: SKM2014



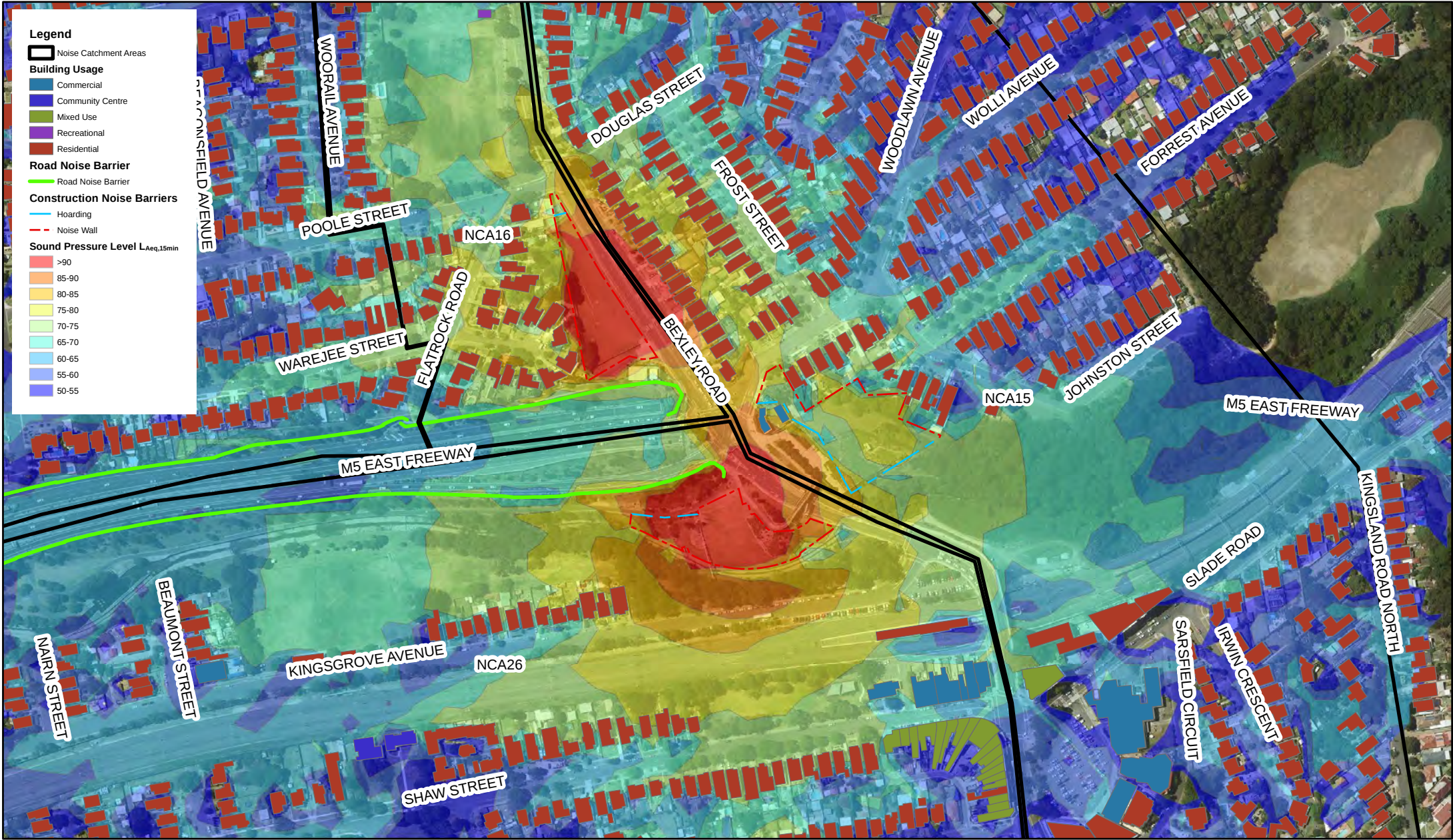


WestConnex Stage 2 - Construction Noise Assessment
Tunnelling works - Tunnelling support establishment - Decline excavation and construction (Rock hammering only) - Day

Time	Descriptor	Sound Pressure Level, L _{eq} dB(A)																													
		NCA1	NCA2	NCA3	NCA4	NCA5	NCA6	NCA7	NCA8	NCA9	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15	NCA16	NCA17	NCA18	NCA19	NCA20	NCA21	NCA22	NCA23	NCA24	NCA25	NCA26	NCA27	NCA28	NCA29	NCA30
Day	Background	57	45	45	57	57	45	52	54	60	58	58	55	49	47	51	54	48	48	45	50	47	47	49	50	47	47	60	52	47	53
	NML	67	55	55	67	67	55	62	64	70	68	68	65	59	57	61	64	58	58	55	60	57	57	59	60	57	57	70	62	57	63
Evening	Background	51	43	43	51	51	43	50	45	54	56	52	55	48	47	51	54	48	48	45	49	46	46	49	50	47	47	58	51	47	52
	NML	56	48	48	56	56	48	55	50	59	61	57	60	53	52	56	59	53	53	50	54	51	51	54	55	52	52	63	56	52	57
Night	Background	40	32	32	40	40	32	44	40	43	49	42	45	42	39	43	40	43	43	43	40	40	40	42	42	41	41	46	39	41	44
	NML	45	37	37	45	45	37	49	45	48	54	47	50	47	44	48	45	48	48	48	45	45	45	47	47	46	46	51	44	46	49

Source: SKM2014





WestConnex Stage 2 - Construction Noise Assessment
Tunnelling works - Tunnelling support establishment - Decline excavation and construction (Rock hammering only) - Day

OCT 2015
60327128

Time	Descriptor	Sound Pressure Level, L _{Aeq} dB(A)																													
		NCA1	NCA2	NCA3	NCA4	NCA5	NCA6	NCA7	NCA8	NCA9	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15	NCA16	NCA17	NCA18	NCA19	NCA20	NCA21	NCA22	NCA23	NCA24	NCA25	NCA26	NCA27	NCA28	NCA29	NCA30
Day	Background	57	45	45	57	57	45	52	54	60	58	58	55	49	47	51	54	48	48	45	50	47	47	49	50	47	47	60	52	47	53
	NML	67	55	55	67	67	55	62	64	70	68	68	65	59	57	61	64	58	58	55	60	57	57	59	60	57	57	70	62	57	63
Evening	Background	51	43	43	51	51	43	50	45	54	56	52	55	48	47	51	54	48	48	45	49	46	46	49	50	47	47	58	51	47	52
	NML	56	48	48	56	56	48	55	50	59	61	57	60	53	52	56	59	53	53	50	54	51	51	54	55	52	52	63	56	52	57
Night	Background	40	32	32	40	40	32	44	40	43	49	42	45	42	39	43	40	43	43	43	40	40	40	42	42	41	41	46	39	41	44
	NML	45	37	37	45	45	37	49	45	48	54	47	50	47	44	48	45	48	48	48	45	45	45	47	47	46	46	51	44	46	49

Source: SKM2014

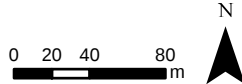
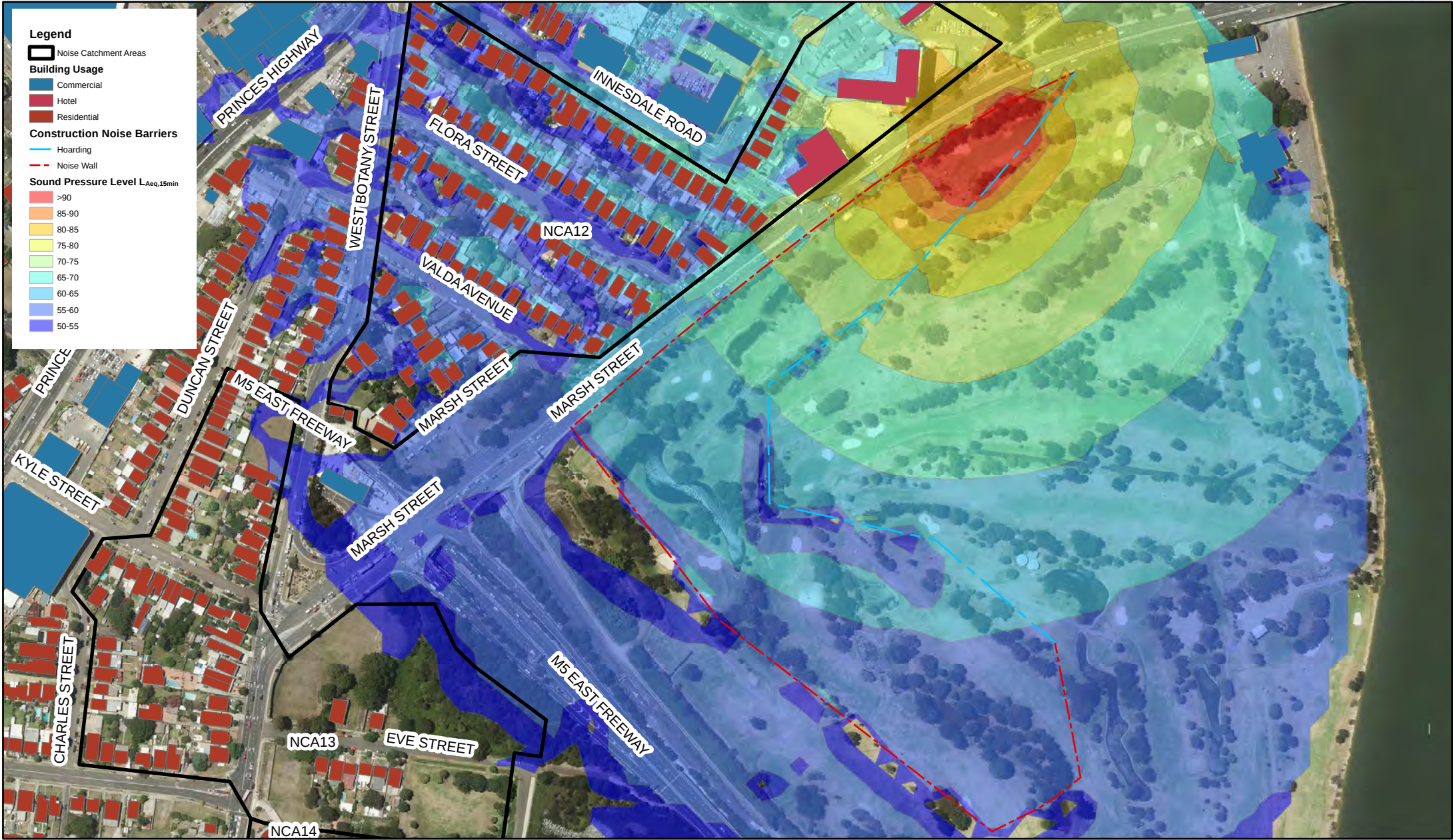


Fig.
12_02b

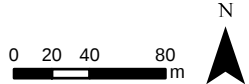


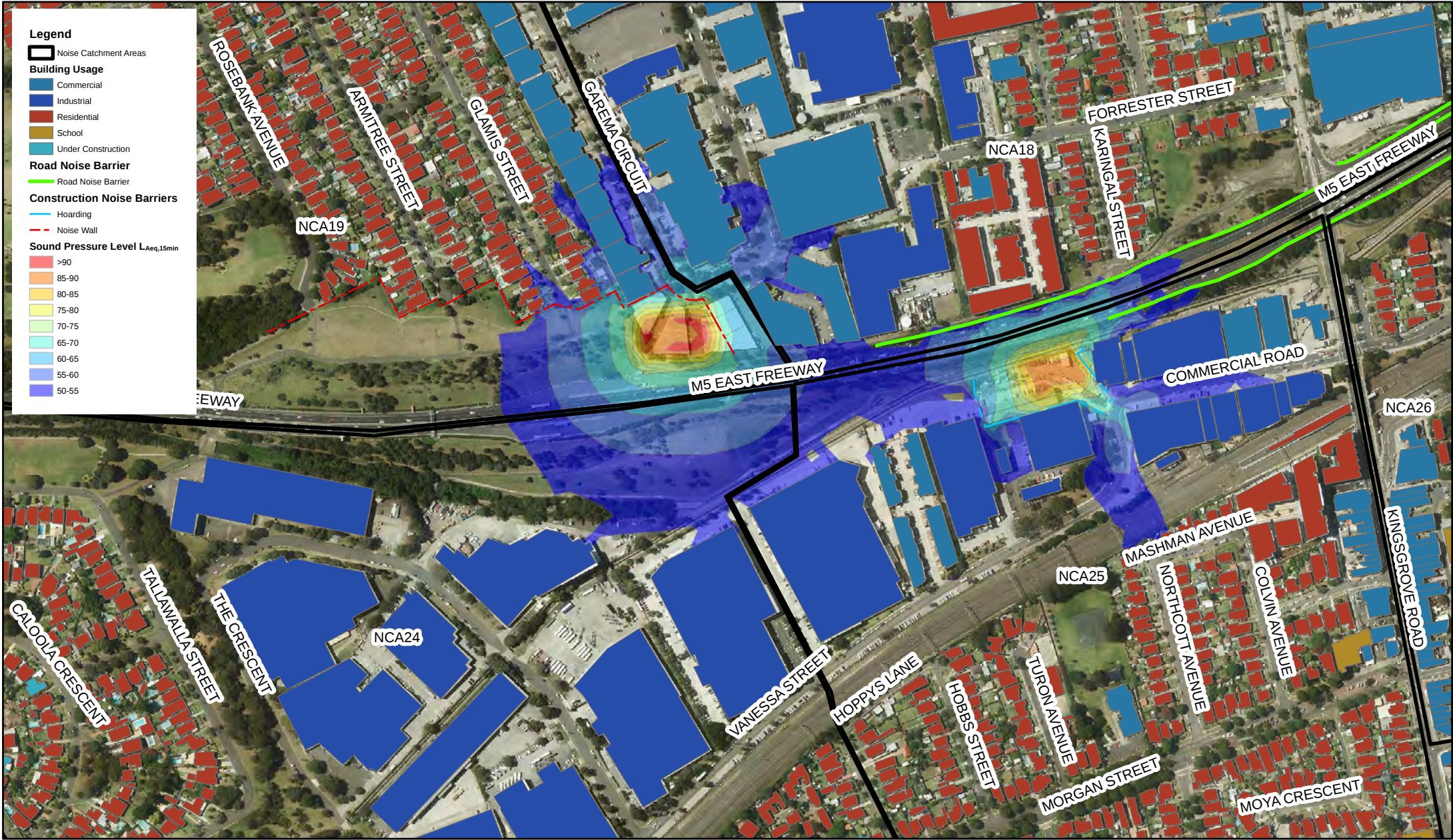
WestConnex Stage 2 - Construction Noise Assessment
Tunnelling works - Tunnelling support establishment - Decline excavation and construction (Rock hammering only) - Day

OCT 2015
60327128

Time	Descriptor	Sound Pressure Level, L _{Aeq} dB(A)																													
		NCA1	NCA2	NCA3	NCA4	NCA5	NCA6	NCA7	NCA8	NCA9	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15	NCA16	NCA17	NCA18	NCA19	NCA20	NCA21	NCA22	NCA23	NCA24	NCA25	NCA26	NCA27	NCA28	NCA29	NCA30
Day	Background	57	45	45	57	57	45	52	54	60	58	58	55	49	47	51	54	48	48	45	50	47	47	49	50	47	47	60	52	47	53
	NML	67	55	55	67	67	55	62	64	70	68	68	65	59	57	61	64	58	58	55	60	57	57	59	60	57	57	70	62	57	63
Evening	Background	51	43	43	51	51	43	50	45	54	56	52	55	48	47	51	54	48	48	45	49	46	46	49	50	47	47	58	51	47	52
	NML	56	48	48	56	56	48	55	50	59	61	57	60	53	52	56	59	53	53	50	54	51	51	54	55	52	52	63	56	52	57
Night	Background	40	32	32	40	40	32	44	40	43	49	42	45	42	39	43	40	43	43	43	40	40	40	42	42	41	41	46	39	41	44
	NML	45	37	37	45	45	37	49	45	48	54	47	50	47	44	48	45	48	48	48	45	45	45	47	47	46	46	51	44	46	49

Source: SKM2014



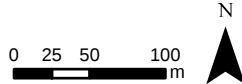


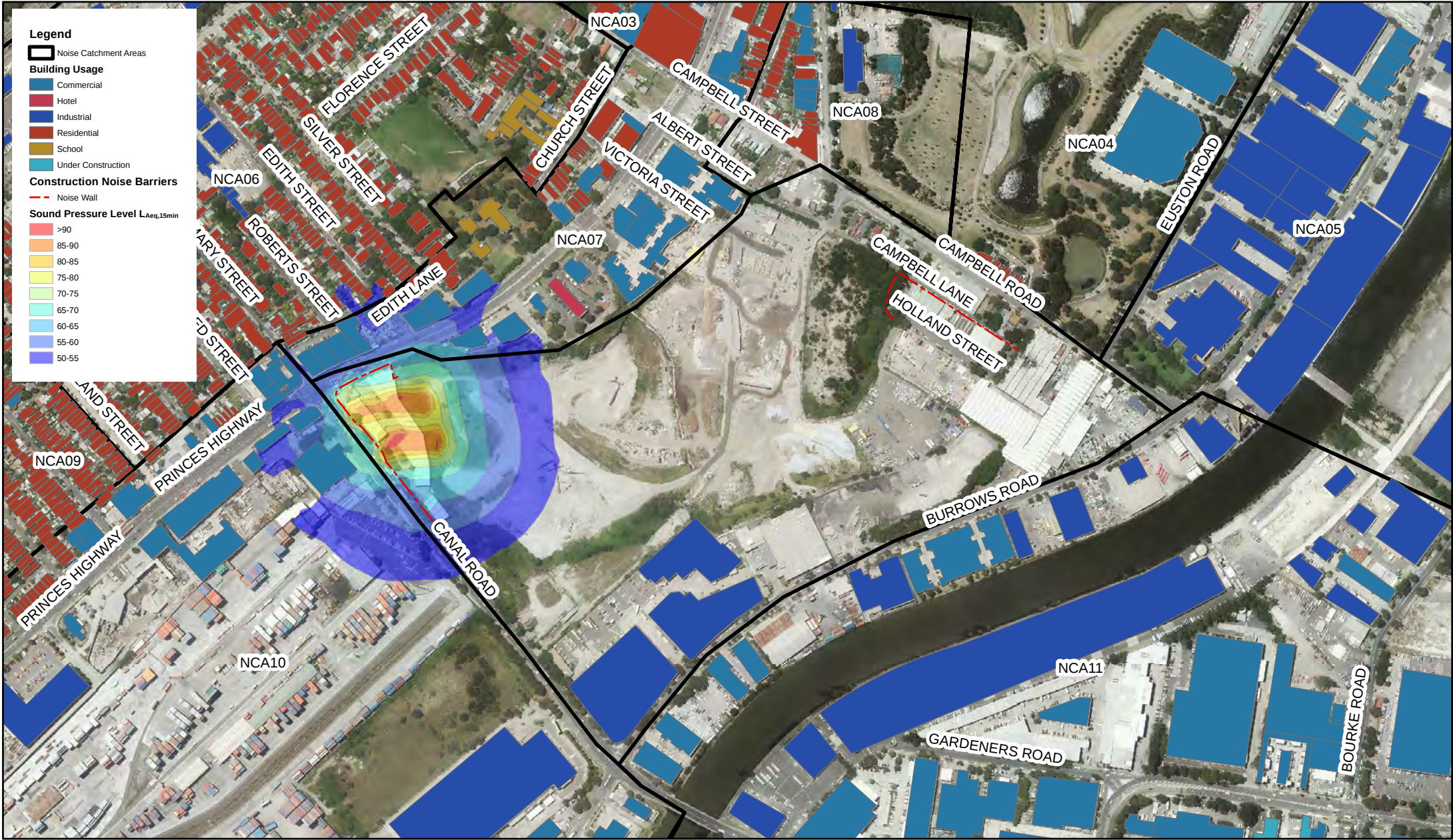
WestConnex Stage 2 - Construction Noise Assessment
Tunnelling works - Tunnelling support site - Tunneling and support - Day

OCT 2015
60327128

Time	Descriptor	Sound Pressure Level, L _{Aeq} dB(A)																													
		NCA1	NCA2	NCA3	NCA4	NCA5	NCA6	NCA7	NCA8	NCA9	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15	NCA16	NCA17	NCA18	NCA19	NCA20	NCA21	NCA22	NCA23	NCA24	NCA25	NCA26	NCA27	NCA28	NCA29	NCA30
Day	Background	57	45	45	57	57	45	52	54	60	58	58	55	49	47	51	54	48	48	45	50	47	47	49	50	47	47	60	52	47	53
	NML	67	55	55	67	67	55	62	64	70	68	68	65	59	57	61	64	58	58	55	60	57	57	59	60	57	57	70	62	57	63
Evening	Background	51	43	43	51	51	43	50	45	54	56	52	55	48	47	51	54	48	48	45	49	46	46	49	50	47	47	58	51	47	52
	NML	56	48	48	56	56	48	55	50	59	61	57	60	53	52	56	59	53	53	50	54	51	51	54	55	52	52	63	56	52	57
Night	Background	40	32	32	40	40	32	44	40	43	49	42	45	42	39	43	40	43	43	43	40	40	40	42	42	41	41	46	39	41	44
	NML	45	37	37	45	45	37	49	45	48	54	47	50	47	44	48	45	48	48	48	45	45	45	47	47	46	46	51	44	46	49

Source: SKM2014



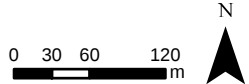


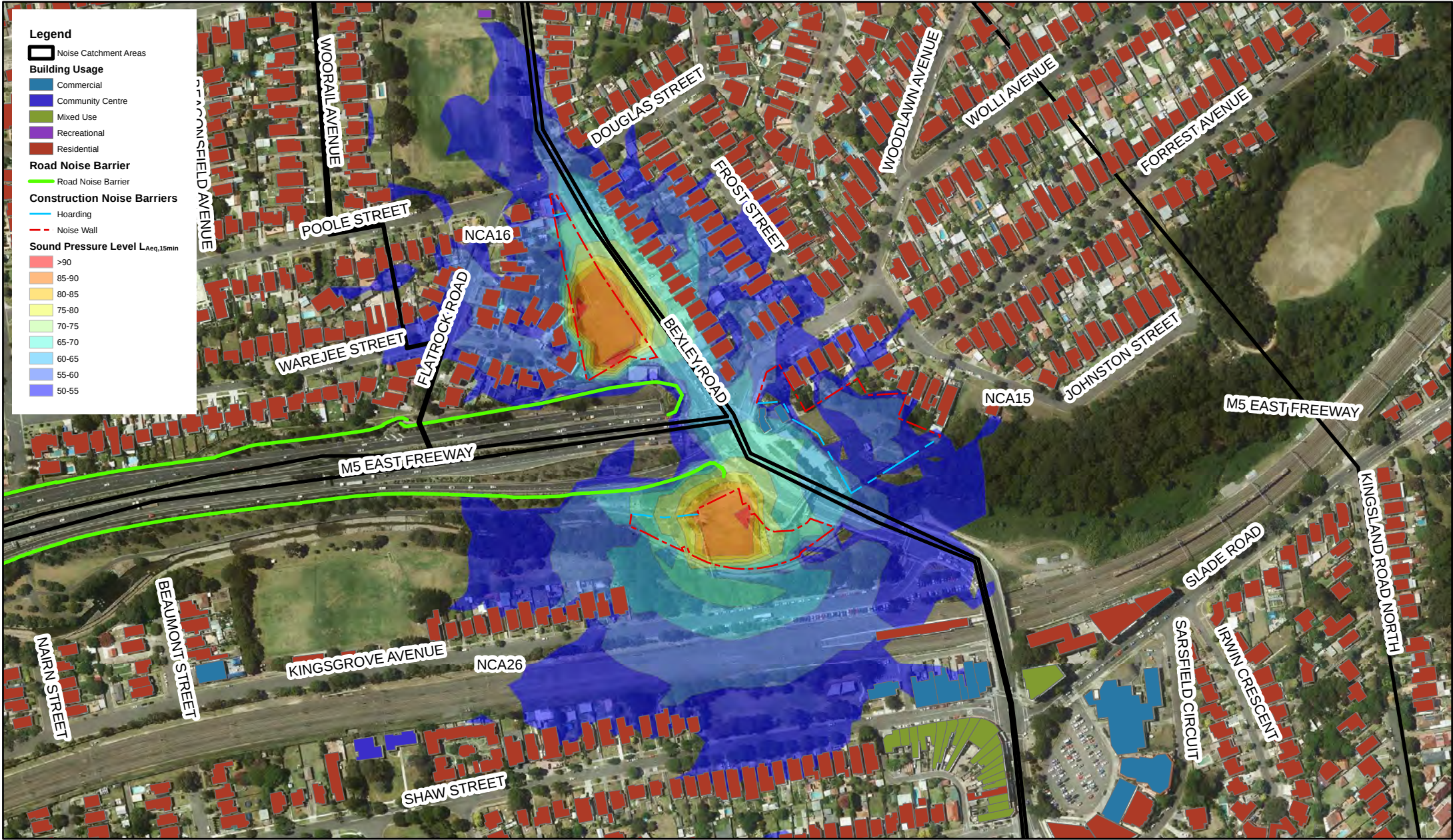
WestConnex Stage 2 - Construction Noise Assessment
Tunnelling works - Tunnelling support site - Tunneling and support - Day

OCT 2015
60327128

Time	Descriptor	Sound Pressure Level, L _{Aeq} , dB(A)																													
		NCA1	NCA2	NCA3	NCA4	NCA5	NCA6	NCA7	NCA8	NCA9	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15	NCA16	NCA17	NCA18	NCA19	NCA20	NCA21	NCA22	NCA23	NCA24	NCA25	NCA26	NCA27	NCA28	NCA29	NCA30
Day	Background	57	45	45	57	57	45	52	54	60	58	58	55	49	47	51	54	48	48	45	50	47	47	49	50	47	47	60	52	47	53
	NML	67	55	55	67	67	55	62	64	70	68	68	65	59	57	61	64	58	58	55	60	57	57	59	60	57	57	70	62	57	63
Evening	Background	51	43	43	51	51	43	50	45	54	56	52	55	48	47	51	54	48	48	45	49	46	46	49	50	47	47	58	51	47	52
	NML	56	48	48	56	56	48	55	50	59	61	57	60	53	52	56	59	53	53	50	54	51	51	54	55	52	52	63	56	52	57
Night	Background	40	32	32	40	40	32	44	40	43	49	42	45	42	39	43	40	43	43	43	40	40	40	42	42	41	41	46	39	41	44
	NML	45	37	37	45	45	37	49	45	48	54	47	50	47	44	48	45	48	48	48	45	45	45	47	47	46	46	51	44	46	49

Source: SKM2014



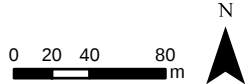


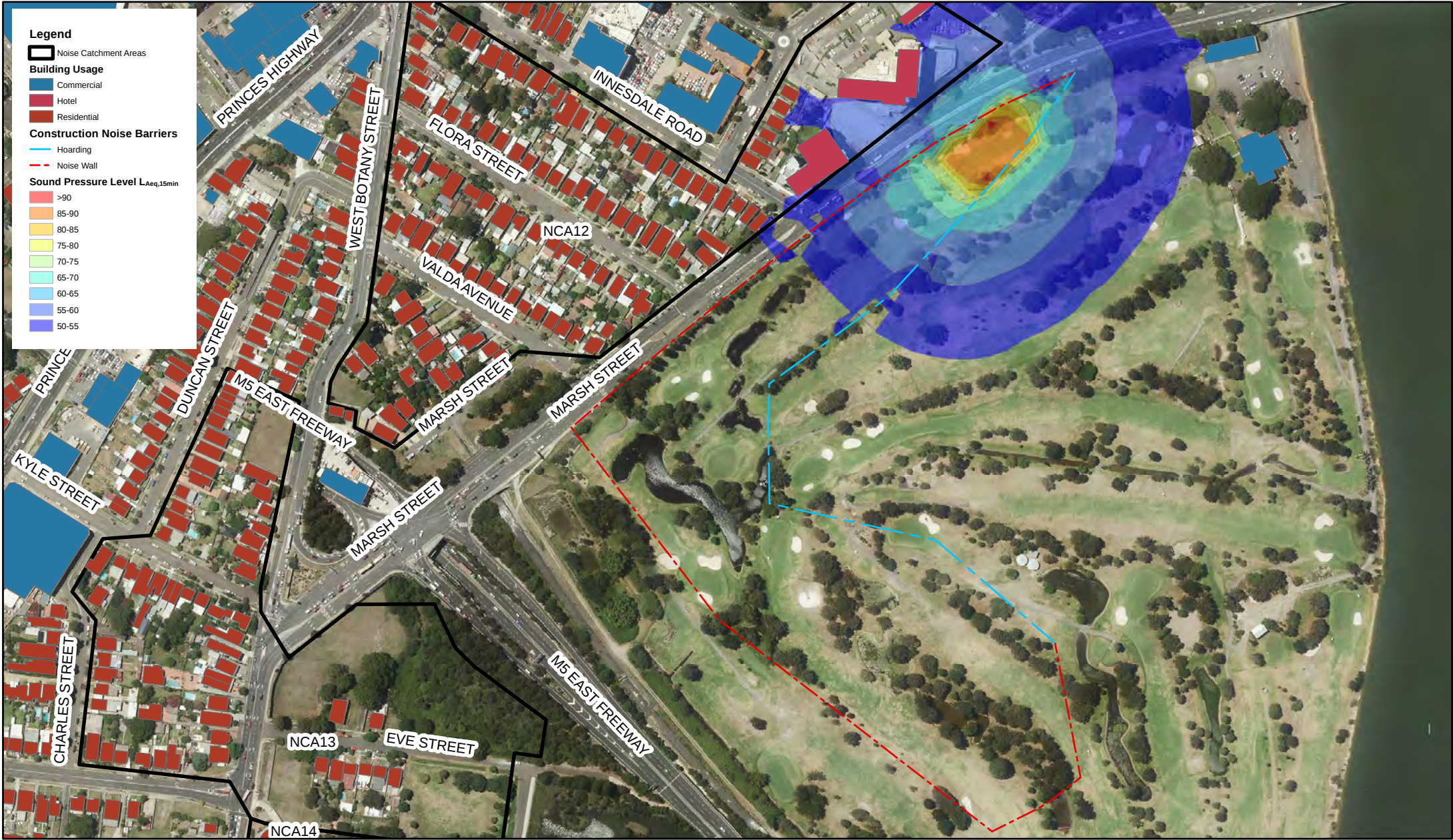
WestConnex Stage 2 - Construction Noise Assessment
Tunnelling works - Tunnelling support site - Tunneling and support - Day

OCT 2015
60327128

Time	Descriptor	Sound Pressure Level, L _{Aeq} , dB(A)																													
		NCA1	NCA2	NCA3	NCA4	NCA5	NCA6	NCA7	NCA8	NCA9	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15	NCA16	NCA17	NCA18	NCA19	NCA20	NCA21	NCA22	NCA23	NCA24	NCA25	NCA26	NCA27	NCA28	NCA29	NCA30
Day	Background	57	45	45	57	57	45	52	54	60	58	58	55	49	47	51	54	48	48	45	50	47	47	49	50	47	47	60	52	47	53
	NML	67	55	55	67	67	55	62	64	70	68	68	65	59	57	61	64	58	58	55	60	57	57	59	60	57	57	70	62	57	63
Evening	Background	51	43	43	51	51	43	50	45	54	56	52	55	48	47	51	54	48	48	45	49	46	46	49	50	47	47	58	51	47	52
	NML	56	48	48	56	56	48	55	50	59	61	57	60	53	52	56	59	53	53	50	54	51	51	54	55	52	52	63	56	52	57
Night	Background	40	32	32	40	40	32	44	40	43	49	42	45	42	39	43	40	43	43	43	40	40	40	42	42	41	41	46	39	41	44
	NML	45	37	37	45	45	37	49	45	48	54	47	50	47	44	48	45	48	48	48	45	45	45	47	47	46	46	51	44	46	49

Source: SKM2014





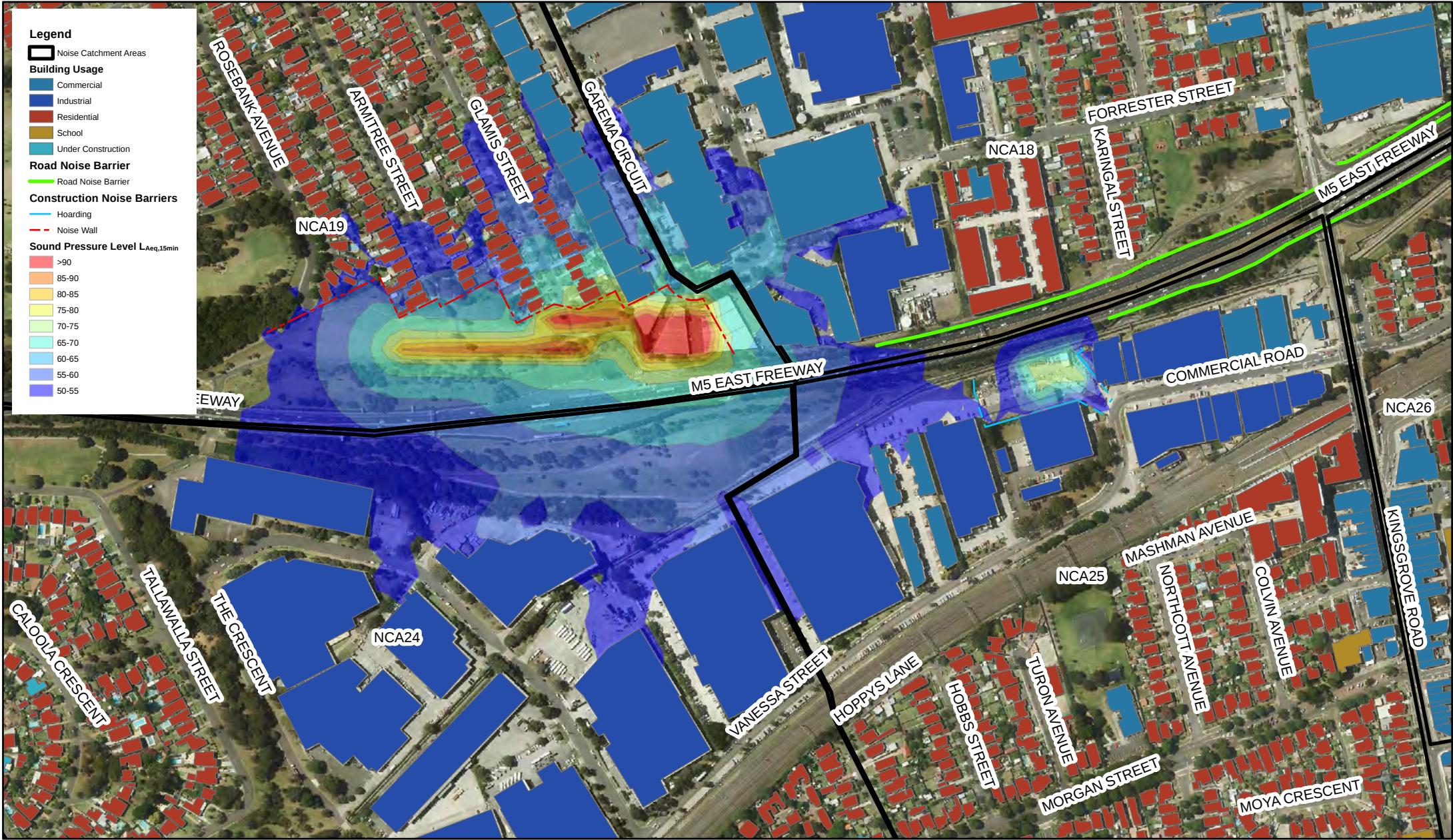
WestConnex Stage 2 - Construction Noise Assessment
Tunnelling works - Tunnelling support site - Tunneling and support - Day

OCT 2015
60327128

Time	Descriptor	Sound Pressure Level, L _{Aeq} dB(A)																													
		NCA1	NCA2	NCA3	NCA4	NCA5	NCA6	NCA7	NCA8	NCA9	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15	NCA16	NCA17	NCA18	NCA19	NCA20	NCA21	NCA22	NCA23	NCA24	NCA25	NCA26	NCA27	NCA28	NCA29	NCA30
Day	Background	57	45	45	57	57	45	52	54	60	58	58	55	49	47	51	54	48	48	45	50	47	47	49	50	47	47	60	52	47	53
	NML	67	55	55	67	67	55	62	64	70	68	68	65	59	57	61	64	58	58	55	60	57	57	59	60	57	57	70	62	57	63
Evening	Background	51	43	43	51	51	43	50	45	54	56	52	55	48	47	51	54	48	48	45	49	46	46	49	50	47	47	58	51	47	52
	NML	56	48	48	56	56	48	55	50	59	61	57	60	53	52	56	59	53	53	50	54	51	51	54	55	52	52	63	56	52	57
Night	Background	40	32	32	40	40	32	44	40	43	49	42	45	42	39	43	40	43	43	43	40	40	40	42	42	41	41	46	39	41	44
	NML	45	37	37	45	45	37	49	45	48	54	47	50	47	44	48	45	48	48	48	45	45	45	47	47	46	46	51	44	46	49

Source: SKM2014



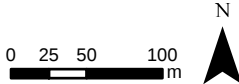


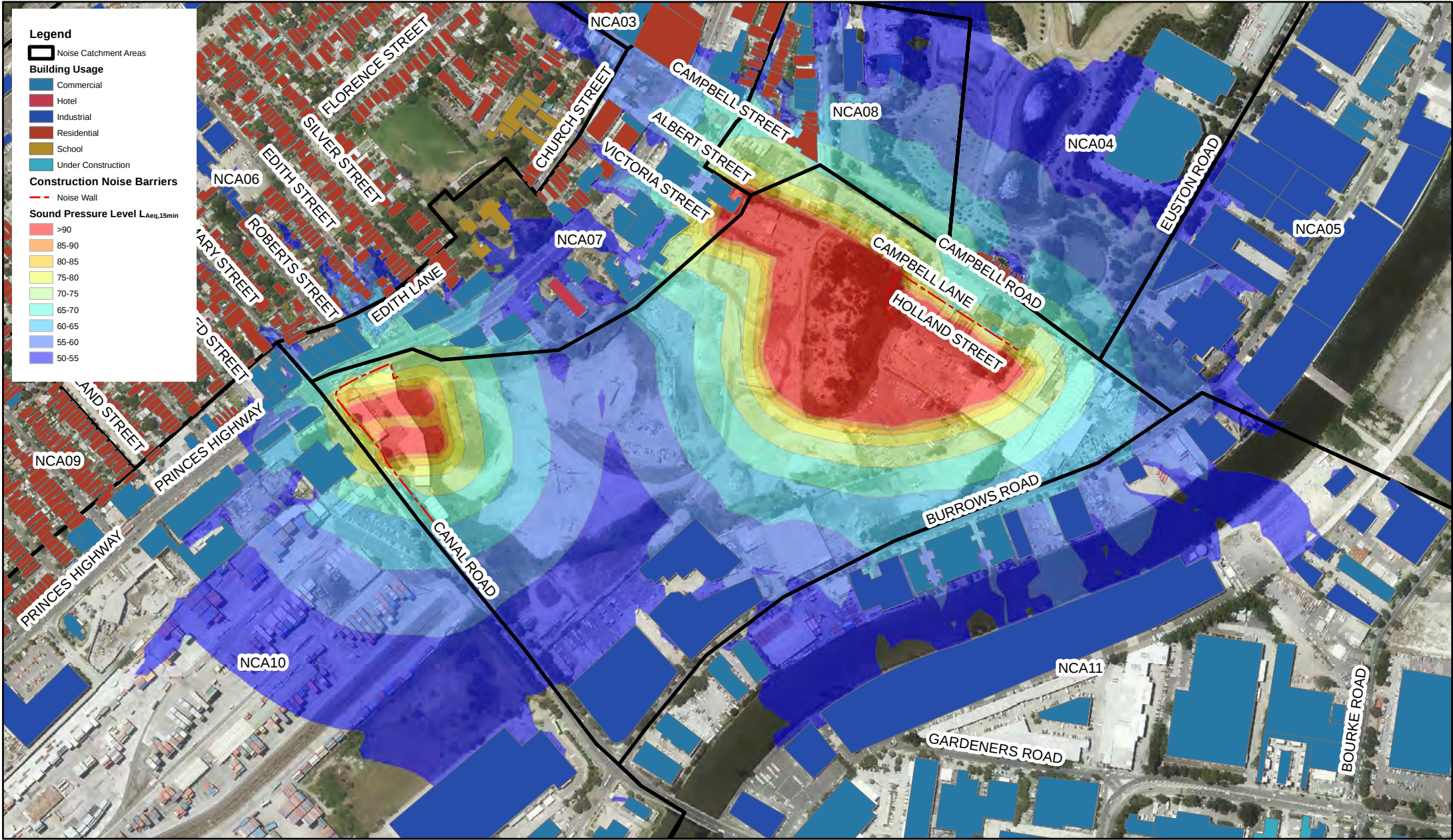
WestConnex Stage 2 - Construction Noise Assessment
Tunnelling works - Tunnelling support site - Spoil handling - Day

OCT 2015
60327128

Time	Descriptor	Sound Pressure Level, L _{Aeq} dB(A)																													
		NCA1	NCA2	NCA3	NCA4	NCA5	NCA6	NCA7	NCA8	NCA9	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15	NCA16	NCA17	NCA18	NCA19	NCA20	NCA21	NCA22	NCA23	NCA24	NCA25	NCA26	NCA27	NCA28	NCA29	NCA30
Day	Background	57	45	45	57	57	45	52	54	60	58	58	55	49	47	51	54	48	48	45	50	47	47	49	50	47	47	60	52	47	53
	NML	67	55	55	67	67	55	62	64	70	68	68	65	59	57	61	64	58	58	55	60	57	57	59	60	57	57	70	62	57	63
Evening	Background	51	43	43	51	51	43	50	45	54	56	52	55	48	47	51	54	48	48	45	49	46	46	49	50	47	47	58	51	47	52
	NML	56	48	48	56	56	48	55	50	59	61	57	60	53	52	56	59	53	53	50	54	51	51	54	55	52	63	56	52	57	
Night	Background	40	32	32	40	40	32	44	40	43	49	42	45	42	39	43	40	43	43	43	40	40	40	42	42	41	41	46	39	41	44
	NML	45	37	37	45	45	37	49	45	48	54	47	50	47	44	48	45	48	48	45	45	45	45	47	47	46	46	51	44	46	49

Source: SKM2014





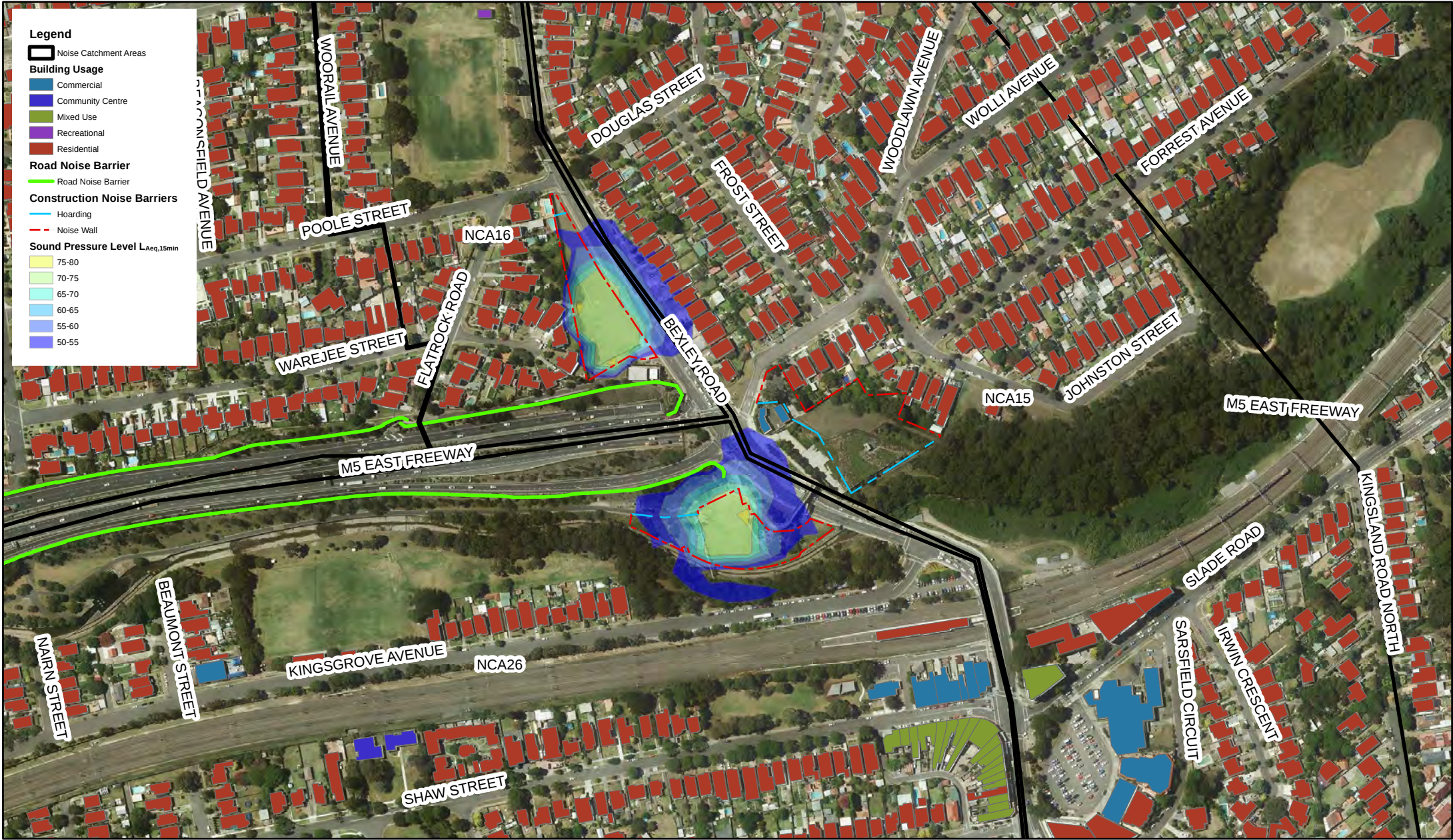
WestConnex Stage 2 - Construction Noise Assessment
Tunnelling works - Tunnelling support site - Spoil handling - Day

OCT 2015
60327128

Time	Descriptor	Sound Pressure Level, L _{Aeq} dB(A)																													
		NCA1	NCA2	NCA3	NCA4	NCA5	NCA6	NCA7	NCA8	NCA9	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15	NCA16	NCA17	NCA18	NCA19	NCA20	NCA21	NCA22	NCA23	NCA24	NCA25	NCA26	NCA27	NCA28	NCA29	NCA30
Day	Background	57	45	45	57	57	45	52	54	60	58	58	55	49	47	51	54	48	48	45	50	47	47	49	50	47	47	60	52	47	53
	NML	67	55	55	67	67	55	62	64	70	68	68	65	59	57	61	64	58	58	55	60	57	57	59	60	57	57	70	62	57	63
Evening	Background	51	43	43	51	51	43	50	45	54	56	52	55	48	47	51	54	48	48	45	49	46	46	49	50	47	47	58	51	47	52
	NML	56	48	48	56	56	48	55	50	59	61	57	60	53	52	56	59	53	53	50	54	51	51	54	55	52	52	63	56	52	57
Night	Background	40	32	32	40	40	32	44	40	43	49	42	45	42	39	43	40	43	43	43	40	40	40	42	42	41	41	46	39	41	44
	NML	45	37	37	45	45	37	49	45	48	54	47	50	47	44	48	45	48	48	48	45	45	45	47	47	46	46	51	44	46	49

Source: SKM2014





WestConnex Stage 2 - Construction Noise Assessment
Tunnelling works - Tunnelling support site - Spoil handling - Day

OCT 2015
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Time	Descriptor	Sound Pressure Level, L _{Aeq} , dB(A)																													
		NCA1	NCA2	NCA3	NCA4	NCA5	NCA6	NCA7	NCA8	NCA9	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15	NCA16	NCA17	NCA18	NCA19	NCA20	NCA21	NCA22	NCA23	NCA24	NCA25	NCA26	NCA27	NCA28	NCA29	NCA30
Day	Background	57	45	45	57	57	45	52	54	60	58	58	55	49	47	51	54	48	48	45	50	47	47	49	50	47	47	60	52	47	53
	NML	67	55	55	67	67	55	62	64	70	68	68	65	59	57	61	64	58	58	55	60	57	57	59	60	57	57	70	62	57	63
Evening	Background	51	43	43	51	51	43	50	45	54	56	52	55	48	47	51	54	48	48	45	49	46	46	49	50	47	47	58	51	47	52
	NML	56	48	48	56	56	48	55	50	59	61	57	60	53	52	56	59	53	53	50	54	51	51	54	55	52	52	63	56	52	57
Night	Background	40	32	32	40	40	32	44	40	43	49	42	45	42	39	43	40	43	43	43	40	40	40	42	42	41	41	46	39	41	44
	NML	45	37	37	45	45	37	49	45	48	54	47	50	47	44	48	45	48	48	48	45	45	45	47	47	46	46	51	44	46	49

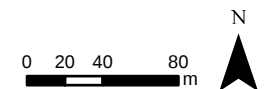
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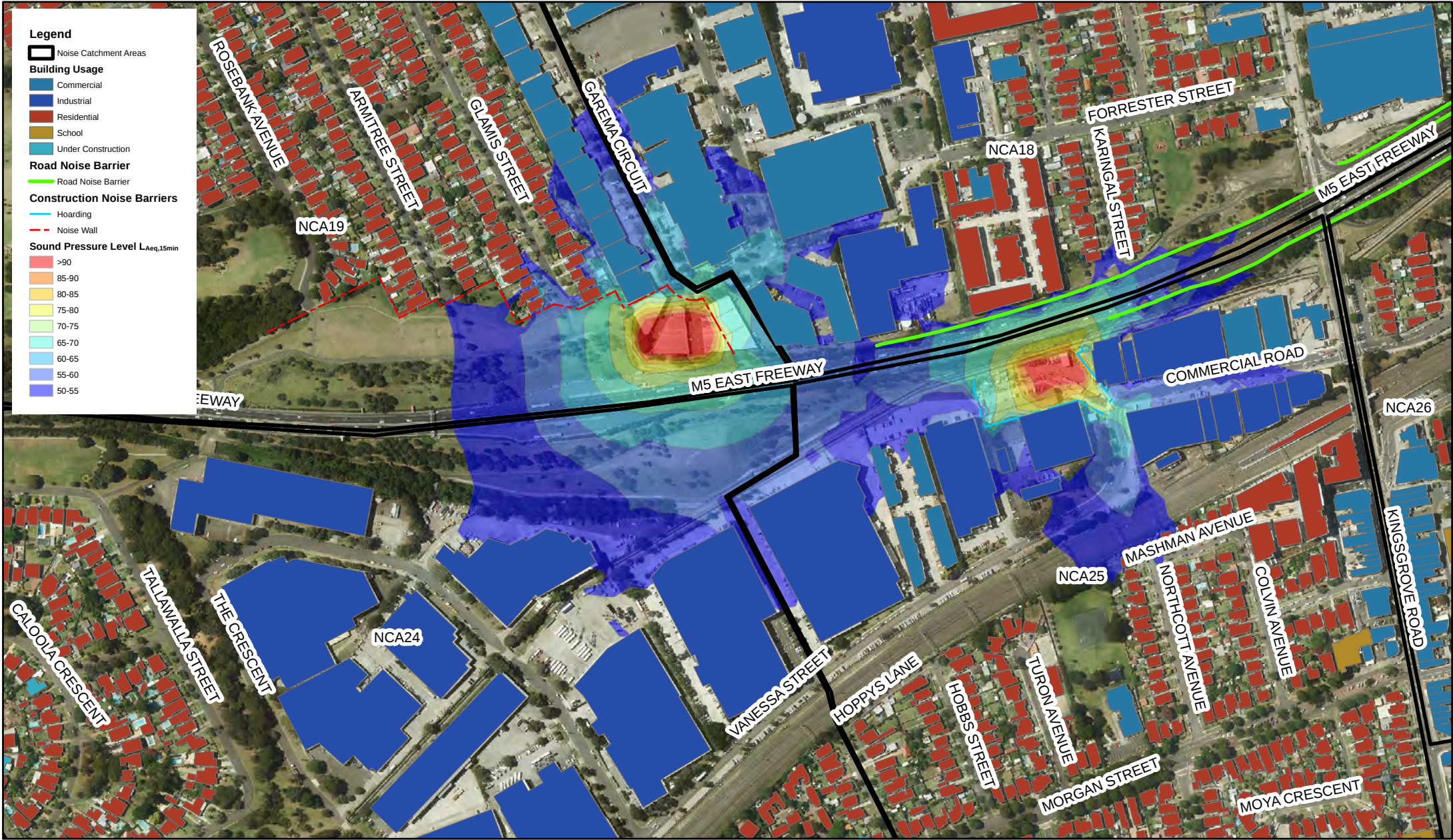


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Fig.
13_02

Time	Descriptor	Sound Pressure Level, L_{Aeq} dB(A)																													
		NCA1	NCA2	NCA3	NCA4	NCA5	NCA6	NCA7	NCA8	NCA9	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15	NCA16	NCA17	NCA18	NCA19	NCA20	NCA21	NCA22	NCA23	NCA24	NCA25	NCA26	NCA27	NCA28	NCA29	NCA30
Day	Background	57	45	45	57	57	45	52	54	60	58	58	55	49	47	51	54	48	48	45	50	47	47	49	50	47	47	60	52	47	53
	NML	67	55	55	67	67	55	62	64	70	68	68	65	59	57	61	64	58	58	55	60	57	57	59	60	57	57	70	62	57	63
Evening	Background	51	43	43	51	51	43	50	45	54	56	52	55	48	47	51	54	48	48	45	49	46	46	49	50	47	47	58	51	47	52
	NML	56	48	48	56	56	48	55	50	59	61	57	60	53	52	56	59	53	53	50	54	51	51	54	55	52	52	63	56	52	57
Night	Background	40	32	32	40	40	32	44	40	43	49	42	45	42	39	43	40	43	43	43	40	40	40	42	42	41	41	46	39	41	44
	NML	45	37	37	45	45	37	49	45	48	54	47	50	47	44	48	45	48	48	48	45	45	45	47	47	46	46	51	44	46	49





Legend

Noise Catchment Areas

Building Usage

- Commercial
- Industrial
- Residential
- School
- Under Construction

Road Noise Barrier

- Road Noise Barrier

Construction Noise Barriers

- Hoarding
- Noise Wall

Sound Pressure Level $L_{Aeq,15min}$

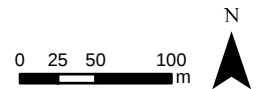
- >90
- 85-90
- 80-85
- 75-80
- 70-75
- 65-70
- 60-65
- 55-60
- 50-55

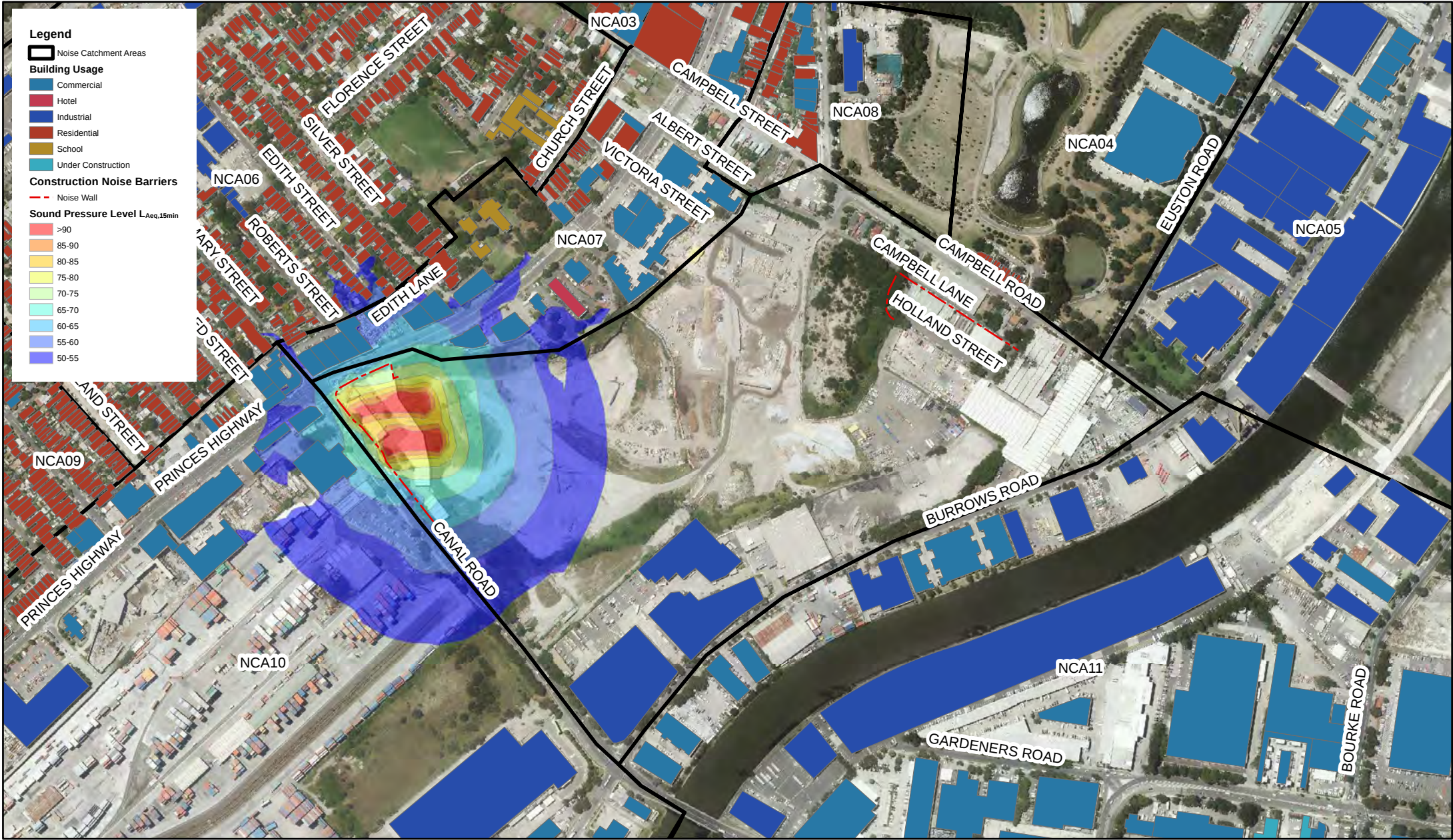
WestConnex Stage 2 - Construction Noise Assessment
Tunnelling works - Tunnelling support site - Tunnel lining - Day

OCT 2015
60327128

Time	Descriptor	Sound Pressure Level, L_{Aeq} dB(A)																													
		NCA1	NCA2	NCA3	NCA4	NCA5	NCA6	NCA7	NCA8	NCA9	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15	NCA16	NCA17	NCA18	NCA19	NCA20	NCA21	NCA22	NCA23	NCA24	NCA25	NCA26	NCA27	NCA28	NCA29	NCA30
Day	Background	57	45	45	57	57	45	52	54	60	58	58	55	49	47	51	54	48	48	45	50	47	47	49	50	47	47	60	52	47	53
	NML	67	55	55	67	67	55	62	64	70	68	68	65	59	57	61	64	58	58	55	60	57	57	59	60	57	57	70	62	57	63
Evening	Background	51	43	43	51	51	43	50	45	54	56	52	55	48	47	51	54	48	48	45	49	46	46	49	50	47	47	58	51	47	52
	NML	56	48	48	56	56	48	55	50	59	61	57	60	53	52	56	59	53	53	50	54	51	51	54	55	52	52	63	56	52	57
Night	Background	40	32	32	40	40	32	44	40	43	49	42	45	42	39	43	40	43	43	43	40	40	40	42	42	41	41	46	39	41	44
	NML	45	37	37	45	45	37	49	45	48	54	47	50	47	44	48	45	48	48	48	45	45	45	47	47	46	46	51	44	46	49

Source: SKM2014





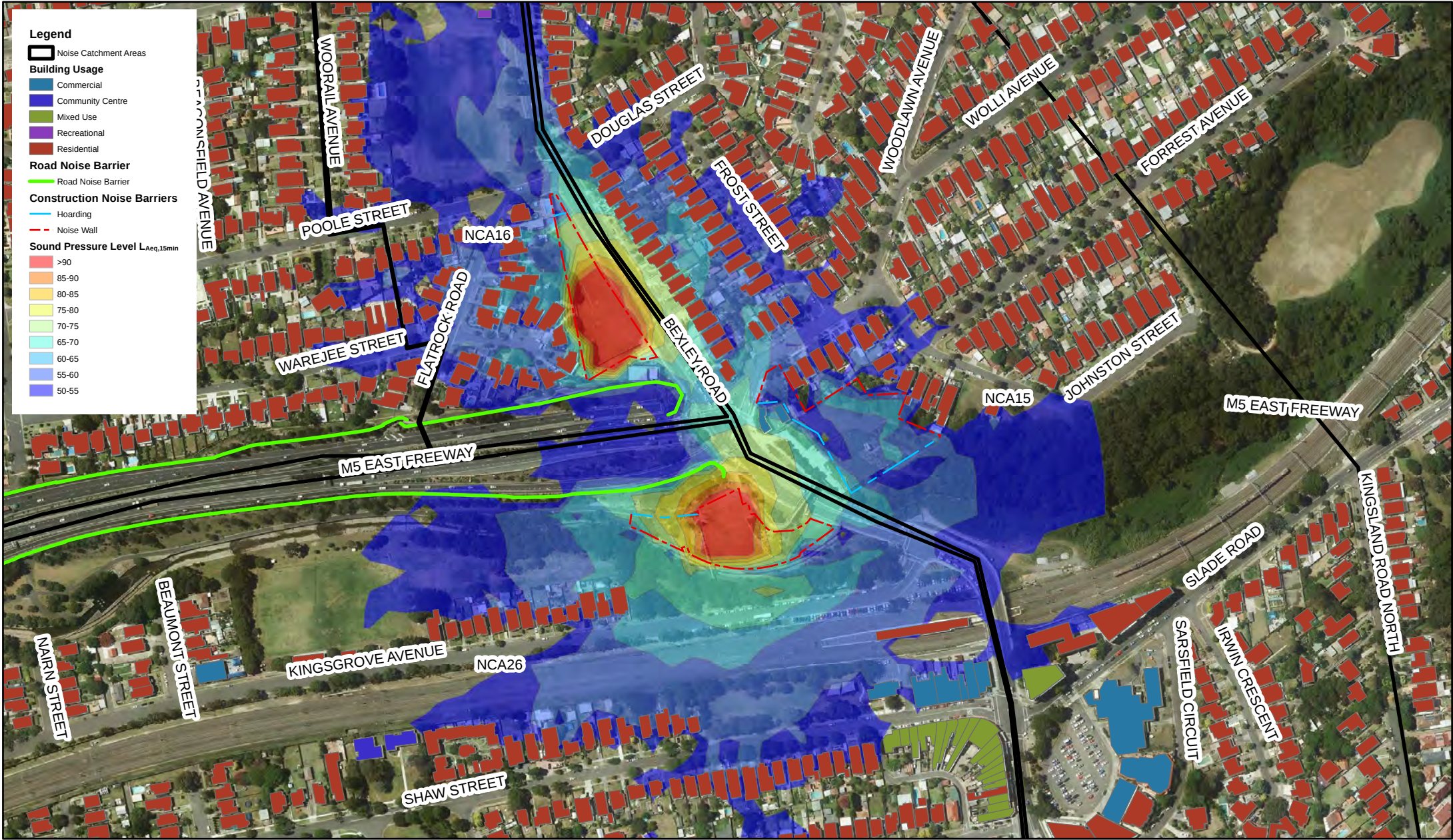
WestConnex Stage 2 - Construction Noise Assessment
Tunnelling works - Tunnelling support site - Tunnel lining - Day

OCT 2015
60327128

Time	Descriptor	Sound Pressure Level, L _{Aeq} dB(A)																													
		NCA1	NCA2	NCA3	NCA4	NCA5	NCA6	NCA7	NCA8	NCA9	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15	NCA16	NCA17	NCA18	NCA19	NCA20	NCA21	NCA22	NCA23	NCA24	NCA25	NCA26	NCA27	NCA28	NCA29	NCA30
Day	Background	57	45	45	57	57	45	52	54	60	58	58	55	49	47	51	54	48	48	45	50	47	47	49	50	47	47	60	52	47	53
	NML	67	55	55	67	67	55	62	64	70	68	68	65	59	57	61	64	58	58	55	60	57	57	59	60	57	57	70	62	57	63
Evening	Background	51	43	43	51	51	43	50	45	54	56	52	55	48	47	51	54	48	48	45	49	46	46	49	50	47	47	58	51	47	52
	NML	56	48	48	56	56	48	55	50	59	61	57	60	53	52	56	59	53	53	50	54	51	51	54	55	52	52	63	56	52	57
Night	Background	40	32	32	40	40	32	44	40	43	49	42	45	42	39	43	40	43	43	43	40	40	40	42	42	41	41	46	39	41	44
	NML	45	37	37	45	45	37	49	45	48	54	47	50	47	44	48	45	48	48	48	45	45	45	47	47	46	46	51	44	46	49

Source: SKM2014



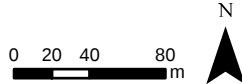


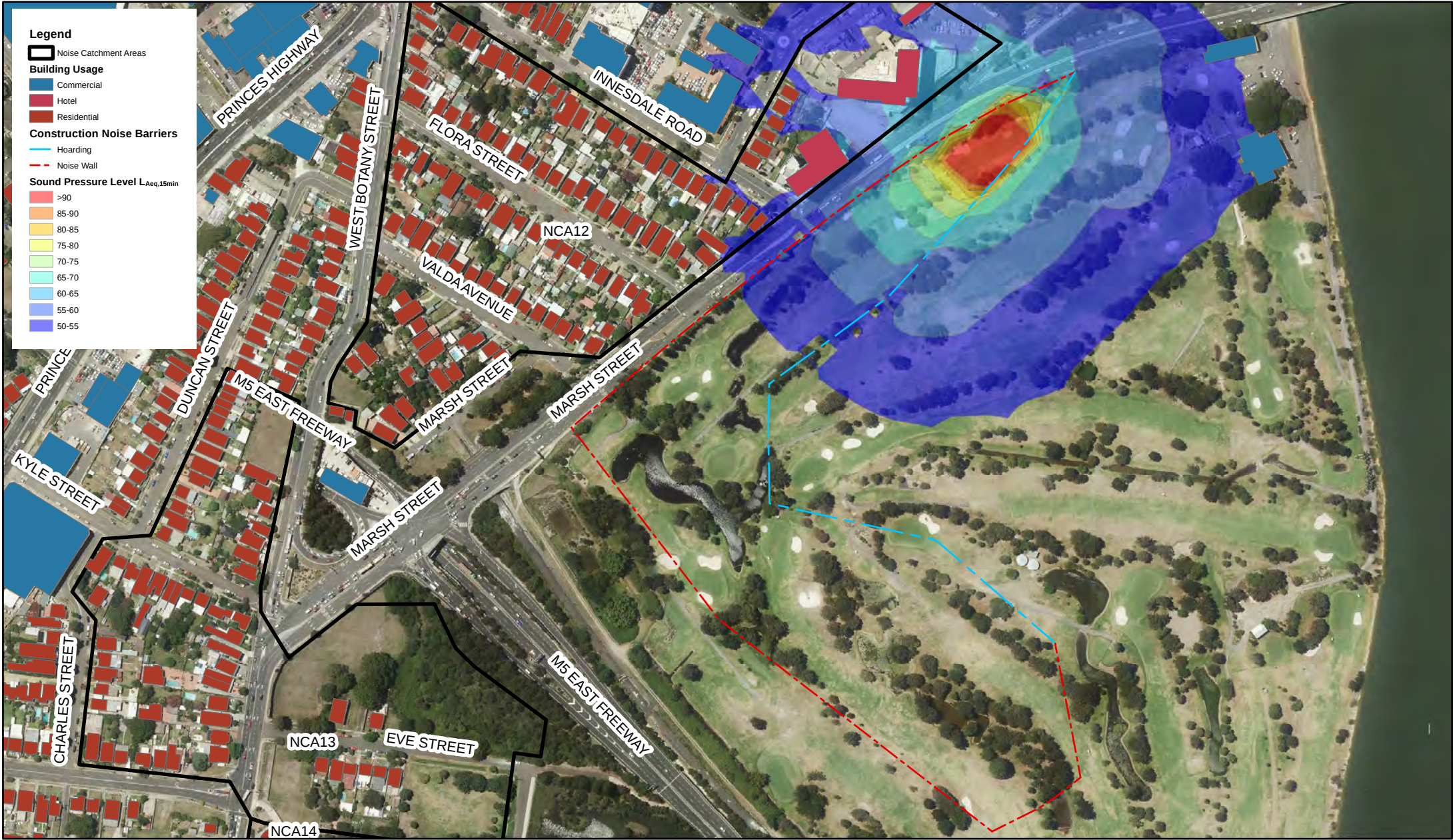
WestConnex Stage 2 - Construction Noise Assessment
Tunnelling works - Tunnelling support site - Tunnel lining - Day

OCT 2015
60327128

Time	Descriptor	Sound Pressure Level, L _{Aeq} , dB(A)																													
		NCA1	NCA2	NCA3	NCA4	NCA5	NCA6	NCA7	NCA8	NCA9	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15	NCA16	NCA17	NCA18	NCA19	NCA20	NCA21	NCA22	NCA23	NCA24	NCA25	NCA26	NCA27	NCA28	NCA29	NCA30
Day	Background	57	45	45	57	57	45	52	54	60	58	58	55	49	47	51	54	48	48	45	50	47	47	49	50	47	47	60	52	47	53
	NML	67	55	55	67	67	55	62	64	70	68	68	65	59	57	61	64	58	58	55	60	57	57	59	60	57	57	70	62	57	63
Evening	Background	51	43	43	51	51	43	50	45	54	56	52	55	48	47	51	54	48	48	45	49	46	46	49	50	47	47	58	51	47	52
	NML	56	48	48	56	56	48	55	50	59	61	57	60	53	52	56	59	53	53	50	54	51	51	54	55	52	52	63	56	52	57
Night	Background	40	32	32	40	40	32	44	40	43	49	42	45	42	39	43	40	43	43	43	40	40	40	42	42	41	41	46	39	41	44
	NML	45	37	37	45	45	37	49	45	48	54	47	50	47	44	48	45	48	48	48	45	45	45	47	47	46	46	51	44	46	49

Source: SKM2014





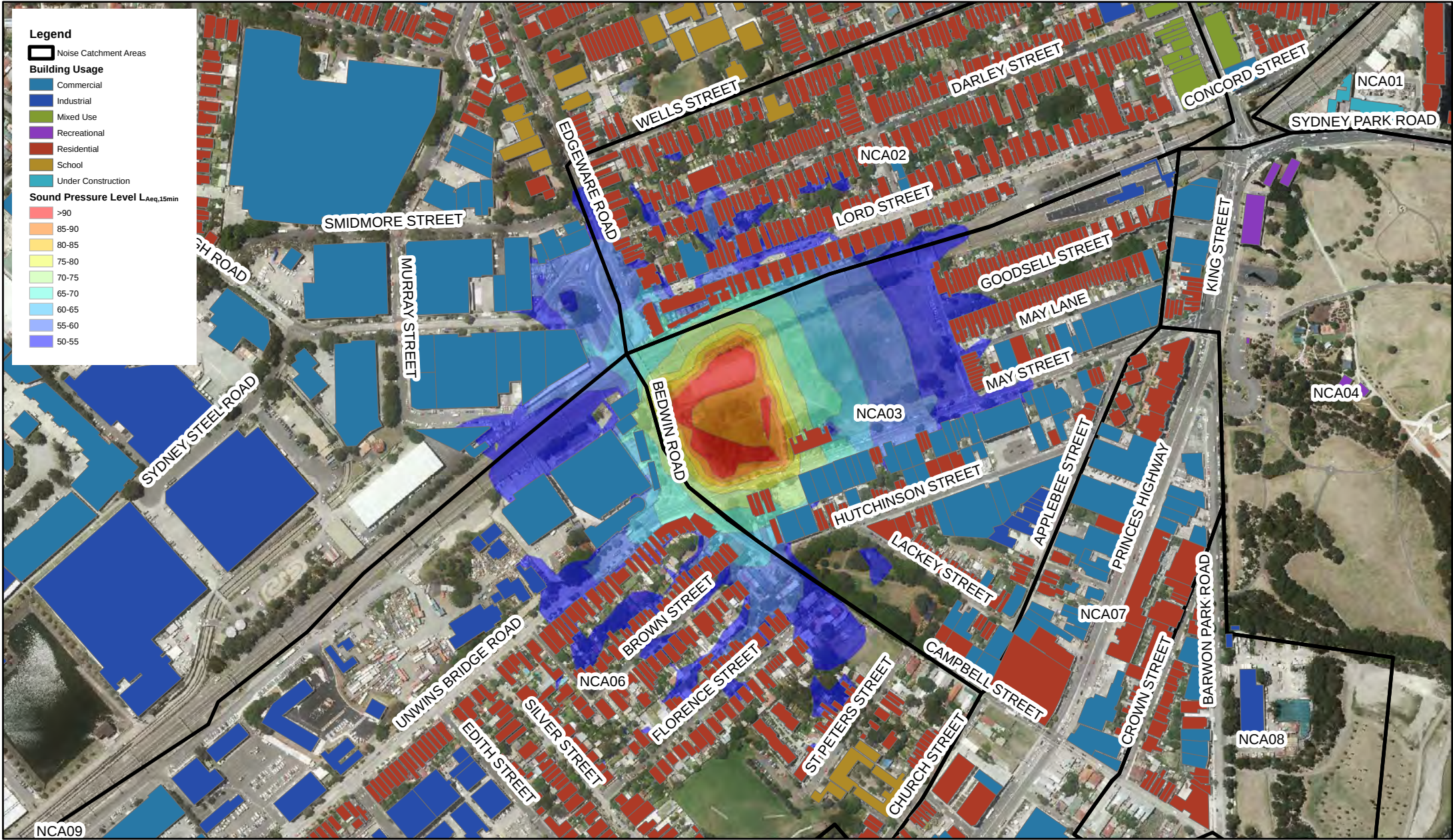
WestConnex Stage 2 - Construction Noise Assessment
Tunnelling works - Tunnelling support site - Tunnel lining - Day

OCT 2015
60327128

Time	Descriptor	Sound Pressure Level, L _{Aeq} dB(A)																													
		NCA1	NCA2	NCA3	NCA4	NCA5	NCA6	NCA7	NCA8	NCA9	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15	NCA16	NCA17	NCA18	NCA19	NCA20	NCA21	NCA22	NCA23	NCA24	NCA25	NCA26	NCA27	NCA28	NCA29	NCA30
Day	Background	57	45	45	57	57	45	52	54	60	58	58	55	49	47	51	54	48	48	45	50	47	47	49	50	47	47	60	52	47	53
	NML	67	55	55	67	67	55	62	64	70	68	68	65	59	57	61	64	58	58	55	60	57	57	59	60	57	57	70	62	57	63
Evening	Background	51	43	43	51	51	43	50	45	54	56	52	55	48	47	51	54	48	48	45	49	46	46	49	50	47	47	58	51	47	52
	NML	56	48	48	56	56	48	55	50	59	61	57	60	53	52	56	59	53	53	50	54	51	51	54	55	52	52	63	56	52	57
Night	Background	40	32	32	40	40	32	44	40	43	49	42	45	42	39	43	40	43	43	43	40	40	40	42	42	41	41	46	39	41	44
	NML	45	37	37	45	45	37	49	45	48	54	47	50	47	44	48	45	48	48	48	45	45	45	47	47	46	46	51	44	46	49

Source: SKM2014





WestConnex Stage 2 - Construction Noise Assessment
Surface works - Camdenville Basin Works - Day

OCT 2015
60327128

Time	Descriptor	Sound Pressure Level, L _{Aeq} dB(A)																													
		NCA1	NCA2	NCA3	NCA4	NCA5	NCA6	NCA7	NCA8	NCA9	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15	NCA16	NCA17	NCA18	NCA19	NCA20	NCA21	NCA22	NCA23	NCA24	NCA25	NCA26	NCA27	NCA28	NCA29	NCA30
Day	Background	57	45	45	57	57	45	52	54	60	58	58	55	49	47	51	54	48	48	45	50	47	47	49	50	47	47	60	52	47	53
	NML	67	55	55	67	67	55	62	64	70	68	68	65	59	57	61	64	58	58	55	60	57	57	59	60	57	57	70	62	57	63
Evening	Background	51	43	43	51	51	43	50	45	54	56	52	55	48	47	51	54	48	48	45	49	46	46	49	50	47	47	58	51	47	52
	NML	56	48	48	56	56	48	55	50	59	61	57	60	53	52	56	59	53	53	50	54	51	51	54	55	52	52	63	56	52	57
Night	Background	40	32	32	40	40	32	44	40	43	49	42	45	42	39	43	40	43	43	43	40	40	40	42	42	41	41	46	39	41	44
	NML	45	37	37	45	45	37	49	45	48	54	47	50	47	44	48	45	48	48	48	45	45	45	47	47	46	46	51	44	46	49

Source: SKM2014

