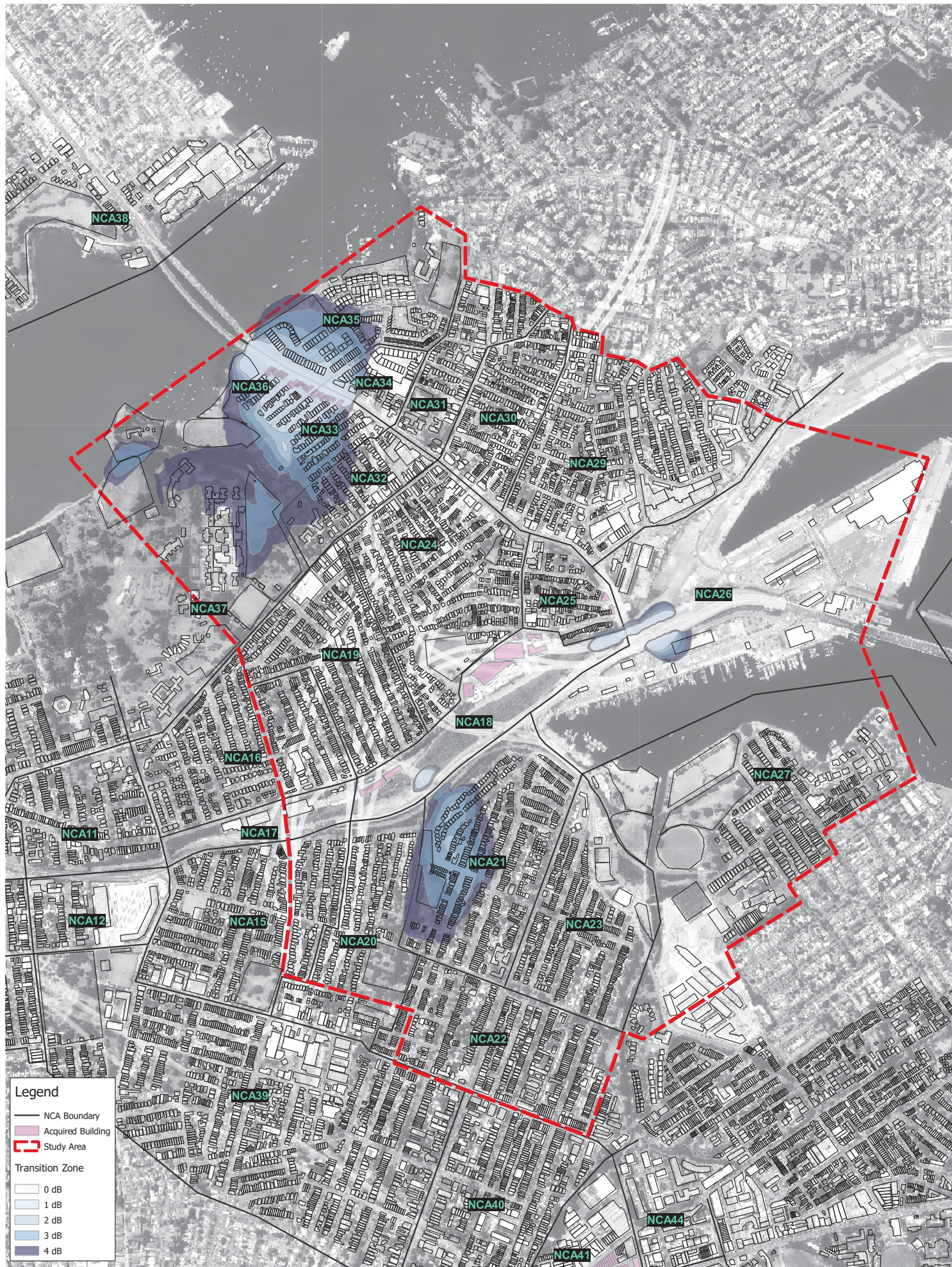




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Project No.: 610.16185
Date: 31/05/2017
Drawn by: ALW
Scale: 1:nk,000
Sheet Size: @ A4
Projection: GDA 1994 MGA Zone 56



0 100 200 300 4005

Sydney Motorway Corporation

WestConnex M4-M5 Link

Transition Zones
Do Something Plus

The content contained within this document may be based on third party data. SLR Consulting Australia Pty Ltd does not guarantee the accuracy of such information.

Annexure E-1

Traffic data - Validation

Annexure E-1

Report 610.16185

Page 1 of 1

Traffic Data - Validation

	15hr and 9hr Traffic Volumes					
	Day			Night		
	Volume	HGV	Speed	Volume	HGV	Speed
Victoria Road - Southbound						
Btwn Day St & Terry St	29500	1165	58	4783	148	60
Btwn Terry St & Darling St	30968	1223	48	4891	167	51
Btwn Darling St & Gordon St	26747	1260	42	5257	230	47
Btwn Gordon St & Robert St	29666	1333	42	5970	255	52
Btwn Robert St & City West Link	36876	1738	37	6844	307	48
Victoria Road - Northbound						
Btwn City West Link & Robert St	33724	1775	40	5131	231	44
Btwn Robert St & Gordon St	24721	1329	52	3981	166	59
Btwn Gordon St & Darling St	25968	1338	37	4524	188	48
Btwn Darling St & Terry St	29676	1044	42	5987	256	45
Btwn Terry St & Day St	33101	1059	51	6320	270	53
City West Link - Eastbound						
Btwn Balmain Rd & The Crescent	27335	1652	58	6369	546	65
Btwn The Crescent & James Craig Rd	35950	1892	47	7408	558	56
Btwn James Craig Rd & Victoria Rd	23095	1057	47	4382	295	56
Underpass to Anzac Bridge	12855	835	47	3026	263	56
City West Link - Westbound						
Btwn Victoria Rd & The Crescent	33651	1959	56	7096	303	62
Btwn The Crescent & Balmain Rd	24272	1687	63	5957	255	67
The Crescent - Southbound						
Btwn City West Link & Johnston St	12807	492	33	1496	62	36
Btwn Johnston St & Nelson St	6703	360	43	819	65	45
Btwn Nelson St & Scotsman St	6594	660	47	735	89	51
The Crescent - Northbound						
Btwn Scotsman St & Trafalgar St	5450	455	49	664	84	53
Btwn Trafalgar St & Johnston St	3606	387	36	530	165	38
Btwn Johnston St & City West Link	11947	472	33	1387	58	34
Lilyfield Road - Eastbound						
Btwn Catherine St & Gordon St	2658	158	46	215	17	46
Btwn Gordon St & Victoria Rd	1231	91	38	156	14	39
Lilyfield Road - Westbound						
Btwn Victoria Rd & Gordon St	3105	143	40	246	10	43
Btwn Gordon St & Catherine St	4398	227	47	300	26	47
Brenan Street - Eastbound						
Btwn Catherine St & Railway Pde	1134	30	40	90	2	40
Brenan Street - Westbound						
Btwn Railway Pde & Catherine St	916	51	41	56	3	42
Johnston Street - Southbound						
Btwn The Crescent & Piper St	7263	597	49	874	56	53
Johnston Street - Northbound						
Btwn Piper St & Johnston St	6526	244	46	844	32	50

Annexure E-2a

Traffic data - 2023

Traffic Data - 2023 Timeframe 1

	No Build			Do Minimum			Do Something			Do Something Plus		
	15 Hour	9 Hour	9 Hour	15 Hour	9 Hour	9 Hour	15 Hour	9 Hour	9 Hour	15 Hour	9 Hour	9 Hour
	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV
Victoria Rd - Southbound												
Btwn Park Ave & Iron Cove Link	41033	2051	6139	228	40781	2297	6101	255	43332	2445	6483	272
Btwn Iron Cove Link & Terry St	41033	2051	6139	228	40781	2297	6101	255	17100	795	2719	105
Btwn Terry St & Wellington St	35556	2005	5320	223	35406	2254	5297	250	12683	774	1898	86
Btwn Wellington St & Darling St	37549	2034	5618	226	37454	2283	5604	254	15508	903	2320	100
Btwn Darling St & Evans St	29896	1434	4473	159	29853	1701	4466	189	9291	512	1390	57
Btwn Evans St & Gordon St	30512	1465	4565	163	30475	1716	4560	190	10923	559	1634	62
Btwn Gordon St & Robert St	34105	1547	4993	181	33670	1796	4929	210	15996	671	2342	79
Btwn Robert St & City West Link	43774	1637	6891	157	43548	1912	6033	205	27844	859	3858	92
Victoria Rd - Northbound												
Btwn City West Link & Lilyfield Rd	41790	1504	5789	161	40440	1745	6367	167	23454	600	3728	79
Btwn Lilyfield Rd & Robert St	39169	1164	5427	125	37951	1539	5975	147	20343	521	3203	50
Btwn Robert St & Gordon St	29603	1138	4987	114	29373	1478	4948	148	10105	406	1702	41
Btwn Gordon St & Evans St	29580	1136	5041	120	29347	1483	5002	157	10108	404	1723	43
Btwn Evans St & Darling St	30514	1143	4851	151	30490	1476	4847	194	11439	434	1819	57
Btwn Darling St & Wellington St	31250	1391	5326	147	31413	1738	5354	184	12301	545	2097	58
Btwn Wellington St & Moodie St	38761	1481	6162	195	38579	1807	6133	238	18440	604	2931	80
Btwn Moodie St & Terry St	38422	1516	6549	160	38244	1848	6518	195	17979	614	3064	65
Btwn Terry St & Iron Cove Link	36404	1484	6205	157	36220	1813	6173	191	15463	555	2458	73
Btwn Iron Cove Link & Park Ave	36404	1484	6205	157	36220	1813	6173	191	37897	2132	6459	225
City West Link - Eastbound												
Btwn Norton St & Balmain Rd	25476	2259	6351	280	26369	2097	4627	452	18261	1163	3205	251
Btwn Balmain Rd & Catherine St	25521	2166	4057	285	25171	2196	4002	289	17296	1198	2750	158
Btwn Catherine St & M4M5 Link Intersection	26017	2217	6486	275	27145	2081	4764	449	18562	1251	2951	165
Btwn M4M5 Link Intersection & The Crescent	26017	2217	6486	275	27145	2081	4764	449	21685	1740	3447	229
Btwn The Crescent & James Craig Rd	39202	2500	6315	472	37897	2573	6104	486	30511	1927	4914	364
Btwn James Craig Rd & Victoria Rd	7078	154	1140	29	6197	199	998	38	7170	244	1140	32
Btwn James Craig Rd & Underpass to Anzac Bridge	32751	2267	7490	519	30783	2297	7040	525	22801	1638	5214	375

Traffic Data - 2023 Timeframe 1

	No Build			Do Minimum			Do Something			Do Something Plus						
	15 Hour		9 Hour	15 Hour		9 Hour	15 Hour		9 Hour	15 Hour		9 Hour				
	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV				
City West Link - Westbound																
Btwn Victoria Rd & James Craig Rd	30031	1546	6679	185	28383	1826	6313	218	27787	1610	6180	192	29524	1379	6566	165
Btwn James Craig Rd & The Crescent	28162	1554	6263	186	27736	1828	6169	218	27142	1613	6037	193	28920	1383	6432	165
Btwn The Crescent & M4M5 Link Intersection	21913	1306	3846	282	20606	1718	5137	213	20666	1307	3285	172	23954	1202	3808	158
Btwn M4M5 Link Intersection & Catherine St	21913	1306	3846	282	20606	1718	5137	213	18388	1153	2923	152	18870	946	3000	125
Btwn Catherine St & Balmain Rd	23926	1761	4199	380	22364	2121	5576	263	18376	1312	4581	163	18862	1108	4703	137
Btwn Balmain Rd & Norton St	23708	1841	4160	397	22356	2186	5574	271	17379	1343	4333	167	17676	1141	4407	142
Anzac Bridge - Eastbound																
Btwn Victoria Rd & ON Ramp from City West Link Underpass	35687	1456	5673	192	36030	1712	5728	225	15943	362	2535	48	15342	248	2439	33
Btwn ON Ramp from City West Link Underpass & ON Ramp from M4M5 Link	66412	3608	15189	825	64768	3872	14813	886	40043	2036	6450	385	38572	1160	6213	219
Btwn ON Ramp from M4M5 Link & east end of Anzac Bridge	66412	3608	15189	825	64768	3872	14813	886	77986	4975	17836	1138	73793	3531	16876	807
Anzac Bridge - Westbound																
Btwn east end of Anzac Bridge & ON Ramp to M4M5 Link	54342	2495	12428	570	54109	2881	12375	659	68270	4180	15613	956	69063	3253	15795	744
Btwn ON Ramp to M4M5 Link & Victoria Rd	57611	2710	9159	357	57365	3130	9119	412	32407	1485	7208	177	33573	1119	7467	133
The Crescent - Southbound																
Btwn City West Link & Johnston St	9926	185	1051	14	9700	230	1027	18	14631	814	1550	62	15541	790	1646	61
Btwn Johnston St & Chapman Rd	4079	83	377	9	4030	112	372	11	5262	307	486	32	5770	305	533	31
Btwn Chapman St & Scotsman St	3689	141	586	19	3677	160	584	21	4627	302	735	40	5009	300	796	39
The Crescent - Northbound																
Btwn Scotsman St & Chapman Rd	5691	232	905	31	5583	387	888	51	5311	324	844	43	6583	345	1046	45
Btwn Chapman Rd & Johnston St	6154	206	808	51	6075	349	798	86	5982	297	786	74	7526	318	988	79
Btwn Johnston St & City West Link	13955	491	1370	38	13346	614	1310	48	15706	810	1542	63	17700	687	1738	53

Traffic Data - 2023 Timeframe 1

	No Build			Do Minimum			Do Something			Do Something Plus						
	15 Hour		9 Hour	15 Hour		9 Hour	15 Hour		9 Hour	15 Hour		9 Hour				
	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV				
James Craig Rd - Eastbound																
Btwn City West Link & Sommerville Rd	6951	36	1120	7	6934	36	1117	7	7284	36	1173	7	7371	36	1187	7
James Craig Rd - Westbound																
Btwn Sommerville Rd & City West Link	7137	41	1587	5	7124	41	1584	5	7222	41	1606	5	7278	41	1619	5
Bowman St - Southbound																
Btwn Tambula St & Bank St	3487	163	363	14	3449	159	359	13	3486	169	362	14	3482	163	362	14
Bowman St - Northbound																
Btwn Bank St & Tambula St	3859	129	401	11	3828	120	398	10	3808	113	396	9	3797	103	395	9
Terry St - Southbound																
Btwn Wellington St & Wulumay Cl	900	30	94	2	825	24	86	2	796	19	83	2	796	18	83	2
Btwn Wulumay Cl & Victoria Rd	951	31	43	1	871	25	40	1	841	20	38	1	841	19	38	1
Terry St - Northbound																
Btwn Victoria Rd & Wulumay Cl	9033	113	619	7	8854	106	607	7	8648	103	593	7	8595	111	589	7
Btwn Wulumay Cl & Wellington St	8741	111	909	9	8568	103	891	9	8369	101	870	8	8317	109	865	9
Wise St - Eastbound																
Btwn Terry St & Darling St	5906	55	405	4	5773	50	396	3	5277	44	362	3	5217	55	358	4
Wise St - Westbound																
Btwn Darling St & Terry St	5779	49	264	2	5577	28	254	1	5360	44	245	2	5312	58	242	3
Beattie St - Westbound																
Btwn Wisbeach St & Darling St	3374	23	351	2	3227	17	335	1	3220	19	335	2	3275	31	340	3
Beattie St - Eastbound																
Btwn Darling St & Wisbeach St	3967	12	412	1	4055	6	422	1	3977	7	413	1	3949	11	411	1
Wellington St - Southbound																
Btwn Terry St & Merton St	7908	73	822	6	7748	60	805	5	7991	79	831	7	7955	92	827	8
Btwn Merton St & Victoria Rd	10171	162	464	8	9852	149	449	7	9773	213	446	10	9894	226	451	11
Darling St - Southbound																
Btwn Wisbeach St & Beattie St	6916	193	673	8	6690	185	651	8	6751	190	657	8	6768	194	659	8
Btwn Beattie St & Merton St	5265	165	513	7	5060	174	493	7	5040	165	491	7	5142	161	501	7
Btwn Merton St & National St	3512	77	365	6	3448	85	358	7	3745	34	389	3	3697	30	384	3
Btwn National St & Victoria Rd	3532	80	344	3	3468	88	338	4	3766	36	367	2	3718	32	362	1

Traffic Data - 2023 Timeframe 1

	No Build			Do Minimum			Do Something			Do Something Plus		
	15 Hour	9 Hour	9 Hour	15 Hour	9 Hour	9 Hour	15 Hour	9 Hour	9 Hour	15 Hour	9 Hour	9 Hour
	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV
Darling St - Northbound												
Btwn Victoria Rd & National St	6862	173	670	15	6751	171	659	15	6815	204	665	18
Btwn National St & Merton St	6823	172	709	14	6712	170	698	14	6776	202	704	17
Btwn Merton St & Beattie St	6862	173	670	15	6751	171	659	15	6815	204	665	18
Btwn Beattie St & Wisbeach St	8160	217	797	19	7854	214	767	18	7793	242	761	21
Evans St - Southbound												
Btwn Beattie St & Victoria Rd	5015	184	521	15	4905	156	510	13	5023	131	522	11
Evans St - Northbound												
Btwn Victoria Rd & Beattie St	3767	200	392	17	3538	185	368	15	3667	163	381	14
Robert St - Eastbound												
Btwn Victoria Rd & Mullens St	19026	250	1304	16	16827	265	1153	17	17111	258	1173	17
Btwn Mullens St & Buchanan St	302	5	21	0	297	3	20	0	303	3	21	0
Robert St - Westbound												
Btwn Buchanan St & Mullens St	1381	22	63	1	1378	19	63	1	1429	19	65	1
Btwn Mullens St & Victoria Rd	20930	283	955	14	18507	318	844	15	19038	338	869	16
Mullens St - Northbound												
Btwn Robert St & Reynolds St	14026	212	1458	18	13603	230	1414	19	13819	223	1437	19
Mullens St - Southbound												
Btwn Reynolds St & Robert St	14712	250	1529	21	14374	288	1494	24	14684	307	1526	26
Lilyfield Rd - Eastbound												
Btwn Norton St & Balmain Rd	1250	81	57	4	1240	76	57	4	1380	30	63	1
Btwn Balmain Rd & Helena St	6165	183	281	9	5825	204	266	10	5490	119	250	6
Btwn Helena St & Catherine St	6165	183	281	9	5825	204	266	10	5490	119	250	6
Btwn Catherine St & Foucart St	3856	99	176	5	3605	106	165	5	3714	90	169	4
Btwn Foucart St & Gordon St	2501	66	114	3	2171	74	99	4	2327	67	106	3
Btwn Gordon St & Victoria Rd	1805	4	176	0	1799	5	176	0	1198	0	117	0
Lilyfield Rd - Westbound												
Btwn Victoria Rd & Gordon St	4524	365	441	15	4425	221	431	9	4511	105	439	4
Btwn Gordon St & Foucart St	1470	418	101	27	1384	275	95	18	911	26	62	2
Btwn Foucart St & Catherine St	4677	477	321	31	4561	333	313	22	3168	103	217	7
Btwn Catherine St & Helena St	1809	109	124	7	1794	112	123	7	1113	13	76	1
Btwn Helena St & Balmain Rd	1809	109	124	7	1794	112	123	7	1113	13	76	1
Btwn Balmain Rd & Norton St	499	122	34	8	446	130	31	8	305	3	21	0

Traffic Data - 2023 Timeframe 1

	No Build			Do Minimum			Do Something			Do Something Plus		
	15 Hour		9 Hour	15 Hour		9 Hour	15 Hour		9 Hour	15 Hour		9 Hour
	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV
O'Neill St - Eastbound												
Btwn Grove St & Alberto St	2766	113	288	9	2688	113	279	9	2627	63	273	5
Btwn Alberto St & Foucart St	2338	44	243	4	2226	40	231	3	2618	48	272	4
O'Neill St - Westbound												
Btwn Foucart St & Alberto St	2143	22	223	2	2123	22	221	2	1899	17	197	1
Btwn Alberto St & Grove St	3187	79	331	7	3141	71	327	6	2438	37	253	4
Alfred St - Eastbound												
Btwn Denison St & Gordon St	4030	180	419	15	3843	173	400	14	4600	65	478	5
Alfred St - Westbound												
Btwn Gordon St & Denison St	3370	69	350	6	3274	64	340	5	3304	70	343	6
Evans St - Eastbound												
Btwn Denison St & Victoria Rd	2568	137	267	11	2525	129	262	11	2937	130	305	11
Evans St - Westbound												
Btwn Victoria Rd & Denison St	2501	53	260	4	2348	57	244	5	1304	7	136	1
Perry St - Eastbound												
Btwn Mary St & Balmain Rd	8704	215	397	10	9028	209	412	10	10253	226	468	11
Perry St - Westbound												
Btwn Balmain Rd & Mary St	9670	250	663	16	9723	275	666	18	9230	230	633	15
Balmain Rd - Eastbound												
Btwn Perry St & Grove St	13436	587	613	28	13540	571	618	28	13639	535	622	26
Btwn Grove St & Alberto St	11033	525	503	25	11135	519	508	25	11133	468	508	23
Btwn Alberto St & Denison St	10685	536	1699	71	10799	538	1717	71	10733	439	1706	58
Balmain Rd - Westbound												
Btwn Denison St & Alberto St	12581	643	2000	85	12497	645	1987	85	11269	454	1791	60
Btwn Alberto St & Grove St	12851	644	881	42	12801	652	877	42	11601	474	795	31
Btwn Grove St & Perry St	10151	535	696	35	10146	529	695	34	8936	294	612	19
Darling St - Eastbound												
Btwn Denison St & Victoria Rd	10172	467	993	40	10344	478	1010	41	9719	365	949	31
Darling St - Westbound												
Btwn Victoria Rd & Denison St	13749	789	1339	33	13719	781	1336	33	12140	512	1182	22
Moodie St - Eastbound												
Btwn Oxford St & Victoria Rd	1259	13	131	1	1233	9	128	1	974	6	101	1

Traffic Data - 2023 Timeframe 1

	No Build			Do Minimum			Do Something			Do Something Plus		
	15 Hour			9 Hour			15 Hour			9 Hour		
	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV
Moodie St - Westbound												
Btwn Victoria Rd & Oxford St	1214	11	126	1	1187	10	123	1	1271	11	132	1
Grove St - Southbound												
Btwn O'Neill St & Lilyfield Rd	6589	207	685	17	6510	211	677	18	5892	236	613	20
Grove St - Northbound												
Btwn Lilyfield Rd & O'Neill St	1078	71	112	6	1004	82	104	7	925	19	96	2
Alberto St - Southbound												
Btwn Balmain Rd & O'Neill St	774	41	81	3	735	36	76	3	603	12	63	1
Alberto St - Northbound												
Btwn O'Neill St & Balmain Rd	771	54	80	5	790	63	82	5	721	8	75	1
Foucart St - Southbound												
Btwn O'Neill St & Lilyfield Rd	3388	63	352	5	3354	59	349	5	2485	78	258	6
Foucart St - Northbound												
Btwn Lilyfield Rd & O'Neill St	1089	27	113	2	1165	30	121	2	1130	19	117	2
Oxford St - Southbound												
Btwn Moodie St & Balmain Rd	2140	25	222	2	2142	27	223	2	2188	30	227	2
Oxford St - Northbound												
Btwn Balmain St & Moodie St	1987	29	207	2	1993	28	207	2	1649	27	171	2
Denison St - Southbound												
Btwn Balmain Rd & Evans St	2850	196	296	16	2841	188	295	16	3290	133	342	11
Btwn Evans St & Alfred St	4193	154	436	13	4112	151	427	13	3089	47	321	4
Denison St - Northbound												
Btwn Alfred St & Evans St	2542	57	264	5	2566	57	267	5	2337	53	243	4
Btwn Evans St & Balmain St	1130	17	118	1	1120	21	116	2	904	16	94	1
Gordon St - Northbound												
Btwn Lilyfield Rd & Victoria Rd	3690	97	360	8	3272	105	320	9	5291	120	517	10
Brenan St - Eastbound												
Btwn Catherine St & Railway Pde	1610	79	167	7	1508	79	157	7	1346	14	140	1
Brenan St - Westbound												
Btwn Railway Pde & Catherine St	1539	82	160	7	1403	138	146	12	667	18	69	2
Railway Pde - Eastbound												
Btwn Brenan St & Bayview Cres	534	12	33	0	495	8	30	0	455	14	28	0

Traffic Data - 2023 Timeframe 1

	No Build			Do Minimum			Do Something			Do Something Plus		
	15 Hour	9 Hour	9 Hour	15 Hour	9 Hour	9 Hour	15 Hour	9 Hour	9 Hour	15 Hour	9 Hour	9 Hour
	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV
Railway Pde - Westbound												
Btwn Bayview Cres & Brennan St	700	6	32	0	683	3	31	0	0	0	0	0
Bayview Cres - Eastbound												
Btwn Railway Pde & Annandale St	514	11	53	1	476	7	49	1	438	13	45	1
Bayview Cres - Westbound												
Btwn Annandale St & Railway Pde	663	6	69	0	647	3	67	0	0	0	0	0
Annandale St - Southbound												
Btwn Bayview Cres & Kentville Ave	514	11	53	1	476	7	49	1	438	13	45	1
Annandale St - Northbound												
Btwn Kentville Ave & Bayview Cres	663	6	69	0	647	3	67	0	0	0	0	0
Johnston St - Southbound												
Btwn The Crescent & Kentville Ave	7523	180	911	19	7152	251	866	27	9908	493	1199	52
Btwn Kentville Ave & Rose St	6646	172	1056	23	6302	243	1002	32	9583	482	1524	63
Btwn Rose St & Piper St	5706	164	907	22	5386	180	856	24	8275	454	1316	60
Johnston St - Northbound												
Btwn Piper St & Rose St	7981	319	1269	42	7287	333	1158	44	8476	432	1348	57
Btwn Rose St & Kentville Ave	8376	313	1332	41	7724	329	1228	43	9207	438	1464	58
Btwn Kentville Ave & The Crescent	9379	342	896	22	8650	358	827	22	10181	479	973	30
Kentville Ave - Eastbound												
Btwn Annandale St & Johnston St	514	11	53	1	476	7	49	1	438	13	45	1
Kentville Ave - Westbound												
Btwn Johnston St & Annandale St	663	6	69	0	647	3	67	0	0	0	0	0
Hutchinson St - Eastbound												
Btwn Railway Pde & Annandale St	1096	68	114	6	1032	71	107	6	909	0	94	0
Hutchinson St - Westbound												
Btwn Annandale St & Railway Pde	877	77	91	6	756	135	79	11	667	18	69	2
Rose St - Eastbound												
Btwn Annandale St & Johnston St	1096	68	114	6	1032	71	107	6	909	0	94	0
Rose St - Westbound												
Btwn Johnston St & Annandale St	877	77	91	6	756	135	79	11	667	18	69	2
Catherine St - Southbound												
Btwn Lilyfield Rd & City West Link	9991	570	1573	55	9973	428	1382	46	8377	326	1160	35
Btwn City West Link & Brennan St	7492	265	793	20	7415	257	785	20	6564	215	695	16

Traffic Data - 2023 Timeframe 1

	No Build			Do Minimum			Do Something			Do Something Plus						
	15 Hour	9 Hour	9 Hour	15 Hour	9 Hour	9 Hour	15 Hour	9 Hour	9 Hour	15 Hour	9 Hour	9 Hour				
	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV				
Btwn Brenan St & Piper St	6437	191	779	20	6432	183	779	19	5690	208	689	22	5748	269	696	29
Btwn Piper St & Ilka St	7356	263	891	28	7296	250	883	27	6195	216	750	23	6230	275	754	29
Btwn Ilka St & Moore St	7470	269	777	22	7409	256	770	21	6291	221	654	18	6326	281	658	24
Catherine St - Northbound																
Btwn Moore St & Ilka St	4941	192	514	16	4789	195	498	16	4151	92	431	8	4182	99	435	8
Btwn Ilka St & Piper St	4979	196	476	12	4826	199	461	12	4182	94	400	6	4214	101	403	6
Btwn Piper St & Brenan St	935	168	89	11	825	153	79	10	645	89	62	6	665	84	64	5
Btwn Brenan St & City West Link	1835	237	180	18	1619	280	159	22	761	94	75	7	806	93	79	7
Balmain Rd - Southbound																
Btwn Perry St & Lilyfield Rd	2538	295	372	35	2443	265	358	31	2147	85	314	10	2135	87	313	10
Btwn Lilyfield Rd & City West Link	3882	349	611	33	3867	303	536	33	3567	107	494	11	3597	111	498	12
Btwn City West Link & Piper St	5079	141	615	15	4929	134	597	14	4959	40	600	4	4974	41	602	4
Btwn Piper St & Alfred St	3455	63	418	7	3360	62	407	7	3397	10	411	1	3375	11	409	1
Btwn Alfred St & Moore St	3508	65	365	5	3412	64	355	5	3449	10	359	1	3428	11	356	1
Balmain Rd - Northbound																
Btwn Moore St & Alfred St	5672	308	590	26	5661	333	588	28	4781	305	497	26	5014	335	521	28
Btwn Alfred St & Piper St	5716	314	546	20	5704	340	545	21	4818	310	460	20	5052	342	483	21
Btwn Piper St & City West Link	10367	348	991	22	10322	392	986	25	9295	339	888	21	9609	385	918	24
Btwn City West Link & Lilyfield Rd	11126	531	1541	57	10385	545	1635	52	9809	417	1544	40	10080	463	1587	44
Btwn Lilyfield Rd & Perry St	6288	379	1059	38	6048	366	1019	37	5406	319	911	32	5722	367	964	37
Piper St - Eastbound																
Btwn Balmain Rd & Catherine St	1686	79	175	7	1621	74	169	6	1589	30	165	3	1625	30	169	3
Piper St - Westbound																
Btwn Catherine St & Balmain Rd	4653	34	484	3	4611	52	479	4	4445	29	462	2	4521	42	470	4
M4M5 Link ON Ramp from City West Link																
Btwn City West Link & M4M5 Link EB	-	-	-	-	-	-	-	-	4667	231	1067	53	7986	373	1827	85
M4M5 Link OFF Ramp to City West Link																
Btwn M4M5 Link WB & City West Link	-	-	-	-	-	-	-	-	5463	540	1249	123	7491	288	1713	66

Traffic Data - 2023 Timeframe 1

	No Build			Do Minimum			Do Something			Do Something Plus		
	15 Hour	9 Hour	15 Hour	9 Hour	15 Hour	9 Hour	15 Hour	9 Hour	15 Hour	9 Hour	15 Hour	9 Hour
	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV
M4M5 Link OFF Ramp to Anzac Bridge EB												
Btwn Rozelle Interchange & Anzac Bridge	-	-	-	-	-	-	40147	3004	9182	687	37344	2407
M4M5 Link ON Ramp from Anzac Bridge WB												
Btwn Anzac Bridge & Rozelle Interchange	-	-	-	-	-	-	36027	2827	8240	647	35663	2234
Iron Cove Link - Northbound												
Btwn Rozelle Interchange & Victoria Rd	-	-	-	-	-	-	21515	1406	4920	322	25472	1528
Iron Cove Link - Southbound												
Btwn Victoria Rd & Rozelle Interchange	-	-	-	-	-	-	24414	1480	5583	338	25247	1737
Western Harbour Tunnel NB ON Ramp from City West Link												
Btwn City West Link & WHT NB	-	-	-	-	-	-	-	-	-	-	-	-
Western Harbour Tunnel SB OFF Ramp to City West Link												
Btwn WHT SB & City West Link	-	-	-	-	-	-	-	-	-	-	-	-

Annexure E-2b

Traffic data - 2033

Traffic Data - 2033 Timeframe 2

	No Build			Do Minimum			Do Something			Do Something Plus		
	15 Hour	9 Hour	9 Hour	15 Hour	9 Hour	9 Hour	15 Hour	9 Hour	9 Hour	15 Hour	9 Hour	9 Hour
	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV
Victoria Rd - Southbound												
Btwn Park Ave & Iron Cove Link	42331	2526	6333	281	41673	2749	6235	305	43106	2917	6449	324
Btwn Iron Cove Link & Terry St	42331	2526	6333	281	41673	2749	6235	305	18230	956	2898	126
Btwn Terry St & Wellington St	37378	2466	5592	274	36489	2690	5459	299	13995	969	2094	108
Btwn Wellington St & Darling St	39688	2495	5938	277	38959	2717	5829	302	17577	1082	2630	120
Btwn Darling St & Evans St	31473	1776	4709	197	30850	2046	4615	227	11079	635	1657	71
Btwn Evans St & Gordon St	31834	1790	4763	199	31051	2062	4646	229	12364	724	1850	80
Btwn Gordon St & Robert St	35956	1866	5264	218	34629	2149	5070	251	18204	830	2665	97
Btwn Robert St & City West Link	46105	1938	7258	186	45051	2219	6241	238	31056	967	4302	104
Victoria Rd - Northbound												
Btwn City West Link & Lilyfield Rd	46120	1692	6390	181	42960	1767	6763	169	26492	599	4212	79
Btwn Lilyfield Rd & Robert St	42522	1194	5891	128	39588	1585	6232	152	22576	514	3554	49
Btwn Robert St & Gordon St	32278	1205	5438	120	30664	1571	5166	157	11534	418	1943	42
Btwn Gordon St & Evans St	32466	1195	5534	126	30855	1582	5259	167	11735	417	2000	44
Btwn Evans St & Darling St	33191	1185	5277	156	31892	1527	5070	201	13062	451	2077	59
Btwn Darling St & Wellington St	33231	1543	5664	163	32964	1881	5618	199	13689	578	2333	61
Btwn Wellington St & Moodie St	41600	1637	6613	216	40796	1978	6485	260	20503	635	3259	84
Btwn Moodie St & Terry St	41499	1686	7073	178	40598	2023	6919	214	19977	646	3405	68
Btwn Terry St & Iron Cove Link	38873	1656	6626	175	38052	1989	6486	210	16823	587	2674	77
Btwn Iron Cove Link & Park Ave	38873	1656	6626	175	38052	1989	6486	210	39409	2258	6717	238
City West Link - Eastbound												
Btwn Norton St & Balmain Rd	26346	2269	6568	281	27025	2315	4743	499	20226	1277	3549	275
Btwn Balmain Rd & Catherine St	25931	2073	4122	273	25097	2341	3990	308	19060	1319	3030	174
Btwn Catherine St & M4M5 Link Intersection	27124	2159	6762	268	27702	2215	4861	478	20429	1366	3248	180
Btwn M4M5 Link Intersection & The Crescent	27124	2159	6762	268	27702	2215	4861	478	23976	1980	3811	261
Btwn The Crescent & James Craig Rd	41722	2570	6720	486	39475	2982	6358	563	33565	2168	5406	409
Btwn James Craig Rd & Victoria Rd	9525	129	1534	24	7050	344	1136	65	8865	263	1409	35
Btwn James Craig Rd & Underpass to Anzac Bridge	35818	2355	8191	539	32508	2551	7434	584	24920	1855	5699	424

Traffic Data - 2033 Timeframe 2

	No Build			Do Minimum			Do Something			Do Something Plus						
	15 Hour			9 Hour			15 Hour			9 Hour						
	Volume	HGV		Volume	HGV		Volume	HGV		Volume	HGV					
City West Link - Westbound																
Btwn Victoria Rd & James Craig Rd	33455	1339	7440	160	30553	1888	6795	225	31850	1827	7083	218	34426	1467	7656	175
Btwn James Craig Rd & The Crescent	29507	1350	6562	161	29179	1890	6489	226	30524	1829	6789	218	33140	1472	7370	176
Btwn The Crescent & M4M5 Link Intersection	22073	1134	3874	245	21260	1746	5301	217	22716	1474	3611	194	27409	1299	4357	171
Btwn M4M5 Link Intersection & Catherine St	22073	1134	3874	245	21260	1746	5301	217	20003	1270	3180	167	20407	977	3244	129
Btwn Catherine St & Balmain Rd	25384	1658	4455	358	23633	2157	5892	268	20248	1421	5048	176	20780	1209	5181	150
Btwn Balmain Rd & Norton St	24815	1793	4355	387	23631	2181	5892	270	19303	1472	4812	182	19720	1315	4916	163
Anzac Bridge - Eastbound																
Btwn Victoria Rd & ON Ramp from City West Link Underpass	36579	1759	5815	232	37019	2004	5885	264	17306	357	2751	47	17015	240	2705	32
Btwn ON Ramp from City West Link Underpass & ON Ramp from M4M5 Link	70321	3975	16082	909	67422	4395	15420	1005	43647	2257	7030	426	42958	1228	6920	232
Btwn ON Ramp from M4M5 Link & east end of Anzac Bridge	70321	3975	16082	909	67422	4395	15420	1005	81974	5674	18747	1298	79045	3761	18078	860
Anzac Bridge - Westbound																
Btwn east end of Anzac Bridge & ON Ramp to M4M5 Link	58096	2512	13286	575	57375	2804	13122	641	73189	4286	16738	980	73434	3392	16794	776
Btwn ON Ramp to M4M5 Link & Victoria Rd	61591	2729	9791	359	60827	3046	9670	401	36043	1571	8016	187	38752	1167	8619	139
The Crescent - Southbound																
Btwn City West Link & Johnston St	11023	170	1167	13	10222	241	1083	19	17542	943	1858	72	18434	844	1952	65
Btwn Johnston St & Chapman Rd	4845	88	448	9	4261	129	394	13	6465	366	598	38	6924	333	640	34
Btwn Chapman St & Scotsman St	4426	181	704	24	4014	193	638	25	5751	363	914	48	6132	331	975	44
The Crescent - Northbound																
Btwn Scotsman St & Chapman Rd	7045	231	1120	30	6368	552	1012	73	6496	378	1033	50	7902	398	1256	52
Btwn Chapman Rd & Johnston St	7583	205	996	51	6883	491	904	122	7077	350	930	87	8757	370	1150	92
Btwn Johnston St & City West Link	15140	626	1486	49	14083	891	1383	69	17844	902	1752	70	20427	793	2005	61

Traffic Data - 2033 Timeframe 2

	No Build			Do Minimum			Do Something			Do Something Plus		
	15 Hour		9 Hour	15 Hour		9 Hour	15 Hour		9 Hour	15 Hour		9 Hour
	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV
James Craig Rd - Eastbound												
Btwn City West Link & Sommersville Rd	13742	38	2214	7	13701	38	2207	7	14659	38	2361	7
James Craig Rd - Westbound												
Btwn Sommersville Rd & City West Link	14526	42	3231	5	14558	42	3238	5	14936	42	3322	5
Bowman St - Southbound												
Btwn Tambula St & Bank St	4014	202	417	17	3949	207	411	17	3949	209	410	17
Bowman St - Northbound												
Btwn Bank St & Tambula St	4552	159	473	13	4478	161	465	13	4602	127	478	11
Terry St - Southbound												
Btwn Wellington St & Wulumay Cl	1523	35	158	3	1311	24	136	2	1061	51	110	4
Btwn Wulumay Cl & Victoria Rd	1608	36	73	2	1384	25	63	1	1120	53	51	3
Terry St - Northbound												
Btwn Victoria Rd & Wulumay Cl	9784	131	671	9	9725	121	667	8	9449	101	648	7
Btwn Wulumay Cl & Wellington St	9468	128	984	11	9411	118	978	10	9143	99	950	8
Wise St - Eastbound												
Btwn Terry St & Darling St	5886	73	403	5	5904	62	405	4	5326	42	365	3
Wise St - Westbound												
Btwn Darling St & Terry St	6446	64	294	3	6091	32	278	2	5858	29	267	1
Beattie St - Westbound												
Btwn Wisbeach St & Darling St	3522	19	366	2	3448	24	358	2	3449	28	359	2
Beattie St - Eastbound												
Btwn Darling St & Wisbeach St	3506	27	364	2	3670	17	381	1	3560	29	370	2
Wellington St - Southbound												
Btwn Terry St & Merton St	8950	81	930	7	8790	65	914	5	9248	38	961	3
Btwn Merton St & Victoria Rd	11453	169	523	8	11037	178	504	9	11340	196	517	9
Darling St - Southbound												
Btwn Wisbeach St & Beattie St	7840	210	763	9	7266	199	708	8	7400	195	721	8
Btwn Beattie St & Merton St	5736	165	559	7	5391	193	525	8	5498	193	535	8
Btwn Merton St & National St	3804	79	395	7	3696	78	384	6	3978	33	414	3
Btwn National St & Victoria Rd	3825	83	372	3	3717	81	362	3	4001	35	390	1

Traffic Data - 2033 Timeframe 2

	No Build			Do Minimum			Do Something			Do Something Plus		
	15 Hour		9 Hour	15 Hour		9 Hour	15 Hour		9 Hour	15 Hour		9 Hour
	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV
Darling St - Northbound												
Btwn Victoria Rd & National St	7327	168	716	14	7086	180	692	16	7102	213	694	18
Btwn National St & Merton St	7286	167	757	14	7046	179	732	15	7062	212	734	18
Btwn Merton St & Beattie St	7327	168	716	14	7086	180	692	16	7102	213	694	18
Btwn Beattie St & Wisbeach St	9033	218	882	19	8677	225	847	19	8496	228	830	20
Evans St - Southbound												
Btwn Beattie St & Victoria Rd	5925	170	616	14	5315	159	552	13	5342	192	555	16
Evans St - Northbound												
Btwn Victoria Rd & Beattie St	4962	202	516	17	4282	188	445	16	4545	202	472	17
Robert St - Eastbound												
Btwn Victoria Rd & Mullens St	21178	256	1452	17	17964	259	1231	17	18385	231	1260	15
Btwn Mullens St & Buchanan St	319	5	22	0	315	3	22	0	325	3	22	0
Robert St - Westbound												
Btwn Buchanan St & Mullens St	1455	22	66	1	1452	19	66	1	1521	19	69	1
Btwn Mullens St & Victoria Rd	23018	300	1050	15	19885	310	907	15	20542	273	937	13
Mullens St - Northbound												
Btwn Robert St & Reynolds St	15332	215	1594	18	14461	223	1503	19	14792	194	1538	16
Mullens St - Southbound												
Btwn Reynolds St & Robert St	15634	267	1625	22	15312	277	1592	23	15709	244	1633	20
Lilyfield Rd - Eastbound												
Btwn Norton St & Balmain Rd	1667	94	76	5	1428	103	65	5	1538	37	70	2
Btwn Balmain Rd & Helena St	7575	217	346	11	6960	254	318	12	6392	138	292	7
Btwn Helena St & Catherine St	7575	217	346	11	6960	254	318	12	6392	138	292	7
Btwn Catherine St & Foucart St	4804	87	219	4	4405	136	201	7	4495	94	205	5
Btwn Foucart St & Gordon St	3023	53	138	3	2662	89	121	4	2846	70	130	3
Btwn Gordon St & Victoria Rd	1863	0	182	0	1836	0	179	0	1256	9	123	1
Lilyfield Rd - Westbound												
Btwn Victoria Rd & Gordon St	5593	532	545	22	5393	191	525	8	5424	120	528	5
Btwn Gordon St & Foucart St	2208	612	151	40	2182	246	150	16	1705	41	117	3
Btwn Foucart St & Catherine St	5847	672	401	44	5643	356	387	23	4119	106	282	7
Btwn Catherine St & Helena St	2040	135	140	9	2242	94	154	6	1568	27	107	2
Btwn Helena St & Balmain Rd	2040	135	140	9	2242	94	154	6	1568	27	107	2
Btwn Balmain Rd & Norton St	751	178	51	12	730	154	50	10	419	17	29	1

Traffic Data - 2033 Timeframe 2

	No Build			Do Minimum			Do Something			Do Something Plus		
	15 Hour		9 Hour	15 Hour		9 Hour	15 Hour		9 Hour	15 Hour		9 Hour
	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV
O'Neill St - Eastbound												
Btwn Grove St & Alberto St	3327	131	346	11	3077	126	320	11	3014	67	313	6
Btwn Alberto St & Foucart St	2494	42	259	4	2436	42	253	4	3013	51	313	4
O'Neill St - Westbound												
Btwn Foucart St & Alberto St	2204	20	229	2	2198	20	229	2	2048	16	213	1
Btwn Alberto St & Grove St	3938	59	409	5	3522	97	366	8	2722	41	283	3
Alfred St - Eastbound												
Btwn Denison St & Gordon St	4355	227	453	19	4163	179	433	15	5205	82	541	7
Alfred St - Westbound												
Btwn Gordon St & Denison St	3670	91	381	8	3565	71	371	6	3457	87	359	7
Evans St - Eastbound												
Btwn Denison St & Victoria Rd	3231	150	336	13	2823	134	293	11	3497	159	364	13
Evans St - Westbound												
Btwn Victoria Rd & Denison St	3388	84	352	7	2880	111	299	9	1680	14	175	1
Perry St - Eastbound												
Btwn Mary St & Balmain Rd	8938	265	408	13	9337	234	426	11	10910	235	498	11
Perry St - Westbound												
Btwn Balmain Rd & Mary St	10804	289	741	19	10410	322	714	21	9686	238	664	15
Balmain Rd - Eastbound												
Btwn Perry St & Grove St	13906	678	634	33	14315	618	653	30	14325	558	654	27
Btwn Grove St & Alberto St	11334	599	517	29	11732	575	535	28	11663	497	532	24
Btwn Alberto St & Denison St	10991	619	1747	82	11367	596	1807	78	11236	469	1786	62
Balmain Rd - Westbound												
Btwn Denison St & Alberto St	13706	721	2179	95	13239	690	2105	91	11703	504	1861	66
Btwn Alberto St & Grove St	13915	750	954	49	13603	673	932	44	12069	521	827	34
Btwn Grove St & Perry St	11457	633	785	41	11093	555	760	36	9685	322	664	21
Darling St - Eastbound												
Btwn Denison St & Victoria Rd	10088	561	985	48	10876	549	1062	47	9878	385	964	33
Darling St - Westbound												
Btwn Victoria Rd & Denison St	14801	902	1441	38	14528	835	1415	35	12778	563	1244	24
Moodie St - Eastbound												
Btwn Oxford St & Victoria Rd	1497	20	156	2	1439	9	150	1	1043	7	108	1

Traffic Data - 2033 Timeframe 2

	No Build			Do Minimum			Do Something			Do Something Plus		
	15 Hour	9 Hour	9 Hour	15 Hour	9 Hour	9 Hour	15 Hour	9 Hour	9 Hour	15 Hour	9 Hour	9 Hour
	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV
Moodie St - Westbound												
Btwn Victoria Rd & Oxford St	1173	9	122	1	1226	10	127	1	1390	11	144	1
Grove St - Southbound												
Btwn O'Neill St & Lilyfield Rd	7293	193	758	16	6916	229	719	19	6079	257	632	21
Grove St - Northbound												
Btwn Lilyfield Rd & O'Neill St	1551	74	161	6	1276	103	133	9	1230	30	128	3
Alberto St - Southbound												
Btwn Balmain Rd & O'Neill St	920	21	96	2	735	60	76	5	610	14	63	1
Alberto St - Northbound												
Btwn O'Neill St & Balmain Rd	801	69	83	6	822	68	85	6	750	9	78	1
Foucart St - Southbound												
Btwn O'Neill St & Lilyfield Rd	4059	64	422	5	3885	114	404	10	3039	63	316	5
Foucart St - Northbound												
Btwn Lilyfield Rd & O'Neill St	1160	29	121	2	1127	42	117	4	1175	22	122	2
Oxford St - Southbound												
Btwn Moodie St & Balmain Rd	2245	26	233	2	2257	28	235	2	2400	30	250	3
Oxford St - Northbound												
Btwn Balmain St & Moodie St	2262	40	235	3	2173	30	226	3	1721	29	179	2
Denison St - Southbound												
Btwn Balmain Rd & Evans St	3217	203	334	17	3080	174	320	15	4041	139	420	12
Btwn Evans St & Alfred St	5047	209	525	17	4776	211	497	18	3830	50	398	4
Denison St - Northbound												
Btwn Alfred St & Evans St	3073	86	319	7	2975	77	309	6	2574	73	268	6
Btwn Evans St & Balmain St	1397	14	145	1	1334	16	139	1	971	15	101	1
Gordon St - Northbound												
Btwn Lilyfield Rd & Victoria Rd	4472	85	437	7	3905	124	381	11	6297	113	615	10
Brenan St - Eastbound												
Btwn Catherine St & Railway Pde	2230	91	232	8	1911	105	199	9	1440	18	150	1
Brenan St - Westbound												
Btwn Railway Pde & Catherine St	2602	85	270	7	2106	131	219	11	809	22	84	2
Railway Pde - Eastbound												
Btwn Brenan St & Bayview Cres	734	28	45	1	560	43	34	2	522	14	32	1

Traffic Data - 2033 Timeframe 2

	No Build			Do Minimum			Do Something			Do Something Plus		
	15 Hour	9 Hour	9 Hour	15 Hour	9 Hour	9 Hour	15 Hour	9 Hour	9 Hour	15 Hour	9 Hour	9 Hour
	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV
Railway Pde - Westbound												
Btwn Bayview Cres & Brennan St	1608	0	74	0	1295	0	59	0	0	0	0	0
Bayview Cres - Eastbound												
Btwn Railway Pde & Annandale St	706	27	73	2	538	42	56	3	502	14	52	8
Bayview Cres - Westbound												
Btwn Annandale St & Railway Pde	1524	0	158	0	1226	0	127	0	0	0	0	0
Annandale St - Southbound												
Btwn Bayview Cres & Kentville Ave	706	27	73	2	538	42	56	3	502	14	52	8
Annandale St - Northbound												
Btwn Kentville Ave & Bayview Cres	1524	0	158	0	1226	0	127	0	0	0	0	0
Johnston St - Southbound												
Btwn The Crescent & Kentville Ave	8926	165	1081	17	8190	233	991	25	11667	559	1412	59
Btwn Kentville Ave & Rose St	7183	175	1142	23	6753	231	1073	30	11285	546	1794	72
Btwn Rose St & Piper St	6500	151	1033	20	6156	164	979	22	9959	517	1583	68
Johnston St - Northbound												
Btwn Piper St & Rose St	8662	451	1377	59	8036	401	1277	53	9596	466	1525	61
Btwn Rose St & Kentville Ave	8952	445	1423	59	8296	396	1319	52	10162	466	1616	61
Btwn Kentville Ave & The Crescent	10182	488	973	31	9321	461	891	29	11257	512	1076	32
Kentville Ave - Eastbound												
Btwn Annandale St & Johnston St	706	27	73	2	538	42	56	3	502	14	52	1
Kentville Ave - Westbound												
Btwn Johnston St & Annandale St	1524	0	158	0	1226	0	127	0	0	0	0	0
Hutchinson St - Eastbound												
Btwn Railway Pde & Annandale St	1524	63	158	5	1371	64	143	5	935	3	97	0
Hutchinson St - Westbound												
Btwn Annandale St & Railway Pde	1080	90	112	7	879	134	91	11	809	22	84	2
Rose St - Eastbound												
Btwn Annandale St & Johnston St	1524	63	158	5	1371	64	143	5	935	3	97	0
Rose St - Westbound												
Btwn Johnston St & Annandale St	1080	90	112	7	879	134	91	11	809	22	84	2
Catherine St - Southbound												
Btwn Lilyfield Rd & City West Link	11496	758	1810	73	11011	486	1526	52	8838	334	1224	36
Btwn City West Link & Brennan St	8046	280	852	21	7832	286	829	22	6741	245	714	19

Traffic Data - 2033 Timeframe 2

	No Build			Do Minimum			Do Something			Do Something Plus		
	15 Hour	9 Hour	15 Hour	9 Hour	15 Hour	9 Hour	15 Hour	9 Hour	15 Hour	9 Hour	15 Hour	9 Hour
	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV	Volume	HGV
M4M5 Link OFF Ramp to Anzac Bridge EB												
Btwn Rozelle Interchange & Anzac Bridge	-	-	-	-	-	-	40732	3491	9315	799	38450	2573
M4M5 Link ON Ramp from Anzac Bridge WB												
Btwn Anzac Bridge & Rozelle Interchange	-	-	-	-	-	-	37330	2855	8537	653	34880	2328
Iron Cove Link - Northbound												
Btwn Rozelle Interchange & Victoria Rd	-	-	-	-	-	-	21672	1492	4956	341	24589	1620
Iron Cove Link - Southbound												
Btwn Victoria Rd & Rozelle Interchange	-	-	-	-	-	-	23136	1758	5291	402	24413	1848
Western Harbour Tunnel NB ON Ramp from City West Link												
Btwn City West Link & WHT NB	-	-	-	-	-	-	-	-	-	-	-	-
Western Harbour Tunnel SB OFF Ramp to City West Link												
Btwn WHT SB & City West Link	-	-	-	-	-	-	-	-	-	-	-	-

Annexure F-1a

Construction noise predictions – Haberfield Option A

Construction Noise Predictions

F1a – Haberfield Option A

Note 1: Approximate overall duration of the activity in all areas of the Site. The duration of these impacts is less than the overall duration, and depends on the rate of progress in the works areas.

Note 2: Approximate percentage of activity duration within overall proposal program.

Note 3: Based on worst case noise works area (closest to receivers).

Note 4: Based on ICNG definition (ie predicted LAeq(15minute) noise at residential receiver is 75 dBA or greater).

Annexure F-1a

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Construction Noise Predictions

Activity Duration and Impact Summary – NCA01

Activity ID	Activity	Weeks ¹	Activity duration within overall project program ²				Number of receivers															
							Total	Highly noise affected ⁴	NML exceedance receiver count ³													
			25	50	75	100			Daytime			Daytime (out of hours)			Evening			Night-time			Sleep disturbance	
								1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA
OPTA-01	Installation of environmental controls	1					465	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTA-02	Pavement and infrastructure works	2					465	-	51	-	168	5	-	164	5	-	305	106	-	307	79	1
OPTA-03	Establishment of construction facilities	4					465	-	28	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTA-04	Onsite car parking	132					465	-	-	-	-	-	-	-	-	-	1	-	-	2	-	-
OPTA-05	Workshop, deliveries, maintenance, and storage	132					465	-	-	-	-	-	-	-	-	-	48	-	-	13	-	-
OPTA-06	Onsite truck movements - Northcote	132					465	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-
OPTA-07	Onsite truck movements - Wattle St Ramps	132					465	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTA-08	Tunnelling support activities	72					465	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTA-09	Wattle Street Line marking	1					465	-	-	-	1	-	-	1	-	-	5	-	-	116	7	-
OPTA-10	Ventilation Building Installation	72					465	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTA-11	Site rehabilitation and Landscape	33					465	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTA-12	Cumulative works scenario	72					465	-	-	-	-	-	-	-	-	-	72	-	-	16	-	-

Annexure F-1a

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Construction Noise Predictions

Activity Duration and Impact Summary – NCA02

Activity ID	Activity	Weeks ¹	Activity duration within overall project program ²				Number of receivers		NML exceedance receiver count ³														
							Total	Highly noise affected ⁴	Daytime			Evening			Night-time			Sleep disturbance					
			25	50	75	100			11-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA			
OPTA-01	Installation of environmental controls	1					70	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	
OPTA-02	Pavement and infrastructure works	2					70	1	7	-	-	18	1	-	16	1	-	34	7	-	33	10	1
OPTA-03	Establishment of construction facilities	4					70	3	7	2	-	-	-	-	-	-	-	-	-	-	-	-	
OPTA-04	Onsite car parking	132					70	-	-	-	-	-	-	-	-	-	1	-	-	3	1	-	
OPTA-05	Workshop, deliveries, maintenance, and storage	132					70	-	1	-	-	2	-	-	2	-	5	-	-	3	-	-	
OPTA-06	Onsite truck movements - Northcote	132					70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
OPTA-07	Onsite truck movements - Wattle St Ramps	132					70	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	
OPTA-08	Tunnelling support activities	72					70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
OPTA-09	Wattle Street Line marking	1					70	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	
OPTA-10	Ventilation Building Installation	72					70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
OPTA-11	Site rehabilitation and Landscape	33					70	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	
OPTA-12	Cumulative works scenario	72					70	-	1	-	-	3	-	-	3	-	7	-	-	9	1	-	

Annexure F-1a

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Construction Noise Predictions

Activity Duration and Impact Summary – NCA03

Activity ID	Activity	Weeks ¹	Activity duration within overall project program ²				Number of receivers		NML exceedance receiver count ³											
									Total	Highly noise affected ⁴	Daytime			Evening			Night-time			Sleep disturbance
			25	50	75	100					1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	
OPTA-01	Installation of environmental controls	1						68		-	2	-	-	-	-	-	-	-	-	-
OPTA-02	Pavement and infrastructure works	2						68		4	12	-	-	8	9	-	36	12	12	12
OPTA-03	Establishment of construction facilities	4						68		2	11	-	-	-	-	-	-	-	-	-
OPTA-04	Onsite car parking	132						68		-	-	-	-	-	-	-	6	-	-	-
OPTA-05	Workshop, deliveries, maintenance, and storage	132						68		-	-	-	-	-	-	-	12	-	-	-
OPTA-06	Onsite truck movements - Northcote	132						68		-	-	-	-	-	-	-	-	-	-	-
OPTA-07	Onsite truck movements - Wattle St Ramps	132						68		-	-	-	-	-	-	-	-	-	-	-
OPTA-08	Tunnelling support activities	72						68		-	-	-	-	-	-	-	-	-	-	-
OPTA-09	Wattle Street Line marking	1						68		-	-	-	-	-	-	-	-	-	-	-
OPTA-10	Ventilation Building Installation	72						68		-	-	-	-	-	-	-	-	-	-	-
OPTA-11	Site rehabilitation and Landscape	33						68		-	-	-	-	-	-	-	-	-	-	-
OPTA-12	Cumulative works scenario	72						68		-	-	-	-	-	-	-	13	-	-	-

Annexure F-1a

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Construction Noise Predictions

Activity Duration and Impact Summary – NCA04

Activity ID	Activity	Weeks ¹	Activity duration within overall project program ²				Number of receivers		NML exceedance receiver count ³													
							Total	Highly noise affected ⁴	Daytime			Evening			Night-time			Sleep disturbance				
			25	50	75	100			1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA		
OPTA-01	Installation of environmental controls	1						115	-				-	-	-	-	-	-	-	-	-	-
OPTA-02	Pavement and infrastructure works	2						115	-				-	-	-	-	-	-	-	-	-	-
OPTA-03	Establishment of construction facilities	4						115	-				-	-	-	-	-	-	-	-	-	-
OPTA-04	Onsite car parking	132						115	-				-	-	-	-	-	-	-	-	-	-
OPTA-05	Workshop, deliveries, maintenance, and storage	132						115	-				-	-	-	-	-	-	-	-	-	-
OPTA-06	Onsite truck movements - Northcote	132						115	-				-	-	-	-	-	-	-	-	-	-
OPTA-07	Onsite truck movements - Wattle St Ramps	132						115	-				-	-	-	-	-	-	-	-	-	-
OPTA-08	Tunnelling support activities	72						115	-				-	-	-	-	-	-	-	-	-	-
OPTA-09	Wattle Street Line marking	1						115	-				-	-	-	-	-	-	-	-	-	-
OPTA-10	Ventilation Building Installation	72						115	-				-	-	-	-	-	-	-	-	-	-
OPTA-11	Site rehabilitation and Landscape	33						115	-				-	-	-	-	-	-	-	-	-	-
OPTA-12	Cumulative works scenario	72						115	-				-	-	-	-	-	-	-	-	-	-

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Construction Noise Predictions

Activity Duration and Impact Summary – NCA05

Activity ID	Activity	Weeks ¹	Activity duration within overall project program ²				Number of receivers		NML exceedance receiver count ³															
							Total	Highly noise affected ⁴	Daytime			Evening			Night-time			Sleep disturbance						
			25	50	75	100			1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA				
OPTA-01	Installation of environmental controls	1					757	-																
OPTA-02	Pavement and infrastructure works	2					757	-																
OPTA-03	Establishment of construction facilities	4					757	-																
OPTA-04	Onsite car parking	132					757	-																
OPTA-05	Workshop, deliveries, maintenance, and storage	132					757	-																
OPTA-06	Onsite truck movements - Northcote	132					757	-																
OPTA-07	Onsite truck movements - Wattle St Ramps	132					757	-																
OPTA-08	Tunnelling support activities	72					757	-																
OPTA-09	Wattle Street Line marking	1					757	-																
OPTA-10	Ventilation Building Installation	72					757	-																
OPTA-11	Site rehabilitation and Landscape	33					757	-																
OPTA-12	Cumulative works scenario	72					757	-																

Annexure F-1a

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Construction Noise Predictions

Activity Duration and Impact Summary – NCA06

Activity ID	Activity	Weeks ¹	Activity duration within overall project program ²				Number of receivers		NML exceedance receiver count ³											
			25	50	75	100	Total	Highly noise affected ⁴	Daytime			Evening			Night-time			Sleep disturbance		
									1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA
OPTA-01	Installation of environmental controls	1					138	-	12	-	-	-	-	-	-	-	-	-	-	-
OPTA-02	Pavement and infrastructure works	2					138	-	21	9	-	48	12	2	2	15	7	57	18	8
OPTA-03	Establishment of construction facilities	4					138	-	17	11	-	-	-	-	-	-	-	-	-	-
OPTA-04	Onsite car parking	132					138	-	-	-	-	3	-	-	8	-	-	9	-	-
OPTA-05	Workshop, deliveries, maintenance, and storage	132					138	-	-	-	-	8	-	-	15	-	-	7	-	-
OPTA-06	Onsite truck movements - Northcote	132					138	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTA-07	Onsite truck movements - Wattle St Ramps	132					138	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTA-08	Tunnelling support activities	72					138	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTA-09	Wattle Street Line marking	1					138	-	-	-	-	-	-	-	-	-	-	11	-	-
OPTA-10	Ventilation Building Installation	72					138	-	1	-	-	-	-	-	-	-	-	-	-	-
OPTA-11	Site rehabilitation and Landscape	33					138	-	11	-	-	-	-	-	-	-	-	-	-	-
OPTA-12	Cumulative works scenario	72					138	-	1	-	-	12	-	-	17	-	-	9	-	-

Annexure F-1a

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Construction Noise Predictions

Activity Duration and Impact Summary – NCA07

Activity ID	Activity	Weeks ¹	Activity duration within overall project program ²				Number of receivers		NML exceedance receiver count ³															
							Total	Highly noise affected ⁴	Daytime			Daytime (out of hours)			Evening			Night-time			Sleep disturbance			
			25	50	75	100			1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA				
OPTA-01	Installation of environmental controls	1					207	-																
OPTA-02	Pavement and infrastructure works	2					207	-																
OPTA-03	Establishment of construction facilities	4					207	-																
OPTA-04	Onsite car parking	132					207	-																
OPTA-05	Workshop, deliveries, maintenance, and storage	132					207	-																
OPTA-06	Onsite truck movements - Northcote	132					207	-																
OPTA-07	Onsite truck movements - Wattle St Ramps	132					207	-																
OPTA-08	Tunnelling support activities	72					207	-																
OPTA-09	Wattle Street Line marking	1					207	-																
OPTA-10	Ventilation Building Installation	72					207	-																
OPTA-11	Site rehabilitation and Landscape	33					207	-																
OPTA-12	Cumulative works scenario	72					207	-																

Annexure F-1b

Construction noise predictions – Haberfield Option B

Construction Noise Predictions

F1b – Haberfield Option B

Note 1: Approximate overall duration of the activity in all areas of the Site. The duration of these impacts is less than the overall duration, and depends on the rate of progress in the works areas.

Note 2: Approximate percentage of activity duration within overall proposal program.

Note 3: Based on worst case noise works area (closest to receivers).

Note 4: Based on ICNG definition (ie predicted LAeq(15minute) noise at residential receiver is 75 dBA or greater).

Annexure F-1b

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Construction Noise Predictions

Activity Duration and Impact Summary – NCA00

Activity ID		Activity		Weeks ¹ Activity duration within overall project program ²				Number of receivers														
Total		Highly noise affected ⁴		Daytime		Daytime (out of hours)		Evening				Night-time				Sleep disturbance						
								Daytime		Daytime (out of hours)		Evening		Night-time								
				1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA				
OPTB-01	Demolition of existing buildings	4					252	-	27	2	-	-	-	-	-	-	-	-				
OPTB-02	Utility adjustments	2					252	-	6	-	-	-	-	-	-	-	-	-				
OPTB-03	Installation of environmental controls	1					252	-	1	-	-	-	-	-	-	-	-	-				
OPTB-04	Pavement and infrastructure works	2					252	-	15	-	45	2	-	45	2	-	177	25	1	153	20	1
OPTB-05	Establishment of construction facilities	4					252	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-06	Onsite car parking	168					252	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-07	Workshop, deliveries, maintenance, and storage	168					252	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
OPTB-08	Spoil handling inside acoustic shed	168					252	-	-	-	3	-	-	3	-	-	25	1	-	3	-	-
OPTB-09	Tunnelling support activities	168					252	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-10	Ventilation building fit out and installation	84					252	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-11	Site rehabilitation and landscape	12					252	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-12	Cumulative	168					252	-	1	-	3	-	-	3	-	-	37	1	-	3	-	-

Annexure F-1b

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Construction Noise Predictions

Activity Duration and Impact Summary – NCA01

Activity ID		Activity		Weeks ¹ Activity duration within overall project program ²				Number of receivers										NML exceedance receiver count ³									
				25	50	75	100	Total	Highly noise affected ⁴	Daytime			Daytime (out of hours)			Evening			Night-time			Sleep disturbance					
										1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA			
OPTB-01	Demolition of existing buildings	4						462	7	71	19	5	-	-	-	-	-	-	-	-	-	-	-	-			
OPTB-02	Utility adjustments	2						462	5	41	13	5	-	-	-	-	-	-	-	-	-	-	-	-			
OPTB-03	Installation of environmental controls	1						462	-	15	5	-	-	-	-	-	-	-	-	-	-	-	-	-			
OPTB-04	Pavement and infrastructure works	2						462	3	50	7	2	164	18	5	161	18	5	311	91	18	297	70	17			
OPTB-05	Establishment of construction facilities	4						462	4	25	7	3	-	-	-	-	-	-	-	-	-	-	-	-			
OPTB-06	Onsite car parking	168						462	-	-	-	-	1	-	-	1	-	-	8	-	-	7	1	-			
OPTB-07	Workshop, deliveries, maintenance, and storage	168						462	-	4	1	-	10	2	-	9	2	-	37	6	2	14	4	1			
OPTB-08	Spoil handling inside acoustic shed	168						462	-	5	2	-	12	2	1	12	2	1	60	9	3	12	2	1			
OPTB-09	Tunnelling support activities	168						462	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
OPTB-10	Ventilation building fit out and installation	84						462	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
OPTB-11	Site rehabilitation and landscape	12						462	-	7	3	-	-	-	-	-	-	-	-	-	-	-	-	-			
OPTB-12	Cumulative	168						462	-	7	4	-	21	5	1	19	5	1	97	14	5	19	5	2			

Annexure F-1b

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Construction Noise Predictions

Activity Duration and Impact Summary – NCA02

Activity ID		Activity		Weeks ¹ Activity duration within overall project program ²				Number of receivers																	
				25	50	75	100	Total	Highly noise affected ⁴	NML exceedance receiver count ³															
										Daytime		Daytime (out of hours)		Evening		Night-time		Sleep disturbance							
										1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA				
OPTB-01	Demolition of existing buildings	4						70	-	1	-	-	-	-	-	-	-	-	-	-	-	-			
OPTB-02	Utility adjustments	2						70	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
OPTB-03	Installation of environmental controls	1						70	-	2	-	-	-	-	-	-	-	-	-	-	-	-			
OPTB-04	Pavement and infrastructure works	2						70	1	7	1	-	11	2	-	10	2	-	16	7	-	18	4	1	1
OPTB-05	Establishment of construction facilities	4						70	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
OPTB-06	Onsite car parking	168						70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
OPTB-07	Workshop, deliveries, maintenance, and storage	168						70	-	1	-	-	1	-	-	1	-	3	-	-	1	-	-	-	
OPTB-08	Spoil handling inside acoustic shed	168						70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
OPTB-09	Tunnelling support activities	168						70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
OPTB-10	Ventilation building fit out and installation	84						70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
OPTB-11	Site rehabilitation and landscape	12						70	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
OPTB-12	Cumulative	168						70	-	1	-	-	1	-	-	1	-	3	-	-	1	-	-	-	

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Construction Noise Predictions

Activity Duration and Impact Summary – NCA03

Activity		Weeks ¹ Activity duration within overall project program ²					Number of receivers													
ID	Activity	25	50	75	100	Total	Highly noise affected ⁴	NML exceedance receiver count ³												
								Daytime			Daytime (out of hours)			Evening			Night-time			Sleep disturbance
						1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA
OPTB-01	Demolition of existing buildings	4				68	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-02	Utility adjustments	2				68	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-03	Installation of environmental controls	1				68	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-04	Pavement and infrastructure works	2				68	-	2	-	6	-	12	-	-	35	13	1	34	14	-
OPTB-05	Establishment of construction facilities	4				68	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-06	Onsite car parking	168				68	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-07	Workshop, deliveries, maintenance, and storage	168				68	-	-	-	-	-	-	-	-	6	-	-	3	-	-
OPTB-08	Spoil handling inside acoustic shed	168				68	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-09	Tunnelling support activities	168				68	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-10	Ventilation building fit out and installation	84				68	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-11	Site rehabilitation and landscape	12				68	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-12	Cumulative	168				68	-	-	-	-	-	-	-	-	6	-	-	3	-	-

Construction Noise Predictions

Activity Duration and Impact Summary – NCA04

Activity ID		Activity	Weeks ¹ Activity duration within overall project program ²				Number of receivers													
			25	50	75	100	Total	Highly noise affected ⁴	NML exceedance receiver count ³											
									Daytime		Daytime (out of hours)		Evening		Night-time		Sleep disturbance			
									1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA
OPTB-01	Demolition of existing buildings	4					115	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-02	Utility adjustments	2					115	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-03	Installation of environmental controls	1					115	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-04	Pavement and infrastructure works	2					115	-	-	-	-	1	-	-	60	1	-	33	-	-
OPTB-05	Establishment of construction facilities	4					115	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-06	Onsite car parking	168					115	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-07	Workshop, deliveries, maintenance, and storage	168					115	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-08	Spoil handling inside acoustic shed	168					115	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-09	Tunnelling support activities	168					115	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-10	Ventilation building fit out and installation	84					115	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-11	Site rehabilitation and landscape	12					115	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-12	Cumulative	168					115	-	-	-	-	-	-	-	-	-	-	-	-	-

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Construction Noise Predictions

Activity Duration and Impact Summary – NCA05

Activity ID		Activity		Weeks ¹ Activity duration within overall project program ²					Number of receivers																	
									Total	Highly noise affected ⁴	NML exceedance receiver count ³															
											Daytime			Daytime (out of hours)			Evening			Night-time			Sleep disturbance			
											1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	
OPTB-01	Demolition of existing buildings	4						318	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-02	Utility adjustments	2						318	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-03	Installation of environmental controls	1						318	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-04	Pavement and infrastructure works	2						318	-	-	-	-	-	-	-	-	-	40	-	-	9	-	-	-	-	-
OPTB-05	Establishment of construction facilities	4						318	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-06	Onsite car parking	168						318	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-07	Workshop, deliveries, maintenance, and storage	168						318	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-08	Spoil handling inside acoustic shed	168						318	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-09	Tunnelling support activities	168						318	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-10	Ventilation building fit out and installation	84						318	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-11	Site rehabilitation and landscape	12						318	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-12	Cumulative	168						318	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Construction Noise Predictions

Activity Duration and Impact Summary – NCA06

Activity ID		Weeks ¹ Activity duration within overall project program ²				Number of receivers												
		Total	Highly noise affected ⁴	NML exceedance receiver count ³									Night-time			Sleep disturbance		
				Daytime			Daytime (out of hours)			Evening								
				1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA
OPTB-01	Demolition of existing buildings	4		32	9	3	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-02	Utility adjustments	2		26	6	3	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-03	Installation of environmental controls	1		18	3	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-04	Pavement and infrastructure works	2		27	20	-	35	20	10	35	20	10	37	24	16	37	20	14
OPTB-05	Establishment of construction facilities	4		18	15	2	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-06	Onsite car parking	168		3	-	-	5	2	-	5	2	-	11	2	-	14	3	-
OPTB-07	Workshop, deliveries, maintenance, and storage	168		-	-	-	14	-	-	14	-	-	18	-	-	8	-	-
OPTB-08	Spoil handling inside acoustic shed	168		-	-	-	6	-	-	6	-	-	9	-	-	-	-	-
OPTB-09	Tunnelling support activities	168		-	-	-	-	-	-	-	-	-	-	-	-	2	-	-
OPTB-10	Ventilation building fit out and installation	84		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-11	Site rehabilitation and landscape	12		15	2	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-12	Cumulative	168		9	-	-	19	2	-	19	2	-	30	3	-	14	3	-

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Construction Noise Predictions

Activity Duration and Impact Summary – NCA07

Activity ID		Activity		Weeks ¹ Activity duration within overall project program ²				Number of receivers													
Total		Highly noise affected ⁴		NML exceedance receiver count ³						Sleep disturbance											
				Daytime		Daytime (out of hours)		Evening						Night-time							
		25	50	75	100	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA				
OPTB-01	Demolition of existing buildings	4					24	10	1	-	-	-	-	-	-	-	-				
OPTB-02	Utility adjustments	2					15	7	1	-	-	-	-	-	-	-	-				
OPTB-03	Installation of environmental controls	1					7	1	-	-	-	-	-	-	-	-	-				
OPTB-04	Pavement and infrastructure works	2					20	6	1	29	11	4	22	11	4	41	11	6	36	12	4
OPTB-05	Establishment of construction facilities	4					14	4	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-06	Onsite car parking	168					1	-	-	2	-	-	2	-	-	6	-	-	6	1	-
OPTB-07	Workshop, deliveries, maintenance, and storage	168					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-08	Spoil handling inside acoustic shed	168					-	-	-	8	-	-	8	-	-	13	-	-	-	-	-
OPTB-09	Tunnelling support activities	168					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-10	Ventilation building fit out and installation	84					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-11	Site rehabilitation and landscape	12					6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPTB-12	Cumulative	168					3	-	-	10	-	-	10	-	-	15	1	-	6	1	-

Annexure F-2

Construction noise predictions – Darley Road

Construction Noise Predictions

F2 – Darley Rd

Note 1: Approximate overall duration of the activity in all areas of the Site. The duration of these impacts is less than the overall duration, and depends on the rate of progress in the works areas.

Note 2: Approximate percentage of activity duration within overall proposal program.

Note 3: Based on worst case noise works area (closest to receivers).

Note 4: Based on ICNG definition (ie predicted LAeq(15minute) noise at residential receiver is 75 dBA or greater).

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Construction Noise Predictions

Activity Duration and Impact Summary – NCA05

Activity ID	Activity	Weeks ¹	Activity duration within overall project program ²				Number of receivers											
							Total	Highly noise affected ⁴	NML exceedance receiver count ³						Night-time			
			Daytime			Daytime (out of hours)			Evening			Night-time						
			25	50	75	100	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA
DAR-01	Demolition of existing buildings	4																
DAR-02	Site clearing	2																
DAR-03	Utility adjustments	2																
DAR-04	Installation of environmental controls	1																
DAR-05	Pavement and infrastructure works	2																
DAR-06	Line marking works and road adjustments	2																
DAR-07	Construct new signalised intersection	3																
DAR-08	Place barriers to new queuing area	1																
DAR-09	Establishment of construction facilities	4																
DAR-10	Onsite car parking	204																
DAR-11	Workshop, deliveries, maintenance, and storage	204																
DAR-12	Construction of tunnel shaft and declines (outside acoustic shed)	36																
DAR-13	Spoil handling inside acoustic shed	96																
DAR-14	On site truck movements	96																
DAR-15	Tunnelling support activities	96																
DAR-16	Site rehabilitation and Landscape	12																
DAR-17	Cumulative tunnelling Works - day	96																
DAR-18	Cumulative tunnelling works – night	96																

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Construction Noise Predictions

Activity Duration and Impact Summary – NCA08

Activity ID	Activity	Weeks ¹	Activity duration within overall project program ²	Number of receivers														
				Total	Highly noise affected ⁴	NML exceedance receiver count ³												
						Daytime				Daytime (out of hours)			Evening			Night-time		
			25	50	75	100	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA
DAR-01	Demolition of existing buildings	4					8	-	-	-	-	-	-	-	-	-	-	-
DAR-02	Site clearing	2					8	-	-	-	-	-	-	-	-	-	-	-
DAR-03	Utility adjustments	2					8	-	-	-	-	-	-	-	-	-	-	-
DAR-04	Installation of environmental controls	1					8	-	-	-	-	-	-	-	-	-	-	-
DAR-05	Pavement and infrastructure works	2					8	-	-	-	-	-	-	-	-	-	-	-
DAR-06	Line marking works and road adjustments	2					8	-	-	-	-	-	-	-	-	-	-	-
DAR-07	Construct new signalised intersection	3					8	-	-	-	-	-	-	-	-	-	-	-
DAR-08	Place barriers to new queuing area	1					8	-	-	-	-	-	-	-	-	-	-	-
DAR-09	Establishment of construction facilities	4					8	-	-	-	-	-	-	-	-	-	-	-
DAR-10	Onsite car parking	204					8	-	-	-	-	-	-	-	-	-	-	-
DAR-11	Workshop, deliveries, maintenance, and storage	204					8	-	-	-	-	-	-	-	-	-	-	-
DAR-12	Construction of tunnel shaft and declines (outside acoustic shed)	36					8	-	-	-	-	-	-	-	-	-	-	-
DAR-13	Spoil handling inside acoustic shed	96					8	-	-	-	-	-	-	-	-	-	-	-
DAR-14	On site truck movements	96					8	-	-	-	-	-	-	-	-	-	-	-
DAR-15	Tunnelling support activities	96					8	-	-	-	-	-	-	-	-	-	-	-
DAR-16	Site rehabilitation and Landscape	12					8	-	-	-	-	-	-	-	-	-	-	-
DAR-17	Cumulative tunnelling Works - day	96					8	-	-	-	-	-	-	-	-	-	-	-
DAR-18	Cumulative tunnelling works – night	96					8	-	-	-	-	-	-	-	-	-	-	-

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Construction Noise Predictions

Activity Duration and Impact Summary – NCA09

Activity ID	Activity	Weeks ¹	Activity duration within overall project program ²				Number of receivers																	
							Total	Highly noise affected ⁴	NML exceedance receiver count ³															
			25	50	75	100			Daytime			Daytime (out of hours)			Evening			Night-time			Sleep disturbance			
								1-10 dBA	11-20 dBA	>20 dBA		1-10 dBA	11-20 dBA	>20 dBA		1-10 dBA	11-20 dBA	>20 dBA		1-10 dBA	11-20 dBA	>20 dBA		
DAR-01	Demolition of existing buildings	4					153	1		63	5	-	-	-	-	-	-	-	-	-	-	-	-	
DAR-02	Site clearing	2					153	-		17	-	-	-	-	-	-	-	-	-	-	-	-	-	
DAR-03	Utility adjustments	2					153	-		54	3	-	-	-	-	-	-	-	-	-	-	-	-	
DAR-04	Installation of environmental controls	1					153	-		4	-	-	-	-	-	-	-	-	-	-	-	-	-	
DAR-05	Pavement and infrastructure works	2					153	10		60	19	2	84	32	4	75	40	10	28	84	29	81	28	
DAR-06	Line marking works and road adjustments	2					153	4		41	12	-	83	21	2	84	25	4	44	72	19	64	21	
DAR-07	Construct new signalised intersection	3					153	-		16	1	-	25	4	-	26	8	-	78	20	4	50	15	4
DAR-08	Place barriers to new queuing area	1					153	-		-	-	-	-	-	-	-	-	-	28	-	-	16	-	
DAR-09	Establishment of construction facilities	4					153	-		28	-	-	-	-	-	-	-	-	-	-	-	-	-	
DAR-10	Onsite car parking	204					153	-		-	-	-	-	-	-	-	-	-	-	-	1	-	-	
DAR-11	Workshop, deliveries, maintenance, and storage	204					153	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DAR-12	Construction of tunnel shaft and declines (outside acoustic shed)	36					153	-		15	-	-	-	-	-	-	-	-	-	-	-	-	-	
DAR-13	Spoil handling inside acoustic shed	96					153	-		1	-	-	9	-	-	18	-	-	77	5	-	14	-	
DAR-14	On site truck movements	96					153	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DAR-15	Tunnelling support activities	96					153	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DAR-16	Site rehabilitation and Landscape	12					153	-		2	-	-	-	-	-	-	-	-	-	-	-	-	-	
DAR-17	Cumulative tunnelling Works - day	96					153	-		3	-	-	-	-	-	-	-	-	-	-	-	-	-	
DAR-18	Cumulative tunnelling works – night	96					153	-		1	-	-	10	-	-	19	-	-	77	5	-	15	-	

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Construction Noise Predictions

Activity Duration and Impact Summary – NCA10

Activity ID	Activity	Weeks ¹	Activity duration within overall project program ²	Number of receivers												
				Total	Highly noise affected ⁴	NML exceedance receiver count ³										
						Daytime			Daytime (out of hours)			Evening		Night-time		Sleep disturbance
				1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	
DAR-01	Demolition of existing buildings	4														
DAR-02	Site clearing	2														
DAR-03	Utility adjustments	2														
DAR-04	Installation of environmental controls	1														
DAR-05	Pavement and infrastructure works	2														
DAR-06	Line marking works and road adjustments	2														
DAR-07	Construct new signalised intersection	3														
DAR-08	Place barriers to new queuing area	1														
DAR-09	Establishment of construction facilities	4														
DAR-10	Onsite car parking	204														
DAR-11	Workshop, deliveries, maintenance, and storage	204														
DAR-12	Construction of tunnel shaft and declines (outside acoustic shed)	36														
DAR-13	Spoil handling inside acoustic shed	96														
DAR-14	On site truck movements	96														
DAR-15	Tunnelling support activities	96														
DAR-16	Site rehabilitation and Landscape	12														
DAR-17	Cumulative tunnelling Works - day	96														
DAR-18	Cumulative tunnelling works – night	96														

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Construction Noise Predictions

Activity Duration and Impact Summary – NCA11

Activity ID	Activity	Weeks ¹	Activity duration within overall project program ²				Number of receivers																
							Total	Highly noise affected ⁴	NML exceedance receiver count ³														
			25	50	75	100			Daytime			Daytime (out of hours)			Evening			Night-time			Sleep disturbance		
								1-10 dBA	11-20 dBA	>20 dBA		1-10 dBA	11-20 dBA	>20 dBA		1-10 dBA	11-20 dBA	>20 dBA		1-10 dBA	11-20 dBA	>20 dBA	
DAR-01	Demolition of existing buildings	4						244	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
DAR-02	Site clearing	2						244	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DAR-03	Utility adjustments	2						244	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DAR-04	Installation of environmental controls	1						244	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DAR-05	Pavement and infrastructure works	2						244	-	3	-	-	22	-	42	3	-	90	17	-	90	13	-
DAR-06	Line marking works and road adjustments	2						244	-	3	-	-	11	-	17	-	-	75	5	-	72	4	-
DAR-07	Construct new signalised intersection	3						244	-	-	-	-	-	-	2	-	-	14	-	-	3	-	-
DAR-08	Place barriers to new queuing area	1						244	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DAR-09	Establishment of construction facilities	4						244	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DAR-10	Onsite car parking	204						244	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DAR-11	Workshop, deliveries, maintenance, and storage	204						244	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DAR-12	Construction of tunnel shaft and declines (outside acoustic shed)	36						244	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DAR-13	Spoil handling inside acoustic shed	96						244	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-
DAR-14	On site truck movements	96						244	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DAR-15	Tunnelling support activities	96						244	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DAR-16	Site rehabilitation and Landscape	12						244	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DAR-17	Cumulative tunnelling Works - day	96						244	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DAR-18	Cumulative tunnelling works – night	96						244	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-

Annexure F-2

Report 610.16185

Construction Noise Predictions

Activity Duration and Impact Summary – NCA12

Activity ID	Activity	Weeks ¹	Activity duration within overall project program ²	Number of receivers										Sleep disturbance					
				Total	Highly noise affected ⁴	NML exceedance receiver count ³													
						Daytime			Daytime (out of hours)			Evening			Night-time				
				25	50	75	100	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA
DAR-01	Demolition of existing buildings	4						67	-	-	-	-	-	-	-	-	-	-	-
DAR-02	Site clearing	2						67	-	-	-	-	-	-	-	-	-	-	-
DAR-03	Utility adjustments	2						67	-	-	-	-	-	-	-	-	-	-	-
DAR-04	Installation of environmental controls	1						67	-	-	-	-	-	-	-	-	-	-	-
DAR-05	Pavement and infrastructure works	2						67	-	-	4	-	-	17	-	-	53	4	-
DAR-06	Line marking works and road adjustments	2						67	-	-	-	-	-	4	-	-	40	-	-
DAR-07	Construct new signalised intersection	3						67	-	-	-	-	-	-	-	4	-	-	-
DAR-08	Place barriers to new queuing area	1						67	-	-	-	-	-	-	-	-	-	-	-
DAR-09	Establishment of construction facilities	4						67	-	-	-	-	-	-	-	-	-	-	-
DAR-10	Onsite car parking	204						67	-	-	-	-	-	-	-	-	-	-	-
DAR-11	Workshop, deliveries, maintenance, and storage	204						67	-	-	-	-	-	-	-	-	-	-	-
DAR-12	Construction of tunnel shaft and declines (outside acoustic shed)	36						67	-	-	-	-	-	-	-	-	-	-	-
DAR-13	Spoil handling inside acoustic shed	96						67	-	-	-	-	-	-	-	1	-	-	-
DAR-14	On site truck movements	96						67	-	-	-	-	-	-	-	-	-	-	-
DAR-15	Tunnelling support activities	96						67	-	-	-	-	-	-	-	-	-	-	-
DAR-16	Site rehabilitation and Landscape	12						67	-	-	-	-	-	-	-	-	-	-	-
DAR-17	Cumulative tunnelling Works - day	96						67	-	-	-	-	-	-	-	-	-	-	-
DAR-18	Cumulative tunnelling works – night	96						67	-	-	-	-	-	-	1	-	-	-	-

Annexure F-2

Report 610.16185

Construction Noise Predictions

Activity Duration and Impact Summary – NCA14

Activity ID	Activity	Weeks ¹	Activity duration within overall project program ²	Number of receivers												Sleep disturbance																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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Annexure F-3

Construction noise predictions – Rozelle

Construction Noise Predictions

F3 – Rozelle

Note 1: Approximate overall duration of the activity in all areas of the Site. The duration of these impacts is less than the overall duration, and depends on the rate of progress in the works areas.

Note 2: Approximate percentage of activity duration within overall proposal program.

Note 3: Based on worst case noise works area (closest to receivers).

Note 4: Based on ICNG definition (ie predicted LAeq(15minute) noise at residential receiver is 75 dBA or greater).

Construction Noise Predictions

Activity Duration and Impact Summary – NCA15

Activity ID	Activity	Weeks ¹	Activity duration within overall project program ²	Number of receivers														
				Total	Highly noise affected ⁴	NML exceedance receiver count ³												
						Daytime			Daytime (out of hours)			Evening			Night-time			Sleep disturbance
			25	50	75	100	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA	1-10 dBA	11-20 dBA	>20 dBA
Rozelle Civil and tunnel site (C5)																		
ROZ-01	Demolition of existing Structures	8					575	-	-	-	-	-	-	-	-	-	-	-
ROZ-02	Site clearing	4					575	-	11	-	-	-	-	-	-	-	-	-
ROZ-03	Installation of environmental controls	4					575	-	-	-	-	-	-	-	-	-	-	-
ROZ-04	Utility adjustments	64					575	-	47	-	-	-	-	-	-	-	-	-
ROZ-05	Establishment of construction facilities	16					575	-	17	-	-	-	-	-	-	-	-	-
ROZ-06	Site drainage	16					575	-	26	-	-	-	-	-	-	-	-	-
ROZ-07	Pavement modifications	36					575	-	5	-	46	-	82	-	314	29	359	84 1
ROZ-08	Pavement and infrastructure works	36					575	-	-	-	15	-	29	-	205	10	33	-
ROZ-09	Onsite car parking	120					575	-	-	-	-	-	-	-	-	-	-	-
ROZ-10	Workshop, deliveries, Laydown Areas	120					575	-	-	-	-	-	-	-	23	-	-	-
ROZ-11	Tunnel Shafts and Declines	52					575	-	-	-	-	-	-	-	-	-	-	-
ROZ-12	Truck onsite truck movements	120					575	-	-	-	-	-	-	-	-	-	-	-
ROZ-13	Spoil handling Above Ground Within Acoustic Shed Rozelle – New M5 to CWL	120					575	-	-	-	-	-	-	-	26	-	-	-
ROZ-14	Spoil handling Above Ground Within Acoustic Shed Rozelle AB to M4-M5 Link	120					575	-	-	-	-	-	-	-	-	-	-	-
ROZ-15	Spoil handling above ground within acoustic shed Rozelle Western Harbour Tunnel	120					575	-	-	-	-	-	-	-	13	-	-	-
ROZ-16	Tunnelling Supporting activities	120					575	-	-	-	-	-	-	-	-	-	2	-
ROZ-17	Ventilation building installation	84					575	-	17	-	-	-	-	-	-	-	-	-
ROZ-18	Ventilation building installation and Tunnel - Concrete Works	84					575	-	-	-	-	-	-	-	-	-	-	-