

Appendix E

Report 10-5050R3

Attended Noise Measurements

Cover Page

[illegible]

LAE	89
LAE 1Hr	60
LAE 9Hr	56
LAE 15Hr	60
LAE 24Hr	59

[illegible]

LAE	89
LAE 1Hr	60
LAE 9Hr	56
LAE 15Hr	60
LAE 24Hr	59

Time of Day		Train Type	Passy Time	Speed (km/h)	Direction	1/3 Octave Frequency Band (Hz) - LMA Fast Response Noise Level (dB)																																						
Day	Train	Cars				12.5	16	20	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	12500	16000	20000	Overall	Overall A	LAE			
9:42:03	Suburban	8	7:16	80	Down	77	73	76	77	80	79	78	75	76	75	77	80	79	83	80	81	78	81	82	80	77	75	75	74	72	78	70	68	67	68	70	73	74	93	87	94			
9:51:54	Suburban	8	7:16	80	Up	77	73	76	77	80	79	78	75	76	75	77	80	79	83	80	81	78	81	82	80	77	75	75	74	72	78	70	68	67	68	70	73	74	93	87	94			
9:13:10	Tangara	8	7:16	80	Down	68	68	68	70	77	81	81	72	72	71	75	77	81	79	73	77	77	73	75	75	74	72	67	71	67	65	63	61	62	61	58	57	55	90	81	88			
9:22:46	Tangara	8	6:57	83	Up	67	66	71	74	79	82	76	75	72	74	75	81	82	79	76	76	73	85	80	77	72	68	73	69	67	65	63	61	61	58	56	51	92	86	90				
9:47:05	Tangara	8	7:44	77	Up	77	77	76	77	74	76	75	72	74	75	78	81	82	79	76	76	73	85	80	77	72	68	73	69	67	65	63	61	61	58	56	51	92	86	90				
10:01:05	Suburban	8	8:12	71	Up	70	70	72	70	80	84	79	77	72	71	73	75	77	77	80	72	77	78	75	73	71	71	72	70	70	70	70	66	65	65	60	70	74	90	83	90			
10:16:02	Suburban	8	7:16	80	Down	77	77	77	77	77	79	77	78	75	74	76	75	81	82	80	81	77	80	81	78	76	76	73	74	73	71	70	69	69	69	70	72	77	77	76	92	86	91	
10:26:24	Tangara	8	7:28	79	Up	75	72	73	77	78	81	73	71	69	73	75	76	76	75	80	77	73	79	79	79	78	76	73	67	73	68	68	66	65	64	62	60	57	52	90	83	89		
10:46:58	Suburban	8	7:16	80	Down	78	78	78	78	78	78	78	78	78	78	78	82	82	82	82	77	73	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	
10:56:47	Suburban	8	8:19	70	Up	72	70	72	71	78	82	80	73	73	76	78	79	78	75	79	74	74	82	77	77	73	73	70	72	73	73	73	71	70	71	62	62	62	73	73	71	91	85	91
11:21:01	Tangara	8	6:55	87	Down	72	67	72	75	75	79	77	76	75	74	77	76	80	75	77	76	80	75	78	78	75	70	69	67	66	64	61	62	62	63	62	59	55	90	84	90			
11:29:50	Suburban	8	7:16	80	Up</																																							

LAE	91
LAE 1Hr	61
LAE 9Hr	58
LAE 15Hr	61
LAE 24Hr	60

[illegible]

Time of Day	Train Type	Passay	Speed (km/h)	Direction	1/3 Octave Frequency Band (Hz) - LMax Fast Response Noise Level (dB)																																Overall	Overall A	LAE			
					12.5	16	20	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	12500	16000				20000		
12:51:36	Suburban	4	540	53	Down	65	65	67	67	66	66	69	64	63	64	62	64	65	67	67	69	68	71	73	73	69	68	68	66	68	69	61	62	56	56	56	59	59	56	52	79	85
12:56:19	Suburban	4	540	54	Up	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	81
13:15:11	Suburban	6	580	74	Up	66	64	68	67	66	66	68	64	66	64	63	63	65	68	66	66	72	74	74	68	66	70	67	67	61	61	60	55	52	49	49	44	82	70	85	81	
13:26:33	Suburban	6	520	83	Down	61	64	64	64	63	64	68	65	63	64	64	63	65	64	66	65	64	68	67	68	63	60	61	61	63	60	57	55	52	50	46	40	33	79	74	81	
13:47:34	Tangara	8	720	80	Up	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	86	
13:59:17	Suburban	8	700	82	Down	64	64	69	63	66	68	70	65	63	66	68	67	70	70	67	70	71	71	72	74	68	63	69	68	67	68	62	58	55	54	50	46	40	83	79	86	
14:15:23	Suburban	8	780	74	Up	71	70	67	66	65	66	69	65	64	66	66	66	68	69	71	69	67	71	69	68	68	66	64	65	66	64	61	58	55	52	47	43	39	82	77	85	
14:29:24	Suburban	8	700	82	Down	69	67	67	63	67	70	68	70	64	66	66	66	66	68	69	70	71	68	72	72	72	69	67	68	68	67	66	65	67	64	64	67	63	61	83	79	86
14:40:50	Suburban	8	840	88	Up	74	74	72	74	72	74	74	72	74	74	72	74	74	72	74	74	72	74	74	72	74	74	72	74	74	72	74	74	72	74	74	72	74	74	72	84	
15:00:52	Tangara	8	660	87	Down	74	72	70	74	69	74	74	66	66	69	65	63	65	64	68	71	66	70	71	67	65	62	61	60	60	58	56	54	53	49	44	35	83	75	83		
15:15:20	Tangara	8	640	90	Down	81	76	74	70	69	71	71	75	70	75	71	68	66	68	69	72	69	70	75	69	69	64	63	61	62	60	59	58	55	54	51	46	38	86	78	84	
15:29:45	Suburban	8	740	74	Up	66	66	74	67	74	67	74	66	66	70	75	68	66	68	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	82	
15:43:13	Tangara	8	620	93	Down																																					

[illegible][illegible]

N7 - Attended Noise Measurements, 4 Sydney Street Riverstone, 9 February 2007

Time of Day	Train Type	Cars	Passby Time	Speed (km/h)	Direction	1/3 Octave Frequency Band (Hz) - LMax Fast Response Noise Level (dB)																						Overall	Overall A	LAE													
						12.5	16	20	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	12500	16000	20000					
0:00:00	Tangara	8	13:09	44	Up	72	68	67	68	67	67	74	72	68	73	72	73	70	75	77	70	74	72	73	74	70	70	69	68	64	61	59	57	54	52	50	48	45	46	0	0		
0:00:00	Suburban	8	9:09	59	Up	65	63	63	66	65	68	73	71	66	72	67	64	62	68	69	66	70	71	68	68	67	65	63	65	60	57	57	55	57	57	56	49	53	0	0			
0:00:00	Tangara	8	8:07	64	Down	59	60	61	65	64	63	74	69	65	71	67	68	67	68	72	71	75	74	70	71	70	67	67	62	59	56	52	50	48	44	---	---	---	83	0	0		
0:00:00	Tangara	8	8:25	70	Up	62	60	67	70	69	74	77	74	81	72	71	70	63	68	70	69	70	78	70	69	69	66	62	59	58	56	54	54	54	53	55	54	51	46	0	0		
0:00:00	Suburban	8	7:53	76	Down	59	62	60	60	61	66	68	73	72	65	67	63	60	67	67	68	73	66	66	67	66	55	61	62	59	57	54	49	46	45	47	---	---	81	0	0		
0:00:00	Tangara	8	8:57	67	Up	64	62	62	67	66	69	67	69	71	67	68	67	69	67	69	69	74	79	67	67	66	64	63	59	67	56	54	53	51	49	47	47	47	83	0	0		
0:00:00	Suburban	8	9:75	59	Down	61	61	60	62	64	70	71	68	63	66	65	64	60	66	67	66	75	66	84	64	62	62	63	63	63	62	59	56	51	47	46	43	39	30	80	0	0	
0:00:00	Suburban	6	7:57	57	Up	66	64	63	67	64	64	71	74	67	65	72	67	73	68	71	68	75	70	71	71	68	67	64	62	59	58	55	52	51	45	42	46	42	87	0	0		
0:00:00	Tangara	8	8:34	69	Down	68	68	63	63	64	69	71	68	76	67	62	62	63	66	67	74	77	65	65	65	63	61	60	58	55	51	48	47	48	42	35	---	---	83	0	0		
0:00:00	Suburban	8	8:56	67	Up	68	70	65	66	68	70	71	86	79	75	86	72	79	70	73	71	72	79	72	74	72	70	69	67	64	64	65	58	57	55	54	51	44	91	0	0		
0:00:00	Tangara	8	9:54	60	Down	63	62	60	64	64	71	75	71	69	74	73	66	60	63	68	66	74	72	62	62	63	60	60	58	58	57	55	51	48	45	45	41	32	---	---	83	0	0
0:00:00	Tangara	8	10:34	53	Up	59	58	61	67	65	66	72	76	70	60	60	67	63	67	68	70	76	68	68	71	70	68	65	62	58	55	52	51	46	41	39	31	---	---	83	0	0	
0:00:00	Suburban	6	8:53	66	Down	59	62	61	62	62	62	67	72	62	61	62	62	60	58	75	68	74	74	63	65	66	71	63	63	61	57	53	50	46	45	39	33	---	---	82	0	0	
0:00:00	Tangara	8	10:00	58	Up	62	60	61	64	64	63	68	72	66	76	64	63	67	64	68	67	74	76	67	70	70	68	67	64	59	56	61	61	61	59	55	54	53	50	83	0	0	
0:00:00	Tangara	8	8:53	66	Down	58	62	63	65	68	71	76	75	68	72	71	68	68	69	70	70	74	76	67	68	64	64	62	60	57	55	53	50	47	44	41	32	---	---	85	0	0	
10:52:08	Suburban	6	9:50	45	Up	70	66	69	66	71	71	74	74	73	72	70	75	70	66	70	74	75	69	69	69	69	69	69	66	64	60	60	58	56	54	52	49	46	42	85	77	84	
10:55:59	Tangara	8	9:20	63	Down	64	65	61	63	64	66	71	75	69	73	65	65	66	63	64	69	74	73	64	61	63	59	60	62	61	57	55	50	49	49	44	38	32	82	75	82		
11:20:08	Suburban	8	13:00	44	Up	62	62	63	67	66	64	66	75	63	77	67	67	70	68	72	78	72	67	65	63	61	63	62	60	58	56	55	58	53	53	53	52	48	67	77	84		
11:24:27	Tangara	8	9:22	62	Down	57	58	59	64	65	64	66	69	68	72	66	68	68	63	63	66	74	73	66	65	63	65	61	61	58	55	53	51	50	48	44	41	37	81	74	82		
11:48:17	Tangara	8	11:50	50	Up	65	62	61	63	64	64	71	74	77	74	68	72	67	69	69	69	73	76	69	70	69	69	66	65	63	62	62	62	67	62	61	60	59	54	85	78	85	
Average						63	63	63	65	65	67	71	73	76	72	69	67	66	67	69	69	74	73	67	68	67	68	65	62	60	58	58	58	53	51	49	47	44	44	84	19	78	
90th Percentile						70	70	68	67	68	69	71	76	77	81	78	74	73	79	78	74	73	76	72	74	71	79	69	67	64	62	61	61	59	57	56	52	87	77	84			
Maximum						76	72	70	69	70	71	74	77	86	83	85	86	75	79	75	77	74	78	79	73	74	72	71	69	68	64	65	62	67	62	61	60	59	54	91	78		

LAE
LAE 1hr 77
LAE 9hr 48
LAE 15hr 44
LAE 15hr 47
LAE 24hr 46

N8 - Attended Noise Measurements, 153 Bridge Street, Schofields, 14 March 2007

Time of Day	Train Type	Cars	Passby Time	Speed (km/h)	Direction	1/3 Octave Frequency Band (Hz) - LMax Fast Response Noise Level (dB)																																Overall	Overall A	LAE			
						12.5	16	20	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	12500	16000				20000		
11:26:24	Suburban	8	9:40	61	Up	62	61	60	69	72	75	74	71	70	68	66	63	61	64	66	66	70	67	63	63	59	58	57	58	59	56	60	62	58	57	50	82	72	80				
11:47:50	Tangara	8	7:20	74	Down	63	59	63	71	76	80	81	75	69	66	64	62	61	62	63	65	66	70	63	62	58	58	55	57	56	57	58	59	58	58	56	51	86	72	78			
11:56:32	Tangara	8	9:02	64	Up	67	69	61	69	77	79	75	70	74	66	64	61	67	68	61	63	65	67	60	60	60	58	53	53	53	52	51	49	47	45	46	42	38	—	84	69	76	
12:26:11	Tangara	8	9:22	62	Up	57	59	61	69	77	80	75	75	70	67	65	63	60	61	61	64	66	65	60	60	56	53	53	52	52	52	54	54	59	61	62	50	50	49	49	84	70	77
12:34:25	Tangara	8	8:25	68	Down	62	62	66	72	75	82	83	74	69	71	65	63	64	63	64	67	67	70	64	63	59	57	58	56	56	56	57	55	52	50	50	50	50	50	51	67	72	79
12:50:51	Suburban	6	6:50	66	Down	63	65	66	74	79	80	74	74	71	68	67	63	60	62	67	66	66	66	62	64	58	57	56	56	54	54	52	51	50	50	49	49	44	38	83	71	78	
12:59:53	Tangara	8	8:18	70	Up	58	58	61	69	77	80	75	74	74	70	64	62	65	60	62	63	65	65	59	60	56	56	53	53	53	52	51	47	44	44	40	38	36	84	68	76		
13:16:53	Suburban	6	7:50	58	Up	67	64	63	68	73	76	72	72	68	70	64	64	57	62	64	64	70	65	63	63	60	57	56	56	57	54	54	52	51	49	48	45	41	34	82	70	78	
13:25:26	Tangara	8	8:02	69	Down	62	62	60	67	72	75	74	69	66	66	65	65	59	60	65	65	67	66	63	63	57	55	56	57	54	54	52	51	49	47	46	41	37	81	70	77		
13:49:03	Tangara	8	8:59	67	Up	57	59	68	77	80	75	74	69	65	66	63	59	60	62	64	66	66	66	63	62	63	62	61	60	60	59	57	55	59	56	56	57	47	84	72	75		
13:52:29	Tangara	8	8:10	71	Down	60	60	65	72	79	83	83	77	72	74	73	67	67	65	66	68	68	71	63	64	60	58	57	58	58	58	57	55	53	54	50	48	46	88	73	79		
14:04:41	Tangara	8	8:50	68	Up	58	61	63	69	79	80	78	74	74	73	72	69	65	66	65	72	70	64	63	60	57	57	56	54	54	54	53	50	49	46	41	38	87	74	79			
14:23:18	Suburban	8	9:50	61	Down	63	65	66	71	75	78	77	73	71	72	69	66	64	67	66	71	71	61	67	68	64	61	62	61	59	58	56	53	51	49	47	43	36	85	75	81		
14:49:37	Suburban	6	7:36	59	Up	63	65	63	67	72	76	72	69	69	66	66	64	58	58	57	65	68	71	64	63	59	56	58	60	58	57	55	54	52	48	45	44	37	82	73	77		
15:00:00	Tangara	7	8:02	63	Down	61	62	65	73	78	81	75	75	70	67	65	62	63	62	65	67	68	68	64	64	61	58	58	58	57	57	55	53	50	49	47	43	37	80	73	79		
15:12:07	Tangara	8	9:00	64	Down	58	59	62	72	74	80	79	75	68	68	65	62	63	61	63	65	65	63	60	61	55	58	54	55	52	53	51	51	51	51	49	47	42	84	68	76		
15:22:08	Tangara	8	7:80	74	Up	58	59	62	68	77	80	75	75	71	69	66	63	63	59	63	64	66	70	63	61	57	57	55	55	54	52	50	49	47	46	49	41	84	71	77			
Average						66	67	68	73	76	79	77	73	70	69	66	64	62	62	64	65	67	68	63	62	59	57	57	57	55	56	54	53	53	51	49	46	42	84	71			
95th Percentile						74	74	74	78	82	86	82	79	74	74	71	68	68	68	67	72	74	74	71	68	63	61	57	56	56	54	51	51	51	49	46	39	81	81	81			
Maximum						67	65	67	73	79	83	83	78	74	73	73	72	69	68	67	71	71	72	71	68	68	64	62	62	61	60	64	60	61	62	62	58	57	51	88	75		