

Annex C

## Details of Baseline Noise Survey

The survey is described in the main PEIR document, and the detailed noise results are shown below in *Table C1.1*. Although measurements were recorded during the day at the logger location, these have not been included because the night is the focus of this assessment as it is likely to be the most critical time period.

Noise levels were recorded continuously at NML3 in order to establish the variation in noise from the main source (the M6) over time. In order to estimate the noise levels at other receptors where noise sampling was carried out, the differences between the noise level at the logger and the sample location during the same 15 minute time period, or as close to that as was possible, were estimated. For each site, this factor was then applied to the mean night-time noise level that was calculated at NML 3 to establish baseline levels at sample locations.



**Table C1.1 Noise Survey Measurements (Night) dB Free-field**

Start Time	Noise Levels at Logger Location NML 3				Sample Location NML	Noise Levels at Sample Locations				Difference Between logger and sample (dB)	Average Difference between Logger and Noise Sample NMLs (in dB)
	LAeq	LA10	LA90	LAmx		LAeq	LA10	LA90	LAmx		
14/08/2014 23:03	31.5	33.5	29.3	39.9							
14/08/2014 23:18	43.7	37.1	28.9	62							
14/08/2014 23:33	40.8	31	28.6	62.8							
14/08/2014 23:48	44.4	42.8	28.5	63.5							
15/08/2014 00:03	29.1	30	28.1	41.7							
15/08/2014 00:18	30.7	31.8	29.2	45.7							
15/08/2014 00:33	36.1	38.1	30.6	50.7							
15/08/2014 00:48	33.4	35.3	31.5	39.6							
15/08/2014 01:03	33.7	35.7	31.4	44.3							
15/08/2014 01:18	30.7	31.9	29.4	38.3	2	33.9	36.5	31	50.3	-1.6	-1
15/08/2014 01:33	33.2	33.8	29.9	48.2	2	39	34.5	30	65.6	-0.1	
15/08/2014 01:48	32.7	33.9	30.3	43.5	1	37.5	39	35.5	47.7	-5.2	-5
15/08/2014 02:03	34.1	35.7	32.6	39.8	1	38.9	40	37	47	-4.4	
15/08/2014 02:18	37.5	40.6	34.6	43.5							
15/08/2014 02:33	40.2	41.9	37.9	46	5	39.4	41.5	36	49	1.9	2
15/08/2014 02:48	38.2	40.1	36.2	42.4							
15/08/2014 03:03	38.6	40.4	36.6	52.3							
15/08/2014 03:18	35.6	37.6	33.2	40.1	4	39.7	41	37	50.6	-3.8	-3
15/08/2014 03:33	33.7	35.8	31.5	39.6	4	37.1	39	34	48.2	-2.5	
15/08/2014 03:48	30.2	32.8	26.6	45.1							
15/08/2014 04:03	32.6	33.2	27.2	53.1							
15/08/2014 04:18	30.7	32.2	28.6	43.8							
15/08/2014 04:33	30.3	32.8	27.6	39.9							
15/08/2014 04:48	34.4	38.7	27.6	48.6							
15/08/2014 05:03	32.5	34.1	29.5	48.7							
15/08/2014 05:18	36.6	39.6	30.9	53.1							
15/08/2014 05:33	47.3	48.3	32.5	64.9							
15/08/2014 05:48	40.6	43.6	34.7	54.8							
15/08/2014 06:03	44	42.3	33.8	61.9							
15/08/2014 06:18	51	56.6	36.2	65.1							
15/08/2014 06:33	50.4	54.6	36.1	66.2							
15/08/2014 06:48	51	55.2	38.1	65.8							

