

Appendix 3 – Detailed Site Notes

Location 1: 46 Wallace Gardens, Causewayhead

The measurement position was located 1m from the southern facing façade, within the rear garden area of the property. This position in turn was approximately 24m from edge of the railway line as shown in Figure A.1. The Rion NL-52/Brüel & Kjær 2250 sound level meter was secured within a weatherproof box with the microphone positioned 1.5m above the ground, see Photograph A.1. The noise monitoring equipment was calibrated both before and after each measurement period using an acoustic calibrator, which has itself been calibrated against a reference set traceable to National and International Standards. There was no shift greater than 0.2 dB in the observed calibration level. The sound level meter was secured at the property and left continuously logging throughout the measurement period.

The dominant noise at this location, excluding rail traffic movements, during the measurement period was continuous distant road traffic noise from the A907, occasional road traffic noise from Causewayhead Road, birdsong and people in the garden areas of the surrounding properties.

The Brüel & Kjær 2250/2260 sound level meter was secured to a tripod with the microphone 1.5m above the ground, adjacent to the Rion NL-52/Brüel & Kjær 2250 sound level meter. The monitoring equipment was calibrated both before and after the measurement period using an acoustic calibrator, which has itself been calibrated against a reference set traceable to National and International Standards. There was no shift in the observed calibration level greater than 0.2 dB. Fifteen minute snapshot noise level measurements were undertaken with the Brüel & Kjær 2250 throughout the measurement procedure and are shown in Table A.1.

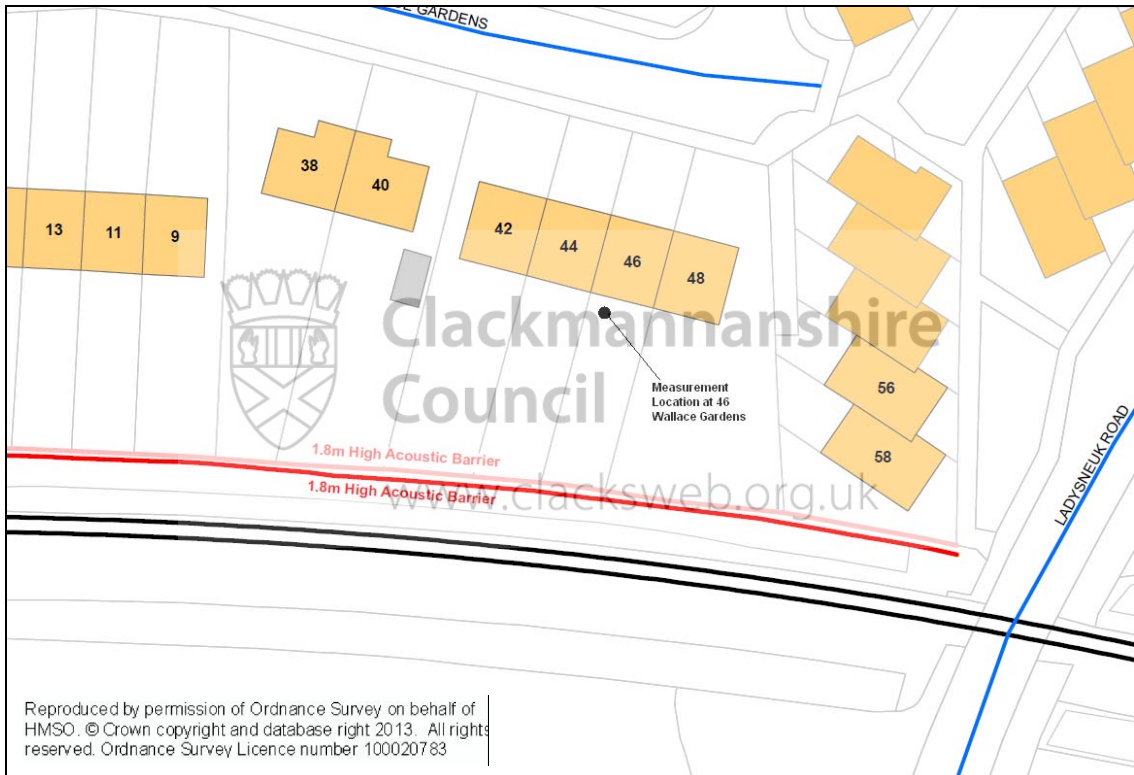
Table A.1: Measured Results– 46 Wallace Gardens, Causewayhead

Period	Date	Start Time (hh:mm)	Duration (hh:mm)	Noise Level (dB)			Weather		Comments
				L _{Aeq,T}	L _{A90}	L _{A10}	Wind Speed (m/s) & Direction	Conditions	
May Monitoring Period									
Brüel & Kjær 2250									
	23/05/12	08:50	00:15	57.0	37.8	47.8	Light Breeze	Clear & Dry	24C EWS Eastbound 2C Passenger Eastbound
	23/05/12	17:52	00:15	45.3	40.5	47.0	Easterly ^1.8m/s ≈0.8m/s	Clear & Dry	
	24/05/12	13:26	00:15	42.9	64.1	44.9	Light Breeze	Clear & Dry	
August Monitoring Period									
Brüel & Kjær 2260									
	01/08/12	15:57	00:15	58.4	44.5	50.6	Light Breeze	Overcast Ground Slightly Damp	24C EWS Westbound 2C Passenger Eastbound
	02/08/12	14:37	00:15	50.1	40.1	52.1	Calm	Slightly Overcast	2C Passenger Westbound
	03/08/12	14:24	00:15	42.7	36.6	44.1	Calm	Overcast	

Photograph A.1: Measurement Location at 46 Wallace Gardens



Figure 1.A: Measurement Location at 46 Wallace Gardens



Location 2: 56 Alloa Road, Causewayhead Road

The measurement position was located 1m from the southern facing façade, within the rear garden area of the property. This position in turn was approximately 14m from edge of the railway line as shown in Figure A.2. The Rion NL-52/Brüel & Kjær 2250 sound level meter was secured within a weatherproof box with the microphone positioned 1.5m above the ground, see Photograph A.2. The noise monitoring equipment was calibrated both before and after each measurement period using an acoustic calibrator, which has itself been calibrated against a reference set traceable to National and International Standards. There was no shift greater than 0.2 dB in the observed calibration level. The sound level meter was secured at the property and left continuously logging throughout the measurement period.

The dominant noise at this location, excluding rail traffic movements, was continuous road traffic noise from the A907, birdsong and occasional noise from people in the amenity areas of the flats

The Brüel & Kjær 2250/2260 sound level meter was secured to a tripod with the microphone 1.5m above the ground, adjacent to the Rion NL-52/Brüel & Kjær 2250 sound level meter. The monitoring equipment was calibrated both before and after the measurement period using an acoustic calibrator, which has itself been calibrated against a reference set traceable to National and International Standards. There was no shift greater than 0.2 dB in the observed calibration level. Fifteen minute snapshot noise level measurements were undertaken with the Brüel & Kjær 2250 throughout the measurement procedure and are shown in Table A.2.

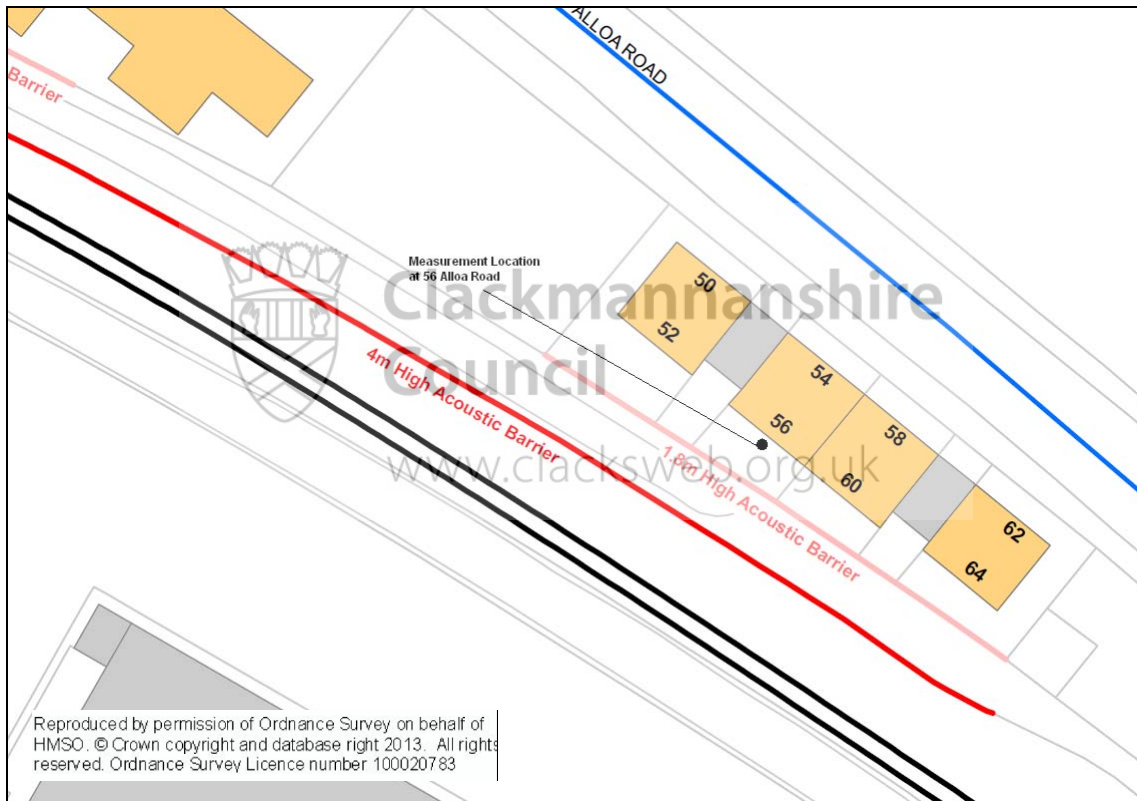
Table A.2: Measured Results – 56 Alloa Road, Causewayhead

Period	Date	Start Time (hh:mm)	Duration (hh:mm)	Noise Level (dB)			Weather		Comments
				L _{Aeq,T}	L _{A90}	L _{A10}	Wind Speed (m/s) & Direction	Conditions	
May Monitoring Period									
Brüel & Kjær 2250									
	23/05/12	10:00	00:15	57.1	39.4	57.5	Light Breeze	Clear & Dry	
	23/05/12	18:15	00:15	56.2	47.0	56.4	Light Breeze	Clear & Dry	23C EWS Freight Westbound
	24/05/12	13:49	00:15	56.1	45.7	56.0	Light Breeze	Clear & Dry	23C EWS Freight Westbound 2C Passenger Eastbound
August Monitoring Period									
Brüel & Kjær 2260									
	01/08/12	16:20	00:15	55.4	50.0	58.0	Light Breeze	Overcast Ground Slightly Damp	
	03/08/12	14:46	00:15	53.0	47.3	55.6	Light Breeze	Overcast Very light rain for 5mins at 15:55	

Photograph A.2: Measurement Location at 56 Alloa Road



Figure A.2: Measurement Location at 56 Alloa Road



Location 3: 37 Moubray Gardens, Cambus

The measurement position was located 1m from the northern facing façade, within the rear garden area of the property. This position in turn was approximately 29m from edge of the railway line as shown in Figure A.3. The Rion NL-52/Brüel & Kjær 2250 sound level meter was secured within a weatherproof box with the microphone positioned 1.5m above the ground, see Photograph A.3. The noise monitoring equipment was calibrated both before and after each measurement period using an acoustic calibrator, which has itself been calibrated against a reference set traceable to National and International Standards. There was no shift greater than 0.2 dB in the observed calibration level. The sound level meter was secured at the property and left continuously logging throughout the measurement period.

The dominant noise at this location, excluding rail traffic movements, was distant road traffic noise from the A907 and surrounding local roads, birdsong and occasional noise from people in the garden areas of the surrounding properties.

The Brüel & Kjær 2250/2260 sound level meter was secured to a tripod with the microphone 1.5m above the ground, adjacent to the Rion NL-52/Brüel & Kjær 2250 sound level meter. The monitoring equipment was calibrated both before and after the measurement period using an acoustic calibrator, which has itself been calibrated against a reference set traceable to National and International Standards. There was no shift greater than 0.2 dB in the observed calibration level. Fifteen minute snapshot noise level measurements were undertaken with the Brüel & Kjær 2250 throughout the measurement procedure and are shown in Table A.3.

Table A.3: Measured Results – 37 Moubray Gardens, Cambus

Period	Date	Start Time (hh:mm)	Duration (hh:mm)	Noise Level (dB)			Weather		Comments
				L _{Aeq,T}	L _{A90}	L _{A10}	Wind Speed (m/s) & Direction	Conditions	
May Monitoring Period									
Brüel & Kjær 2250									
	23/05/12	10:29	00:15	55.5	38.6	59.9	Light Breeze	Clear & Dry	3C Passenger Westbound
	23/05/12	18:44	00:15	50.3	43.1	51.9	Light Breeze	Clear & Dry	5C Passenger Westbound
	24/05/12	12:31	00:15	46.9	38.0	46.3	Calm	Clear & Dry	2C Passenger Westbound
	24/05/12	18:09	00:15	47.8	42.5	50.0	E ^2.0m/s ≈0.8m/s	Clear & Dry	
August Monitoring Period									
Brüel & Kjær 2260									
	01/08/12	16:52	00:15	49.5	46.1	51.7	Light Breeze	Overcast Ground slightly damp	
	02/08/12	12:35	00:15	46.9	39.3	46.9	Calm	Slightly Overcast	2C Passenger Westbound
	03/08/12	15:40	00:15	49.1	43.5	48.2	Light Breeze	Overcast	2C Passenger Westbound

Photograph A.3: Measurement Location at 37 Moubray Gardens



Figure A.3: Measurement Location at 37 Moubray Gardens

