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Acoustic Consultancy Report

Environmental Noise Survey Results

Local Authority Plant Noise Requirements and Fixed Plant Noise Impact Assessment

Accessorize Store, 235 Camden High Street

Client: Morris Mellett Ltd

Project: Accessorize Store
235 Camden High Street
London
NW1 7BU

Our Ref: 10790

Revision: A

Report By S. Fowler M.I.O.A.

Date: 27th October 2014

1.0 Introduction

ACP Ltd have been appointed by Morris Mellett Ltd to carry out environmental monitoring, determine a plant noise criteria and provide a noise impact assessment for the proposed plant at 235 Camden High Street, in line with standard noise requirements for the London Borough of Camden.

This report provides the results of our environmental noise survey and establishes the specific plant noise criteria, based on Camden Council's standard requirements, at the nearest affected noise sensitive properties.

The predicted plant noise levels for the proposed plant have been established based on the plant selection and noise data provided to us. A plant noise assessment has been included within this report detailing the resultant noise levels at the nearest affected noise sensitive properties.

The resultant plant noise levels have been compared to the required target noise levels in accordance with Camden Council's standard noise requirements.

2.0 Site Layout and Nearest Noise Sensitive Buildings

The proposed Accessorize Store would occupy the ground floor of 235 Camden High Street. The property is bordered on either side by three storey commercial properties.

The proposed plant would be located at the rear of the shop. The air conditioning condenser would be wall mounted at ground floor level and the ventilation unit would be installed internally with small intake and discharge ducts connected to openings in the rear wall.

During our site visit, the nearest potential residential property was identified at the rear of the property, within a multi storey building in Early Mews. We understand this property is used as a hostel and the nearest side windows on the corner of the Early Mews façade may be residential in nature. We have therefore used these windows as the worst case assessment position (at a distance of 11m to the plant and with full line of sight).

There also appears to be a possible residential property at top floor level, above the accessorize shop, but this is at a distance of 14.5m from the proposed plant location and fully shielded from the plant, and therefore less affected than the assessment position detailed above.



From the above, we have selected the following receptor position

RPA Worst case potential residential window within adjacent hostel, 11m from the proposed plant and with full line of sight.

3.0 Plant Information

The proposed plant is detailed below, which would operate during the day time only, between 08.00 to 21.00 hrs.

The ventilation heat recovery unit would be installed internally with a small intake and discharge duct opening in the rear wall at ground floor level.

The air conditioning condensing unit would be wall mounted, also located at the rear of the shop at ground floor level.

The two plant items are listed below.

Ventilation Heat Recovery Unit	Toshiba VN-M500E	34 dBA at 1m (max)
A/C Condensing Unit 1	Toshiba RAV SM1403AT-E	54 dBA at 1m (max)

4.0 Environmental Noise Monitoring Location

Extended, unmanned environmental noise monitoring was undertaken at the rear of 235 Camden High Street. The microphone was mounted on an extension pole, approximately 1.5m above ground floor roof level.

This monitoring location was considered typical of the more shielded rear façade of the surrounding properties and selected receptor position.

5.0 Monitoring Equipment

The noise monitoring equipment comprised a Svan 971 type 1 real time analyser, serial number 34936, with a weatherproof remote microphone protection system coupled to the meter located within a self contained environmental monitoring case.

The meter calibration was verified before and after the measurement period by a Svantek SV31 acoustic calibrator, serial number 22514. Any deviation was within an acceptable tolerance.

This meter and calibrator have current calibration certificates, available upon request.

6.0 Noise Monitoring Period and Survey Weather Conditions

The survey was carried out between 15.00 hours on Wednesday 8th October 2014 and 12:00 hours on Tuesday 14th October 2014.

The weather was acceptable for environmental monitoring, with good spells of dry conditions with light winds.

7.0 Noise Measurement Parameters

The survey established the prevailing L_{AFmax} , $L_{Aeq,T}$, $L_{A10,T}$, and $L_{A90,T}$ noise levels, measured using F time weighting, with a 15 minute reference time period.

8.0 Monitoring Results and Observations

The recorded environmental noise measurements are representative of the existing noise climate applicable to the facade of the nearest affected noise sensitive receptors.

Our observations indicated the dominant noise sources around the site were traffic noise, general street activity and intermittent aircraft flyovers.

The lowest measured background noise level, during the operational period of the proposed plant, was 43.5 dB $A_{90(15min)}$, at 08.00 to 08.15 hours on Sunday morning.

9.0 Local Authority Criteria for Proposed Plant

The London Borough of Camden standard noise requirement is specified in the Camden Development Policies 2010-2015 and is given below



Noise description and location of measurement	Period	Time	Noise level
Noise at 1metre external to a sensitive facade	Day, evening and night	0000-2400	5dB(A) < LA90
Noise that has a distinguishable discrete continuous note (whine,hiss,screech,hum) at 1m external to a sensitive facade	Day, evening and night	0000-2400	10dB(A) < LA90
Noise that has distinct impulses (bangs,clicks,clatters,thumps) at 1m external to a sensitive facade	Day, evening and night	0000-2400	10dB(A) < LA90
Noise at 1m external to sensitive façade where LA90>60 dB	Day, evening and night	0000-2400	55dBLAeq

This type of modern air conditioning plant would not have acoustic features audible at the receptor position. The site specific noise criteria is therefore as given below.

Site specific noise criteria, at the facade of the nearest, most affected residential property

08.00 to 21.00 criteria, 38.5 dB LAeq

10.0 Plant Noise Assessment

We have undertaken calculations to determine the predicted plant noise level at the selected Receptor Position RPA (potential residential property at 11m)

The predicted plant noise level at RPA would be as follows, assuming continuous plant operation on full load.

Receptor Position	Resultant Plant Noise Level, dB LAeq(15min)	Camden Noise Criteria, dB LAeq(15min)
RPA	36.2	38.5

The plant noise level is below the London Borough of Camden noise criteria and is therefore acceptable without any mitigation measures.

11.0 Conclusions

As can be seen from section 10.0 above, the plant noise levels at the selected Receptor Position RPA achieves the London Borough of Camden noise criteria without any mitigation measures.



Appendix 1

Calculated Plant Noise Level – Receptor Position RPA

Toshiba VN-M500E	34 dBA at 1m (max)
Toshiba RAV SM1403AT-E	54 dBA at 1m (max)
Total sound pressure level at 1m	54 dBA
Rev build up (Q=4)	+3 dB
Distance correction, 1m to 11m	-20.8 dB
Total maximum plant noise level at RPA	36.2 dB LAeq,T



**Appendix 2
Environmental Noise Survey Results**

Date	Time			Measured Sound Pressure Level, dB				Lowest LA90(10min)
				LAFmax	LAeq,T	LA10,T	LA90,T	
Wednesday 08.10.2014	15:00	to	15:15	71.1	58.0	58.9	57.0	56.7
	15:15	to	15:30	73.4	58.0	58.8	56.8	
	15:30	to	15:45	67.6	57.7	58.6	56.7	
	15:45	to	16:00	71.7	57.9	58.8	56.8	
	16:00	to	16:15	72.9	58.4	59.0	56.8	56.8
	16:15	to	16:30	82.1	61.1	59.5	56.8	
	16:30	to	16:45	67.8	58.1	58.9	57.0	
	16:45	to	17:00	75.9	58.0	58.8	56.8	
	17:00	to	17:15	75.6	58.8	59.8	57.1	56.8
	17:15	to	17:30	68.7	57.9	58.8	56.8	
	17:30	to	17:45	65.5	57.9	58.8	56.8	
	17:45	to	18:00	69.5	58.2	58.9	57.0	
	18:00	to	18:15	75.7	59.5	60.0	57.4	57.0
	18:15	to	18:30	71.0	58.6	59.7	57.3	
	18:30	to	18:45	64.9	57.9	58.8	57.0	
	18:45	to	19:00	61.9	57.9	58.8	57.0	
	19:00	to	19:15	72.3	58.5	59.3	57.1	57.0
	19:15	to	19:30	64.8	57.9	58.8	57.0	
	19:30	to	19:45	66.1	58.1	58.9	57.1	
	19:45	to	20:00	68.7	58.1	58.9	57.1	
	20:00	to	20:15	67.5	57.9	58.8	57.0	57.0
	20:15	to	20:30	71.3	57.8	58.7	57.0	
	20:30	to	20:45	63.0	58.0	58.8	57.0	
	20:45	to	21:00	63.3	58.2	58.9	57.1	
	21:00	to	21:15	64.9	57.7	58.7	56.8	56.8
	21:15	to	21:30	61.3	58.0	58.8	57.1	
	21:30	to	21:45	69.5	58.1	58.9	57.1	
	21:45	to	22:00	61.8	58.3	59.2	57.2	
	22:00	to	22:15	67.0	58.6	59.6	57.1	53.7
	22:15	to	22:30	61.0	58.2	59.2	57.2	
	22:30	to	22:45	70.3	58.3	59.3	57.2	
	22:45	to	23:00	73.5	58.8	59.8	53.7	
23:00	to	23:15	59.2	52.9	53.8	52.0	50.6	
23:15	to	23:30	59.4	52.9	53.8	52.1		
23:30	to	23:45	61.4	53.1	54.0	52.0		
23:45	to	00:00	64.1	52.4	53.6	50.6		



Date	Time			Measured Sound Pressure Level, dB				Lowest LAeq(10min)
				LAFmax	LAeq,T	LA10,T	LA90,T	
Thursday 09.10.2014	00:00	to	00:15	61.0	52.0	52.9	50.6	47.0
	00:15	to	00:30	58.8	50.8	51.9	49.2	
	00:30	to	00:45	60.3	49.0	50.3	47.4	
	00:45	to	01:00	67.5	51.4	51.7	47.0	
	01:00	to	01:15	65.0	48.9	49.0	46.0	
	01:15	to	01:30	65.2	48.8	49.4	46.3	
	01:30	to	01:45	58.6	47.5	48.8	46.0	
	01:45	to	02:00	60.3	47.5	48.8	46.0	
	02:00	to	02:15	59.3	47.9	48.9	46.4	
	02:15	to	02:30	58.2	47.1	48.8	44.7	
	02:30	to	02:45	59.4	46.3	47.5	44.7	
	02:45	to	03:00	61.4	47.5	48.5	44.2	
	03:00	to	03:15	57.2	46.3	47.8	44.2	
	03:15	to	03:30	62.4	46.7	47.9	44.6	
	03:30	to	03:45	57.7	46.5	47.8	44.6	
	03:45	to	04:00	58.2	46.2	47.8	44.2	
	04:00	to	04:15	58.4	46.2	47.6	44.4	
	04:15	to	04:30	65.3	50.8	53.6	44.9	
	04:30	to	04:45	62.8	50.3	52.9	46.1	
	04:45	to	05:00	63.9	51.1	52.6	46.3	
	05:00	to	05:15	58.7	50.2	52.1	46.0	
	05:15	to	05:30	74.9	48.6	48.6	45.2	
	05:30	to	05:45	57.7	47.1	48.6	45.3	
	05:45	to	06:00	58.5	50.3	52.8	47.3	
	06:00	to	06:15	58.5	48.3	50.6	45.6	
	06:15	to	06:30	58.3	48.4	49.8	46.3	
	06:30	to	06:45	83.9	62.5	67.5	46.8	
	06:45	to	07:00	61.6	48.8	50.2	46.5	
	07:00	to	07:15	58.5	48.9	50.2	47.2	
	07:15	to	07:30	68.8	50.0	50.7	47.2	
	07:30	to	07:45	58.8	49.3	50.7	47.6	
	07:45	to	08:00	62.0	49.9	51.2	47.5	
	08:00	to	08:15	70.2	50.4	50.9	48.0	
	08:15	to	08:30	75.4	57.1	53.6	48.7	
	08:30	to	08:45	76.0	56.4	54.7	49.6	
	08:45	to	09:00	69.0	52.3	53.1	50.1	
	09:00	to	09:15	71.3	52.8	53.8	50.4	
	09:15	to	09:30	81.6	53.5	52.5	50.1	
	09:30	to	09:45	72.4	53.8	55.7	50.8	
	09:45	to	10:00	76.6	58.3	55.7	51.2	
	10:00	to	10:15	66.5	54.4	57.7	51.3	
	10:15	to	10:30	80.2	59.3	59.9	57.1	
	10:30	to	10:45	68.8	58.4	59.3	57.2	
	10:45	to	11:00	84.1	59.1	59.1	57.1	
	11:00	to	11:15	69.3	57.9	58.8	57.0	
	11:15	to	11:30	73.0	58.5	59.5	57.0	
	11:30	to	11:45	74.6	58.7	59.4	57.2	
	11:45	to	12:00	65.9	59.2	60.3	58.0	
	12:00	to	12:15	75.9	59.9	60.5	58.2	
	12:15	to	12:30	84.5	59.8	59.9	58.1	
	12:30	to	12:45	69.5	59.3	60.3	58.1	
	12:45	to	13:00	77.9	60.1	60.4	58.1	
	13:00	to	13:15	77.8	59.5	59.9	58.0	
	13:15	to	13:30	64.7	59.0	59.9	58.0	
13:30	to	13:45	78.8	59.2	59.9	58.0		
13:45	to	14:00	76.8	59.7	60.8	58.2		
14:00	to	14:15	69.8	59.5	60.6	58.2		
14:15	to	14:30	69.9	59.1	59.9	58.1		
14:30	to	14:45	71.3	59.3	60.2	58.1		
14:45	to	15:00	66.1	59.3	60.4	58.2		
15:00	to	15:15	68.4	59.3	60.3	58.2		
15:15	to	15:30	71.1	60.0	61.3	58.6		
15:30	to	15:45	67.5	60.4	62.3	58.4		
15:45	to	16:00	68.6	59.6	60.7	58.2		
16:00	to	16:15	65.7	59.2	60.1	58.1		
16:15	to	16:30	75.7	59.9	60.4	58.2		
16:30	to	16:45	73.3	60.4	60.9	58.2		
16:45	to	17:00	83.2	61.8	61.7	58.3		
17:00	to	17:15	75.8	60.0	60.7	58.3		
17:15	to	17:30	71.3	59.5	60.5	58.2		
17:30	to	17:45	74.4	59.4	60.1	58.1		
17:45	to	18:00	69.4	59.4	60.3	58.2		
18:00	to	18:15	72.1	59.5	60.5	58.2		
18:15	to	18:30	71.9	59.2	60.1	58.1		
18:30	to	18:45	71.0	59.4	60.0	58.1		
18:45	to	19:00	68.3	59.2	60.1	58.1		
19:00	to	19:15	87.7	60.6	60.3	58.1		
19:15	to	19:30	72.8	60.5	62.3	58.2		
19:30	to	19:45	73.9	60.7	62.2	58.7		
19:45	to	20:00	67.6	59.5	60.6	58.3		
20:00	to	20:15	65.1	59.3	60.2	58.2		
20:15	to	20:30	65.0	59.8	60.8	58.7		
20:30	to	20:45	70.4	59.4	60.4	58.2		
20:45	to	21:00	63.9	59.3	60.4	58.2		
21:00	to	21:15	65.9	59.1	59.9	58.1		
21:15	to	21:30	63.9	59.2	60.2	58.1		
21:30	to	21:45	71.2	59.3	60.2	58.2		
21:45	to	22:00	63.0	59.4	60.5	58.3		
22:00	to	22:15	64.6	57.7	59.9	52.7		
22:15	to	22:30	61.4	53.1	53.9	52.1		
22:30	to	22:45	70.4	53.0	53.8	52.0		
22:45	to	23:00	71.7	53.9	54.3	51.8		
23:00	to	23:15	69.8	53.0	53.4	51.4		
23:15	to	23:30	64.5	52.9	53.7	51.5		
23:30	to	23:45	65.9	53.0	53.8	51.8		
23:45	to	00:00	57.7	52.6	53.5	51.6		



Date	Time			Measured Sound Pressure Level, dB				Lowest LAeq(10min)
				LAFmax	LAeq,T	LA10,T	LA90,T	
Friday 10.10.2014	00:00	to	00:15	56.1	52.3	53.1	51.3	49.1
	00:15	to	00:30	62.3	50.8	51.6	49.3	
	00:30	to	00:45	57.8	50.4	51.5	49.1	
	00:45	to	01:00	57.1	50.7	51.7	49.4	
	01:00	to	01:15	53.1	47.8	50.5	44.9	44.2
	01:15	to	01:30	57.8	46.6	48.2	44.8	
	01:30	to	01:45	58.4	47.7	49.3	45.2	
	01:45	to	02:00	62.4	49.2	50.6	44.2	
	02:00	to	02:15	53.2	46.4	47.9	44.1	43.2
	02:15	to	02:30	50.6	45.4	46.8	43.7	
	02:30	to	02:45	49.0	45.1	46.7	43.2	
	02:45	to	03:00	56.8	45.6	46.9	43.3	
	03:00	to	03:15	51.3	45.1	46.8	43.2	43.2
	03:15	to	03:30	63.0	46.1	47.8	43.4	
	03:30	to	03:45	54.6	45.7	47.6	43.4	
	03:45	to	04:00	50.6	45.9	47.3	43.7	
	04:00	to	04:15	50.1	45.6	47.2	43.4	43.2
	04:15	to	04:30	61.7	46.4	48.5	43.2	
	04:30	to	04:45	59.2	47.1	48.6	43.4	
	04:45	to	05:00	56.6	45.3	47.1	43.2	
	05:00	to	05:15	63.4	45.2	46.9	43.2	43.2
	05:15	to	05:30	63.8	46.4	47.8	44.1	
	05:30	to	05:45	65.2	47.3	48.6	45.6	
	05:45	to	06:00	61.0	50.3	53.6	45.8	
	06:00	to	06:15	65.1	47.2	48.6	44.6	44.6
	06:15	to	06:30	62.8	47.1	48.6	44.8	
	06:30	to	06:45	60.0	47.3	48.8	44.6	
	06:45	to	07:00	75.0	51.5	51.2	45.0	
	07:00	to	07:15	86.6	61.9	66.1	45.9	45.5
	07:15	to	07:30	61.6	47.7	49.0	45.5	
	07:30	to	07:45	59.7	48.0	49.5	45.8	
	07:45	to	08:00	63.4	48.9	50.6	46.0	
	08:00	to	08:15	85.4	54.6	52.0	46.2	46.2
	08:15	to	08:30	76.5	57.2	60.4	46.2	
	08:30	to	08:45	71.4	50.1	51.2	47.3	
	08:45	to	09:00	64.2	50.9	51.9	49.2	
	09:00	to	09:15	82.1	52.9	52.6	49.4	49.4
	09:15	to	09:30	72.6	55.5	56.2	50.3	
	09:30	to	09:45	82.3	57.1	58.7	50.6	
	09:45	to	10:00	76.0	55.8	57.6	51.6	
	10:00	to	10:15	75.9	54.4	54.9	51.5	51.2
	10:15	to	10:30	72.7	54.3	55.5	51.3	
	10:30	to	10:45	68.3	54.7	55.9	51.2	
	10:45	to	11:00	66.0	53.5	54.4	51.6	
	11:00	to	11:15	71.2	56.4	57.7	52.5	52.5
	11:15	to	11:30	73.3	54.9	55.1	53.0	
	11:30	to	11:45	64.6	58.2	60.2	53.0	
	11:45	to	12:00	64.4	59.2	59.9	58.1	
12:00	to	12:15	65.6	59.2	60.1	58.1	58.1	
12:15	to	12:30	65.1	59.2	60.2	58.2		
12:30	to	12:45	80.7	60.0	60.9	58.3		
12:45	to	13:00	64.8	59.1	59.9	58.1		
13:00	to	13:15	83.9	59.8	60.3	58.1	58.0	
13:15	to	13:30	82.1	61.3	61.6	58.2		
13:30	to	13:45	66.1	59.0	59.9	58.1		
13:45	to	14:00	71.6	59.1	59.9	58.0		
14:00	to	14:15	80.2	59.2	59.9	58.1	58.0	
14:15	to	14:30	76.4	59.1	59.9	58.0		
14:30	to	14:45	71.3	59.3	60.1	58.2		
14:45	to	15:00	65.9	59.1	59.9	58.1		
15:00	to	15:15	75.3	64.3	68.2	58.5	57.1	
15:15	to	15:30	73.9	59.5	60.2	57.4		
15:30	to	15:45	72.0	58.4	59.2	57.1		
15:45	to	16:00	66.1	58.3	59.0	57.2		
16:00	to	16:15	68.3	58.8	59.7	57.3	57.1	
16:15	to	16:30	64.0	58.3	59.1	57.2		
16:30	to	16:45	62.5	58.1	58.9	57.1		
16:45	to	17:00	76.6	58.5	59.1	57.2		
17:00	to	17:15	71.1	58.6	59.5	57.4	57.4	
17:15	to	17:30	71.2	59.6	60.4	57.4		
17:30	to	17:45	64.2	58.4	59.3	57.4		
17:45	to	18:00	72.9	58.7	59.6	57.4		
18:00	to	18:15	81.3	60.9	59.8	57.4	57.2	
18:15	to	18:30	68.8	58.5	59.5	57.4		
18:30	to	18:45	69.4	58.5	59.4	57.2		
18:45	to	19:00	64.6	58.4	59.2	57.3		
19:00	to	19:15	65.8	58.4	59.3	57.3	57.2	
19:15	to	19:30	72.8	58.5	59.1	57.2		
19:30	to	19:45	64.9	58.4	59.3	57.2		
19:45	to	20:00	64.2	58.7	59.7	57.6		
20:00	to	20:15	63.4	58.6	59.6	57.5	57.4	
20:15	to	20:30	62.2	58.6	59.6	57.5		
20:30	to	20:45	62.2	58.4	59.4	57.4		
20:45	to	21:00	66.3	58.5	59.4	57.4		
21:00	to	21:15	65.7	58.9	59.9	57.7	57.7	
21:15	to	21:30	62.8	59.9	60.8	59.0		
21:30	to	21:45	68.5	60.2	60.9	59.1		
21:45	to	22:00	64.6	60.1	60.9	59.1		
22:00	to	22:15	70.0	60.3	61.4	59.1	59.1	
22:15	to	22:30	65.8	60.2	61.1	59.1		
22:30	to	22:45	62.6	60.0	60.9	59.1		
22:45	to	23:00	63.6	60.1	60.9	59.1		
23:00	to	23:15	62.7	60.1	60.9	59.1	54.1	
23:15	to	23:30	71.6	60.2	60.9	59.1		
23:30	to	23:45	63.5	60.3	61.2	59.2		
23:45	to	00:00	63.0	58.4	60.6	54.1		



Date	Time			Measured Sound Pressure Level, dB				Lowest LAeq(10min)
				LAFmax	LAeq,T	LA10,T	LA90,T	
Saturday 11.10.2014	00:00	to	00:15	63.2	54.8	55.8	53.7	52.1
	00:15	to	00:30	70.1	54.4	55.4	53.2	
	00:30	to	00:45	58.9	53.5	54.6	52.1	
	00:45	to	01:00	68.3	53.6	54.9	52.1	
	01:00	to	01:15	61.4	53.6	54.8	52.2	50.9
	01:15	to	01:30	66.5	53.3	54.2	51.6	
	01:30	to	01:45	60.3	53.1	54.3	51.6	
	01:45	to	02:00	56.9	51.9	52.9	50.9	
	02:00	to	02:15	59.5	52.2	53.4	50.6	49.2
	02:15	to	02:30	61.6	52.3	53.5	50.4	
	02:30	to	02:45	65.7	51.1	51.9	49.6	
	02:45	to	03:00	63.2	50.8	51.8	49.2	
	03:00	to	03:15	65.1	49.8	50.8	48.4	48.3
	03:15	to	03:30	63.8	49.9	50.7	48.5	
	03:30	to	03:45	57.7	49.9	50.8	49.0	
	03:45	to	04:00	59.2	49.5	50.6	48.3	
	04:00	to	04:15	57.5	49.6	50.7	48.3	47.7
	04:15	to	04:30	54.4	48.8	49.8	47.8	
	04:30	to	04:45	57.3	49.2	50.4	47.9	
	04:45	to	05:00	53.0	48.9	49.9	47.7	
	05:00	to	05:15	60.6	49.1	49.9	47.7	47.7
	05:15	to	05:30	57.4	49.2	50.3	48.1	
	05:30	to	05:45	56.1	49.0	49.8	48.0	
	05:45	to	06:00	56.3	49.4	50.5	48.2	
	06:00	to	06:15	61.0	51.4	52.7	50.0	48.2
	06:15	to	06:30	57.2	50.0	50.8	49.1	
	06:30	to	06:45	60.1	52.5	54.8	49.4	
	06:45	to	07:00	58.6	49.5	50.7	48.2	
	07:00	to	07:15	57.3	50.0	51.2	48.5	44.5
	07:15	to	07:30	63.1	49.7	50.9	45.0	
	07:30	to	07:45	59.8	47.1	48.8	44.5	
	07:45	to	08:00	57.5	47.5	49.2	44.9	
	08:00	to	08:15	66.7	49.2	49.5	45.2	44.6
	08:15	to	08:30	71.0	50.6	50.4	45.8	
	08:30	to	08:45	64.8	48.6	50.6	44.6	
	08:45	to	09:00	60.6	47.9	49.8	44.8	
	09:00	to	09:15	59.9	49.5	51.2	45.5	45.5
	09:15	to	09:30	62.2	50.9	52.2	49.2	
	09:30	to	09:45	61.1	50.9	51.9	49.6	
	09:45	to	10:00	62.5	52.2	52.8	50.4	
	10:00	to	10:15	75.0	53.3	53.6	51.1	51.1
	10:15	to	10:30	62.3	52.7	53.6	51.2	
	10:30	to	10:45	68.1	56.7	60.4	51.5	
	10:45	to	11:00	65.9	59.6	60.6	58.4	
	11:00	to	11:15	64.2	59.7	60.8	58.6	58.5
	11:15	to	11:30	74.5	60.7	60.9	58.7	
	11:30	to	11:45	72.0	59.7	60.7	58.5	
	11:45	to	12:00	68.6	60.2	61.2	58.8	
12:00	to	12:15	71.0	59.7	60.6	58.5	58.5	
12:15	to	12:30	69.1	59.7	60.7	58.5		
12:30	to	12:45	77.7	59.7	60.6	58.5		
12:45	to	13:00	67.5	59.8	60.8	58.5		
13:00	to	13:15	69.0	59.7	60.7	58.5	58.5	
13:15	to	13:30	64.3	59.6	60.6	58.5		
13:30	to	13:45	64.2	59.6	60.6	58.5		
13:45	to	14:00	65.7	59.7	60.7	58.7		
14:00	to	14:15	63.4	59.7	60.7	58.6	58.6	
14:15	to	14:30	66.4	60.0	61.0	59.0		
14:30	to	14:45	65.3	60.0	60.8	59.0		
14:45	to	15:00	77.9	60.0	60.8	59.0		
15:00	to	15:15	65.8	59.9	60.8	59.0	59.0	
15:15	to	15:30	74.1	60.0	60.9	59.0		
15:30	to	15:45	65.7	60.0	60.8	59.0		
15:45	to	16:00	64.3	59.9	60.8	59.0		
16:00	to	16:15	69.4	60.2	61.0	59.1	59.1	
16:15	to	16:30	72.8	60.5	61.5	59.1		
16:30	to	16:45	64.6	60.1	60.9	59.1		
16:45	to	17:00	64.9	60.2	61.0	59.1		
17:00	to	17:15	74.6	60.2	60.9	59.1	59.0	
17:15	to	17:30	74.9	60.6	61.5	59.2		
17:30	to	17:45	74.8	60.0	60.8	59.0		
17:45	to	18:00	69.8	59.9	60.8	59.0		
18:00	to	18:15	63.0	59.8	60.8	59.0	59.0	
18:15	to	18:30	68.2	60.1	60.9	59.1		
18:30	to	18:45	63.2	60.1	60.9	59.1		
18:45	to	19:00	76.6	60.1	60.9	59.0		
19:00	to	19:15	69.1	60.0	60.8	58.8	58.7	
19:15	to	19:30	64.6	59.8	60.8	58.7		
19:30	to	19:45	63.1	59.7	60.7	58.7		
19:45	to	20:00	63.7	59.9	60.8	59.0		
20:00	to	20:15	70.7	59.8	60.7	59.0	58.2	
20:15	to	20:30	63.8	59.7	60.7	58.7		
20:30	to	20:45	66.0	59.4	60.3	58.3		
20:45	to	21:00	63.3	59.3	60.1	58.2		
21:00	to	21:15	67.8	59.3	60.2	58.2	58.2	
21:15	to	21:30	64.9	59.3	60.1	58.2		
21:30	to	21:45	67.3	59.6	60.5	58.3		
21:45	to	22:00	67.0	59.4	60.3	58.3		
22:00	to	22:15	61.1	59.4	60.4	58.4	58.3	
22:15	to	22:30	61.5	59.5	60.4	58.4		
22:30	to	22:45	71.2	59.4	60.3	58.3		
22:45	to	23:00	64.4	59.5	60.5	58.5		
23:00	to	23:15	71.3	59.6	60.6	58.6	53.4	
23:15	to	23:30	61.6	59.7	60.7	58.8		
23:30	to	23:45	72.6	59.9	60.8	59.0		
23:45	to	00:00	73.0	56.6	59.7	53.4		



Date	Time	Measured Sound Pressure Level, dB				Lowest LAeq(10min)
		LAFmax	LAeq,T	LA10,T	LA90,T	
Sunday 12.10.2014	00:00 to 00:15	61.7	54.1	54.9	53.0	51.3
	00:15 to 00:30	66.6	54.3	55.0	53.0	
	00:30 to 00:45	64.0	53.1	53.9	51.5	
	00:45 to 01:00	71.6	53.0	54.3	51.3	
	01:00 to 01:15	63.7	52.4	53.6	51.0	49.4
	01:15 to 01:30	60.7	52.3	53.3	51.1	
	01:30 to 01:45	59.8	51.3	52.6	49.6	
	01:45 to 02:00	70.2	51.8	53.2	49.4	
	02:00 to 02:15	62.7	51.0	52.5	49.1	45.6
	02:15 to 02:30	73.6	54.5	54.7	49.3	
	02:30 to 02:45	67.2	51.8	52.1	47.8	
	02:45 to 03:00	71.8	49.2	49.7	45.6	
	03:00 to 03:15	68.0	49.4	50.5	47.0	43.2
	03:15 to 03:30	61.3	47.6	48.9	44.6	
	03:30 to 03:45	65.5	47.8	48.1	43.7	
	03:45 to 04:00	59.5	45.9	47.6	43.2	
	04:00 to 04:15	49.4	45.5	47.2	43.0	42.9
	04:15 to 04:30	59.5	47.0	48.0	45.2	
	04:30 to 04:45	52.1	45.1	46.9	42.9	
	04:45 to 05:00	51.1	46.6	48.2	43.9	
	05:00 to 05:15	56.1	46.2	47.9	43.3	42.7
	05:15 to 05:30	53.5	44.9	46.8	42.7	
	05:30 to 05:45	53.5	44.8	46.6	42.9	
	05:45 to 06:00	53.6	46.5	47.8	44.7	
	06:00 to 06:15	55.0	46.8	48.1	44.5	43.0
	06:15 to 06:30	61.0	51.9	54.6	47.9	
	06:30 to 06:45	56.7	48.2	50.8	44.4	
	06:45 to 07:00	64.1	47.4	48.8	43.0	
	07:00 to 07:15	67.5	47.7	47.8	43.1	43.0
	07:15 to 07:30	65.3	46.4	47.6	43.9	
	07:30 to 07:45	51.0	45.3	47.4	43.0	
	07:45 to 08:00	58.3	48.2	49.3	43.9	
	08:00 to 08:15	63.7	48.0	49.0	43.5	43.5
	08:15 to 08:30	56.4	47.0	48.7	44.1	
	08:30 to 08:45	67.9	47.9	49.1	46.0	
	08:45 to 09:00	64.5	48.1	50.2	44.2	
	09:00 to 09:15	69.6	48.6	49.9	44.4	44.4
	09:15 to 09:30	59.3	48.2	49.5	46.4	
	09:30 to 09:45	64.5	48.1	49.7	45.5	
	09:45 to 10:00	72.7	51.0	52.8	47.3	
	10:00 to 10:15	70.8	52.1	52.9	50.2	50.2
	10:15 to 10:30	59.9	52.8	53.8	51.7	
	10:30 to 10:45	58.1	52.9	53.8	52.0	
	10:45 to 11:00	71.2	53.8	54.6	52.3	
	11:00 to 11:15	73.7	56.7	58.9	52.2	52.2
	11:15 to 11:30	63.1	54.1	55.0	53.0	
	11:30 to 11:45	62.2	55.0	55.9	54.0	
	11:45 to 12:00	66.0	57.7	59.8	54.2	
12:00 to 12:15	66.3	59.1	60.0	58.1	58.1	
12:15 to 12:30	70.1	59.3	60.2	58.2		
12:30 to 12:45	75.4	59.4	60.3	58.2		
12:45 to 13:00	68.6	59.1	59.9	58.1		
13:00 to 13:15	77.2	59.4	60.3	58.1	53.9	
13:15 to 13:30	69.5	59.1	60.0	58.0		
13:30 to 13:45	72.4	58.8	60.2	53.9		
13:45 to 14:00	64.8	59.3	60.2	58.2		
14:00 to 14:15	76.9	59.9	60.8	58.3	58.3	
14:15 to 14:30	70.7	59.6	60.6	58.3		
14:30 to 14:45	71.1	59.9	60.7	58.3		
14:45 to 15:00	61.5	59.4	60.4	58.3		
15:00 to 15:15	65.6	59.4	60.4	58.4	58.4	
15:15 to 15:30	70.2	59.6	60.5	58.5		
15:30 to 15:45	71.2	59.6	60.6	58.5		
15:45 to 16:00	64.9	59.5	60.5	58.4		
16:00 to 16:15	64.3	59.5	60.5	58.4	58.3	
16:15 to 16:30	66.7	59.4	60.2	58.3		
16:30 to 16:45	82.9	60.0	60.7	58.3		
16:45 to 17:00	68.3	59.5	60.4	58.3		
17:00 to 17:15	63.6	59.3	60.2	58.3	58.1	
17:15 to 17:30	72.4	59.2	59.9	58.1		
17:30 to 17:45	67.1	59.3	60.1	58.2		
17:45 to 18:00	79.6	60.4	60.6	58.3		
18:00 to 18:15	67.0	60.1	60.9	59.0	59.0	
18:15 to 18:30	64.6	59.8	60.8	59.0		
18:30 to 18:45	73.0	60.4	61.3	59.0		
18:45 to 19:00	83.0	60.8	61.6	59.3		
19:00 to 19:15	64.3	59.9	60.8	59.0	59.0	
19:15 to 19:30	64.6	60.4	61.3	59.3		
19:30 to 19:45	68.7	60.6	61.6	59.4		
19:45 to 20:00	68.7	60.1	60.9	59.1		
20:00 to 20:15	64.5	59.9	60.8	59.0	53.3	
20:15 to 20:30	62.8	59.7	60.7	58.6		
20:30 to 20:45	72.5	59.9	60.7	58.6		
20:45 to 21:00	64.0	59.1	60.7	53.3		
21:00 to 21:15	74.8	59.4	60.0	54.5	54.5	
21:15 to 21:30	65.5	59.1	59.9	58.1		
21:30 to 21:45	61.6	59.0	59.8	58.0		
21:45 to 22:00	77.3	59.6	60.2	58.0		
22:00 to 22:15	61.1	58.9	59.8	58.0	51.7	
22:15 to 22:30	68.9	58.9	59.8	57.9		
22:30 to 22:45	64.7	58.4	60.1	51.7		
22:45 to 23:00	66.3	59.5	60.5	58.3		
23:00 to 23:15	61.3	57.9	60.1	51.9	51.2	
23:15 to 23:30	63.0	52.4	53.5	51.2		
23:30 to 23:45	63.7	55.6	56.9	54.0		
23:45 to 00:00	59.7	53.4	54.9	51.4		



Date	Time	Measured Sound Pressure Level, dB				Lowest LAeq(10min)
		LAFmax	LAeq,T	LA10,T	LA90,T	
Monday 13.10.2014	00:00 to 00:15	61.3	52.0	52.9	50.9	48.0
	00:15 to 00:30	73.3	52.5	53.0	48.6	
	00:30 to 00:45	62.6	56.5	59.7	48.7	
	00:45 to 01:00	60.7	54.3	59.2	48.0	
	01:00 to 01:15	69.3	50.8	51.7	46.5	46.5
	01:15 to 01:30	66.3	51.1	52.1	47.6	
	01:30 to 01:45	61.0	50.3	52.0	48.0	
	01:45 to 02:00	56.7	49.5	51.2	47.5	
	02:00 to 02:15	59.2	48.0	49.7	45.5	45.5
	02:15 to 02:30	56.2	47.6	48.8	46.1	
	02:30 to 02:45	62.3	51.6	53.7	48.6	
	02:45 to 03:00	73.6	54.6	56.3	51.6	
	03:00 to 03:15	64.6	52.2	54.5	48.7	48.7
	03:15 to 03:30	59.4	52.3	54.2	49.6	
	03:30 to 03:45	65.7	51.9	53.9	49.1	
	03:45 to 04:00	58.9	51.5	53.4	49.2	
	04:00 to 04:15	61.1	50.9	52.7	48.8	46.9
	04:15 to 04:30	59.7	49.7	51.2	47.7	
	04:30 to 04:45	62.4	49.2	50.8	47.0	
	04:45 to 05:00	57.5	48.9	50.5	46.9	
	05:00 to 05:15	62.2	51.2	53.4	47.3	47.3
	05:15 to 05:30	67.6	53.4	56.1	48.7	
	05:30 to 05:45	65.4	55.7	57.9	52.3	
	05:45 to 06:00	65.3	53.1	55.6	49.5	
	06:00 to 06:15	65.7	52.4	54.4	49.7	49.7
	06:15 to 06:30	61.6	53.4	55.5	51.0	
	06:30 to 06:45	85.7	62.0	65.3	50.5	
	06:45 to 07:00	87.2	59.3	57.2	51.3	
	07:00 to 07:15	64.6	55.7	58.2	52.1	49.0
	07:15 to 07:30	60.0	52.3	53.9	50.3	
	07:30 to 07:45	61.5	51.2	52.8	49.0	
	07:45 to 08:00	72.1	54.1	54.5	49.2	
	08:00 to 08:15	76.6	55.5	57.8	50.4	49.2
	08:15 to 08:30	74.8	56.0	56.7	50.2	
	08:30 to 08:45	68.2	51.5	52.8	49.7	
	08:45 to 09:00	65.0	50.9	52.2	49.2	
	09:00 to 09:15	67.0	51.7	53.2	49.6	49.6
	09:15 to 09:30	70.2	52.0	53.1	50.2	
	09:30 to 09:45	68.9	52.4	53.9	50.4	
	09:45 to 10:00	79.7	57.0	57.2	50.3	
	10:00 to 10:15	74.6	53.5	54.7	51.0	51.0
	10:15 to 10:30	64.1	53.1	54.7	51.2	
	10:30 to 10:45	72.8	53.4	54.3	51.5	
	10:45 to 11:00	71.9	54.4	55.3	52.4	
	11:00 to 11:15	66.5	54.3	56.4	52.1	52.1
	11:15 to 11:30	78.6	57.6	57.9	55.4	
	11:30 to 11:45	69.1	57.2	57.9	56.0	
	11:45 to 12:00	70.3	57.5	58.5	56.2	
12:00 to 12:15	70.6	57.9	59.3	56.1	55.6	
12:15 to 12:30	68.3	57.1	57.9	55.6		
12:30 to 12:45	71.2	57.2	58.3	56.0		
12:45 to 13:00	68.7	57.2	58.0	56.1		
13:00 to 13:15	72.5	57.9	58.9	56.2	56.1	
13:15 to 13:30	72.0	57.4	58.2	56.1		
13:30 to 13:45	77.1	57.9	58.6	56.2		
13:45 to 14:00	68.5	57.2	58.1	56.1		
14:00 to 14:15	64.9	57.7	58.9	56.3	56.3	
14:15 to 14:30	78.4	58.3	58.7	56.3		
14:30 to 14:45	71.0	57.9	58.9	56.5		
14:45 to 15:00	64.5	57.6	58.6	56.5		
15:00 to 15:15	63.7	57.8	58.9	56.5	55.3	
15:15 to 15:30	72.9	58.1	59.0	56.3		
15:30 to 15:45	76.3	58.2	58.7	56.5		
15:45 to 16:00	70.1	57.3	58.6	55.3		
16:00 to 16:15	67.9	55.5	56.9	53.5	52.9	
16:15 to 16:30	64.5	54.9	56.3	53.1		
16:30 to 16:45	62.9	54.8	56.7	53.0		
16:45 to 17:00	63.6	54.5	55.8	52.9		
17:00 to 17:15	70.9	55.0	55.8	53.2	53.2	
17:15 to 17:30	67.0	54.9	56.2	53.2		
17:30 to 17:45	71.1	55.0	55.9	53.2		
17:45 to 18:00	66.2	54.8	55.8	53.3		
18:00 to 18:15	63.6	54.0	54.8	53.0	52.8	
18:15 to 18:30	67.6	54.9	56.2	53.1		
18:30 to 18:45	67.0	54.2	55.0	53.0		
18:45 to 19:00	64.4	53.8	54.7	52.8		
19:00 to 19:15	75.4	54.7	55.1	53.1	53.0	
19:15 to 19:30	65.3	54.2	55.5	53.0		
19:30 to 19:45	62.4	54.8	55.8	53.5		
19:45 to 20:00	63.5	55.7	57.2	54.2		
20:00 to 20:15	60.0	55.0	56.5	53.5	53.3	
20:15 to 20:30	75.5	55.6	55.8	53.3		
20:30 to 20:45	74.6	56.9	58.2	54.2		
20:45 to 21:00	66.5	58.5	59.8	55.5		
21:00 to 21:15	61.6	58.9	59.8	58.0	58.0	
21:15 to 21:30	62.7	59.0	59.9	58.1		
21:30 to 21:45	61.4	58.9	59.8	58.0		
21:45 to 22:00	62.9	59.0	59.8	58.0		
22:00 to 22:15	64.1	58.8	61.0	55.2	51.7	
22:15 to 22:30	71.2	54.6	55.6	53.2		
22:30 to 22:45	60.4	53.6	54.6	52.3		
22:45 to 23:00	58.9	53.0	54.0	51.7		
23:00 to 23:15	54.5	52.5	53.4	51.6	49.2	
23:15 to 23:30	61.3	50.8	52.2	49.2		
23:30 to 23:45	60.4	50.9	51.8	49.9		
23:45 to 00:00	69.3	53.2	51.9	49.2		



Date	Time		Measured Sound Pressure Level, dB				Lowest LAeq(10min)
			LAfmax	LAeq,T	LA10,T	LA90,T	
Tuesday 14.10.2014	00:00	to 00:15	60.0	51.1	51.9	50.0	48.9
	00:15	to 00:30	66.1	51.1	51.8	50.0	
	00:30	to 00:45	66.2	51.2	51.6	48.9	
	00:45	to 01:00	57.3	50.9	51.8	50.0	
	01:00	to 01:15	59.5	50.2	51.1	48.9	48.8
	01:15	to 01:30	71.8	52.4	51.7	48.8	
	01:30	to 01:45	61.0	50.8	51.6	49.7	
	01:45	to 02:00	58.1	49.8	50.7	48.9	
	02:00	to 02:15	53.2	50.3	51.1	49.3	48.5
	02:15	to 02:30	58.9	50.1	50.9	48.5	
	02:30	to 02:45	58.0	49.8	50.8	48.6	
	02:45	to 03:00	53.3	49.9	50.8	49.1	
	03:00	to 03:15	52.3	49.5	50.6	48.3	48.3
	03:15	to 03:30	58.2	50.4	51.1	49.4	
	03:30	to 03:45	51.9	49.9	50.8	48.8	
	03:45	to 04:00	58.2	49.8	50.8	48.6	
	04:00	to 04:15	57.7	50.4	51.4	49.3	48.3
	04:15	to 04:30	52.5	49.6	50.8	48.3	
	04:30	to 04:45	57.9	50.1	50.9	49.1	
	04:45	to 05:00	52.7	50.0	50.8	49.1	
	05:00	to 05:15	58.1	49.8	50.9	48.3	48.3
	05:15	to 05:30	52.8	50.3	51.1	49.2	
	05:30	to 05:45	55.5	50.9	52.2	49.4	
	05:45	to 06:00	58.5	52.1	54.3	50.0	
	06:00	to 06:15	71.8	53.6	52.1	49.4	48.6
	06:15	to 06:30	57.1	49.9	50.8	48.6	
	06:30	to 06:45	68.0	52.2	54.1	49.6	
	06:45	to 07:00	91.6	61.9	64.2	49.1	
	07:00	to 07:15	63.4	51.3	52.7	49.3	49.0
	07:15	to 07:30	63.6	51.0	51.9	49.7	
	07:30	to 07:45	58.4	50.3	51.6	49.0	
	07:45	to 08:00	61.8	51.2	52.0	50.1	
	08:00	to 08:15	64.5	51.3	52.4	49.9	49.9
	08:15	to 08:30	93.6	59.8	56.8	50.1	
	08:30	to 08:45	76.8	53.7	54.9	51.0	
	08:45	to 09:00	72.6	53.7	54.5	50.5	
	09:00	to 09:15	68.6	53.1	54.8	50.3	50.3
	09:15	to 09:30	69.8	53.7	56.1	50.3	
	09:30	to 09:45	74.0	54.3	57.1	50.8	
	09:45	to 10:00	81.1	56.6	58.3	51.0	
	10:00	to 10:15	79.6	54.7	56.5	51.2	51.2
	10:15	to 10:30	66.0	53.3	54.6	51.6	
10:30	to 10:45	71.9	54.4	56.4	52.3		
10:45	to 11:00	67.3	55.1	57.3	53.0		
11:00	to 11:15	67.6	55.4	57.7	52.8	52.8	
11:15	to 11:30	71.4	56.5	59.6	53.1		
11:30	to 11:45	71.3	55.4	57.2	53.0		
11:45	to 12:00	67.7	55.0	56.4	53.3		

ACP

Appendix 3 Site Plan

