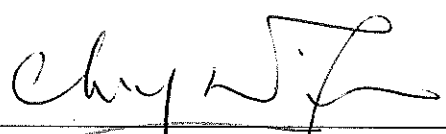


**Contract No. DC/2009/18  
HATS Stage 2A – Upgrading  
Works at Stonecutters Island Sewage  
Treatment Works –  
Effluent Tunnel and Disinfection  
Facilities**

**Baseline Environmental  
Monitoring and Audit Report**

**(Version 1.2)**

Certified By   
(Environmental Team Leader)

**REMARKS:**

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

CINOTECH accepts no responsibility for changes made to this report by third parties

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CE/Harbour Area Treatment Scheme  
Drainage Services Department  
Sewage Services Branch  
Harbour Area Treatment Scheme Division  
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10 November 2011  
By Post

**Attn: Mr. Danny Tang**

Dear Sir,

**Agreement No. CE 8/2009(EP)  
Harbour Area Treatment Scheme (HATS) Stage 2A  
Independent Environmental Checker for Construction Phase – Investigation**

**Contract No. DC/2009/18  
Upgrading Works at Stonecutters Island Sewage Treatment Works – Effluent Tunnel  
and Disinfection Facilities  
Condition 4.3 - Submission of Baseline Monitoring Report (Version 1.2)**

I refer to the revised Baseline Monitoring Report (Version 1.2) received on 8 November 2011 via email. Pursuant to Condition 4.3 of Environmental Permit No. EP-322/2008/E, I hereby verify the captioned report.

Yours faithfully  
for MOTT MACDONALD HONG KONG LIMITED

Dr. Anne F Kerr  
Independent Environmental Checker

c.c. Ove Arup & Partners HK Ltd.  
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## **EXECUTIVE SUMMARY**

1. This Baseline Environmental Monitoring Report is prepared by Cinotech Consultants Ltd. for “Harbour Area Treatment Scheme Stage 2A (HATS 2A) - Upgrading Works at Stonecutters Island Sewage Treatment Works – Effluent Tunnel and Disinfection Facilities” (hereinafter called “the Project”) under Environmental Permit (Permit No. EP-322/2008/E).
2. This report presents the baseline air quality and noise monitoring performed for the Project. The baseline air quality was conducted between 30 September 2011 to 14 October 2011 (suspended on 3 October 2011 due to Typhoon Signal No.3 and adverse weather condition) and the baseline noise monitoring was conducted from 26 September 2011 to 12 October 2011(suspended on 28, 29 September 2011 and 3 October 2011 due to adverse weather condition).
3. Approval by the Engineer’s Representative (ER) and agreement of Independent Environmental Checker (IEC) were obtained for the baseline air quality location (AM9) and noise monitoring location (NM7) in advance of the baseline monitoring.

### **Air Quality**

4. The baseline 1-hour and 24-hour TSP (Total Suspended Particulates) monitoring were conducted at one designated location AM9, Work Site Boundary (Near Ngong Shuen Chau Barracks Group 2) for a period of 14 days. During the monitoring, there was no major dust generating activities undertaken in the vicinity of the monitoring station. Data collected was reviewed and analyzed to determine the Action and Limit Levels for air quality during impact monitoring throughout the construction of the Project. Details of the methodology, locations and results are presented in the report.

### **Noise**

5. The baseline noise monitoring was conducted at one designated monitoring station NM7, Open Area near Naval Base Barrack. Noise levels at the monitoring station were measured continuously for 24 hours for a period of 14 days. The baseline noise monitoring data was processed according to the following periods:
  - Daytime: 0700-1900 hours on normal weekdays
  - Evening-time: 1900-2300 hours on non-holidays
  - Holiday-time: 0700-2300 hours on general holidays including Sundays
  - Night-time: 2300-0700 hours of all days

## **1 INTRODUCTION**

### **Background**

- 1.1 ‘Harbour Area Treatment Scheme Stage 2A(HATS 2A) - Upgrading Works at Stonecutters Island Sewage Treatment Works – Effluent Tunnel and Disinfection Facilities’ is a Project (hereafter referred to as “the Project”) under Drainage Services Department (DSD) Contract No. DC/2009/18. The general location plan of the Project is shown in **Figure 1**.
- 1.2 The Project mainly comprises the following works:-
  - (a) The Construction of an 880m long effluent tunnel at Stonecutters Island; and
  - (b) The Construction of disinfection facilities at Stonecutters Island Sewage Treatment Works (SCISTW).
- 1.3 The Project is scheduled to commence in 2011 and to be completed in 2015.
- 1.4 Chun Wo – CEC Joint Venture (hereafter called the Contractor) was commissioned by the Drainage Services Department (DSD) to undertake the construction works under Contract No. DC/2009/18 “Harbour Area Treatment Scheme Stage 2A (HATS 2A) - Upgrading Works at SCISTW– Effluent Tunnel and Disinfection Facilities”.
- 1.5 Cinotech Consultants Limited (Cinotech) was commissioned by Chun Wo – CEC Joint Venture to undertake the Environmental Monitoring and Audit (EM&A) works for the Project and was appointed as the Environmental Team (ET) of the Project under Condition 2.1 of the Environmental Permit (EP).
- 1.6 This Baseline Environmental Monitoring Report is prepared by Cinotech for the Project under EP (Permit No. EP-322/2008/E).

### **Purpose of the Report**

- 1.7 The purpose of the Report is to set out baseline levels for the air quality and noise in accordance with the EM&A Manual. These baseline levels will be used as the basis for compliance check during the impact monitoring in construction stage of the Project. This Report presents the locations, equipment, period, methodology, results and observations for the air and noise monitoring during the baseline period.

## 2 AIR QUALITY

### Monitoring Requirements

- 2.1 In accordance with the EM&A Manual, baseline air quality monitoring should be conducted for a period of fourteen days, in terms of 1-hour and 24-hour Total Suspended Particulates (TSP). Monitoring of 1-hour TSP was carried out three times per day while 24-hour TSP was conducted for 14 consecutive days.

### Monitoring Equipment

- 2.2 Both 1-hour TSP monitoring and continuous 24-hour TSP air quality monitoring was performed using High Volume Sampler (HVS) associated with equipment and shelter complied with the specifications stipulated in the EM&A Manual. **Table 2.1** summarizes the equipment used in the baseline air quality monitoring programme. Copies of the calibration certificates for the equipment are presented in **Appendix A**.

**Table 2.1 Air Quality Monitoring Equipment**

Equipment	Model and Make	Qty.
HVS	Tisch; Model no. TE-5170	1
Laser Dust Monitor	Sibata; Model no. LD3B	2

### Monitoring Locations

- 2.3 Baseline air quality monitoring was conducted at one monitoring station, AM9, as shown in **Figure 2**. **Table 2.2** describes the locations of the air quality monitoring stations.

**Table 2.2 Air Quality Monitoring Location**

Monitoring Stations	Location of Measurement
AM9 (1-hr & 24-hr TSP)	Work Site Boundary (Near Ngong Shuen Chau Barracks Group 2)

### Monitoring Parameters, Frequency and Duration

- 2.4 **Table 2.3** summarizes the monitoring parameters, monitoring period and frequencies of baseline air quality monitoring.

**Table 2.3 Frequency and Parameters of Baseline Air Quality Monitoring**

Monitoring Stations	Parameter	Period	Frequency
AM9	24-hour TSP	24 hours	Daily for 14 Days
	1-hour TSP	1 hour between 0700-1900	3 times/day for 14 Days

---

## Monitoring Methodology and QA/QC Procedure

- 2.5 Weather data was recorded during the baseline period and is shown in **Appendix D**. The air temperature, precipitation and the relative humidity data was obtained and make reference from the Hong Kong Observatory Webpage (Tsing Yi weather station). The general weather conditions (i.e. sunny, cloudy or rainy) were recorded by the field staff's observation on the monitoring day.

### *1-hour TSP Monitoring*

#### Measuring Procedures

- 2.6 The measuring procedures of the 1-hour dust meters were in accordance with the Manufacturer's Instruction Manual as follows:

- Pull up the air sampling inlet cover
- Change the Mode 0 to BG with once
- Push Start/Stop switch once
- Turn the knob to SENSI.ADJ and press it
- Push Start/Stop switch once
- Return the knob to the position MEASURE slowly
- Push the timer set switch to set measuring time
- Remove the cap and make a measurement

#### Maintenance/Calibration

- 2.7 The following maintenance/calibration was required for the direct dust meters:
- Check the meter at a 3-month interval and calibrate the meter at a 1-year interval throughout all stages of the air quality monitoring.

### *24-hour TSP Monitoring*

#### Instrumentation

- 2.8 High Volume Sampler (HVS) completed with appropriate sampling inlets was employed for air quality monitoring. Each sampler comprised of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complies with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50).

#### *HVS Installation*

- 2.9 The following guidelines were adopted during the installation of HVS:
- Sufficient support was provided to secure the samplers against gusty wind.
  - No two samplers were placed less than 2 meters apart.
  - The distance between the sampler and an obstacle, such as buildings, was at least twice the height that the obstacle protrudes above the sampler.
  - A minimum of 2 meters of separation from walls, parapets and penthouses was required for rooftop samples.



- A minimum of 2 meters separation from any supporting structure, measured horizontally was required.
- No furnaces or incineration flues were nearby.
- Airflow around the sampler was unrestricted.
- The samplers were more than 20 meters from the drip line.
- Any wire fence and gate, to protect the sampler, should not cause any obstruction during monitoring.

### ***Filters Preparation***

- 2.10 Fiberglass filters (G810) were used [Note: these filters have a collection efficiency of larger than 99% for particles of 0.3 mm diameter]. A HOKLAS accredited laboratory, Wellab Ltd., was responsible for the preparation of 24-hr conditioned and pre-weighed filter papers for Cinotech's monitoring team.
- 2.11 All filters, which were prepared by Wellab Ltd., were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than  $\pm 3$  °C; the relative humidity (RH) was < 50% and not variable by more than  $\pm 5$ %. A convenient working RH was 40%.
- 2.12 Wellab Ltd. has a comprehensive quality assurance and quality control programme.

### ***Operating/Analytical Procedures***

- 2.13 Operating/analytical procedures for the air quality monitoring were highlighted as follows:
- Prior to the commencement of the dust sampling, the flow rate of the HVS was properly set (between 1.1 m<sup>3</sup>/min. and 1.4 m<sup>3</sup>/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.
  - The power supply was checked to ensure the sampler worked properly.
  - On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air quality monitoring station.
  - The filter holding frame was then removed by loosening the four nuts and carefully a weighted and conditioned filter was centered with the stamped number upwards, on a supporting screen.
  - The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
  - The shelter lid was closed and secured with the aluminum strip.
  - The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
  - After sampling, the filter was removed and sent to the Wellab Ltd. for weighing. The elapsed time was also recorded.
  - Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than  $\pm 3$ °C; the relative humidity (RH) should be < 50% and not

vary by more than  $\pm 5\%$ . A convenient working RH is 40%. Weighing results were returned to Cinotech for further analysis of TSP concentrations collected by each filter.

### *Maintenance/Calibration*

2.14 The following maintenance/calibration was required for the HVS:

- The high volume motors and their accessories were properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking were made to ensure that the equipment and necessary power supply are in good working condition.
- The HVS was calibrated (five point calibration) using Calibration Kit prior to the commencement of the baseline monitoring.

### **Results and Observations**

#### *Results*

2.15 Baseline air quality monitoring was conducted at one monitoring stations, namely AM9, between 30 September 2011 to 14 October 2011 (suspended on 3 October 2011 due to Typhoon Signal No.3 and adverse weather condition). The detailed monitoring schedule is shown in **Appendix E**.

2.16 The monitoring data are summarized in **Tables 2.4 and 2.5**. All monitoring data of 1-hour and 24-hour TSP are presented in **Appendices B1 and B3** respectively. Graphical presentations of the 1-hour TSP and 24-hour TSP results are shown in **Appendices B2 and B4** respectively. Detailed weather conditions during the baseline monitoring period are shown in **Appendix D**.

**Table 2.4 Summary of Baseline 1-hour TSP Monitoring Results**

Monitoring Station	Average TSP Concentration, $\mu\text{g}/\text{m}^3$ (Range)
AM9	104.2 (49.5-152.3)

**Table 2.5 Summary of Baseline 24-hour TSP Monitoring Results**

Monitoring Station	Average TSP Concentration, $\mu\text{g}/\text{m}^3$ (Range)
AM9	59.3 (34.2-94.9)

#### *Observations*

2.17 The weather was generally cloudy or fine during the baseline monitoring period. The weather conditions were recorded by our field staff during the replacing of filter paper and the maintenance/checking of the Sound Level Meter respectively.

- 2.18 During the baseline monitoring, no major dust generating activity was identified in the vicinity of the monitoring station.
- 2.19 No influencing factor that may affect the monitoring results could be identified. Therefore, the baseline air quality monitoring results are considered representative to the ambient air quality conditions of the sensitive receiver.

### Action and Limit Levels

- 2.20 The Action and Limit Levels have been set in accordance with the EM&A Manual, which are summarized in **Table 2.6**.

**Table 2.6 Guidelines for Establishing Action and Limit Levels for Air Quality**

Parameters	Action Level	Limit Level
1-hour TSP	<ul style="list-style-type: none"> <li>If <math>BL \leq 384 \mu\text{g}/\text{m}^3</math>, <math>AL = (BL \times 1.3 + LL) \div 2</math></li> <li>If <math>BL &gt; 384 \mu\text{g}/\text{m}^3</math>, <math>AL = LL</math></li> </ul>	500 $\mu\text{g}/\text{m}^3$
24-hour TSP	<ul style="list-style-type: none"> <li>If <math>BL \leq 200 \mu\text{g}/\text{m}^3</math>, <math>AL = (BL \times 1.3 + LL) \div 2</math></li> <li>If <math>BL &gt; 200 \mu\text{g}/\text{m}^3</math>, <math>AL = LL</math></li> </ul>	260 $\mu\text{g}/\text{m}^3$

**Remarks:**

BL – Baseline Level (Average); AL – Action Level; LL – Limit Level

- 2.21 Following the above guidelines, the Action and Limit Levels for air quality impact monitoring have been set, as presented in **Tables 2.7 and 2.8**. According to the EM&A Manual, baseline checking of ambient TSP levels shall be carried out every six months at each monitoring location when no dusty works activities are in operation. If changes in the ambient conditions have arisen, a repeat of the baseline monitoring may be carried out to update the baseline levels and air quality criteria.

**Table 2.7 Action and Limit Levels for 1-hour TSP**

Location	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
AM9	318	500

**Table 2.8 Action and Limit Levels for 24-hour TSP**

Location	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
AM9	169	260

### 3 NOISE

#### Monitoring Requirements

- 3.1 Baseline noise monitoring was conducted for 14 days at the designated monitoring station, NM7, from 26 September 2011 to 12 October 2011 (suspended on 28, 29 September 2011 and 3 October 2011 due to adverse weather condition). Logger function check and calibration was carried out according to manufacturer's recommendations. The equipment was checked and inspected not less than once every two days after the set up at monitoring station.

#### Monitoring Locations

- 3.2 **Table 3.1** gives the location of the monitoring station, which is also shown in **Figure 2**.

**Table 3.1 Location of Noise Monitoring Station**

Monitoring Station	Location of Measurement
NM7	Open Area near Naval Base Barrack

#### Monitoring Equipment

- 3.3 Integrating Sound Level Meter was used for noise monitoring. The meter is a Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level ( $L_{eq}$ ) and percentile sound pressure level ( $L_x$ ) and also complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. **Table 3.2** summarizes the noise monitoring equipment being used. Copies of the calibration certificates for the sound level meter and calibrator are attached in **Appendix A**.

**Table 3.2 Noise Monitoring Equipment**

Equipment	Model and Make	Quantity
Integrating Sound Level Meter	SVANTEK, Model no: SVAN 955	1
Calibrator	SVANTEK, Model no: SV 30A	1

#### Monitoring Parameters, Frequency and Duration

- 3.4 In accordance with the EM&A Manual, baseline noise for the A-weighted levels  $L_{eq}$ ,  $L_{10}$  and  $L_{90}$  was recorded. Data obtained from the baseline noise monitoring was processed and presented according to the following periods:
- Daytime: 0700-1900 hours on normal weekdays
  - Evening-time: 1900-2300 hours on normal weekdays
  - Holiday-time: 0700-2300 hours on general holidays including Sundays
  - Night-time: 2300-0700 hours of all days

3.5 The frequency and parameters of noise measurement are presented in **Table 3.3**.

**Table 3.3 Frequency and Parameters of Noise Monitoring**

Time Period	Duration, min	Parameter
Daytime on normal weekdays (0700-1900 hrs)	30	L <sub>eq</sub> , L <sub>10</sub> & L <sub>90</sub>
Evening time on normal weekdays (1900-2300 hrs)	5	
Holidays including Sundays (0700-2300 hrs)		
All days during the night-time (2300-0700 hrs)		

### Monitoring Methodology and QA/QC Procedures

3.6 Weather data was recorded during the baseline period and is presented in **Appendix D**. Air temperature and relative humidity data was obtained from the Hong Kong Observatory Webpage. General weather conditions (i.e. sunny, cloudy or rainy), which are given in **Appendix D**, were recorded by field observation during equipment checking and estimated according to weather data from the Hong Kong Observatory.

### Field Monitoring

3.7 The monitoring procedures are as follows:

- The Sound Level Meter was set on a tripod at a height of 1.2 m above the ground.
- For free field measurement, the meter was positioned away from any nearby reflective surfaces. All records for free field noise levels were adjusted with a correction of +3 dB(A).
- The battery condition was checked to ensure good functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
  - frequency weighting : A
  - time weighting : Fast
  - measurement time : 5 minutes (Leq (30-min) would be determined for daytime noise by calculating the logarithmic average of six Leq (5min) data.)
- Prior to and after noise measurement, the meter was calibrated using the calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement is more than 1.0 dB, the measurement was considered invalid and repeat of noise measurement was required after re-calibration or repair of the equipment.
- Noise monitoring was carried out continuously for 24 hours during the 14 days baseline monitoring period. Monitoring data was recorded and stored automatically within the sound level meter system. At the end of the monitoring period, noise levels in term of L<sub>eq</sub>, L<sub>90</sub> and L<sub>10</sub> were recorded. In addition, site conditions and noise sources were recorded when the equipment were checked and inspected every two days.

- All the monitoring data within the sound level meter system was downloaded through the computer software, and all these data was checked and reviewed within the computer.

### ***Maintenance and Calibration***

3.8 Maintenance and Calibration procedures were as follows:

- The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- The sound level meter and calibrator were checked and calibrated at yearly intervals.

### **Results and Observations**

#### ***Results***

- 3.9 Baseline noise monitoring was conducted at the designated stations and alternative station in the period from 26 September 2011 to 12 October 2011 (suspended on 28, 29 September 2011 and 3 October 2011 due to adverse weather condition). The monitoring schedule is shown in **Appendix E**.
- 3.10 The baseline noise monitoring results ( $L_{eq}$ ) are summarized in **Table 3.4**. Supplementary information ( $L_{10}$  and  $L_{90}$ ) obtained during the baseline monitoring are provided in **Table 3.5**. All baseline noise monitoring results are given in **Appendices C1 to C3**. Graphical presentations of the data are provided in **Appendix C4**. Weather conditions recorded during the baseline monitoring period are shown in **Appendix D**.

**Table 3.4 Summary of Baseline Noise Levels**

Period (Measurement Duration)	Monitoring Station	Baseline Noise Levels ( $L_{eq}$ )		
		Mean	Max	Min
Daytime 0700-1900 hrs on normal weekdays (30 min)	NM 7	65.9	68.7	60.7
Evening-time 1900-2300 hrs on normal weekdays (5 min) and Holidays 0700-2300 hrs (5 min)		63.4	73.7	57.3
Night-time 2300-0700 hrs of the next day (5 min)		59.7	65.8	52.1

**Table 3.5 Summary of Supplementary Information ( $L_{10}$  &  $L_{90}$ ) Obtained during Baseline Noise Monitoring**

Period (Measurement Duration)	Monitoring Station	Supplementary Information					
		$L_{10}$			$L_{90}$		
		Mean	Max	Min	Mean	Max	Min
Daytime 0700-1900 hrs on normal weekdays (5 min)	NM 7	68.1	71.6	62.8	61.5	64.7	51.2
Evening-time 1900-2300 hrs on normal weekdays (5 min) and Holidays 0700-2300 hrs (5 min)		65.6	70.9	59.2	59.4	64.7	54.7
Night-time 2300-0700 hrs of the next day (5 min)		61.8	69.8	53.0	56.4	60.9	47.0

**Observations**

- 3.11 The weather was mainly cloudy or fine referring to the observations from the field staff during the baseline monitoring period. Nevertheless, rain, which might influence the noise measurement results, was recorded according to the information from Hong Kong Observatory.
- 3.12 During the baseline monitoring period, no construction activity was undertaken in the vicinity of the monitoring station.
- 3.13 The major noise source at the monitoring station was the traffic noise from the Container Port Road South closed to the site boundary of the Project.

**Action and Limit Levels**

- 3.14 The Action and Limit Levels were established in accordance with the EM&A Manual. The baseline noise level shall be referenced during the compliance check in the impact noise monitoring period. **Table 3.6** presents the Action and Limit Levels for construction noise.

**Table 3.6 Action Limit Levels for Noise during Construction Period**

<b>Time Period</b>	<b>Action Level</b>	<b>Limit Level</b>
0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A)



#### **4 REVISIONS FOR INCLUSION IN THE EM&A MANUAL**

- 4.1 The baseline environmental monitoring was conducted according to the EM&A Manual for air quality and noise.
- 4.2 The monitoring methodology, parameters monitored, and monitoring locations are all in line with the EM&A Manual.

#### **5 COMMENTS AND CONCLUSIONS**

- 5.1 The baseline air quality was conducted from 30 September 2011 to 14 October 2011 (suspended on 3 October 2011 due to Typhoon Signal No.3 and adverse weather condition) and the baseline noise monitoring was conducted from 26 September 2011 to 12 October 2011(suspended on 28, 29 September 2011 and 3 October 2011 due to adverse weather condition). The monitoring results were used to establish the ambient air quality and noise levels at the sensitive receiver prior to the construction of the Project.
- 5.2 The baseline air quality and noise level monitoring were carried out in accordance with the EM&A Manual, in respect of the methodology, equipment, location and monitoring parameters.
- 5.3 The baseline air quality (1-hour and 24-hour TSP levels) monitoring was conducted at one designated location, AM9. During the monitoring, no major construction work or dust generating activities were undertaken in the vicinity of the monitoring station. The baseline air quality monitoring results are considered representative to the ambient air quality conditions of the respective sensitive receiver. The Action and Limit Levels for the air quality were established based on the baseline monitoring results.
- 5.4 Baseline noise monitoring was conducted at one designated location, NM7. The major noise source at the monitoring station was the traffic noise from the Container Port Road South closed to the site boundary of the Project. The noise measurement data was reviewed and processed. The baseline noise monitoring results are considered representative to the ambient noise level of the sensitive receiver.

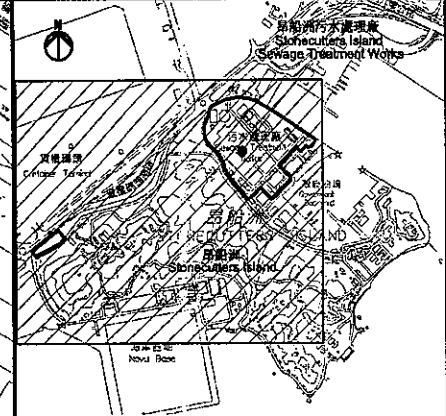
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## FIGURES

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**KEY PLAN**

**LEGEND:**

- BOUNDARY OF SCISTW
- ALIGNMENT OF EFFLUENT TUNNEL

0	ISSUE FOR CONSTRUCTION	PW	06/11
Rev	Description	By	Date

Consultant  
**ARUP** 奧雅納工程顧問  
 Ove Arup & Partners Hong Kong Limited

Project title  
 Contract No. DC/2009/18  
 Harbour Area Treatment Scheme Stage 2A-  
 Upgrading Works at  
 Stonecutters Island Sewage Treatment Works-  
 Effluent Tunnel and Disinfection Facilities

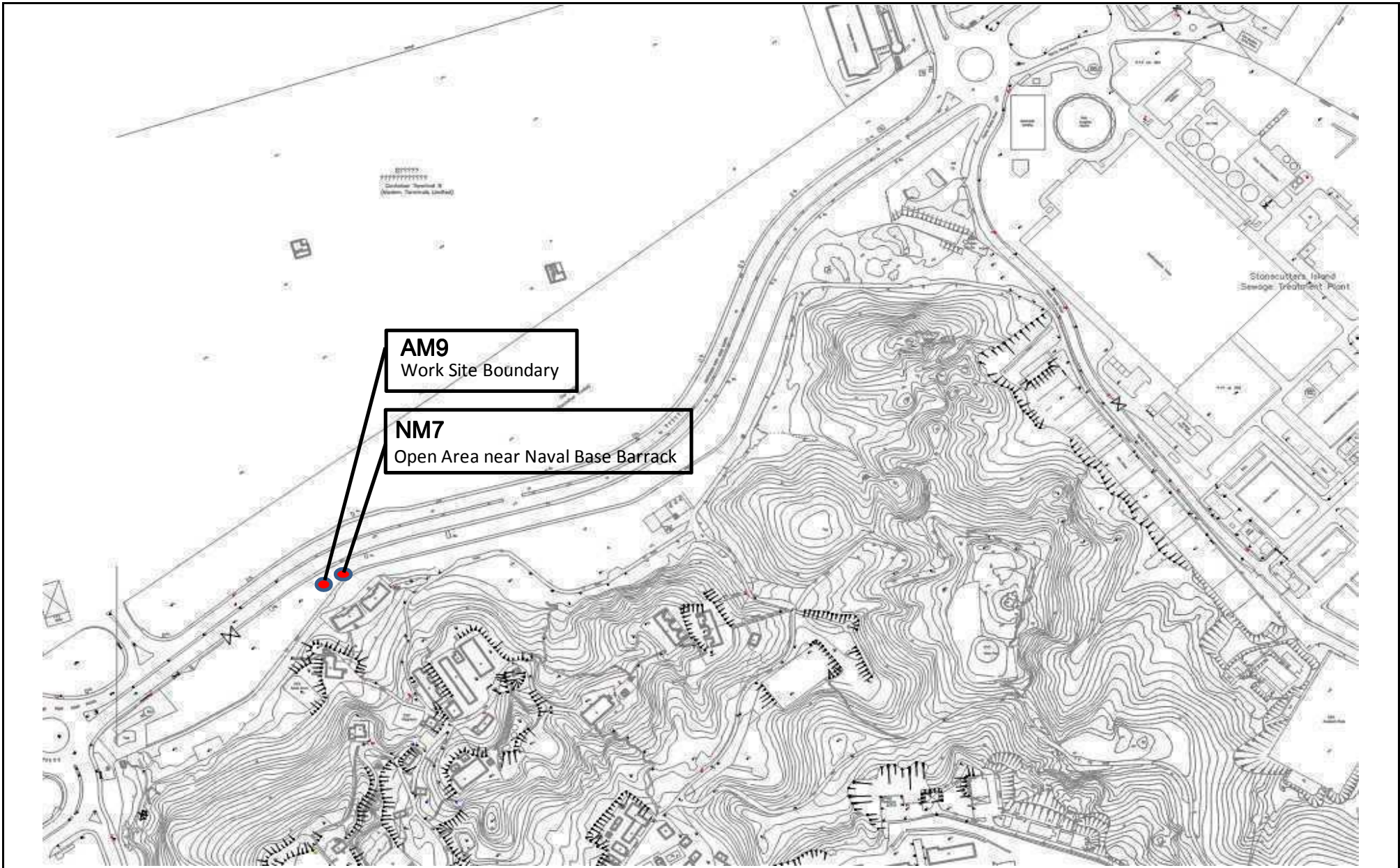
Drawing title  
**GENERAL LAYOUT  
 (SHEET 1)**

Drawing no. <b>24888/ETF/0021</b>		Rev. <b>0</b>	
Drawn WM	Date 08/10	Checked PW	Approved DP
Scale 1:2000 @A1		Status <b>WORKING</b>	

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 GOVERNMENT OF THE  
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 SPECIAL ADMINISTRATIVE REGION

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Title	Contract No. DC/2009/18	Scale	N.T.S	Project No.	MA11043	CINOTECH
	HATS 2A -Upgrading Works at Stonecutters Island Sewage Treatment Works - Effluent Tunnel and Disinfection Facilities	Date	10/2011	Figure	2	
Locations of Baseline Air Quality and Noise Monitoring Stations						

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**APPENDIX A**  
**Copies of Calibration Certificates for**  
**Monitoring Equipment**

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# High-Volume TSP Sampler

## 5-POINT CALIBRATION DATA SHEET

**CINOTECH**

File No. MA11043/63/0001

Project No. AM9 - Work Site Boundary (Near Ngong Shuen Chau Barracks Group 2)  
 Operator: WK  
 Date: 27-Sep-11 Next Due Date: 26-Nov-11  
 Equipment No.: A-01-63 Serial No. 2356

Ambient Condition			
Temperature, Ta (K)	302	Pressure, Pa (mmHg)	758.5

Orifice Transfer Standard Information					
Equipment No.:	A-04-01	Slope, mc	0.0462	Intercept, bc	-0.0163
Last Calibration Date:	11-Oct-10	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	9-Oct-11	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler					
Calibration Point	Orifice			HVS	
	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)] <sup>1/2</sup>	Qstd (CFM) X - axis	ΔW (HVS), in. of oil	[ΔW x (Pa/760) x (298/Ta)] <sup>1/2</sup> Y-axis
1	12.4	3.49	75.99	7.7	2.75
2	11.2	3.32	72.24	6.9	2.61
3	8.1	2.82	61.49	5.1	2.24
4	5.2	2.26	49.33	3.0	1.72
5	3.0	1.72	37.56	1.9	1.37

**By Linear Regression of Y on X**  
 Slope, mw = 0.0367 Intercept, bw : -0.0366  
 Correlation coefficient\* = 0.9985  
 \*If Correlation Coefficient < 0.990, check and recalibrate.

**Set Point Calculation**

From the TSP Field Calibration Curve, take Qstd = 43 CFM  
 From the Regression Equation, the "Y" value according to

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; W = (mw x Qstd + bw)<sup>2</sup> x (760 / Pa) x (Ta / 298) = 2.41

Remarks: \_\_\_\_\_

Conducted by: Wk Tang Signature: [Signature] Date: 27/9/11  
 Checked by: Ar Signature: [Signature] Date: 27 September 2011

**TEST REPORT**

**APPLICANT:** Cinotech Consultants Limited  
Room 1710, Technology Park,  
18 On Lai Street,  
Shatin, NT, Hong Kong

Test Report No.:	C/110901/2
Date of Issue:	2011-09-03
Date Received:	2011-09-01
Date Tested:	2011-09-01
Date Completed:	2011-09-03
Next Due Date:	2011-11-02

**ATTN:** Mr. Henry Leung

Page: 1 of 1

**Certificate of Calibration**

**Item for Calibration:**

Description	: Laser Dust Monitor
Manufacturer	: Sibata
Model No.	: LD-3B
Serial No.	: 853944
Sensitivity (K) 1 CPM	: 0.001 mg/m <sup>3</sup>
Sen. Adjustment Scale Setting	: 685 CPM
Equipment No.	: A-02-04

**Test Conditions:**

Room Temperature	: 22 degree Celsius
Relative Humidity	: 66%

**Test Specifications & Methodology:**

1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.
2. In-house method in according to the instruction manual: The Laser Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Laser Dust Monitor and High Volume Sampler.

**Results:**

Correlation Factor (CF)	0.0031
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**PREPARED AND CHECKED BY:**

For and On Behalf of **WELLAB Ltd.**

  
**PATRICK TSE**  
Laboratory Manager

**TEST REPORT**

**APPLICANT:** Cinotech Consultants Limited  
Room 1710, Technology Park,  
18 On Lai Street,  
Shatin, NT, Hong Kong

Test Report No.:	C/110901/1
Date of Issue:	2011-09-03
Date Received:	2011-09-01
Date Tested:	2011-09-01
Date Completed:	2011-09-03
Next Due Date:	2011-11-02

**ATTN:** Mr. Henry Leung

Page: 1 of 1

**Certificate of Calibration**

**Item for Calibration:**

Description	: Laser Dust Monitor
Manufacturer	: Sibata
Model No.	: LD-3B
Serial No.	: 014750
Sensitivity (K) 1 CPM	: 0.001 mg/m <sup>3</sup>
Sen. Adjustment Scale Setting	: 790 CPM
Equipment No.	: A-02-06

**Test Conditions:**

Room Temperature	: 22 degree Celsius
Relative Humidity	: 66%

**Test Specifications & Methodology:**

1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.
2. In-house method in according to the instruction manual: The Laser Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Laser Dust Monitor and High Volume Sampler.

**Results:**

Correlation Factor (CF)	0.0031
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*PREPARED AND CHECKED BY:*

For and On Behalf of **WELLAB Ltd.**

  
**PATRICK TSE**  
Laboratory Manager



### TEST REPORT

**APPLICANT:** Cinotech Consultants Limited  
Room 1710, Technology Park,  
18 On Lai Street,  
Shatin, NT, Hong Kong

Test Report No.:	C/N/110117/1
Date of Issue:	2011-01-17
Date Received:	2011-01-14
Date Tested:	2011-01-14
Date Completed:	2011-01-17
Next Due Date:	2012-01-16

**ATTN:** Mr. Henry Leung

Page: 1 of 1

### Certificate of Calibration

**Item for calibration:**

Description	: 'SVANTEK' Integrating Sound Level Meter
Manufacturer	: SVANTEK
Model No.	: SVAN 955
Serial No.	: 14302
Microphone No.	: 17204
Equipment No.	: N-08-04

**Test conditions:**

Room Temperature	: 22 degree Celsius
Relative Humidity	: 58%

**Test Specifications:**

Performance checking at 94 and 114 dB

**Methodology:**

In-house method, according to manufacturer instruction manual

**Results:**

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

*PREPARED AND CHECKED BY:*

For and On Behalf of **WELLAB Ltd.**



**PATRICK TSE**

Laboratory Manager

## TEST REPORT

**APPLICANT:** Cinotech Consultants Limited  
Room 1710, Technology Park,  
18 On Lai Street,  
Shatin, NT, Hong Kong

Test Report No.:	C/N/110923/2
Date of Issue:	2011-09-24
Date Received:	2011-09-23
Date Tested:	2011-09-23
Date Completed:	2011-09-24
Next Due Date:	2012-09-23

**ATTN:** Mr. Henry Leung

Page: 1 of 1

### Item for calibration:

Description	: Acoustical Calibrator
Manufacturer	: SVANTEK
Model No.	: SV30A
Serial No.	: 10929
Equipment No.	: N-09-01

### Test conditions:

Room Temperatre	: 23 degree Celsius
Relative Humidity	: 59%

### Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

### Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

*PREPARED AND CHECKED BY:*

For and On Behalf of **WELLAB Ltd.**



**PATRICK TSE**

Laboratory Manager

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**APPENDIX B1**  
**1-hour TSP Baseline Monitoring Results**

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## Appendix B1 - 1-hour TSP Monitoring Results

<b>Location AM9 - Work Site Boundary (Near Ngong Shuen Chau Barracks Group 2)</b>			
Date	Time	Weather	Particulate Concentration ( $\mu\text{g}/\text{m}^3$ )
30-Sep-11	11:00	Cloudy	130.6
	12:00	Cloudy	121.8
	13:00	Cloudy	120.6
1-Oct-11	9:30	Cloudy	75.8
	10:30	Cloudy	72.9
	11:30	Cloudy	109.3
2-Oct-11	14:00	Cloudy	57.4
	15:00	Cloudy	78.2
	16:00	Cloudy	85.1
4-Oct-11	9:10	Fine	49.5
	10:10	Fine	53.7
	11:10	Fine	59.7
5-Oct-11	11:00	Fine	51.9
	12:00	Fine	65.0
	13:00	Fine	70.2
6-Oct-11	13:10	Fine	121.6
	14:10	Fine	114.2
	15:10	Fine	116.1
7-Oct-11	9:00	Fine	132.3
	10:00	Fine	151.9
	11:00	Fine	136.5
8-Oct-11	9:00	Fine	138.0
	10:00	Fine	121.3
	11:00	Fine	141.3
9-Oct-11	9:00	Sunny	55.0
	10:00	Sunny	68.6
	11:00	Sunny	71.3
10-Oct-11	13:00	Cloudy	71.2
	14:00	Cloudy	102.7
	15:00	Cloudy	86.8
11-Oct-11	9:10	Cloudy	136.8
	10:10	Cloudy	117.1
	11:10	Cloudy	152.3
12-Oct-11	9:00	Cloudy	138.0
	10:00	Cloudy	108.7
	11:00	Cloudy	131.4
13-Oct-11	14:00	Cloudy	136.7
	15:00	Cloudy	121.1
	16:00	Cloudy	81.7
14-Oct-11	13:00	Cloudy	138.8
	14:00	Cloudy	136.6
	15:00	Cloudy	148.7
		Min	49.5
		Max	152.3
		Average	104.2

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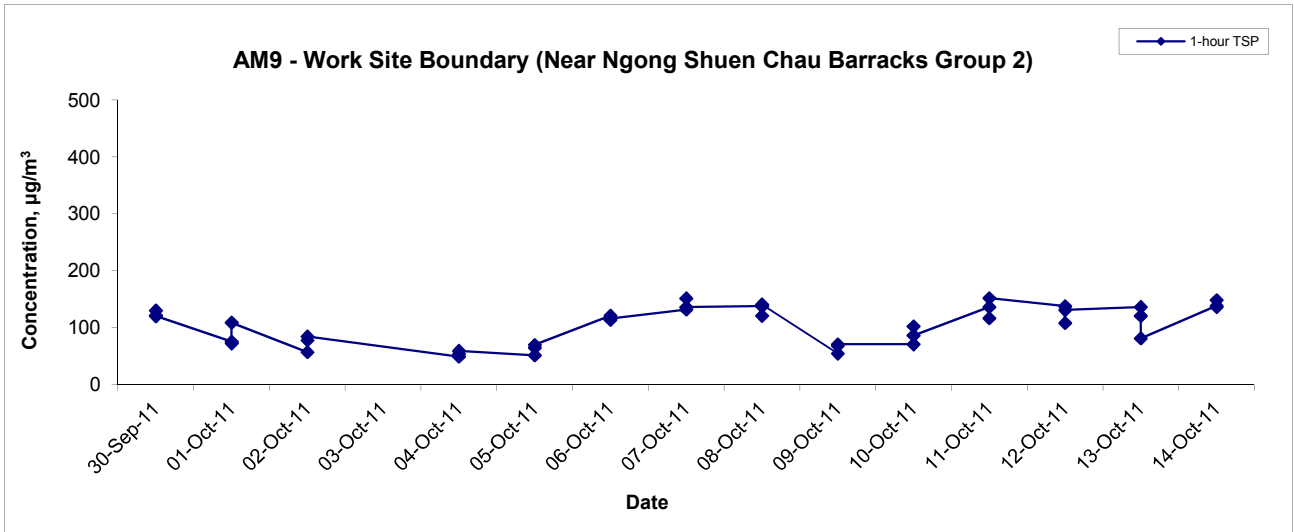
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**APPENDIX B2**  
**Graphical Presentation of Baseline 1-hour**  
**TSP Levels**

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### 1-hour TSP Concentration Levels



Title Contract No. DC/2009/18 HATS Stage 2A – Upgrading Works at Stonecutters Island Sewage Treatment Works – Effluent Tunnel and Disinfection Facilities Graphical Presentation of 1-hour TSP Baseline Monitoring Results	Scale N.T.S	Project No. MA11043	
	Date Oct 11	Appendix B2	

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**APPENDIX B3**  
**24-hour TSP Baseline Monitoring Results**

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## Appendix B3 - 24-hour TSP Baseline Monitoring Results

### Location AM9 - Work Site Boundary (Near Ngong Shuen Chau Barracks Group 2)

Start Date	Weather Condition	Air Temp. (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Elapse Time		Sampling Time(hrs.)	Flow Rate (m <sup>3</sup> /min.)		Av. flow (m <sup>3</sup> /min)	Total vol. (m <sup>3</sup> )	Conc. (µg/m <sup>3</sup> )
				Initial	Final		Initial	Final		Initial	Final			
30-Sep-11	Cloudy	301.3	760.3	3.3817	3.5224	0.1407	15.0	39.0	24.0	1.22	1.22	1.22	1751.8	80.3
1-Oct-11	Cloudy	299.5	761.5	3.4233	3.4835	0.0602	39.0	63.0	24.0	1.22	1.22	1.22	1758.3	34.2
2-Oct-11	Cloudy	300.4	760.1	3.3754	3.4576	0.0822	63.0	87.0	24.0	1.22	1.22	1.22	1754.1	46.9
4-Oct-11	Fine	295.4	762.0	3.3845	3.4726	0.0881	111.0	135.0	24.0	1.23	1.23	1.23	1770.6	49.8
5-Oct-11	Fine	297.9	762.4	3.3750	3.4941	0.1191	135.0	159.0	24.0	1.23	1.22	1.22	1763.8	67.5
6-Oct-11	Fine	297.1	764.1	3.3897	3.5359	0.1462	159.0	183.0	24.0	1.23	1.23	1.23	1768.1	82.7
7-Oct-11	Fine	300.4	763.1	3.4307	3.5315	0.1008	183.0	207.0	24.0	1.22	1.22	1.22	1757.5	57.4
8-Oct-11	Fine	299.1	764.8	3.4337	3.5159	0.0822	207.0	231.0	24.0	1.22	1.22	1.22	1763.1	46.6
9-Oct-11	Sunny	299.4	763.7	3.3773	3.5004	0.1231	231.0	255.0	24.0	1.22	1.22	1.22	1761.0	69.9
10-Oct-11	Cloudy	300.4	762.2	3.3481	3.5148	0.1667	255.0	279.0	24.0	1.22	1.22	1.22	1756.5	94.9
11-Oct-11	Cloudy	299.3	763.1	3.3390	3.4129	0.0739	279.0	303.0	24.0	1.22	1.22	1.22	1760.6	42.0
12-Oct-11	Cloudy	297.9	763.0	3.3142	3.4054	0.0912	303.0	327.0	24.0	1.23	1.23	1.23	1764.5	51.7
13-Oct-11	Cloudy	298.4	761.8	3.3324	3.4418	0.1094	327.0	351.0	24.0	1.22	1.22	1.22	1761.7	62.1
14-Oct-11	Cloudy	298.4	761.8	3.3874	3.4666	0.0792	351.0	375.0	24.0	1.22	1.22	1.22	1761.7	45.0
													Min	34.2
													Max	94.9
													Average	59.3



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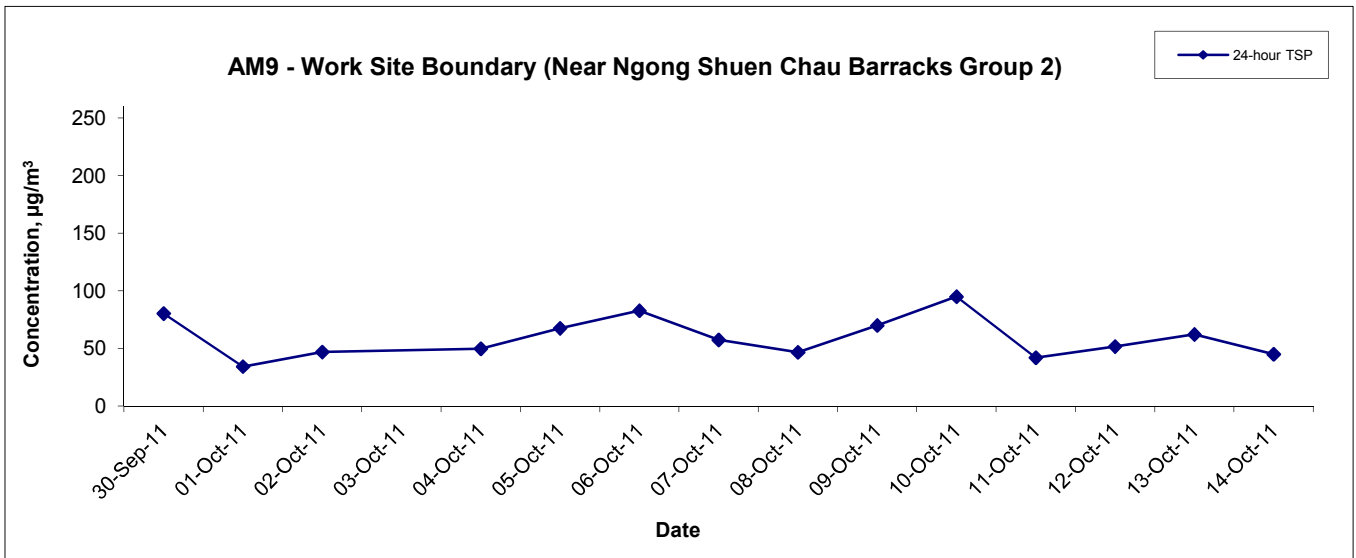
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**APPENDIX B4**  
**Graphical Presentation of Baseline 24-hour**  
**TSP Levels**

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### 24-hour TSP Concentration Levels



Title Contract No. DC/2009/18 HATS Stage 2A – Upgrading Works at Stonecutters Island Sewage Treatment Works – Effluent Tunnel and Disinfection Facilities Graphical Presentation of 24-hour TSP Baseline Monitoring Results	Scale N.T.S	Project No. MA11043	
	Date Oct 11	Appendix B4	

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**APPENDIX C1**  
**Day-time 07:00-19:00hrs Baseline Noise**  
**Monitoring Data**

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**Appendix C1**

**Day-time Noise Level at Open Area near Naval Base Barrack\_NM7**

Date	dB(A)						
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30-min)	L <sub>10</sub> (Average)	L <sub>90</sub> (Average)
26-Sep-11	7:00	64.7	66.5	61.0	65.0	67.1	60.3
26-Sep-11	7:05	65.7	68.1	61.5			
26-Sep-11	7:10	65.3	68.8	57.7			
26-Sep-11	7:15	65.1	67.4	62.1			
26-Sep-11	7:20	63.9	66.1	61.1			
26-Sep-11	7:25	65.1	65.6	58.4	65.6	68.3	57.2
26-Sep-11	7:30	64.0	65.9	61.0			
26-Sep-11	7:35	67.0	69.0	61.0			
26-Sep-11	7:40	65.6	66.6	57.6			
26-Sep-11	7:45	66.2	68.8	59.5			
26-Sep-11	7:50	64.0	68.1	54.5	65.6	67.3	54.9
26-Sep-11	7:55	66.2	71.2	49.7			
26-Sep-11	8:00	65.9	70.8	49.3			
26-Sep-11	8:05	64.2	66.5	53.3			
26-Sep-11	8:10	66.4	67.1	57.2			
26-Sep-11	8:15	66.9	67.6	56.3	65.9	66.7	60.8
26-Sep-11	8:20	65.9	65.9	54.3			
26-Sep-11	8:25	63.0	65.9	59.0			
26-Sep-11	8:30	64.1	65.9	60.5			
26-Sep-11	8:35	67.1	64.9	58.4			
26-Sep-11	8:40	65.4	65.7	62.1	67.0	68.6	60.6
26-Sep-11	8:45	66.7	67.2	63.1			
26-Sep-11	8:50	65.5	68.6	60.8			
26-Sep-11	8:55	66.1	67.7	60.0			
26-Sep-11	9:00	65.1	65.6	60.2			
26-Sep-11	9:05	66.1	69.1	60.0	65.3	65.7	59.4
26-Sep-11	9:10	64.7	67.6	60.0			
26-Sep-11	9:15	69.1	72.5	58.7			
26-Sep-11	9:20	68.2	70.1	65.6			
26-Sep-11	9:25	66.8	66.6	59.3			
26-Sep-11	9:30	66.2	62.5	52.2	67.1	69.4	60.1
26-Sep-11	9:35	64.9	67.3	58.0			
26-Sep-11	9:40	66.1	63.3	59.3			
26-Sep-11	9:45	65.5	69.5	62.9			
26-Sep-11	9:50	64.5	64.9	63.1			
26-Sep-11	9:55	64.0	66.9	61.0	65.8	69.4	51.2
26-Sep-11	10:00	68.1	69.9	60.0			
26-Sep-11	10:05	65.8	67.9	59.1			
26-Sep-11	10:10	68.9	71.3	59.4			
26-Sep-11	10:15	64.5	67.0	60.2			
26-Sep-11	10:20	67.3	69.5	63.3	65.8	69.4	51.2
26-Sep-11	10:25	66.6	71.0	58.8			
26-Sep-11	10:30	65.5	69.5	54.3			
26-Sep-11	10:35	67.4	71.9	52.8			
26-Sep-11	10:40	63.6	68.0	51.1			
26-Sep-11	10:45	65.4	66.5	47.4	65.8	69.4	51.2
26-Sep-11	10:50	66.9	70.7	51.4			
26-Sep-11	10:55	64.7	69.6	50.3			

Date	dB(A)						
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30-min)	L <sub>10</sub> (Average)	L <sub>90</sub> (Average)
26-Sep-11	11:00	65.3	69.3	50.4	66.6	70.0	54.3
26-Sep-11	11:05	67.5	71.5	52.8			
26-Sep-11	11:10	66.9	71.7	56.7			
26-Sep-11	11:15	67.4	72.6	51.2			
26-Sep-11	11:20	65.8	66.9	56.5			
26-Sep-11	11:25	66.5	67.7	58.3	66.4	68.9	55.2
26-Sep-11	11:30	65.6	69.5	57.4			
26-Sep-11	11:35	67.3	70.0	57.7			
26-Sep-11	11:40	66.3	66.5	52.0			
26-Sep-11	11:45	65.4	67.0	56.4			
26-Sep-11	11:50	65.8	69.0	53.5	65.5	68.0	55.0
26-Sep-11	11:55	67.7	71.5	54.1			
26-Sep-11	12:00	65.1	68.3	55.3			
26-Sep-11	12:05	65.1	66.2	50.8			
26-Sep-11	12:10	66.7	69.2	61.3			
26-Sep-11	12:15	65.8	68.7	57.5	65.7	67.4	57.3
26-Sep-11	12:20	63.5	67.2	52.1			
26-Sep-11	12:25	66.1	68.5	52.9			
26-Sep-11	12:30	64.3	68.2	53.3			
26-Sep-11	12:35	67.4	67.0	52.1			
26-Sep-11	12:40	66.3	68.7	59.6	65.9	68.0	59.0
26-Sep-11	12:45	64.5	66.5	58.0			
26-Sep-11	12:50	64.7	66.9	55.9			
26-Sep-11	12:55	66.3	67.2	65.1			
26-Sep-11	13:00	66.0	68.6	63.2			
26-Sep-11	13:05	65.0	67.1	60.0	67.8	67.1	56.8
26-Sep-11	13:10	65.8	69.4	57.4			
26-Sep-11	13:15	67.3	68.9	65.0			
26-Sep-11	13:20	63.0	65.0	52.9			
26-Sep-11	13:25	67.1	69.0	55.6			
26-Sep-11	13:30	66.3	65.7	60.5	64.6	67.1	58.3
26-Sep-11	13:35	62.3	63.9	60.0			
26-Sep-11	13:40	73.0	68.2	55.8			
26-Sep-11	13:45	65.7	68.1	56.8			
26-Sep-11	13:50	62.3	66.2	51.8			
26-Sep-11	13:55	66.9	70.7	55.9	65.9	68.3	58.5
26-Sep-11	14:00	64.0	67.9	53.6			
26-Sep-11	14:05	65.6	68.0	55.0			
26-Sep-11	14:10	65.0	66.9	60.2			
26-Sep-11	14:15	63.7	66.4	60.0			
26-Sep-11	14:20	64.0	66.8	57.9	65.9	68.3	58.5
26-Sep-11	14:25	65.0	66.3	63.3			
26-Sep-11	14:30	65.1	67.4	62.4			
26-Sep-11	14:35	67.7	69.6	61.3			
26-Sep-11	14:40	66.0	67.5	61.4			
26-Sep-11	14:45	64.9	67.3	56.9	65.9	68.3	58.5
26-Sep-11	14:50	64.8	68.3	50.4			
26-Sep-11	14:55	66.3	69.9	58.5			

**Appendix C1**

**Day-time Noise Level at Open Area near Naval Base Barrack\_NM7**

Date	dB(A)						
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30-min)	L <sub>10</sub> (Average)	L <sub>90</sub> (Average)
26-Sep-11	15:00	69.3	72.9	61.5	67.0	69.3	56.2
26-Sep-11	15:05	65.2	68.4	55.7			
26-Sep-11	15:10	67.7	70.5	53.6			
26-Sep-11	15:15	65.9	66.8	54.4			
26-Sep-11	15:20	66.7	69.9	58.3			
26-Sep-11	15:25	65.9	67.3	53.8	66.5	70.2	53.9
26-Sep-11	15:30	66.6	71.5	52.6			
26-Sep-11	15:35	67.8	72.3	50.6			
26-Sep-11	15:40	66.4	68.4	54.8			
26-Sep-11	15:45	64.8	68.2	50.3			
26-Sep-11	15:50	65.4	69.1	55.3	67.4	69.4	55.7
26-Sep-11	15:55	67.4	71.4	59.6			
26-Sep-11	16:00	69.5	73.0	55.3			
26-Sep-11	16:05	67.3	71.2	57.1			
26-Sep-11	16:10	66.1	69.3	56.1			
26-Sep-11	16:15	66.6	66.8	52.8	67.8	66.8	55.6
26-Sep-11	16:20	66.7	66.9	52.5			
26-Sep-11	16:25	67.3	69.4	60.2			
26-Sep-11	16:30	71.2	69.0	65.0			
26-Sep-11	16:35	64.3	65.8	58.2			
26-Sep-11	16:40	61.2	62.2	55.3	65.4	67.2	58.2
26-Sep-11	16:45	70.4	65.6	50.1			
26-Sep-11	16:50	64.9	67.3	53.0			
26-Sep-11	16:55	66.6	70.8	52.2			
26-Sep-11	17:00	65.4	67.1	58.2			
26-Sep-11	17:05	64.6	66.3	59.2	65.5	66.8	58.3
26-Sep-11	17:10	63.4	65.8	55.6			
26-Sep-11	17:15	66.4	69.0	62.1			
26-Sep-11	17:20	65.5	66.2	57.7			
26-Sep-11	17:25	66.6	68.7	56.4			
26-Sep-11	17:30	66.7	70.6	57.5	66.2	68.7	55.9
26-Sep-11	17:35	64.5	67.5	59.1			
26-Sep-11	17:40	65.5	68.6	54.5			
26-Sep-11	17:45	64.3	65.8	61.7			
26-Sep-11	17:50	66.9	67.7	61.0			
26-Sep-11	17:55	64.3	60.7	56.1	64.2	66.7	54.5
26-Sep-11	18:00	68.1	71.7	61.9			
26-Sep-11	18:05	65.2	68.4	58.7			
26-Sep-11	18:10	68.0	73.6	53.9			
26-Sep-11	18:15	63.9	62.8	52.2			
26-Sep-11	18:20	65.9	67.7	52.3	64.2	66.7	54.5
26-Sep-11	18:25	64.4	67.7	56.1			
26-Sep-11	18:30	64.6	64.3	51.0			
26-Sep-11	18:35	64.5	67.6	50.3			
26-Sep-11	18:40	63.7	66.1	55.8			
26-Sep-11	18:45	63.9	68.0	55.6	64.2	66.7	54.5
26-Sep-11	18:50	61.4	64.3	54.2			
26-Sep-11	18:55	65.9	69.7	59.9			

Mean 66.2 68.0 57.0  
 Maximum 67.8 70.2 60.8  
 Minimum 64.2 65.7 51.2

Date	dB(A)						
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30-min)	L <sub>10</sub> (Average)	L <sub>90</sub> (Average)
27-Sep-11	7:00	62.0	64.8	57.1	62.9	65.8	57.9
27-Sep-11	7:05	61.3	64.7	56.3			
27-Sep-11	7:10	62.6	65.6	58.3			
27-Sep-11	7:15	63.5	66.4	58.4			
27-Sep-11	7:20	62.9	65.6	57.5			
27-Sep-11	7:25	64.6	67.6	59.6	64.9	67.6	60.3
27-Sep-11	7:30	63.4	66.9	59.1			
27-Sep-11	7:35	64.0	66.9	58.8			
27-Sep-11	7:40	65.8	68.5	60.2			
27-Sep-11	7:45	65.4	67.9	61.0			
27-Sep-11	7:50	65.3	68.2	60.7	65.9	68.1	62.2
27-Sep-11	7:55	65.0	66.9	61.7			
27-Sep-11	8:00	65.9	68.1	63.2			
27-Sep-11	8:05	64.8	66.9	61.5			
27-Sep-11	8:10	65.6	68.2	61.6			
27-Sep-11	8:15	66.3	68.7	62.3	66.7	68.8	63.2
27-Sep-11	8:20	65.8	68.1	60.9			
27-Sep-11	8:25	66.5	68.6	63.6			
27-Sep-11	8:30	66.5	68.6	63.4			
27-Sep-11	8:35	66.8	68.8	63.4			
27-Sep-11	8:40	67.7	69.7	64.2	66.2	68.4	62.6
27-Sep-11	8:45	66.6	68.7	63.4			
27-Sep-11	8:50	67.0	69.1	63.9			
27-Sep-11	8:55	65.2	67.6	61.0			
27-Sep-11	9:00	66.5	68.5	63.6			
27-Sep-11	9:05	66.2	68.8	61.4	68.5	68.3	61.9
27-Sep-11	9:10	65.6	68.0	62.4			
27-Sep-11	9:15	66.0	68.0	63.4			
27-Sep-11	9:20	66.2	68.4	61.8			
27-Sep-11	9:25	66.7	68.7	63.0			
27-Sep-11	9:30	65.9	68.1	62.6	66.4	68.3	61.5
27-Sep-11	9:35	65.8	68.6	61.9			
27-Sep-11	9:40	65.0	67.1	61.7			
27-Sep-11	9:45	65.8	68.4	61.5			
27-Sep-11	9:50	68.6	68.8	61.9			
27-Sep-11	9:55	73.2	68.8	61.7	66.2	68.3	62.9
27-Sep-11	10:00	68.8	68.6	61.9			
27-Sep-11	10:05	65.8	68.6	60.5			
27-Sep-11	10:10	65.4	67.8	60.9			
27-Sep-11	10:15	64.9	67.4	61.6			
27-Sep-11	10:20	65.8	68.4	61.5	66.2	68.3	62.9
27-Sep-11	10:25	66.6	68.8	62.4			
27-Sep-11	10:30	66.4	68.6	62.8			
27-Sep-11	10:35	66.4	68.5	63.7			
27-Sep-11	10:40	66.7	68.7	64.0			
27-Sep-11	10:45	66.3	68.4	62.9	66.2	68.3	62.9
27-Sep-11	10:50	66.2	68.4	62.9			
27-Sep-11	10:55	64.7	67.3	61.2			

**Appendix C1**

**Day-time Noise Level at Open Area near Naval Base Barrack\_NM7**

Date	dB(A)						
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30-min)	L <sub>10</sub> (Average)	L <sub>90</sub> (Average)
27-Sep-11	11:00	66.7	68.7	63.2	66.0	68.2	62.6
27-Sep-11	11:05	66.2	68.4	62.1			
27-Sep-11	11:10	65.0	67.5	61.2			
27-Sep-11	11:15	66.5	68.5	62.9			
27-Sep-11	11:20	66.3	68.4	63.9			
27-Sep-11	11:25	65.2	67.6	62.4	65.3	67.6	61.8
27-Sep-11	11:30	66.5	68.6	63.3			
27-Sep-11	11:35	66.2	69.0	61.9			
27-Sep-11	11:40	65.1	67.3	61.9			
27-Sep-11	11:45	64.3	66.6	61.3			
27-Sep-11	11:50	64.6	66.5	61.8	64.5	66.7	61.1
27-Sep-11	11:55	64.8	67.3	60.5			
27-Sep-11	12:00	65.4	67.4	63.0			
27-Sep-11	12:05	64.0	66.3	60.7			
27-Sep-11	12:10	64.8	67.7	60.5			
27-Sep-11	12:15	64.0	65.9	60.5	64.3	66.6	60.7
27-Sep-11	12:20	63.1	65.6	59.3			
27-Sep-11	12:25	65.4	67.3	62.3			
27-Sep-11	12:30	64.5	66.7	61.0			
27-Sep-11	12:35	63.3	65.3	60.6			
27-Sep-11	12:40	63.4	65.8	59.3	65.1	67.3	61.5
27-Sep-11	12:45	65.0	67.3	61.3			
27-Sep-11	12:50	64.1	66.5	60.3			
27-Sep-11	12:55	65.0	67.7	61.4			
27-Sep-11	13:00	64.2	66.4	61.2			
27-Sep-11	13:05	65.5	67.7	62.0	65.9	68.1	62.4
27-Sep-11	13:10	65.1	67.4	62.0			
27-Sep-11	13:15	64.7	66.8	61.4			
27-Sep-11	13:20	65.6	67.9	61.6			
27-Sep-11	13:25	65.1	67.3	61.0			
27-Sep-11	13:30	64.1	66.7	60.7	66.3	68.6	63.1
27-Sep-11	13:35	66.4	68.8	62.1			
27-Sep-11	13:40	65.6	68.1	62.0			
27-Sep-11	13:45	66.6	68.5	63.7			
27-Sep-11	13:50	65.8	67.9	62.1			
27-Sep-11	13:55	66.6	68.6	63.8	65.8	68.0	62.6
27-Sep-11	14:00	66.8	68.7	63.4			
27-Sep-11	14:05	65.3	67.8	62.2			
27-Sep-11	14:10	65.7	68.4	62.5			
27-Sep-11	14:15	66.3	68.9	63.1			
27-Sep-11	14:20	66.5	68.3	64.0	65.8	68.0	62.6
27-Sep-11	14:25	66.8	69.2	63.6			
27-Sep-11	14:30	66.6	68.7	64.0			
27-Sep-11	14:35	66.3	68.6	62.9			
27-Sep-11	14:40	65.3	67.4	62.5			
27-Sep-11	14:45	65.3	67.6	62.0	65.8	68.0	62.6
27-Sep-11	14:50	65.8	67.7	62.3			
27-Sep-11	14:55	65.2	67.7	61.9			

Date	dB(A)						
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30-min)	L <sub>10</sub> (Average)	L <sub>90</sub> (Average)
27-Sep-11	15:00	64.5	67.6	60.5	64.8	67.3	61.1
27-Sep-11	15:05	65.0	67.3	60.4			
27-Sep-11	15:10	65.2	67.5	61.7			
27-Sep-11	15:15	64.0	66.5	60.4			
27-Sep-11	15:20	65.2	67.4	62.2			
27-Sep-11	15:25	64.9	67.3	61.1	65.8	67.9	62.1
27-Sep-11	15:30	64.3	67.2	59.6			
27-Sep-11	15:35	66.4	67.8	62.5			
27-Sep-11	15:40	65.5	67.2	62.1			
27-Sep-11	15:45	65.9	67.9	62.9			
27-Sep-11	15:50	65.9	68.6	62.0	66.2	68.4	63.0
27-Sep-11	15:55	66.3	68.4	63.3			
27-Sep-11	16:00	67.3	69.6	64.1			
27-Sep-11	16:05	65.7	67.8	62.7			
27-Sep-11	16:10	66.0	68.5	62.6			
27-Sep-11	16:15	66.1	68.4	62.7	65.4	67.9	62.1
27-Sep-11	16:20	65.4	67.6	62.5			
27-Sep-11	16:25	66.6	68.7	63.4			
27-Sep-11	16:30	65.5	68.3	61.9			
27-Sep-11	16:35	65.4	68.0	62.0			
27-Sep-11	16:40	65.4	68.0	61.3	65.1	67.7	61.3
27-Sep-11	16:45	64.5	66.9	61.3			
27-Sep-11	16:50	65.6	67.8	62.9			
27-Sep-11	16:55	66.0	68.5	63.1			
27-Sep-11	17:00	65.5	68.0	61.8			
27-Sep-11	17:05	64.3	67.3	60.1	65.4	67.9	61.9
27-Sep-11	17:10	64.2	66.4	60.5			
27-Sep-11	17:15	65.5	68.5	61.5			
27-Sep-11	17:20	65.4	68.3	61.7			
27-Sep-11	17:25	65.5	67.6	62.1			
27-Sep-11	17:30	66.1	68.6	61.9	65.4	67.9	61.9
27-Sep-11	17:35	65.8	68.9	61.9			
27-Sep-11	17:40	65.2	67.3	62.2			
27-Sep-11	17:45	65.8	68.2	62.2			
27-Sep-11	17:50	64.3	66.9	61.3			
27-Sep-11	17:55	65.1	67.4	61.6	65.4	67.9	60.8
27-Sep-11	18:00	66.6	69.6	61.9			
27-Sep-11	18:05	63.2	66.0	59.5			
27-Sep-11	18:10	64.8	67.4	60.3			
27-Sep-11	18:15	64.9	66.8	61.0			
27-Sep-11	18:20	65.6	68.5	60.0	64.2	66.8	60.2
27-Sep-11	18:25	66.5	69.3	61.8			
27-Sep-11	18:30	64.9	67.2	61.1			
27-Sep-11	18:35	63.5	66.1	59.1			
27-Sep-11	18:40	64.5	67.6	59.7			
27-Sep-11	18:45	64.1	66.5	60.6	64.2	66.8	60.2
27-Sep-11	18:50	64.0	66.7	59.5			
27-Sep-11	18:55	64.3	66.9	60.9			

Mean	65.7	67.8	61.7
Maximum	68.5	68.8	63.2
Minimum	62.9	65.8	57.9

**Appendix C1**

**Day-time Noise Level at Open Area near Naval Base Barrack\_NM7**

Date	dB(A)						
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30-min)	L <sub>10</sub> (Average)	L <sub>90</sub> (Average)
30-Sep-11	7:00	60.9	63.8	57.0	63.3	66.1	58.9
30-Sep-11	7:05	62.3	65.3	58.7			
30-Sep-11	7:10	63.4	66.6	58.9			
30-Sep-11	7:15	64.9	67.8	59.4			
30-Sep-11	7:20	62.9	66.0	58.9			
30-Sep-11	7:25	64.4	67.2	60.6	64.9	67.6	60.7
30-Sep-11	7:30	64.5	67.3	60.3			
30-Sep-11	7:35	64.8	67.0	61.8			
30-Sep-11	7:40	64.0	66.4	59.2			
30-Sep-11	7:45	66.0	68.8	60.9			
30-Sep-11	7:50	65.1	68.2	61.0	65.8	67.9	62.4
30-Sep-11	7:55	65.0	67.9	61.2			
30-Sep-11	8:00	66.0	68.4	62.0			
30-Sep-11	8:05	65.4	67.9	61.5			
30-Sep-11	8:10	64.9	67.2	62.0			
30-Sep-11	8:15	65.1	67.3	61.9	66.8	68.9	63.8
30-Sep-11	8:20	66.0	67.9	62.6			
30-Sep-11	8:25	66.9	68.7	64.2			
30-Sep-11	8:30	67.1	69.0	64.7			
30-Sep-11	8:35	66.7	68.9	63.5			
30-Sep-11	8:40	66.5	68.7	63.1	67.2	69.3	64.0
30-Sep-11	8:45	66.8	68.7	64.1			
30-Sep-11	8:50	67.0	69.3	63.6			
30-Sep-11	8:55	66.8	68.7	63.9			
30-Sep-11	9:00	66.6	68.6	63.6			
30-Sep-11	9:05	66.8	69.1	63.2	67.4	69.6	64.2
30-Sep-11	9:10	66.9	69.1	63.6			
30-Sep-11	9:15	67.2	69.3	64.2			
30-Sep-11	9:20	68.4	70.4	65.6			
30-Sep-11	9:25	67.0	69.1	63.9			
30-Sep-11	9:30	66.6	68.9	63.2	67.2	69.4	63.9
30-Sep-11	9:35	67.9	70.1	65.1			
30-Sep-11	9:40	68.7	71.1	65.1			
30-Sep-11	9:45	66.8	68.6	64.3			
30-Sep-11	9:50	66.2	68.8	63.0			
30-Sep-11	9:55	67.5	69.9	64.2	67.3	69.7	63.2
30-Sep-11	10:00	67.6	69.8	64.2			
30-Sep-11	10:05	66.3	68.5	63.2			
30-Sep-11	10:10	66.8	69.0	63.8			
30-Sep-11	10:15	67.4	69.6	64.0			
30-Sep-11	10:20	67.1	69.3	64.2	67.3	69.7	63.2
30-Sep-11	10:25	67.8	70.1	64.2			
30-Sep-11	10:30	68.2	70.8	63.3			
30-Sep-11	10:35	67.3	69.6	63.2			
30-Sep-11	10:40	68.1	70.4	64.1			
30-Sep-11	10:45	66.8	68.9	63.3	67.3	69.7	63.2
30-Sep-11	10:50	67.0	69.2	63.2			
30-Sep-11	10:55	66.3	69.0	62.2			

Date	dB(A)						
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30-min)	L <sub>10</sub> (Average)	L <sub>90</sub> (Average)
30-Sep-11	11:00	67.3	69.6	63.5	66.6	68.8	63.4
30-Sep-11	11:05	65.4	67.4	62.8			
30-Sep-11	11:10	66.9	68.8	64.2			
30-Sep-11	11:15	66.9	69.3	63.0			
30-Sep-11	11:20	66.9	69.1	64.0			
30-Sep-11	11:25	66.2	68.4	62.9	65.6	68.0	61.9
30-Sep-11	11:30	66.1	68.3	62.6			
30-Sep-11	11:35	66.1	68.3	63.0			
30-Sep-11	11:40	65.2	67.2	62.4			
30-Sep-11	11:45	64.6	67.1	60.5			
30-Sep-11	11:50	65.7	68.7	61.5	65.3	67.7	60.8
30-Sep-11	11:55	65.8	68.4	61.1			
30-Sep-11	12:00	65.1	67.9	60.5			
30-Sep-11	12:05	65.2	67.6	61.1			
30-Sep-11	12:10	64.9	68.0	59.8			
30-Sep-11	12:15	65.6	67.6	60.6	65.0	67.4	61.2
30-Sep-11	12:20	66.3	68.7	62.3			
30-Sep-11	12:25	64.2	66.4	60.3			
30-Sep-11	12:30	66.2	69.3	60.9			
30-Sep-11	12:35	64.3	66.9	60.1			
30-Sep-11	12:40	64.5	66.7	61.1	66.6	69.2	61.6
30-Sep-11	12:45	64.5	66.7	61.3			
30-Sep-11	12:50	64.7	66.8	61.9			
30-Sep-11	12:55	65.6	67.7	62.1			
30-Sep-11	13:00	65.4	68.1	60.9			
30-Sep-11	13:05	66.1	68.4	61.9	68.2	71.3	62.4
30-Sep-11	13:10	64.6	67.4	60.6			
30-Sep-11	13:15	66.8	69.6	62.8			
30-Sep-11	13:20	65.9	68.6	61.6			
30-Sep-11	13:25	69.1	72.8	62.0			
30-Sep-11	13:30	69.0	72.5	63.2	65.9	68.4	62.1
30-Sep-11	13:35	66.1	69.2	60.6			
30-Sep-11	13:40	69.3	72.6	62.2			
30-Sep-11	13:45	68.1	71.2	63.9			
30-Sep-11	13:50	69.3	73.2	62.5			
30-Sep-11	13:55	66.1	68.9	62.0	66.3	68.7	62.6
30-Sep-11	14:00	66.5	69.3	61.5			
30-Sep-11	14:05	66.0	68.0	63.1			
30-Sep-11	14:10	65.0	67.5	61.9			
30-Sep-11	14:15	65.4	67.5	62.0			
30-Sep-11	14:20	65.7	68.5	62.0	66.3	68.7	62.6
30-Sep-11	14:25	66.7	69.6	62.0			
30-Sep-11	14:30	66.5	68.8	62.7			
30-Sep-11	14:35	66.4	68.8	62.9			
30-Sep-11	14:40	65.7	68.4	61.5			
30-Sep-11	14:45	65.6	68.4	61.5	66.3	68.7	62.6
30-Sep-11	14:50	66.2	68.5	63.4			
30-Sep-11	14:55	67.1	69.1	63.8			

**Appendix C1**

**Day-time Noise Level at Open Area near Naval Base Barrack\_NM7**

Date	dB(A)						
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30-min)	L <sub>10</sub> (Average)	L <sub>90</sub> (Average)
30-Sep-11	15:00	67.3	69.6	64.0	67.0	69.3	63.7
30-Sep-11	15:05	68.2	70.5	64.1			
30-Sep-11	15:10	66.4	68.6	63.5			
30-Sep-11	15:15	67.5	69.8	64.4			
30-Sep-11	15:20	66.9	69.3	64.0			
30-Sep-11	15:25	65.5	68.0	62.2	66.1	68.3	62.1
30-Sep-11	15:30	65.5	67.8	62.0			
30-Sep-11	15:35	66.7	68.9	62.4			
30-Sep-11	15:40	66.6	68.8	63.2			
30-Sep-11	15:45	66.3	68.6	62.3			
30-Sep-11	15:50	65.0	67.7	60.7	66.2	68.8	62.6
30-Sep-11	15:55	66.0	68.2	61.7			
30-Sep-11	16:00	65.8	67.9	62.6			
30-Sep-11	16:05	66.4	69.5	62.7			
30-Sep-11	16:10	65.8	67.7	63.1			
30-Sep-11	16:15	65.9	68.9	62.1	66.0	68.2	62.5
30-Sep-11	16:20	66.0	68.5	62.2			
30-Sep-11	16:25	67.3	70.1	62.9			
30-Sep-11	16:30	66.0	67.7	63.2			
30-Sep-11	16:35	66.4	68.5	63.1			
30-Sep-11	16:40	66.2	68.4	62.7	65.3	67.6	61.8
30-Sep-11	16:45	65.8	68.3	62.0			
30-Sep-11	16:50	65.7	67.9	61.6			
30-Sep-11	16:55	65.8	68.2	62.6			
30-Sep-11	17:00	65.6	67.7	62.2			
30-Sep-11	17:05	64.8	67.0	61.8	66.0	68.5	62.0
30-Sep-11	17:10	64.7	67.0	60.9			
30-Sep-11	17:15	65.7	67.8	62.9			
30-Sep-11	17:20	64.9	67.4	61.5			
30-Sep-11	17:25	65.9	68.5	61.7			
30-Sep-11	17:30	66.2	68.5	62.9	65.3	67.8	61.6
30-Sep-11	17:35	65.4	68.3	60.6			
30-Sep-11	17:40	66.0	68.4	62.1			
30-Sep-11	17:45	66.5	69.3	62.2			
30-Sep-11	17:50	65.9	68.4	62.5			
30-Sep-11	17:55	65.9	68.2	61.7	64.5	66.8	61.1
30-Sep-11	18:00	65.8	68.2	63.0			
30-Sep-11	18:05	65.4	67.8	61.2			
30-Sep-11	18:10	65.3	67.5	62.2			
30-Sep-11	18:15	66.2	68.5	62.8			
30-Sep-11	18:20	64.5	66.9	60.8	66.2	68.5	62.3
30-Sep-11	18:25	64.6	67.8	59.8			
30-Sep-11	18:30	65.3	67.5	62.2			
30-Sep-11	18:35	64.1	66.3	60.2			
30-Sep-11	18:40	65.4	68.5	61.0			
30-Sep-11	18:45	64.4	66.4	62.0	68.2	71.3	64.2
30-Sep-11	18:50	63.7	66.0	60.7			
30-Sep-11	18:55	63.6	65.9	60.7			
					Mean	68.5	62.3
					Maximum	71.3	64.2
					Minimum	66.1	59.9

Date	dB(A)						
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30-min)	L <sub>10</sub> (Average)	L <sub>90</sub> (Average)
4-Oct-11	7:00	61.2	64.3	57.0	63.8	66.7	59.2
4-Oct-11	7:05	62.7	65.5	58.8			
4-Oct-11	7:10	64.3	67.4	59.2			
4-Oct-11	7:15	65.0	68.3	59.4			
4-Oct-11	7:20	63.0	66.7	59.3			
4-Oct-11	7:25	65.2	67.8	61.3	65.6	68.1	61.1
4-Oct-11	7:30	64.7	67.8	60.6			
4-Oct-11	7:35	65.6	67.8	62.2			
4-Oct-11	7:40	64.8	66.9	59.9			
4-Oct-11	7:45	66.6	68.8	61.2			
4-Oct-11	7:50	65.8	68.7	61.5	66.0	68.3	62.9
4-Oct-11	7:55	65.7	68.5	61.4			
4-Oct-11	8:00	66.2	68.8	62.1			
4-Oct-11	8:05	65.5	68.4	62.4			
4-Oct-11	8:10	65.3	68.0	62.1			
4-Oct-11	8:15	65.1	67.2	62.8	67.2	69.3	64.3
4-Oct-11	8:20	66.8	68.3	63.2			
4-Oct-11	8:25	67.0	69.3	65.0			
4-Oct-11	8:30	67.1	69.7	64.7			
4-Oct-11	8:35	67.1	69.2	63.8			
4-Oct-11	8:40	67.3	69.0	63.9	67.8	69.6	64.7
4-Oct-11	8:45	67.0	69.0	64.6			
4-Oct-11	8:50	67.3	69.8	63.8			
4-Oct-11	8:55	67.4	69.3	64.8			
4-Oct-11	9:00	67.3	68.7	64.0			
4-Oct-11	9:05	67.5	69.9	63.8	67.7	69.8	64.5
4-Oct-11	9:10	67.0	69.3	64.2			
4-Oct-11	9:15	68.1	69.5	65.1			
4-Oct-11	9:20	69.2	70.8	66.3			
4-Oct-11	9:25	67.0	69.6	64.8			
4-Oct-11	9:30	67.4	69.1	63.8	67.6	69.7	64.5
4-Oct-11	9:35	68.3	70.0	65.7			
4-Oct-11	9:40	68.7	71.3	65.0			
4-Oct-11	9:45	67.0	68.6	64.3			
4-Oct-11	9:50	66.2	69.4	63.9			
4-Oct-11	9:55	68.2	70.4	64.4	67.8	70.1	63.5
4-Oct-11	10:00	68.4	69.9	64.8			
4-Oct-11	10:05	66.6	68.9	63.9			
4-Oct-11	10:10	66.8	69.1	64.0			
4-Oct-11	10:15	67.5	70.1	64.5			
4-Oct-11	10:20	67.4	69.8	64.8	66.2	69.2	62.2
4-Oct-11	10:25	68.6	70.5	64.8			
4-Oct-11	10:30	68.3	70.9	63.3			
4-Oct-11	10:35	68.1	70.4	63.3			
4-Oct-11	10:40	68.4	71.1	64.4			
4-Oct-11	10:45	67.6	69.2	64.1			
4-Oct-11	10:50	67.9	69.8	63.4			
4-Oct-11	10:55	66.3	69.2	62.2			



**Appendix C1**

**Day-time Noise Level at Open Area near Naval Base Barrack\_NM7**

Date	dB(A)						
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30-min)	L <sub>10</sub> (Average)	L <sub>90</sub> (Average)
4-Oct-11	11:00	68.0	69.9	64.1	67.0	69.2	64.0
4-Oct-11	11:05	65.5	67.4	63.6			
4-Oct-11	11:10	67.8	69.2	64.7			
4-Oct-11	11:15	67.0	70.1	63.4			
4-Oct-11	11:20	67.1	69.8	64.9			
4-Oct-11	11:25	66.2	69.0	63.3	66.0	68.5	62.2
4-Oct-11	11:30	66.3	69.1	62.9			
4-Oct-11	11:35	66.7	68.7	63.5			
4-Oct-11	11:40	66.0	67.2	63.3			
4-Oct-11	11:45	64.9	68.0	60.5			
4-Oct-11	11:50	65.7	69.0	61.8			
4-Oct-11	11:55	66.2	68.9	61.2			
4-Oct-11	12:00	65.8	68.6	60.7			
4-Oct-11	12:05	66.0	67.9	61.6	65.6	68.2	61.1
4-Oct-11	12:10	65.0	68.3	60.5			
4-Oct-11	12:15	65.8	68.2	61.2			
4-Oct-11	12:20	66.3	68.9	62.4			
4-Oct-11	12:25	64.4	67.0	60.4			
4-Oct-11	12:30	66.8	69.6	61.5			
4-Oct-11	12:35	64.4	67.4	60.6			
4-Oct-11	12:40	64.6	67.1	61.3	65.4	67.8	61.7
4-Oct-11	12:45	65.4	67.2	61.7			
4-Oct-11	12:50	64.8	67.6	62.8			
4-Oct-11	12:55	65.9	68.1	62.3			
4-Oct-11	13:00	65.9	68.2	61.3			
4-Oct-11	13:05	66.7	68.9	62.7	66.9	69.6	62.2
4-Oct-11	13:10	64.9	67.5	61.4			
4-Oct-11	13:15	66.9	70.1	63.3			
4-Oct-11	13:20	66.1	69.2	61.8			
4-Oct-11	13:25	69.3	73.5	62.5			
4-Oct-11	13:30	69.6	72.5	63.5			
4-Oct-11	13:35	66.5	69.2	61.3	68.6	71.6	62.8
4-Oct-11	13:40	69.5	73.2	62.6			
4-Oct-11	13:45	68.7	72.1	64.5			
4-Oct-11	13:50	69.6	73.5	62.6			
4-Oct-11	13:55	66.3	69.1	62.4			
4-Oct-11	14:00	66.8	69.5	62.4			
4-Oct-11	14:05	66.7	68.2	63.2			
4-Oct-11	14:10	65.0	67.9	62.8	66.3	68.9	62.6
4-Oct-11	14:15	65.8	68.1	62.4			
4-Oct-11	14:20	66.6	69.2	62.7			
4-Oct-11	14:25	66.7	70.4	62.1			
4-Oct-11	14:30	67.0	69.3	63.6			
4-Oct-11	14:35	66.7	69.5	63.7			
4-Oct-11	14:40	66.6	69.0	61.8	66.8	69.0	63.3
4-Oct-11	14:45	66.3	68.7	61.9			
4-Oct-11	14:50	66.2	68.5	64.0			
4-Oct-11	14:55	67.7	69.2	64.7			

Date	dB(A)									
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30-min)	L <sub>10</sub> (Average)	L <sub>90</sub> (Average)			
4-Oct-11	15:00	67.0	69.5	63.9	67.0	69.4	63.7			
4-Oct-11	15:05	68.4	70.2	64.1						
4-Oct-11	15:10	66.0	69.0	63.9						
4-Oct-11	15:15	67.3	69.9	64.1						
4-Oct-11	15:20	67.0	69.5	63.7						
4-Oct-11	15:25	65.8	68.4	62.5						
4-Oct-11	15:30	65.2	67.4	62.3				66.0	68.2	62.0
4-Oct-11	15:35	67.1	68.5	62.1						
4-Oct-11	15:40	66.3	68.5	62.9						
4-Oct-11	15:45	66.3	68.4	61.9						
4-Oct-11	15:50	64.9	67.7	60.8						
4-Oct-11	15:55	66.0	68.7	62.2						
4-Oct-11	16:00	66.0	68.1	63.1						
4-Oct-11	16:05	66.4	69.5	62.9	66.4	68.8	62.8			
4-Oct-11	16:10	65.8	67.6	63.5						
4-Oct-11	16:15	66.3	69.3	62.4						
4-Oct-11	16:20	66.5	68.5	62.1						
4-Oct-11	16:25	67.1	69.8	62.9						
4-Oct-11	16:30	66.1	67.7	62.9						
4-Oct-11	16:35	66.3	69.0	62.8				66.1	68.2	62.5
4-Oct-11	16:40	66.4	68.1	63.1						
4-Oct-11	16:45	66.1	68.4	61.9						
4-Oct-11	16:50	65.5	67.7	61.8						
4-Oct-11	16:55	66.2	68.0	62.5						
4-Oct-11	17:00	65.3	67.2	62.3	65.3	67.5	61.9			
4-Oct-11	17:05	64.4	66.7	61.9						
4-Oct-11	17:10	65.0	66.8	61.1						
4-Oct-11	17:15	65.9	68.2	63.2						
4-Oct-11	17:20	65.0	67.3	61.5						
4-Oct-11	17:25	66.0	68.8	61.3						
4-Oct-11	17:30	66.0	68.9	62.7						
4-Oct-11	17:35	65.5	67.8	60.9				65.9	68.6	62.3
4-Oct-11	17:40	65.5	68.6	62.6						
4-Oct-11	17:45	66.8	69.5	62.5						
4-Oct-11	17:50	65.5	68.8	63.0						
4-Oct-11	17:55	66.1	68.1	62.2						
4-Oct-11	18:00	66.1	68.0	62.8						
4-Oct-11	18:05	65.7	68.1	61.7	65.4	67.8	61.8			
4-Oct-11	18:10	65.2	67.9	62.4						
4-Oct-11	18:15	66.1	68.7	62.7						
4-Oct-11	18:20	64.8	66.6	61.3						
4-Oct-11	18:25	64.4	67.6	60.0						
4-Oct-11	18:30	65.6	67.6	62.1						
4-Oct-11	18:35	64.4	66.0	59.9						
4-Oct-11	18:40	65.6	68.4	61.5				64.7	66.7	61.2
4-Oct-11	18:45	64.4	66.5	61.9						
4-Oct-11	18:50	63.9	65.7	61.1						
4-Oct-11	18:55	64.2	65.9	60.5						

Mean	66.5	68.7	62.6
Maximum	68.6	71.6	64.7
Minimum	63.8	66.7	59.2

**Appendix C1**

**Day-time Noise Level at Open Area near Naval Base Barrack\_NM7**

Date	dB(A)						
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30-min)	L <sub>10</sub> (Average)	L <sub>90</sub> (Average)
6-Oct-11	7:00	65.3	67.7	61.4	65.1	67.7	61.0
6-Oct-11	7:05	63.8	66.5	60.2			
6-Oct-11	7:10	64.9	67.7	60.9			
6-Oct-11	7:15	64.1	66.9	60.1			
6-Oct-11	7:20	66.1	68.6	62.3			
6-Oct-11	7:25	65.7	68.6	61.2	66.5	68.9	62.6
6-Oct-11	7:30	65.1	67.5	61.2			
6-Oct-11	7:35	66.7	68.8	62.9			
6-Oct-11	7:40	66.9	69.8	62.4			
6-Oct-11	7:45	66.2	68.6	62.9			
6-Oct-11	7:50	67.5	70.0	63.1	67.3	69.6	63.8
6-Oct-11	7:55	66.4	68.6	63.3			
6-Oct-11	8:00	67.0	69.1	63.9			
6-Oct-11	8:05	66.9	68.8	63.7			
6-Oct-11	8:10	67.3	69.8	63.2			
6-Oct-11	8:15	68.1	71.4	63.3	67.7	69.9	64.2
6-Oct-11	8:20	66.8	68.7	63.7			
6-Oct-11	8:25	67.4	69.5	64.7			
6-Oct-11	8:30	68.4	70.8	64.3			
6-Oct-11	8:35	67.3	69.4	64.1			
6-Oct-11	8:40	67.7	70.2	64.2	67.1	69.0	63.8
6-Oct-11	8:45	68.0	70.1	64.4			
6-Oct-11	8:50	67.7	69.6	63.9			
6-Oct-11	8:55	67.1	69.4	64.0			
6-Oct-11	9:00	66.6	68.7	63.3			
6-Oct-11	9:05	66.8	68.5	63.7	67.5	69.7	64.4
6-Oct-11	9:10	67.6	69.5	64.0			
6-Oct-11	9:15	66.8	68.5	63.3			
6-Oct-11	9:20	67.0	68.7	64.2			
6-Oct-11	9:25	67.6	69.8	64.0			
6-Oct-11	9:30	68.1	70.3	65.1	68.7	70.0	64.4
6-Oct-11	9:35	67.1	69.6	64.2			
6-Oct-11	9:40	67.1	69.2	64.2			
6-Oct-11	9:45	67.3	69.5	63.9			
6-Oct-11	9:50	67.5	69.6	64.4			
6-Oct-11	9:55	67.7	69.7	64.3	67.2	69.2	64.2
6-Oct-11	10:00	68.1	70.2	64.2			
6-Oct-11	10:05	72.4	73.3	66.1			
6-Oct-11	10:10	67.5	69.7	64.0			
6-Oct-11	10:15	67.3	69.8	64.1			
6-Oct-11	10:20	67.1	68.9	64.1	67.2	69.2	64.2
6-Oct-11	10:25	66.4	68.2	63.8			
6-Oct-11	10:30	67.2	68.8	64.9			
6-Oct-11	10:35	67.9	70.4	64.4			
6-Oct-11	10:40	67.0	68.8	64.2			
6-Oct-11	10:45	66.7	69.0	63.1	67.3	69.4	63.4
6-Oct-11	10:50	66.5	68.5	63.4			
6-Oct-11	10:55	67.9	69.7	65.0			

Date	dB(A)						
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30-min)	L <sub>10</sub> (Average)	L <sub>90</sub> (Average)
6-Oct-11	11:00	66.3	67.7	63.8	67.1	69.1	63.7
6-Oct-11	11:05	67.1	68.8	63.7			
6-Oct-11	11:10	67.3	69.2	63.0			
6-Oct-11	11:15	68.4	70.8	64.8			
6-Oct-11	11:20	66.4	68.6	62.9			
6-Oct-11	11:25	67.0	69.7	63.7	66.9	69.3	63.7
6-Oct-11	11:30	67.3	69.5	64.3			
6-Oct-11	11:35	67.7	69.5	65.1			
6-Oct-11	11:40	65.8	68.1	63.0			
6-Oct-11	11:45	66.8	69.4	63.1			
6-Oct-11	11:50	67.2	69.6	63.9	66.1	68.4	62.8
6-Oct-11	11:55	66.6	69.5	62.5			
6-Oct-11	12:00	66.0	68.0	63.3			
6-Oct-11	12:05	66.4	68.7	62.5			
6-Oct-11	12:10	66.4	68.5	63.6			
6-Oct-11	12:15	66.3	68.2	63.6	66.2	68.5	63.0
6-Oct-11	12:20	65.7	68.3	62.0			
6-Oct-11	12:25	66.0	68.6	61.8			
6-Oct-11	12:30	65.7	67.7	62.8			
6-Oct-11	12:35	66.7	69.1	63.3			
6-Oct-11	12:40	65.8	68.3	62.6	67.4	69.8	63.9
6-Oct-11	12:45	66.0	68.4	62.6			
6-Oct-11	12:50	66.2	68.7	62.7			
6-Oct-11	12:55	66.5	68.5	64.0			
6-Oct-11	13:00	67.3	70.0	63.9			
6-Oct-11	13:05	66.4	69.2	63.0	67.0	69.2	63.5
6-Oct-11	13:10	67.3	69.5	64.2			
6-Oct-11	13:15	67.4	69.6	64.8			
6-Oct-11	13:20	68.0	70.2	64.1			
6-Oct-11	13:25	68.0	70.0	63.2			
6-Oct-11	13:30	65.7	67.8	61.9	67.8	69.6	63.8
6-Oct-11	13:35	67.1	69.5	62.6			
6-Oct-11	13:40	67.4	69.3	65.0			
6-Oct-11	13:45	67.3	69.5	64.0			
6-Oct-11	13:50	67.3	69.7	63.2			
6-Oct-11	13:55	67.1	69.2	64.0	67.3	69.4	63.4
6-Oct-11	14:00	67.1	69.4	64.1			
6-Oct-11	14:05	67.0	69.6	63.1			
6-Oct-11	14:10	66.6	68.6	63.6			
6-Oct-11	14:15	68.2	69.2	64.2			
6-Oct-11	14:20	69.1	71.0	63.7	67.3	69.4	63.4
6-Oct-11	14:25	68.1	69.7	64.3			
6-Oct-11	14:30	66.7	68.7	63.7			
6-Oct-11	14:35	67.0	69.4	63.5			
6-Oct-11	14:40	67.6	70.1	62.9			
6-Oct-11	14:45	68.5	71.2	64.2	67.3	69.4	63.4
6-Oct-11	14:50	67.4	68.8	62.8			
6-Oct-11	14:55	66.3	68.4	63.0			

**Appendix C1**

**Day-time Noise Level at Open Area near Naval Base Barrack\_NM7**

Date	dB(A)						
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30-min)	L <sub>10</sub> (Average)	L <sub>90</sub> (Average)
6-Oct-11	15:00	67.1	69.7	63.2	67.0	69.2	63.7
6-Oct-11	15:05	67.1	69.0	63.7			
6-Oct-11	15:10	66.4	68.6	63.5			
6-Oct-11	15:15	66.9	68.9	63.8			
6-Oct-11	15:20	67.1	69.4	64.1			
6-Oct-11	15:25	67.4	69.8	64.0	66.5	68.7	63.1
6-Oct-11	15:30	65.5	67.8	62.5			
6-Oct-11	15:35	66.5	68.5	63.4			
6-Oct-11	15:40	66.0	68.1	62.8			
6-Oct-11	15:45	67.4	69.9	62.6			
6-Oct-11	15:50	66.9	68.9	63.9	66.6	68.8	62.8
6-Oct-11	15:55	66.4	68.7	63.2			
6-Oct-11	16:00	67.9	70.4	64.8			
6-Oct-11	16:05	66.5	68.7	62.6			
6-Oct-11	16:10	66.7	69.2	62.4			
6-Oct-11	16:15	65.9	67.1	62.0	66.2	68.7	62.5
6-Oct-11	16:20	66.0	68.4	62.5			
6-Oct-11	16:25	66.4	68.9	62.4			
6-Oct-11	16:30	65.9	68.4	62.2			
6-Oct-11	16:35	66.5	68.7	63.5			
6-Oct-11	16:40	66.2	68.8	62.2	66.5	69.1	62.3
6-Oct-11	16:45	67.0	69.9	62.9			
6-Oct-11	16:50	65.9	68.4	62.2			
6-Oct-11	16:55	65.5	68.1	62.0			
6-Oct-11	17:00	67.2	69.7	63.6			
6-Oct-11	17:05	66.7	69.3	61.9	65.9	68.1	62.0
6-Oct-11	17:10	66.3	68.6	63.0			
6-Oct-11	17:15	66.8	69.7	62.3			
6-Oct-11	17:20	65.6	68.6	61.3			
6-Oct-11	17:25	66.0	68.8	61.6			
6-Oct-11	17:30	65.5	67.7	61.3	65.8	67.8	62.0
6-Oct-11	17:35	66.7	68.6	62.9			
6-Oct-11	17:40	64.2	66.3	61.0			
6-Oct-11	17:45	65.7	68.5	61.9			
6-Oct-11	17:50	66.3	68.8	62.1			
6-Oct-11	17:55	66.5	68.8	62.8	64.4	66.8	60.7
6-Oct-11	18:00	67.0	69.4	63.0			
6-Oct-11	18:05	66.4	68.7	62.6			
6-Oct-11	18:10	66.7	68.7	63.2			
6-Oct-11	18:15	64.6	67.1	60.3			
6-Oct-11	18:20	64.1	66.0	61.2	66.8	69.9	63.6
6-Oct-11	18:25	64.9	67.0	61.5			
6-Oct-11	18:30	63.9	66.3	60.5			
6-Oct-11	18:35	64.5	67.3	60.4			
6-Oct-11	18:40	64.8	67.3	61.1			
6-Oct-11	18:45	64.1	66.5	60.9	66.7	68.9	63.3
6-Oct-11	18:50	64.4	66.7	60.1			
6-Oct-11	18:55	64.4	66.7	61.0			

Mean 66.8 68.9 63.1  
 Maximum 68.7 70.0 64.4  
 Minimum 64.4 66.8 60.7

Date	dB(A)						
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30-min)	L <sub>10</sub> (Average)	L <sub>90</sub> (Average)
7-Oct-11	7:00	62.6	65.4	59.6	64.2	66.9	60.1
7-Oct-11	7:05	64.0	66.8	59.7			
7-Oct-11	7:10	64.4	67.5	59.7			
7-Oct-11	7:15	63.7	66.6	59.8			
7-Oct-11	7:20	65.0	67.6	60.9			
7-Oct-11	7:25	64.9	67.7	60.7	66.0	68.4	62.2
7-Oct-11	7:30	64.4	66.7	60.8			
7-Oct-11	7:35	65.6	67.8	62.1			
7-Oct-11	7:40	66.2	68.7	62.2			
7-Oct-11	7:45	66.3	69.1	62.6			
7-Oct-11	7:50	67.0	69.5	63.1	66.5	68.8	63.0
7-Oct-11	7:55	66.1	68.5	62.6			
7-Oct-11	8:00	66.2	68.3	62.9			
7-Oct-11	8:05	66.1	68.3	62.7			
7-Oct-11	8:10	65.8	68.3	61.8			
7-Oct-11	8:15	67.0	69.8	63.2	67.3	69.4	64.0
7-Oct-11	8:20	66.7	68.7	63.4			
7-Oct-11	8:25	67.0	69.1	63.7			
7-Oct-11	8:30	67.5	69.9	63.8			
7-Oct-11	8:35	67.0	69.1	63.7			
7-Oct-11	8:40	67.5	69.5	64.2	66.8	68.8	63.6
7-Oct-11	8:45	67.4	69.4	64.2			
7-Oct-11	8:50	67.3	69.3	63.9			
7-Oct-11	8:55	66.8	68.9	64.1			
7-Oct-11	9:00	66.7	68.9	63.3			
7-Oct-11	9:05	66.4	68.3	63.3	67.0	69.3	63.6
7-Oct-11	9:10	66.9	68.8	63.8			
7-Oct-11	9:15	66.7	68.6	63.5			
7-Oct-11	9:20	67.2	69.2	64.2			
7-Oct-11	9:25	66.9	69.1	63.6			
7-Oct-11	9:30	67.0	69.4	63.9	67.3	69.4	63.4
7-Oct-11	9:35	66.8	69.1	63.7			
7-Oct-11	9:40	66.9	68.9	64.0			
7-Oct-11	9:45	66.8	69.2	63.1			
7-Oct-11	9:50	66.8	69.1	63.4			
7-Oct-11	9:55	67.4	69.9	63.4	66.7	68.9	63.3
7-Oct-11	10:00	66.8	69.2	62.8			
7-Oct-11	10:05	69.2	70.8	64.5			
7-Oct-11	10:10	66.9	69.2	63.2			
7-Oct-11	10:15	67.0	69.4	63.7			
7-Oct-11	10:20	66.8	68.8	63.1	66.7	68.9	63.3
7-Oct-11	10:25	66.6	68.7	63.0			
7-Oct-11	10:30	66.7	68.7	63.3			
7-Oct-11	10:35	67.3	69.8	63.8			
7-Oct-11	10:40	66.6	68.7	63.4			
7-Oct-11	10:45	66.3	68.4	62.5	66.7	68.9	63.3
7-Oct-11	10:50	66.1	68.3	62.7			
7-Oct-11	10:55	67.1	69.2	63.8			

**Appendix C1**

**Day-time Noise Level at Open Area near Naval Base Barrack\_NM7**

Date	dB(A)						
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30-min)	L <sub>10</sub> (Average)	L <sub>90</sub> (Average)
7-Oct-11	11:00	66.5	68.6	63.2	66.9	69.1	63.4
7-Oct-11	11:05	67.1	69.1	63.7			
7-Oct-11	11:10	67.2	69.2	63.2			
7-Oct-11	11:15	67.3	69.7	64.0			
7-Oct-11	11:20	66.1	68.4	62.8			
7-Oct-11	11:25	67.0	69.6	63.3	66.9	69.1	63.4
7-Oct-11	11:30	67.0	69.3	63.7			
7-Oct-11	11:35	67.4	69.3	64.3			
7-Oct-11	11:40	66.3	68.5	63.3			
7-Oct-11	11:45	66.7	68.9	63.3			
7-Oct-11	11:50	66.8	69.2	63.2	66.1	68.5	62.5
7-Oct-11	11:55	66.9	69.6	62.5			
7-Oct-11	12:00	66.2	68.5	62.9			
7-Oct-11	12:05	66.7	69.3	62.3			
7-Oct-11	12:10	66.1	68.3	62.9			
7-Oct-11	12:15	65.9	68.1	62.8	66.1	68.4	62.7
7-Oct-11	12:20	65.6	68.1	61.8			
7-Oct-11	12:25	66.0	68.6	62.1			
7-Oct-11	12:30	65.5	67.6	62.5			
7-Oct-11	12:35	66.6	69.1	62.7			
7-Oct-11	12:40	65.6	68.0	62.4	66.9	69.3	63.3
7-Oct-11	12:45	66.3	68.5	63.1			
7-Oct-11	12:50	65.8	68.4	62.0			
7-Oct-11	12:55	66.6	68.8	63.7			
7-Oct-11	13:00	66.9	69.5	63.5			
7-Oct-11	13:05	66.9	69.3	63.2	66.6	68.8	63.1
7-Oct-11	13:10	66.6	69.1	62.6			
7-Oct-11	13:15	67.1	69.1	64.2			
7-Oct-11	13:20	66.8	69.2	63.2			
7-Oct-11	13:25	67.2	69.4	63.1			
7-Oct-11	13:30	66.4	68.6	62.6	66.9	68.9	63.2
7-Oct-11	13:35	66.7	68.9	62.5			
7-Oct-11	13:40	66.9	68.9	64.0			
7-Oct-11	13:45	66.4	68.7	63.1			
7-Oct-11	13:50	66.8	69.1	63.4			
7-Oct-11	13:55	66.5	68.7	63.0	66.5	68.9	62.3
7-Oct-11	14:00	66.7	68.8	63.7			
7-Oct-11	14:05	66.2	68.6	62.3			
7-Oct-11	14:10	66.5	68.6	63.3			
7-Oct-11	14:15	67.3	68.8	63.8			
7-Oct-11	14:20	67.9	69.9	63.5	66.5	68.9	62.3
7-Oct-11	14:25	66.6	68.5	62.8			
7-Oct-11	14:30	66.5	68.7	62.7			
7-Oct-11	14:35	66.9	69.7	62.8			
7-Oct-11	14:40	66.8	69.4	61.9			
7-Oct-11	14:45	67.0	69.6	63.0	66.5	68.9	62.3
7-Oct-11	14:50	66.0	67.9	61.9			
7-Oct-11	14:55	65.6	68.1	61.6			

Date	dB(A)						
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30-min)	L <sub>10</sub> (Average)	L <sub>90</sub> (Average)
7-Oct-11	15:00	66.2	68.7	62.5	66.4	68.7	62.8
7-Oct-11	15:05	66.6	68.6	63.0			
7-Oct-11	15:10	65.9	68.3	62.3			
7-Oct-11	15:15	66.2	68.3	62.8			
7-Oct-11	15:20	66.1	68.4	62.6			
7-Oct-11	15:25	67.3	69.8	63.4	65.8	68.2	62.1
7-Oct-11	15:30	65.6	68.2	61.8			
7-Oct-11	15:35	65.4	67.6	61.7			
7-Oct-11	15:40	65.8	68.2	62.2			
7-Oct-11	15:45	66.1	68.6	62.0			
7-Oct-11	15:50	66.1	68.1	63.0	65.8	68.4	61.6
7-Oct-11	15:55	65.9	68.5	62.0			
7-Oct-11	16:00	66.7	69.1	63.0			
7-Oct-11	16:05	65.1	67.7	60.8			
7-Oct-11	16:10	65.5	68.3	61.4			
7-Oct-11	16:15	66.0	68.2	61.4	65.8	68.4	61.6
7-Oct-11	16:20	65.8	68.3	62.1			
7-Oct-11	16:25	65.7	68.7	60.8			
7-Oct-11	16:30	65.5	68.3	60.8			
7-Oct-11	16:35	65.8	68.2	62.3			
7-Oct-11	16:40	66.9	69.5	62.6	65.8	68.4	61.6
7-Oct-11	16:45	66.2	68.8	62.1			
7-Oct-11	16:50	65.1	67.6	61.1			
7-Oct-11	16:55	65.1	67.8	60.4			
7-Oct-11	17:00	65.7	68.2	62.2			
7-Oct-11	17:05	66.1	68.6	61.8	65.8	68.3	61.5
7-Oct-11	17:10	66.2	68.5	62.3			
7-Oct-11	17:15	66.1	69.0	61.1			
7-Oct-11	17:20	64.8	67.3	60.7			
7-Oct-11	17:25	65.6	68.2	61.0			
7-Oct-11	17:30	65.1	67.6	60.9	65.3	67.6	61.1
7-Oct-11	17:35	65.7	68.2	61.5			
7-Oct-11	17:40	65.2	66.4	60.7			
7-Oct-11	17:45	64.6	67.1	60.5			
7-Oct-11	17:50	65.7	68.2	61.5			
7-Oct-11	17:55	65.5	68.1	61.2	64.5	66.9	60.5
7-Oct-11	18:00	65.1	67.6	61.1			
7-Oct-11	18:05	64.8	67.0	61.6			
7-Oct-11	18:10	65.1	67.3	61.4			
7-Oct-11	18:15	64.0	66.7	59.2			
7-Oct-11	18:20	63.6	66.3	59.4	63.8	66.5	59.9
7-Oct-11	18:25	63.9	66.3	60.3			
7-Oct-11	18:30	64.1	66.9	60.1			
7-Oct-11	18:35	63.4	66.2	59.7			
7-Oct-11	18:40	63.9	66.5	59.8			
7-Oct-11	18:45	63.3	66.0	59.6	63.8	66.5	59.9
7-Oct-11	18:50	64.5	66.9	60.4			
7-Oct-11	18:55	63.5	66.4	59.5			

Mean	66.2	68.5	62.4
Maximum	67.3	69.4	64.0
Minimum	63.8	66.5	59.9

**Appendix C1**

**Day-time Noise Level at Open Area near Naval Base Barrack\_NM7**

Date	dB(A)						
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30-min)	L <sub>10</sub> (Average)	L <sub>90</sub> (Average)
8-Oct-11	7:00	65.3	67.7	61.4	65.1	67.7	61.0
8-Oct-11	7:05	63.8	66.5	60.2			
8-Oct-11	7:10	64.9	67.7	60.9			
8-Oct-11	7:15	64.1	66.9	60.1			
8-Oct-11	7:20	66.1	68.6	62.3			
8-Oct-11	7:25	65.7	68.6	61.2	66.5	68.9	62.6
8-Oct-11	7:30	65.1	67.5	61.2			
8-Oct-11	7:35	66.7	68.8	62.9			
8-Oct-11	7:40	66.9	69.8	62.4			
8-Oct-11	7:45	66.2	68.6	62.9			
8-Oct-11	7:50	67.5	70.0	63.1	67.3	69.6	63.8
8-Oct-11	7:55	66.4	68.6	63.3			
8-Oct-11	8:00	67.0	69.1	63.9			
8-Oct-11	8:05	66.9	68.8	63.7			
8-Oct-11	8:10	67.3	69.8	63.2			
8-Oct-11	8:15	68.1	71.4	63.3	67.7	69.9	64.2
8-Oct-11	8:20	66.8	68.7	63.7			
8-Oct-11	8:25	67.4	69.5	64.7			
8-Oct-11	8:30	68.4	70.8	64.3			
8-Oct-11	8:35	67.3	69.4	64.1			
8-Oct-11	8:40	67.7	70.2	64.2	67.1	69.0	63.8
8-Oct-11	8:45	68.0	70.1	64.4			
8-Oct-11	8:50	67.7	69.6	63.9			
8-Oct-11	8:55	67.1	69.4	64.0			
8-Oct-11	9:00	66.6	68.7	63.3			
8-Oct-11	9:05	66.8	68.5	63.7	67.5	69.7	64.4
8-Oct-11	9:10	67.6	69.5	64.0			
8-Oct-11	9:15	66.8	68.5	63.3			
8-Oct-11	9:20	67.0	68.7	64.2			
8-Oct-11	9:25	67.6	69.8	64.0			
8-Oct-11	9:30	68.1	70.3	65.1	68.7	70.0	64.4
8-Oct-11	9:35	67.1	69.6	64.2			
8-Oct-11	9:40	67.1	69.2	64.2			
8-Oct-11	9:45	67.3	69.5	63.9			
8-Oct-11	9:50	67.5	69.6	64.4			
8-Oct-11	9:55	67.7	69.7	64.3	67.2	69.2	64.2
8-Oct-11	10:00	68.1	70.2	64.2			
8-Oct-11	10:05	72.4	73.3	66.1			
8-Oct-11	10:10	67.5	69.7	64.0			
8-Oct-11	10:15	67.3	69.8	64.1			
8-Oct-11	10:20	67.1	68.9	64.1	67.2	69.2	64.2
8-Oct-11	10:25	66.4	68.2	63.8			
8-Oct-11	10:30	67.2	68.8	64.9			
8-Oct-11	10:35	67.9	70.4	64.4			
8-Oct-11	10:40	67.0	68.8	64.2			
8-Oct-11	10:45	66.7	69.0	63.1	67.3	69.4	63.4
8-Oct-11	10:50	66.5	68.5	63.4			
8-Oct-11	10:55	67.9	69.7	65.0			

Date	dB(A)						
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30-min)	L <sub>10</sub> (Average)	L <sub>90</sub> (Average)
8-Oct-11	11:00	66.3	67.7	63.8	67.1	69.1	63.7
8-Oct-11	11:05	67.1	68.8	63.7			
8-Oct-11	11:10	67.3	69.2	63.0			
8-Oct-11	11:15	68.4	70.8	64.8			
8-Oct-11	11:20	66.4	68.6	62.9			
8-Oct-11	11:25	67.0	69.7	63.7	66.9	69.3	63.7
8-Oct-11	11:30	67.3	69.5	64.3			
8-Oct-11	11:35	67.7	69.5	65.1			
8-Oct-11	11:40	65.8	68.1	63.0			
8-Oct-11	11:45	66.8	69.4	63.1			
8-Oct-11	11:50	67.2	69.6	63.9	66.1	68.4	62.8
8-Oct-11	11:55	66.6	69.5	62.5			
8-Oct-11	12:00	66.0	68.0	63.3			
8-Oct-11	12:05	66.4	68.7	62.5			
8-Oct-11	12:10	66.4	68.5	63.6			
8-Oct-11	12:15	66.3	68.2	63.6	66.2	68.5	63.0
8-Oct-11	12:20	65.7	68.3	62.0			
8-Oct-11	12:25	66.0	68.6	61.8			
8-Oct-11	12:30	65.7	67.7	62.8			
8-Oct-11	12:35	66.7	69.1	63.3			
8-Oct-11	12:40	65.8	68.3	62.6	67.4	69.8	63.9
8-Oct-11	12:45	66.0	68.4	62.6			
8-Oct-11	12:50	66.2	68.7	62.7			
8-Oct-11	12:55	66.5	68.5	64.0			
8-Oct-11	13:00	67.3	70.0	63.9			
8-Oct-11	13:05	66.4	69.2	63.0	67.0	69.2	63.5
8-Oct-11	13:10	67.3	69.5	64.2			
8-Oct-11	13:15	67.4	69.6	64.8			
8-Oct-11	13:20	68.0	70.2	64.1			
8-Oct-11	13:25	68.0	70.0	63.2			
8-Oct-11	13:30	65.7	67.8	61.9	67.8	69.6	63.8
8-Oct-11	13:35	67.1	69.5	62.6			
8-Oct-11	13:40	67.4	69.3	65.0			
8-Oct-11	13:45	67.3	69.5	64.0			
8-Oct-11	13:50	67.3	69.7	63.2			
8-Oct-11	13:55	67.1	69.2	64.0	67.3	69.4	63.4
8-Oct-11	14:00	67.1	69.4	64.1			
8-Oct-11	14:05	67.0	69.6	63.1			
8-Oct-11	14:10	66.6	68.6	63.6			
8-Oct-11	14:15	68.2	69.2	64.2			
8-Oct-11	14:20	69.1	71.0	63.7	67.3	69.4	63.4
8-Oct-11	14:25	68.1	69.7	64.3			
8-Oct-11	14:30	66.7	68.7	63.7			
8-Oct-11	14:35	67.0	69.4	63.5			
8-Oct-11	14:40	67.6	70.1	62.9			
8-Oct-11	14:45	68.5	71.2	64.2	67.3	69.4	63.4
8-Oct-11	14:50	67.4	68.8	62.8			
8-Oct-11	14:55	66.3	68.4	63.0			

**Appendix C1**

**Day-time Noise Level at Open Area near Naval Base Barrack\_NM7**

Date	dB(A)						
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30-min)	L <sub>10</sub> (Average)	L <sub>90</sub> (Average)
8-Oct-11	15:00	67.1	69.7	63.2	67.0	69.2	63.7
8-Oct-11	15:05	67.1	69.0	63.7			
8-Oct-11	15:10	66.4	68.6	63.5			
8-Oct-11	15:15	66.9	68.9	63.8			
8-Oct-11	15:20	67.1	69.4	64.1			
8-Oct-11	15:25	67.4	69.8	64.0	66.5	68.7	63.1
8-Oct-11	15:30	65.5	67.8	62.5			
8-Oct-11	15:35	66.5	68.5	63.4			
8-Oct-11	15:40	66.0	68.1	62.8			
8-Oct-11	15:45	67.4	69.9	62.6			
8-Oct-11	15:50	66.9	68.9	63.9	66.6	68.8	62.8
8-Oct-11	15:55	66.4	68.7	63.2			
8-Oct-11	16:00	67.9	70.4	64.8			
8-Oct-11	16:05	66.5	68.7	62.6			
8-Oct-11	16:10	66.7	69.2	62.4			
8-Oct-11	16:15	65.9	67.1	62.0	66.2	68.7	62.5
8-Oct-11	16:20	66.0	68.4	62.5			
8-Oct-11	16:25	66.4	68.9	62.4			
8-Oct-11	16:30	65.9	68.4	62.2			
8-Oct-11	16:35	66.5	68.7	63.5			
8-Oct-11	16:40	66.2	68.8	62.2	66.5	69.1	62.3
8-Oct-11	16:45	67.0	69.9	62.9			
8-Oct-11	16:50	65.9	68.4	62.2			
8-Oct-11	16:55	65.5	68.1	62.0			
8-Oct-11	17:00	67.2	69.7	63.6			
8-Oct-11	17:05	66.7	69.3	61.9	65.9	68.1	62.0
8-Oct-11	17:10	66.3	68.6	61.3			
8-Oct-11	17:15	66.8	69.7	62.3			
8-Oct-11	17:20	65.6	68.6	61.3			
8-Oct-11	17:25	66.0	68.8	61.6			
8-Oct-11	17:30	65.5	67.7	61.3	65.8	67.8	62.0
8-Oct-11	17:35	66.7	68.6	62.9			
8-Oct-11	17:40	64.2	66.3	61.0			
8-Oct-11	17:45	65.7	68.5	61.9			
8-Oct-11	17:50	66.3	68.8	62.1			
8-Oct-11	17:55	66.5	68.8	62.8	64.4	66.8	60.7
8-Oct-11	18:00	67.0	69.4	63.0			
8-Oct-11	18:05	66.4	68.7	62.6			
8-Oct-11	18:10	66.7	68.7	63.2			
8-Oct-11	18:15	64.6	67.1	60.3			
8-Oct-11	18:20	64.1	66.0	61.2	64.4	66.8	60.7
8-Oct-11	18:25	64.9	67.0	61.5			
8-Oct-11	18:30	63.9	66.3	60.5			
8-Oct-11	18:35	64.5	67.3	60.4			
8-Oct-11	18:40	64.8	67.3	61.1			
8-Oct-11	18:45	64.1	66.5	60.9	64.4	66.8	60.7
8-Oct-11	18:50	64.4	66.7	60.1			
8-Oct-11	18:55	64.4	66.7	61.0			

Mean 66.8 68.9 63.1  
 Maximum 68.7 70.0 64.4  
 Minimum 64.4 66.8 60.7

Date	dB(A)						
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30-min)	L <sub>10</sub> (Average)	L <sub>90</sub> (Average)
10-Oct-11	7:00	64.2	67.4	58.3	64.1	66.9	58.9
10-Oct-11	7:05	62.9	65.8	57.3			
10-Oct-11	7:10	64.2	67.0	58.6			
10-Oct-11	7:15	62.8	66.0	58.4			
10-Oct-11	7:20	64.4	67.4	60.0			
10-Oct-11	7:25	65.3	67.5	61.0	65.3	67.9	61.4
10-Oct-11	7:30	65.7	68.3	61.2			
10-Oct-11	7:35	65.0	67.4	61.8			
10-Oct-11	7:40	65.4	68.2	61.4			
10-Oct-11	7:45	65.5	68.6	61.1			
10-Oct-11	7:50	65.0	67.1	62.4	65.8	68.0	62.3
10-Oct-11	7:55	65.3	68.0	60.5			
10-Oct-11	8:00	65.5	67.4	63.0			
10-Oct-11	8:05	66.3	68.1	63.0			
10-Oct-11	8:10	65.6	68.4	61.6			
10-Oct-11	8:15	65.6	67.8	62.2	66.8	68.8	63.3
10-Oct-11	8:20	66.5	68.7	63.0			
10-Oct-11	8:25	64.9	67.3	61.1			
10-Oct-11	8:30	66.8	69.1	62.3			
10-Oct-11	8:35	65.9	68.0	63.1			
10-Oct-11	8:40	66.4	68.7	63.0	66.6	68.9	62.9
10-Oct-11	8:45	67.2	69.3	64.0			
10-Oct-11	8:50	67.9	69.6	65.1			
10-Oct-11	8:55	66.1	68.3	62.4			
10-Oct-11	9:00	67.8	70.5	63.4			
10-Oct-11	9:05	65.9	68.1	62.1	65.8	68.2	61.6
10-Oct-11	9:10	66.4	68.8	63.5			
10-Oct-11	9:15	66.9	69.6	63.2			
10-Oct-11	9:20	66.3	68.7	62.8			
10-Oct-11	9:25	65.7	67.8	62.3			
10-Oct-11	9:30	65.4	67.9	61.7	65.5	67.9	61.3
10-Oct-11	9:35	65.6	68.0	60.7			
10-Oct-11	9:40	64.9	67.2	60.7			
10-Oct-11	9:45	65.9	68.3	62.6			
10-Oct-11	9:50	66.6	68.9	62.9			
10-Oct-11	9:55	66.2	68.6	61.0	66.6	69.0	62.5
10-Oct-11	10:00	64.7	67.0	61.2			
10-Oct-11	10:05	65.7	68.5	60.8			
10-Oct-11	10:10	65.2	67.6	61.5			
10-Oct-11	10:15	63.9	66.5	59.4			
10-Oct-11	10:20	66.8	68.7	63.0	66.6	69.0	62.5
10-Oct-11	10:25	66.2	68.8	61.9			
10-Oct-11	10:30	67.2	69.6	63.4			
10-Oct-11	10:35	66.3	68.9	61.4			
10-Oct-11	10:40	67.3	69.8	63.0			
10-Oct-11	10:45	66.6	69.0	62.3	66.6	69.0	62.5
10-Oct-11	10:50	65.5	68.1	61.9			
10-Oct-11	10:55	66.7	68.8	62.7			

**Appendix C1**

**Day-time Noise Level at Open Area near Naval Base Barrack\_NM7**

Date	dB(A)						
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30-min)	L <sub>10</sub> (Average)	L <sub>90</sub> (Average)
10-Oct-11	11:00	66.4	68.6	62.6	66.5	68.7	62.9
10-Oct-11	11:05	66.0	68.6	61.7			
10-Oct-11	11:10	66.2	68.4	63.2			
10-Oct-11	11:15	67.0	69.4	63.2			
10-Oct-11	11:20	66.9	68.9	63.6			
10-Oct-11	11:25	66.1	68.3	63.2	65.9	68.4	61.9
10-Oct-11	11:30	66.3	68.5	63.4			
10-Oct-11	11:35	66.0	68.4	60.9			
10-Oct-11	11:40	65.6	68.5	61.1			
10-Oct-11	11:45	66.1	68.4	62.8			
10-Oct-11	11:50	65.5	68.0	61.1	64.9	67.3	60.6
10-Oct-11	11:55	66.0	68.7	62.1			
10-Oct-11	12:00	65.2	67.6	60.5			
10-Oct-11	12:05	64.6	66.6	61.3			
10-Oct-11	12:10	64.9	67.7	60.1			
10-Oct-11	12:15	65.9	68.1	62.1	64.5	67.0	60.5
10-Oct-11	12:20	64.8	67.8	60.1			
10-Oct-11	12:25	63.3	66.2	59.6			
10-Oct-11	12:30	63.6	65.9	60.3			
10-Oct-11	12:35	63.5	66.2	59.7			
10-Oct-11	12:40	64.4	66.8	60.9	65.9	68.2	62.5
10-Oct-11	12:45	66.0	68.5	61.1			
10-Oct-11	12:50	64.0	66.8	60.0			
10-Oct-11	12:55	65.1	67.8	61.2			
10-Oct-11	13:00	66.2	68.0	63.3			
10-Oct-11	13:05	65.6	68.3	62.0	66.2	68.5	62.9
10-Oct-11	13:10	65.9	68.3	62.1			
10-Oct-11	13:15	65.8	68.1	63.0			
10-Oct-11	13:20	66.1	68.5	62.3			
10-Oct-11	13:25	65.6	67.9	62.1			
10-Oct-11	13:30	66.0	68.2	62.5	66.4	68.9	62.5
10-Oct-11	13:35	66.3	68.6	63.0			
10-Oct-11	13:40	65.6	67.5	63.1			
10-Oct-11	13:45	66.0	68.1	62.6			
10-Oct-11	13:50	65.8	68.5	62.3			
10-Oct-11	13:55	67.5	69.8	64.1	66.5	69.1	62.1
10-Oct-11	14:00	66.0	68.4	62.4			
10-Oct-11	14:05	66.3	68.8	62.0			
10-Oct-11	14:10	66.2	68.5	62.8			
10-Oct-11	14:15	65.2	68.3	62.1			
10-Oct-11	14:20	67.8	70.6	63.6	65.5	68.5	61.0
10-Oct-11	14:25	66.2	68.9	61.8			
10-Oct-11	14:30	67.3	70.0	62.4			
10-Oct-11	14:35	66.7	69.4	63.0			
10-Oct-11	14:40	67.6	70.5	62.4			
10-Oct-11	14:45	65.7	68.3	62.0	65.5	67.7	61.8
10-Oct-11	14:50	65.5	68.5	61.0			
10-Oct-11	14:55	65.5	67.7	61.8			

Date	dB(A)						
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30-min)	L <sub>10</sub> (Average)	L <sub>90</sub> (Average)
10-Oct-11	15:00	65.1	67.5	61.8	65.5	67.9	61.8
10-Oct-11	15:05	64.7	67.0	61.2			
10-Oct-11	15:10	65.5	68.0	62.1			
10-Oct-11	15:15	65.8	68.5	61.6			
10-Oct-11	15:20	65.4	68.0	61.2			
10-Oct-11	15:25	66.4	68.3	62.7	66.5	68.7	63.0
10-Oct-11	15:30	65.6	67.8	61.8			
10-Oct-11	15:35	65.8	68.2	62.2			
10-Oct-11	15:40	66.1	68.6	62.7			
10-Oct-11	15:45	66.7	68.8	63.6			
10-Oct-11	15:50	67.3	69.6	64.1	66.2	68.5	62.8
10-Oct-11	15:55	67.0	69.2	63.4			
10-Oct-11	16:00	66.2	68.6	63.1			
10-Oct-11	16:05	66.8	69.1	63.6			
10-Oct-11	16:10	66.2	68.5	63.3			
10-Oct-11	16:15	66.1	68.4	62.8	65.6	68.1	62.0
10-Oct-11	16:20	65.5	68.1	62.0			
10-Oct-11	16:25	66.1	68.5	62.2			
10-Oct-11	16:30	66.0	68.4	62.3			
10-Oct-11	16:35	65.4	67.8	61.8			
10-Oct-11	16:40	65.3	67.8	61.8	65.9	68.3	62.2
10-Oct-11	16:45	66.0	68.4	62.4			
10-Oct-11	16:50	65.7	68.0	62.2			
10-Oct-11	16:55	65.4	68.4	61.4			
10-Oct-11	17:00	65.0	67.1	61.8			
10-Oct-11	17:05	65.7	68.7	61.8	65.4	67.8	61.8
10-Oct-11	17:10	65.7	68.4	62.0			
10-Oct-11	17:15	66.4	68.9	62.5			
10-Oct-11	17:20	66.1	68.2	62.6			
10-Oct-11	17:25	66.1	68.7	62.5			
10-Oct-11	17:30	65.7	67.9	62.5	65.3	67.8	61.2
10-Oct-11	17:35	65.8	68.3	62.1			
10-Oct-11	17:40	65.0	67.4	61.5			
10-Oct-11	17:45	65.5	67.8	62.1			
10-Oct-11	17:50	66.1	68.7	62.1			
10-Oct-11	17:55	64.0	66.5	60.7	65.1	67.7	61.2
10-Oct-11	18:00	64.8	67.2	60.6			
10-Oct-11	18:05	65.3	67.3	62.0			
10-Oct-11	18:10	65.3	68.0	60.8			
10-Oct-11	18:15	66.2	68.9	61.8			
10-Oct-11	18:20	65.6	67.9	62.0	64.6	67.0	60.9
10-Oct-11	18:25	64.5	67.2	59.9			
10-Oct-11	18:30	65.3	68.0	60.9			
10-Oct-11	18:35	65.3	67.9	61.4			
10-Oct-11	18:40	65.0	67.6	61.0			
10-Oct-11	18:45	65.1	67.6	61.3	64.6	67.0	60.9
10-Oct-11	18:50	65.5	68.1	61.8			
10-Oct-11	18:55	64.6	67.0	60.9			

Mean	65.8	68.2	61.9
Maximum	66.8	69.1	63.3
Minimum	64.1	66.9	58.9

**Appendix C1**

**Day-time Noise Level at Open Area near Naval Base Barrack\_NM7**

Date	dB(A)						
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30-min)	L <sub>10</sub> (Average)	L <sub>90</sub> (Average)
11-Oct-11	7:00	62.7	65.3	58.7	63.6	66.5	59.2
11-Oct-11	7:05	64.1	67.1	59.2			
11-Oct-11	7:10	63.8	67.2	58.5			
11-Oct-11	7:15	63.2	66.3	59.4			
11-Oct-11	7:20	63.8	66.5	59.4			
11-Oct-11	7:25	64.1	66.7	60.1	65.4	67.9	61.8
11-Oct-11	7:30	63.6	65.8	60.4			
11-Oct-11	7:35	64.5	66.8	61.2			
11-Oct-11	7:40	65.5	67.6	62.0			
11-Oct-11	7:45	66.3	69.5	62.3			
11-Oct-11	7:50	66.4	69.0	63.1	65.7	67.9	62.1
11-Oct-11	7:55	65.7	68.4	61.9			
11-Oct-11	8:00	65.3	67.5	61.9			
11-Oct-11	8:05	65.3	67.8	61.6			
11-Oct-11	8:10	64.2	66.7	60.4			
11-Oct-11	8:15	65.9	68.1	63.0	66.7	68.7	63.8
11-Oct-11	8:20	66.5	68.7	63.0			
11-Oct-11	8:25	66.5	68.6	62.7			
11-Oct-11	8:30	66.6	69.0	63.2			
11-Oct-11	8:35	66.6	68.7	63.3			
11-Oct-11	8:40	67.2	68.8	64.2	66.5	68.6	63.4
11-Oct-11	8:45	66.7	68.6	63.9			
11-Oct-11	8:50	66.8	68.9	63.9			
11-Oct-11	8:55	66.5	68.3	64.1			
11-Oct-11	9:00	66.7	69.1	63.2			
11-Oct-11	9:05	65.9	68.1	62.8	66.4	68.8	62.8
11-Oct-11	9:10	66.2	68.1	63.5			
11-Oct-11	9:15	66.6	68.6	63.7			
11-Oct-11	9:20	67.4	69.6	64.2			
11-Oct-11	9:25	66.2	68.3	63.2			
11-Oct-11	9:30	65.9	68.5	62.7	66.3	68.6	62.4
11-Oct-11	9:35	66.5	68.6	63.2			
11-Oct-11	9:40	66.6	68.5	63.7			
11-Oct-11	9:45	66.2	68.8	62.2			
11-Oct-11	9:50	66.1	68.6	62.3			
11-Oct-11	9:55	67.1	70.0	62.5	66.1	68.5	62.3
11-Oct-11	10:00	65.5	68.1	61.3			
11-Oct-11	10:05	65.9	68.3	62.9			
11-Oct-11	10:10	66.2	68.7	62.4			
11-Oct-11	10:15	66.7	68.9	63.3			
11-Oct-11	10:20	66.4	68.7	62.1	66.1	68.5	62.3
11-Oct-11	10:25	66.7	69.1	62.1			
11-Oct-11	10:30	66.2	68.6	61.6			
11-Oct-11	10:35	66.6	69.2	63.2			
11-Oct-11	10:40	66.2	68.5	62.5			
11-Oct-11	10:45	65.8	67.8	61.8	66.1	68.5	62.3
11-Oct-11	10:50	65.7	68.1	61.9			
11-Oct-11	10:55	66.2	68.7	62.5			

Date	dB(A)						
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30-min)	L <sub>10</sub> (Average)	L <sub>90</sub> (Average)
11-Oct-11	11:00	66.6	69.4	62.6	66.6	69.0	63.1
11-Oct-11	11:05	67.0	69.4	63.7			
11-Oct-11	11:10	67.1	69.2	63.4			
11-Oct-11	11:15	66.1	68.5	63.1			
11-Oct-11	11:20	65.8	68.1	62.7			
11-Oct-11	11:25	66.9	69.4	62.9	66.8	69.0	63.1
11-Oct-11	11:30	66.6	69.1	63.1			
11-Oct-11	11:35	67.1	69.1	63.5			
11-Oct-11	11:40	66.8	68.8	63.5			
11-Oct-11	11:45	66.5	68.4	63.4			
11-Oct-11	11:50	66.4	68.8	62.5	66.0	68.5	62.1
11-Oct-11	11:55	67.1	69.6	62.4			
11-Oct-11	12:00	66.4	69.0	62.5			
11-Oct-11	12:05	67.0	69.8	62.1			
11-Oct-11	12:10	65.7	68.0	62.2			
11-Oct-11	12:15	65.4	67.9	61.9	66.0	68.3	62.4
11-Oct-11	12:20	65.4	67.8	61.5			
11-Oct-11	12:25	66.0	68.5	62.3			
11-Oct-11	12:30	65.3	67.5	62.1			
11-Oct-11	12:35	66.4	69.0	62.1			
11-Oct-11	12:40	65.4	67.7	62.1	66.4	68.7	62.7
11-Oct-11	12:45	66.6	68.5	63.6			
11-Oct-11	12:50	65.4	68.0	61.2			
11-Oct-11	12:55	66.6	69.0	63.3			
11-Oct-11	13:00	66.5	68.9	63.1			
11-Oct-11	13:05	67.4	69.3	63.3	66.2	68.4	62.7
11-Oct-11	13:10	65.9	68.6	60.9			
11-Oct-11	13:15	66.7	68.5	63.5			
11-Oct-11	13:20	65.5	68.2	62.3			
11-Oct-11	13:25	66.3	68.7	62.9			
11-Oct-11	13:30	67.0	69.3	63.3	66.1	68.2	62.6
11-Oct-11	13:35	66.2	68.3	62.4			
11-Oct-11	13:40	66.4	68.4	63.0			
11-Oct-11	13:45	65.4	67.8	62.1			
11-Oct-11	13:50	66.3	68.4	63.5			
11-Oct-11	13:55	65.9	68.2	62.0	65.7	68.4	61.2
11-Oct-11	14:00	66.3	68.2	63.2			
11-Oct-11	14:05	65.3	67.6	61.4			
11-Oct-11	14:10	66.4	68.6	62.9			
11-Oct-11	14:15	66.3	68.4	63.4			
11-Oct-11	14:20	66.7	68.8	63.3	65.7	68.4	61.2
11-Oct-11	14:25	65.1	67.3	61.2			
11-Oct-11	14:30	66.3	68.7	61.7			
11-Oct-11	14:35	66.8	70.0	62.0			
11-Oct-11	14:40	65.9	68.7	60.9			
11-Oct-11	14:45	65.4	68.0	61.7	65.7	68.4	61.2
11-Oct-11	14:50	64.5	67.0	60.9			
11-Oct-11	14:55	64.8	67.7	60.2			



**Appendix C1**

**Day-time Noise Level at Open Area near Naval Base Barrack\_NM7**

Date	dB(A)						
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30-min)	L <sub>10</sub> (Average)	L <sub>90</sub> (Average)
11-Oct-11	15:00	65.3	67.7	61.8	65.7	68.1	61.8
11-Oct-11	15:05	66.0	68.2	62.2			
11-Oct-11	15:10	65.3	67.9	61.0			
11-Oct-11	15:15	65.4	67.7	61.8			
11-Oct-11	15:20	65.0	67.3	61.1			
11-Oct-11	15:25	67.1	69.7	62.8	65.2	67.7	61.1
11-Oct-11	15:30	65.7	68.6	61.0			
11-Oct-11	15:35	64.3	66.7	60.0			
11-Oct-11	15:40	65.6	68.2	61.5			
11-Oct-11	15:45	64.7	67.3	61.4			
11-Oct-11	15:50	65.2	67.2	62.1	65.0	67.9	60.3
11-Oct-11	15:55	65.4	68.3	60.7			
11-Oct-11	16:00	65.4	67.7	61.1			
11-Oct-11	16:05	63.6	66.7	59.0			
11-Oct-11	16:10	64.3	67.3	60.3			
11-Oct-11	16:15	66.0	69.3	60.8	65.5	68.0	60.6
11-Oct-11	16:20	65.6	68.1	61.6			
11-Oct-11	16:25	64.9	68.4	59.2			
11-Oct-11	16:30	65.1	68.1	59.4			
11-Oct-11	16:35	65.1	67.6	61.1			
11-Oct-11	16:40	67.5	70.1	63.0	65.1	67.5	60.7
11-Oct-11	16:45	65.3	67.7	61.3			
11-Oct-11	16:50	64.3	66.8	59.9			
11-Oct-11	16:55	64.7	67.4	58.8			
11-Oct-11	17:00	64.2	66.7	60.8			
11-Oct-11	17:05	65.5	67.9	61.7	64.8	67.1	60.1
11-Oct-11	17:10	66.0	68.4	61.6			
11-Oct-11	17:15	65.4	68.2	59.9			
11-Oct-11	17:20	64.0	66.0	60.0			
11-Oct-11	17:25	65.1	67.6	60.4			
11-Oct-11	17:30	64.7	67.4	60.5	63.2	65.9	59.0
11-Oct-11	17:35	64.6	67.8	60.0			
11-Oct-11	17:40	66.2	66.5	60.4			
11-Oct-11	17:45	63.4	65.7	59.0			
11-Oct-11	17:50	65.0	67.6	60.8			
11-Oct-11	17:55	64.4	67.3	59.6	63.3	66.1	59.0
11-Oct-11	18:00	63.2	65.8	59.2			
11-Oct-11	18:05	63.2	65.3	60.6			
11-Oct-11	18:10	63.5	65.9	59.5			
11-Oct-11	18:15	63.4	66.2	58.1			
11-Oct-11	18:20	63.1	66.5	57.5	63.3	66.1	59.0
11-Oct-11	18:25	62.8	65.6	59.0			
11-Oct-11	18:30	64.3	67.5	59.7			
11-Oct-11	18:35	62.3	65.0	59.0			
11-Oct-11	18:40	63.0	65.7	58.5			
11-Oct-11	18:45	62.4	65.5	58.3	63.3	66.1	59.0
11-Oct-11	18:50	64.6	67.1	60.7			
11-Oct-11	18:55	62.6	66.0	57.9			

Mean 65.7 68.0 61.7  
 Maximum 66.8 69.0 63.8  
 Minimum 63.2 65.9 59.0

Date	dB(A)						
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30-min)	L <sub>10</sub> (Average)	L <sub>90</sub> (Average)
12-Oct-11	7:00	63.6	66.3	60.9	63.0	65.7	59.2
12-Oct-11	7:05	63.6	65.9	60.3			
12-Oct-11	7:10	61.7	64.3	58.6			
12-Oct-11	7:15	63.1	66.1	58.4			
12-Oct-11	7:20	63.3	66.4	57.8			
12-Oct-11	7:25	62.6	65.2	59.2	63.0	65.9	58.8
12-Oct-11	7:30	62.0	64.7	58.4			
12-Oct-11	7:35	62.7	65.7	58.5			
12-Oct-11	7:40	62.1	65.1	58.4			
12-Oct-11	7:45	63.0	65.7	59.1			
12-Oct-11	7:50	64.3	67.8	58.5	63.6	66.2	59.6
12-Oct-11	7:55	63.7	66.6	59.9			
12-Oct-11	8:00	62.3	64.7	59.0			
12-Oct-11	8:05	63.2	66.2	59.4			
12-Oct-11	8:10	62.6	65.4	59.0			
12-Oct-11	8:15	65.4	67.8	61.7	64.6	67.1	60.4
12-Oct-11	8:20	63.3	66.3	58.3			
12-Oct-11	8:25	64.1	66.5	60.1			
12-Oct-11	8:30	65.4	67.7	61.5			
12-Oct-11	8:35	66.3	68.7	62.6			
12-Oct-11	8:40	64.9	67.7	60.8	65.7	68.5	60.1
12-Oct-11	8:45	64.3	67.0	60.2			
12-Oct-11	8:50	63.5	66.0	59.9			
12-Oct-11	8:55	62.2	65.6	57.4			
12-Oct-11	9:00	63.7	66.2	60.5			
12-Oct-11	9:05	65.7	68.4	59.6	65.1	67.6	60.7
12-Oct-11	9:10	66.5	69.7	59.2			
12-Oct-11	9:15	66.4	69.9	59.7			
12-Oct-11	9:20	65.4	68.5	59.9			
12-Oct-11	9:25	65.7	68.4	61.5			
12-Oct-11	9:30	65.3	68.0	60.5	64.8	67.3	60.7
12-Oct-11	9:35	64.8	67.3	61.0			
12-Oct-11	9:40	64.3	66.7	60.2			
12-Oct-11	9:45	65.5	68.0	61.0			
12-Oct-11	9:50	66.1	68.8	60.9			
12-Oct-11	9:55	64.2	66.8	60.6	64.0	66.6	60.3
12-Oct-11	10:00	63.7	66.2	61.1			
12-Oct-11	10:05	66.3	69.3	61.6			
12-Oct-11	10:10	65.0	67.5	61.2			
12-Oct-11	10:15	64.0	66.6	60.4			
12-Oct-11	10:20	64.1	66.5	59.8	64.0	66.6	60.3
12-Oct-11	10:25	65.0	67.5	60.3			
12-Oct-11	10:30	64.1	67.1	60.6			
12-Oct-11	10:35	62.7	64.9	59.3			
12-Oct-11	10:40	65.0	67.7	61.1			
12-Oct-11	10:45	63.9	66.6	59.8	64.0	66.6	60.3
12-Oct-11	10:50	64.3	67.7	60.0			
12-Oct-11	10:55	63.6	65.5	61.0			

**Appendix C1**

**Day-time Noise Level at Open Area near Naval Base Barrack\_NM7**

Date	dB(A)						
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30-min)	L <sub>10</sub> (Average)	L <sub>90</sub> (Average)
12-Oct-11	11:00	63.5	66.4	59.0	63.3	66.0	59.2
12-Oct-11	11:05	62.1	64.9	58.6			
12-Oct-11	11:10	63.7	66.7	59.3			
12-Oct-11	11:15	62.0	64.5	58.3			
12-Oct-11	11:20	64.1	67.0	59.4			
12-Oct-11	11:25	63.8	66.3	60.5	63.7	66.7	58.9
12-Oct-11	11:30	63.1	66.1	58.5			
12-Oct-11	11:35	63.3	66.9	58.1			
12-Oct-11	11:40	64.2	67.4	58.6			
12-Oct-11	11:45	65.2	67.5	60.8			
12-Oct-11	11:50	63.4	66.6	58.6	63.7	66.3	59.3
12-Oct-11	11:55	62.7	65.8	58.6			
12-Oct-11	12:00	64.0	67.3	59.7			
12-Oct-11	12:05	65.5	68.9	60.1			
12-Oct-11	12:10	65.1	67.6	61.6			
12-Oct-11	12:15	62.4	65.1	58.0	62.7	65.4	59.0
12-Oct-11	12:20	62.8	65.6	58.1			
12-Oct-11	12:25	60.7	63.2	58.0			
12-Oct-11	12:30	63.5	66.0	59.1			
12-Oct-11	12:35	62.5	64.9	59.8			
12-Oct-11	12:40	62.9	66.0	58.4	62.7	65.6	58.5
12-Oct-11	12:45	62.4	65.1	58.5			
12-Oct-11	12:50	63.1	65.6	59.9			
12-Oct-11	12:55	61.7	64.7	58.0			
12-Oct-11	13:00	63.5	66.7	58.5			
12-Oct-11	13:05	62.3	64.7	58.6	63.6	66.2	59.6
12-Oct-11	13:10	62.9	65.9	58.4			
12-Oct-11	13:15	62.2	65.1	58.1			
12-Oct-11	13:20	62.4	65.2	58.9			
12-Oct-11	13:25	63.0	66.0	58.2			
12-Oct-11	13:30	65.0	67.4	59.0	63.2	65.8	59.6
12-Oct-11	13:35	64.2	66.8	61.1			
12-Oct-11	13:40	63.8	66.7	59.9			
12-Oct-11	13:45	62.2	64.7	58.7			
12-Oct-11	13:50	63.3	65.9	59.6			
12-Oct-11	13:55	62.6	65.4	59.2	62.6	65.3	58.2
12-Oct-11	14:00	62.5	66.1	58.9			
12-Oct-11	14:05	63.5	66.2	59.8			
12-Oct-11	14:10	64.4	66.7	59.7			
12-Oct-11	14:15	63.6	66.1	60.6			
12-Oct-11	14:20	63.4	65.7	60.1	62.6	65.3	58.2
12-Oct-11	14:25	61.4	64.2	58.4			
12-Oct-11	14:30	64.3	67.2	58.3			
12-Oct-11	14:35	61.9	64.8	58.0			
12-Oct-11	14:40	62.5	65.6	59.0			
12-Oct-11	14:45	61.7	64.3	57.5	62.6	65.3	58.2
12-Oct-11	14:50	62.6	65.3	58.0			
12-Oct-11	14:55	61.9	64.5	58.4			

Date	dB(A)							
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30-min)	L <sub>10</sub> (Average)	L <sub>90</sub> (Average)	
12-Oct-11	15:00	61.9	64.5	58.2	61.8	64.5	58.2	
12-Oct-11	15:05	62.6	65.5	58.4				
12-Oct-11	15:10	60.8	63.8	56.9				
12-Oct-11	15:15	61.0	63.5	58.0				
12-Oct-11	15:20	62.9	65.5	59.4				
12-Oct-11	15:25	61.4	64.2	58.4	62.3	64.8	58.4	
12-Oct-11	15:30	62.7	65.1	60.0				
12-Oct-11	15:35	63.0	65.6	58.7				
12-Oct-11	15:40	63.4	65.9	58.3				
12-Oct-11	15:45	61.7	65.0	57.9				
12-Oct-11	15:50	61.6	64.5	57.9	61.9	64.4	58.0	
12-Oct-11	15:55	60.5	62.8	57.6				
12-Oct-11	16:00	60.8	63.2	57.7				
12-Oct-11	16:05	61.6	64.4	58.2				
12-Oct-11	16:10	63.7	65.7	58.2				
12-Oct-11	16:15	62.2	64.8	59.1	60.7	63.1	57.5	
12-Oct-11	16:20	61.0	64.2	57.5				
12-Oct-11	16:25	61.3	64.2	57.3				
12-Oct-11	16:30	60.7	63.5	57.3				
12-Oct-11	16:35	61.1	63.5	57.4				
12-Oct-11	16:40	59.2	60.9	57.1	61.0	63.2	58.1	
12-Oct-11	16:45	61.8	64.3	58.7				
12-Oct-11	16:50	60.5	62.5	57.5				
12-Oct-11	16:55	60.5	63.6	56.7				
12-Oct-11	17:00	62.6	64.8	59.1				
12-Oct-11	17:05	59.9	61.9	57.2	61.8	63.5	58.6	
12-Oct-11	17:10	60.5	62.6	58.0				
12-Oct-11	17:15	60.5	62.6	58.0				
12-Oct-11	17:20	60.4	63.1	57.9				
12-Oct-11	17:25	61.5	63.9	58.2				
12-Oct-11	17:30	64.1	66.9	59.2	61.0	62.8	58.6	
12-Oct-11	17:35	62.0	64.8	58.6				
12-Oct-11	17:40	60.9	62.6	58.4				
12-Oct-11	17:45	60.8	61.7	58.6				
12-Oct-11	17:50	61.5	63.3	58.4				
12-Oct-11	17:55	60.4	61.8	58.3	61.4	63.4	58.9	
12-Oct-11	18:00	61.3	63.7	59.0				
12-Oct-11	18:05	61.5	63.4	59.1				
12-Oct-11	18:10	60.4	62.0	58.5				
12-Oct-11	18:15	60.6	62.2	58.6				
12-Oct-11	18:20	61.5	64.0	58.3	61.4	63.4	58.9	
12-Oct-11	18:25	60.3	61.7	58.2				
12-Oct-11	18:30	60.5	62.4	58.3				
12-Oct-11	18:35	61.7	63.8	58.9				
12-Oct-11	18:40	61.8	64.5	58.4				
12-Oct-11	18:45	61.8	63.6	59.4	61.4	63.4	58.9	
12-Oct-11	18:50	60.9	63.0	59.1				
12-Oct-11	18:55	61.4	63.3	59.1				
					Mean	63.2	65.5	59.1
					Maximum	65.7	68.5	60.7
					Minimum	60.7	62.8	57.5

	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
Mean	65.9	68.1	61.5
Maximum	68.7	71.6	64.7
Minimum	60.7	62.8	51.2

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**APPENDIX C2**  
**Evening-time 19:00-23:00hrs and Holidays**  
**07:00-2300hrs Baseline Noise Monitoring**  
**Data**

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## Appendix C2

### Evening Time and Holiday Noise Level at Open Area near Naval Base Barrack\_NM7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
26-Sep-11	19:00	63.8	65.7	60.3
26-Sep-11	19:05	62.5	65.3	58.6
26-Sep-11	19:10	64.3	66.6	60.5
26-Sep-11	19:15	65.4	68.4	61.0
26-Sep-11	19:20	63.1	65.2	60.1
26-Sep-11	19:25	63.2	65.8	59.5
26-Sep-11	19:30	64.2	67.1	59.9
26-Sep-11	19:35	65.3	67.7	61.4
26-Sep-11	19:40	62.9	65.6	59.6
26-Sep-11	19:45	64.2	66.7	60.5
26-Sep-11	19:50	63.6	66.7	59.9
26-Sep-11	19:55	63.5	65.7	60.1
26-Sep-11	20:00	63.3	65.8	60.4
26-Sep-11	20:05	64.0	67.0	59.4
26-Sep-11	20:10	63.2	66.1	59.9
26-Sep-11	20:15	64.0	66.6	60.9
26-Sep-11	20:20	63.6	65.6	61.1
26-Sep-11	20:25	63.5	65.6	60.5
26-Sep-11	20:30	63.0	65.4	60.2
26-Sep-11	20:35	62.6	65.6	59.3
26-Sep-11	20:40	62.9	65.1	60.2
26-Sep-11	20:45	62.2	63.6	60.8
26-Sep-11	20:50	64.6	66.4	62.9
26-Sep-11	20:55	63.4	65.5	60.2
26-Sep-11	21:00	61.7	63.7	59.3
26-Sep-11	21:05	62.1	64.0	59.6
26-Sep-11	21:10	62.9	65.7	59.5
26-Sep-11	21:15	62.8	65.4	59.4
26-Sep-11	21:20	61.1	63.7	58.5
26-Sep-11	21:25	62.5	64.3	60.3
26-Sep-11	21:30	62.0	63.8	60.0
26-Sep-11	21:35	62.1	64.4	59.4
26-Sep-11	21:40	63.8	66.1	60.2
26-Sep-11	21:45	62.8	65.3	59.8
26-Sep-11	21:50	62.4	64.3	59.8
26-Sep-11	21:55	63.5	65.5	60.9
26-Sep-11	22:00	62.5	64.7	59.8
26-Sep-11	22:05	62.4	64.5	59.9
26-Sep-11	22:10	62.4	64.3	60.0
26-Sep-11	22:15	62.9	65.3	60.2
26-Sep-11	22:20	63.0	65.2	60.2
26-Sep-11	22:25	62.0	63.6	59.8
26-Sep-11	22:30	62.6	64.7	60.3
26-Sep-11	22:35	62.3	64.1	59.5
26-Sep-11	22:40	63.8	65.8	61.1
26-Sep-11	22:45	63.1	64.8	60.1
26-Sep-11	22:50	63.1	65.6	60.4
26-Sep-11	22:55	61.7	63.9	58.8
	Mean	63.2	65.4	60.1
	Maximum	65.4	68.4	62.9
	Minimum	61.1	63.6	58.5

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
27-Sep-11	19:00	65.1	67.9	60.5
27-Sep-11	19:05	63.8	66.1	60.6
27-Sep-11	19:10	64.7	66.8	61.4
27-Sep-11	19:15	65.5	68.4	60.4
27-Sep-11	19:20	63.7	66.6	59.9
27-Sep-11	19:25	64.1	67.0	59.2
27-Sep-11	19:30	63.4	66.5	59.8
27-Sep-11	19:35	63.8	66.2	60.0
27-Sep-11	19:40	64.4	67.2	58.8
27-Sep-11	19:45	65.0	67.6	60.4
27-Sep-11	19:50	63.3	65.9	59.9
27-Sep-11	19:55	63.7	66.5	59.2
27-Sep-11	20:00	63.7	66.3	59.4
27-Sep-11	20:05	63.8	67.6	59.1
27-Sep-11	20:10	64.1	66.4	60.3
27-Sep-11	20:15	62.4	65.0	59.0
27-Sep-11	20:20	63.3	66.2	58.9
27-Sep-11	20:25	63.6	66.3	60.1
27-Sep-11	20:30	63.3	65.8	59.6
27-Sep-11	20:35	63.7	66.0	60.1
27-Sep-11	20:40	60.7	62.7	58.2
27-Sep-11	20:45	60.4	62.1	58.0
27-Sep-11	20:50	64.1	66.7	59.0
27-Sep-11	20:55	62.5	65.3	58.3
27-Sep-11	21:00	59.9	62.2	57.2
27-Sep-11	21:05	60.1	62.2	57.7
27-Sep-11	21:10	62.6	65.1	58.6
27-Sep-11	21:15	62.8	65.5	58.7
27-Sep-11	21:20	60.5	62.7	57.4
27-Sep-11	21:25	60.2	63.0	57.1
27-Sep-11	21:30	60.8	63.0	56.4
27-Sep-11	21:35	59.0	61.3	56.6
27-Sep-11	21:40	60.1	62.9	56.9
27-Sep-11	21:45	60.0	63.4	56.5
27-Sep-11	21:50	60.7	63.8	56.7
27-Sep-11	21:55	59.8	62.3	56.7
27-Sep-11	22:00	61.0	63.3	58.0
27-Sep-11	22:05	60.2	63.0	57.2
27-Sep-11	22:10	60.6	63.0	57.6
27-Sep-11	22:15	61.7	64.1	57.8
27-Sep-11	22:20	61.0	63.6	57.1
27-Sep-11	22:25	58.8	60.4	57.0
27-Sep-11	22:30	60.9	63.3	58.3
27-Sep-11	22:35	61.5	63.5	59.1
27-Sep-11	22:40	61.6	63.9	58.2
27-Sep-11	22:45	61.3	64.0	56.6
27-Sep-11	22:50	59.1	62.2	56.0
27-Sep-11	22:55	62.5	66.5	56.4
	Mean	62.5	64.7	58.5
	Maximum	65.5	68.4	61.4
	Minimum	58.8	60.4	56.0

## Appendix C2

### Evening Time and Holiday Noise Level at Open Area near Naval Base Barrack\_NM7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
30-Sep-11	19:00	65.6	67.7	62.9
30-Sep-11	19:05	63.9	66.6	60.6
30-Sep-11	19:10	65.5	68.0	61.0
30-Sep-11	19:15	65.2	68.2	61.0
30-Sep-11	19:20	63.7	66.5	60.2
30-Sep-11	19:25	64.2	67.4	59.5
30-Sep-11	19:30	63.8	66.9	60.4
30-Sep-11	19:35	63.6	66.6	60.3
30-Sep-11	19:40	64.0	66.7	59.9
30-Sep-11	19:45	65.4	68.1	60.4
30-Sep-11	19:50	63.5	66.7	59.7
30-Sep-11	19:55	63.2	66.8	59.4
30-Sep-11	20:00	64.1	67.4	60.1
30-Sep-11	20:05	63.7	67.3	59.9
30-Sep-11	20:10	63.6	66.4	60.4
30-Sep-11	20:15	63.1	66.2	59.7
30-Sep-11	20:20	63.1	66.8	59.4
30-Sep-11	20:25	62.9	66.0	59.5
30-Sep-11	20:30	62.7	65.6	59.3
30-Sep-11	20:35	63.7	66.9	59.9
30-Sep-11	20:40	63.1	64.8	58.7
30-Sep-11	20:45	62.8	65.4	59.4
30-Sep-11	20:50	63.5	66.5	59.6
30-Sep-11	20:55	63.2	66.8	59.5
30-Sep-11	21:00	61.9	64.2	58.9
30-Sep-11	21:05	61.8	64.1	58.9
30-Sep-11	21:10	63.2	66.3	59.6
30-Sep-11	21:15	63.9	66.4	59.5
30-Sep-11	21:20	62.5	64.9	58.7
30-Sep-11	21:25	62.1	65.3	58.5
30-Sep-11	21:30	61.8	64.2	58.3
30-Sep-11	21:35	61.9	64.3	59.1
30-Sep-11	21:40	62.1	65.4	58.9
30-Sep-11	21:45	61.9	65.9	58.7
30-Sep-11	21:50	62.4	65.7	58.8
30-Sep-11	21:55	62.3	64.3	58.9
30-Sep-11	22:00	62.4	65.2	59.1
30-Sep-11	22:05	61.6	64.5	58.6
30-Sep-11	22:10	61.7	64.8	58.6
30-Sep-11	22:15	61.5	63.5	58.3
30-Sep-11	22:20	62.1	64.3	58.5
30-Sep-11	22:25	62.2	64.2	59.2
30-Sep-11	22:30	62.8	65.9	59.1
30-Sep-11	22:35	60.3	62.4	57.1
30-Sep-11	22:40	59.9	62.8	55.9
30-Sep-11	22:45	60.5	63.1	57.3
30-Sep-11	22:50	60.9	63.4	57.0
30-Sep-11	22:55	58.4	65.8	56.1
	Mean	63.0	65.7	59.2
	Maximum	65.6	68.2	62.9
	Minimum	58.4	62.4	55.9

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
1-Oct-11	7:00	61.6	64.6	56.8
1-Oct-11	7:05	61.2	64.6	56.2
1-Oct-11	7:10	63.1	65.8	58.0
1-Oct-11	7:15	63.1	66.9	58.5
1-Oct-11	7:20	63.3	65.6	57.7
1-Oct-11	7:25	65.1	67.7	59.8
1-Oct-11	7:30	63.2	66.7	59.5
1-Oct-11	7:35	64.5	67.0	58.8
1-Oct-11	7:40	65.9	68.8	60.2
1-Oct-11	7:45	65.9	67.7	61.1
1-Oct-11	7:50	65.6	68.2	60.4
1-Oct-11	7:55	64.8	66.8	61.8
1-Oct-11	8:00	65.9	67.8	63.3
1-Oct-11	8:05	65.3	67.0	61.7
1-Oct-11	8:10	65.5	67.9	61.7
1-Oct-11	8:15	66.8	68.5	62.1
1-Oct-11	8:20	66.1	67.7	61.0
1-Oct-11	8:25	66.1	68.9	63.9
1-Oct-11	8:30	66.9	68.5	63.2
1-Oct-11	8:35	67.3	68.4	63.0
1-Oct-11	8:40	67.5	69.7	64.3
1-Oct-11	8:45	66.4	68.5	63.2
1-Oct-11	8:50	67.5	69.4	64.2
1-Oct-11	8:55	65.4	67.4	61.4
1-Oct-11	9:00	66.7	68.5	64.0
1-Oct-11	9:05	66.3	68.5	61.8
1-Oct-11	9:10	65.3	67.8	62.9
1-Oct-11	9:15	65.8	67.7	63.0
1-Oct-11	9:20	66.6	68.4	62.0
1-Oct-11	9:25	67.0	69.2	63.0
1-Oct-11	9:30	65.9	68.6	62.4
1-Oct-11	9:35	65.5	68.6	61.8
1-Oct-11	9:40	64.9	66.7	61.9
1-Oct-11	9:45	66.3	68.9	61.8
1-Oct-11	9:50	69.1	69.1	61.7
1-Oct-11	9:55	73.7	68.5	62.2
1-Oct-11	10:00	69.1	68.9	61.9
1-Oct-11	10:05	65.7	69.1	60.4
1-Oct-11	10:10	65.9	67.7	60.7
1-Oct-11	10:15	64.8	67.6	61.4
1-Oct-11	10:20	65.6	68.8	62.0
1-Oct-11	10:25	66.2	68.8	62.2
1-Oct-11	10:30	66.0	68.7	62.9
1-Oct-11	10:35	66.6	68.7	63.7
1-Oct-11	10:40	66.7	68.5	64.4
1-Oct-11	10:45	66.2	68.4	63.3
1-Oct-11	10:50	65.8	68.7	63.2
1-Oct-11	10:55	64.7	67.4	61.1

## Appendix C2

### Evening Time and Holiday Noise Level at Open Area near Naval Base Barrack\_NM7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
1-Oct-11	11:00	67.0	68.4	63.4
1-Oct-11	11:05	65.9	68.4	61.9
1-Oct-11	11:10	65.4	67.9	60.9
1-Oct-11	11:15	66.5	68.5	62.5
1-Oct-11	11:20	66.0	68.5	63.7
1-Oct-11	11:25	65.7	68.0	62.4
1-Oct-11	11:30	66.8	68.8	63.2
1-Oct-11	11:35	66.1	68.8	62.2
1-Oct-11	11:40	65.1	67.4	61.8
1-Oct-11	11:45	64.8	67.1	61.2
1-Oct-11	11:50	64.7	66.8	62.3
1-Oct-11	11:55	64.9	67.3	60.4
1-Oct-11	12:00	65.4	67.6	63.2
1-Oct-11	12:05	63.7	66.8	60.4
1-Oct-11	12:10	64.5	67.7	60.1
1-Oct-11	12:15	63.6	65.6	60.4
1-Oct-11	12:20	63.4	66.0	59.0
1-Oct-11	12:25	65.5	67.6	62.7
1-Oct-11	12:30	64.1	66.4	61.2
1-Oct-11	12:35	63.1	64.9	61.1
1-Oct-11	12:40	63.0	65.8	59.3
1-Oct-11	12:45	65.1	67.0	61.4
1-Oct-11	12:50	64.5	66.8	60.1
1-Oct-11	12:55	65.4	67.4	61.5
1-Oct-11	13:00	64.5	66.1	61.4
1-Oct-11	13:05	65.3	67.4	62.4
1-Oct-11	13:10	65.2	67.2	61.6
1-Oct-11	13:15	64.8	66.7	61.1
1-Oct-11	13:20	65.9	67.6	61.7
1-Oct-11	13:25	65.3	67.2	60.9
1-Oct-11	13:30	63.7	67.2	60.9
1-Oct-11	13:35	66.1	68.7	62.5
1-Oct-11	13:40	65.4	68.6	62.3
1-Oct-11	13:45	66.8	68.6	63.8
1-Oct-11	13:50	66.0	67.8	61.7
1-Oct-11	13:55	66.6	68.8	64.1
1-Oct-11	14:00	67.1	68.7	63.2
1-Oct-11	14:05	65.0	67.9	62.4
1-Oct-11	14:10	65.8	68.5	62.1
1-Oct-11	14:15	66.2	68.6	63.6
1-Oct-11	14:20	66.9	68.7	63.7
1-Oct-11	14:25	66.6	69.7	63.7
1-Oct-11	14:30	66.9	68.8	63.6
1-Oct-11	14:35	66.4	68.4	63.2
1-Oct-11	14:40	65.4	67.3	62.7
1-Oct-11	14:45	65.7	67.7	62.4
1-Oct-11	14:50	66.2	67.3	62.0
1-Oct-11	14:55	65.7	67.5	62.0

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
1-Oct-11	15:00	64.4	67.7	60.4
1-Oct-11	15:05	65.1	67.7	60.8
1-Oct-11	15:10	65.7	67.5	61.5
1-Oct-11	15:15	63.9	66.1	60.0
1-Oct-11	15:20	65.2	67.7	61.9
1-Oct-11	15:25	65.2	67.8	61.1
1-Oct-11	15:30	64.6	67.7	60.0
1-Oct-11	15:35	66.8	68.2	62.9
1-Oct-11	15:40	65.4	67.7	62.4
1-Oct-11	15:45	65.9	67.8	63.4
1-Oct-11	15:50	65.8	68.6	62.3
1-Oct-11	15:55	66.1	68.2	63.3
1-Oct-11	16:00	67.5	69.5	63.9
1-Oct-11	16:05	66.1	67.8	62.7
1-Oct-11	16:10	65.9	68.8	62.9
1-Oct-11	16:15	66.3	68.0	63.2
1-Oct-11	16:20	65.1	67.7	62.3
1-Oct-11	16:25	66.5	69.0	63.2
1-Oct-11	16:30	65.2	68.8	62.0
1-Oct-11	16:35	65.2	68.2	62.2
1-Oct-11	16:40	65.4	67.7	61.4
1-Oct-11	16:45	65.0	67.4	61.8
1-Oct-11	16:50	65.5	68.2	63.2
1-Oct-11	16:55	66.1	68.6	63.3
1-Oct-11	17:00	65.4	68.1	62.0
1-Oct-11	17:05	64.5	66.9	59.9
1-Oct-11	17:10	63.9	66.6	60.3
1-Oct-11	17:15	65.4	68.6	62.0
1-Oct-11	17:20	65.1	68.4	61.4
1-Oct-11	17:25	65.6	67.9	62.2
1-Oct-11	17:30	66.2	69.1	61.6
1-Oct-11	17:35	66.0	69.3	62.4
1-Oct-11	17:40	65.7	66.9	62.6
1-Oct-11	17:45	65.7	68.6	62.5
1-Oct-11	17:50	64.8	66.8	61.3
1-Oct-11	17:55	64.8	67.7	61.2
1-Oct-11	18:00	67.0	69.4	62.2
1-Oct-11	18:05	63.1	66.1	59.9
1-Oct-11	18:10	64.8	67.3	60.1
1-Oct-11	18:15	64.6	66.9	61.0
1-Oct-11	18:20	65.7	68.2	60.2
1-Oct-11	18:25	66.4	69.6	61.5
1-Oct-11	18:30	64.5	67.1	60.9
1-Oct-11	18:35	63.9	66.5	59.0
1-Oct-11	18:40	64.3	67.8	59.3
1-Oct-11	18:45	63.6	66.4	60.3
1-Oct-11	18:50	64.0	67.0	59.4
1-Oct-11	18:55	64.5	66.8	61.3

## Appendix C2

### Evening Time and Holiday Noise Level at Open Area near Naval Base Barrack\_NM7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
1-Oct-11	19:00	64.9	68.0	60.4
1-Oct-11	19:05	64.2	66.3	61.0
1-Oct-11	19:10	64.6	66.6	61.8
1-Oct-11	19:15	65.3	68.9	60.2
1-Oct-11	19:20	63.5	66.7	59.9
1-Oct-11	19:25	64.5	66.6	58.8
1-Oct-11	19:30	63.5	66.4	59.7
1-Oct-11	19:35	64.3	65.8	60.4
1-Oct-11	19:40	64.6	67.7	59.2
1-Oct-11	19:45	65.0	67.9	60.0
1-Oct-11	19:50	63.7	66.4	60.0
1-Oct-11	19:55	63.7	66.5	58.8
1-Oct-11	20:00	63.3	66.3	59.2
1-Oct-11	20:05	63.9	67.3	59.4
1-Oct-11	20:10	64.4	66.9	59.9
1-Oct-11	20:15	62.2	64.6	59.2
1-Oct-11	20:20	63.1	65.8	58.5
1-Oct-11	20:25	63.9	66.8	60.3
1-Oct-11	20:30	63.4	66.3	59.5
1-Oct-11	20:35	63.5	66.4	59.7
1-Oct-11	20:40	60.6	62.4	57.8
1-Oct-11	20:45	60.5	62.0	58.0
1-Oct-11	20:50	64.4	66.9	58.9
1-Oct-11	20:55	62.8	65.5	58.1
1-Oct-11	21:00	60.4	62.2	57.7
1-Oct-11	21:05	60.2	61.9	57.4
1-Oct-11	21:10	62.3	65.1	59.1
1-Oct-11	21:15	62.6	65.4	58.6
1-Oct-11	21:20	60.3	62.6	57.0
1-Oct-11	21:25	60.6	63.5	57.3
1-Oct-11	21:30	61.2	62.8	56.0
1-Oct-11	21:35	58.6	61.1	56.3
1-Oct-11	21:40	60.2	62.8	57.1
1-Oct-11	21:45	60.1	63.9	56.4
1-Oct-11	21:50	60.3	64.1	56.8
1-Oct-11	21:55	59.8	62.7	56.5
1-Oct-11	22:00	61.3	63.8	58.4
1-Oct-11	22:05	60.1	62.9	57.4
1-Oct-11	22:10	60.6	63.5	57.8
1-Oct-11	22:15	62.2	64.5	58.2
1-Oct-11	22:20	60.8	63.4	56.8
1-Oct-11	22:25	58.6	60.4	56.7
1-Oct-11	22:30	61.4	63.0	58.8
1-Oct-11	22:35	61.9	63.3	59.0
1-Oct-11	22:40	61.6	63.8	58.0
1-Oct-11	22:45	61.6	64.0	57.0
1-Oct-11	22:50	58.8	62.0	55.7
1-Oct-11	22:55	62.7	67.0	56.5
	Mean	65.2	67.1	60.9
	Maximum	73.7	69.7	64.4
	Minimum	58.6	60.4	55.7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
2-Oct-11	7:00	60.1	63.6	56.8
2-Oct-11	7:05	61.5	65.1	58.5
2-Oct-11	7:10	62.6	66.4	58.7
2-Oct-11	7:15	64.1	67.6	59.2
2-Oct-11	7:20	62.1	65.8	58.7
2-Oct-11	7:25	63.6	67.0	60.4
2-Oct-11	7:30	63.7	67.1	60.1
2-Oct-11	7:35	64.0	66.8	61.6
2-Oct-11	7:40	63.2	66.2	59.0
2-Oct-11	7:45	65.2	68.6	60.7
2-Oct-11	7:50	64.3	68.0	60.8
2-Oct-11	7:55	64.2	67.7	61.0
2-Oct-11	8:00	65.2	68.2	61.8
2-Oct-11	8:05	64.6	67.7	61.3
2-Oct-11	8:10	64.1	67.0	61.8
2-Oct-11	8:15	64.3	67.1	61.7
2-Oct-11	8:20	65.2	67.7	62.4
2-Oct-11	8:25	66.1	68.5	64.0
2-Oct-11	8:30	66.3	68.8	64.5
2-Oct-11	8:35	65.9	68.7	63.3
2-Oct-11	8:40	65.7	68.5	62.9
2-Oct-11	8:45	66.0	68.5	63.9
2-Oct-11	8:50	66.2	69.1	63.4
2-Oct-11	8:55	66.0	68.5	63.7
2-Oct-11	9:00	65.8	68.4	63.4
2-Oct-11	9:05	66.0	68.9	63.0
2-Oct-11	9:10	66.1	68.9	63.4
2-Oct-11	9:15	66.4	69.1	64.0
2-Oct-11	9:20	67.6	70.2	65.4
2-Oct-11	9:25	66.2	68.9	63.7
2-Oct-11	9:30	65.8	68.7	63.0
2-Oct-11	9:35	67.1	69.9	64.9
2-Oct-11	9:40	67.9	70.9	64.9
2-Oct-11	9:45	66.0	68.4	64.1
2-Oct-11	9:50	65.4	68.6	62.8
2-Oct-11	9:55	66.7	69.7	64.0
2-Oct-11	10:00	66.8	69.6	64.0
2-Oct-11	10:05	65.5	68.3	63.0
2-Oct-11	10:10	66.0	68.8	63.6
2-Oct-11	10:15	66.6	69.4	63.8
2-Oct-11	10:20	66.3	69.1	64.0
2-Oct-11	10:25	67.0	69.9	64.0
2-Oct-11	10:30	67.4	70.6	63.1
2-Oct-11	10:35	66.5	69.4	63.0
2-Oct-11	10:40	67.3	70.2	63.9
2-Oct-11	10:45	66.0	68.7	63.1
2-Oct-11	10:50	66.2	69.0	63.0
2-Oct-11	10:55	65.5	68.8	62.0

## Appendix C2

### Evening Time and Holiday Noise Level at Open Area near Naval Base Barrack\_NM7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
2-Oct-11	11:00	66.5	69.4	63.3
2-Oct-11	11:05	64.6	67.2	62.6
2-Oct-11	11:10	66.1	68.6	64.0
2-Oct-11	11:15	66.1	69.1	62.8
2-Oct-11	11:20	66.1	68.9	63.8
2-Oct-11	11:25	65.4	68.2	62.7
2-Oct-11	11:30	65.3	68.1	62.4
2-Oct-11	11:35	65.3	68.1	62.8
2-Oct-11	11:40	64.4	67.0	62.2
2-Oct-11	11:45	63.8	66.9	60.3
2-Oct-11	11:50	64.9	68.5	61.3
2-Oct-11	11:55	65.0	68.2	60.9
2-Oct-11	12:00	64.3	67.7	60.3
2-Oct-11	12:05	64.4	67.4	60.9
2-Oct-11	12:10	64.1	67.8	59.6
2-Oct-11	12:15	64.8	67.4	60.4
2-Oct-11	12:20	65.5	68.5	62.1
2-Oct-11	12:25	63.4	66.2	60.1
2-Oct-11	12:30	65.4	69.1	60.7
2-Oct-11	12:35	63.5	66.7	59.9
2-Oct-11	12:40	63.7	66.5	60.9
2-Oct-11	12:45	63.7	66.5	61.1
2-Oct-11	12:50	63.9	66.6	61.7
2-Oct-11	12:55	64.8	67.5	61.9
2-Oct-11	13:00	64.6	67.9	60.7
2-Oct-11	13:05	65.3	68.2	61.7
2-Oct-11	13:10	63.8	67.2	60.4
2-Oct-11	13:15	66.0	69.4	62.6
2-Oct-11	13:20	65.1	68.4	61.4
2-Oct-11	13:25	68.3	72.6	61.8
2-Oct-11	13:30	68.2	72.3	63.0
2-Oct-11	13:35	65.3	69.0	60.4
2-Oct-11	13:40	68.5	72.4	62.0
2-Oct-11	13:45	67.3	71.0	63.7
2-Oct-11	13:50	68.5	73.0	62.3
2-Oct-11	13:55	65.3	68.7	61.8
2-Oct-11	14:00	65.7	69.1	61.3
2-Oct-11	14:05	65.2	67.8	62.9
2-Oct-11	14:10	64.2	67.3	61.7
2-Oct-11	14:15	64.6	67.3	61.8
2-Oct-11	14:20	64.9	68.3	61.8
2-Oct-11	14:25	65.9	69.4	61.8
2-Oct-11	14:30	65.7	68.6	62.5
2-Oct-11	14:35	65.6	68.6	62.7
2-Oct-11	14:40	64.9	68.2	61.3
2-Oct-11	14:45	64.8	68.2	61.3
2-Oct-11	14:50	65.4	68.3	63.2
2-Oct-11	14:55	66.3	68.9	63.6

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
2-Oct-11	15:00	66.5	69.4	63.8
2-Oct-11	15:05	67.4	70.3	63.9
2-Oct-11	15:10	65.6	68.4	63.3
2-Oct-11	15:15	66.7	69.6	64.2
2-Oct-11	15:20	66.1	69.1	63.8
2-Oct-11	15:25	64.7	67.8	62.0
2-Oct-11	15:30	64.7	67.6	61.8
2-Oct-11	15:35	65.9	68.7	62.2
2-Oct-11	15:40	65.8	68.6	63.0
2-Oct-11	15:45	65.5	68.4	62.1
2-Oct-11	15:50	64.2	67.5	60.5
2-Oct-11	15:55	65.2	68.0	61.5
2-Oct-11	16:00	65.0	67.7	62.4
2-Oct-11	16:05	65.6	69.3	62.5
2-Oct-11	16:10	65.0	67.5	62.9
2-Oct-11	16:15	65.1	68.7	61.9
2-Oct-11	16:20	65.2	68.3	62.0
2-Oct-11	16:25	66.5	69.9	62.7
2-Oct-11	16:30	65.2	67.5	63.0
2-Oct-11	16:35	65.6	68.3	62.9
2-Oct-11	16:40	65.4	68.2	62.5
2-Oct-11	16:45	65.0	68.1	61.8
2-Oct-11	16:50	64.9	67.7	61.4
2-Oct-11	16:55	65.0	68.0	62.4
2-Oct-11	17:00	64.8	67.5	62.0
2-Oct-11	17:05	64.0	66.8	61.6
2-Oct-11	17:10	63.9	66.8	60.7
2-Oct-11	17:15	64.9	67.6	62.7
2-Oct-11	17:20	64.1	67.2	61.3
2-Oct-11	17:25	65.1	68.3	61.5
2-Oct-11	17:30	65.4	68.3	62.7
2-Oct-11	17:35	64.6	68.1	60.4
2-Oct-11	17:40	65.2	68.2	61.9
2-Oct-11	17:45	65.7	69.1	62.0
2-Oct-11	17:50	65.1	68.2	62.3
2-Oct-11	17:55	65.1	68.0	61.5
2-Oct-11	18:00	65.0	68.0	62.8
2-Oct-11	18:05	64.6	67.6	61.0
2-Oct-11	18:10	64.5	67.3	62.0
2-Oct-11	18:15	65.4	68.3	62.6
2-Oct-11	18:20	63.7	66.7	60.6
2-Oct-11	18:25	63.8	67.6	59.6
2-Oct-11	18:30	64.5	67.3	62.0
2-Oct-11	18:35	63.3	66.1	60.0
2-Oct-11	18:40	64.6	68.3	60.8
2-Oct-11	18:45	63.6	66.2	61.8
2-Oct-11	18:50	62.9	65.8	60.5
2-Oct-11	18:55	62.8	65.7	60.5



## Appendix C2

### Evening Time and Holiday Noise Level at Open Area near Naval Base Barrack\_NM7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
2-Oct-11	19:00	64.8	67.5	62.7
2-Oct-11	19:05	63.1	66.4	60.4
2-Oct-11	19:10	64.7	67.8	60.8
2-Oct-11	19:15	64.4	68.0	60.8
2-Oct-11	19:20	62.9	66.3	60.0
2-Oct-11	19:25	63.4	67.2	59.3
2-Oct-11	19:30	63.0	66.7	60.2
2-Oct-11	19:35	62.8	66.4	60.1
2-Oct-11	19:40	63.2	66.5	59.7
2-Oct-11	19:45	64.6	67.9	60.2
2-Oct-11	19:50	62.7	66.5	59.5
2-Oct-11	19:55	62.4	66.6	59.2
2-Oct-11	20:00	63.3	67.2	59.9
2-Oct-11	20:05	62.9	67.1	59.7
2-Oct-11	20:10	62.8	66.2	60.2
2-Oct-11	20:15	62.3	66.0	59.5
2-Oct-11	20:20	62.3	66.6	59.2
2-Oct-11	20:25	62.1	65.8	59.3
2-Oct-11	20:30	61.9	65.4	59.1
2-Oct-11	20:35	62.9	66.7	59.7
2-Oct-11	20:40	62.3	64.6	58.5
2-Oct-11	20:45	62.0	65.2	59.2
2-Oct-11	20:50	62.7	66.3	59.4
2-Oct-11	20:55	62.4	66.6	59.3
2-Oct-11	21:00	61.1	64.0	58.7
2-Oct-11	21:05	61.0	63.9	58.7
2-Oct-11	21:10	62.4	66.1	59.4
2-Oct-11	21:15	63.1	66.2	59.3
2-Oct-11	21:20	61.7	64.7	58.5
2-Oct-11	21:25	61.3	65.1	58.3
2-Oct-11	21:30	61.0	64.0	58.1
2-Oct-11	21:35	61.1	64.1	58.9
2-Oct-11	21:40	61.3	65.2	58.7
2-Oct-11	21:45	61.1	65.7	58.5
2-Oct-11	21:50	61.6	65.5	58.6
2-Oct-11	21:55	61.5	64.1	58.7
2-Oct-11	22:00	61.6	65.0	58.9
2-Oct-11	22:05	60.8	64.3	58.4
2-Oct-11	22:10	60.9	64.6	58.4
2-Oct-11	22:15	60.7	63.3	58.1
2-Oct-11	22:20	61.3	64.1	58.3
2-Oct-11	22:25	61.4	64.0	59.0
2-Oct-11	22:30	62.0	65.7	58.9
2-Oct-11	22:35	59.5	62.2	56.9
2-Oct-11	22:40	59.1	62.6	55.7
2-Oct-11	22:45	59.7	62.9	57.1
2-Oct-11	22:50	60.1	63.2	56.8
2-Oct-11	22:55	57.6	65.6	55.9
	Mean	64.8	65.5	59.0
	Maximum	64.8	68.0	62.7
	Minimum	57.6	62.2	55.7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
4-Oct-11	19:00	65.4	68.1	62.6
4-Oct-11	19:05	64.1	66.3	60.7
4-Oct-11	19:10	65.2	68.6	61.4
4-Oct-11	19:15	65.6	68.8	61.2
4-Oct-11	19:20	64.2	66.9	60.5
4-Oct-11	19:25	64.1	67.9	59.4
4-Oct-11	19:30	64.2	67.3	60.5
4-Oct-11	19:35	63.5	66.9	60.3
4-Oct-11	19:40	63.8	67.1	59.7
4-Oct-11	19:45	65.3	68.3	60.3
4-Oct-11	19:50	64.1	66.4	60.0
4-Oct-11	19:55	63.5	66.8	59.4
4-Oct-11	20:00	64.2	67.5	60.4
4-Oct-11	20:05	64.0	67.8	59.8
4-Oct-11	20:10	64.1	66.1	60.4
4-Oct-11	20:15	62.9	66.5	59.5
4-Oct-11	20:20	63.0	66.6	60.0
4-Oct-11	20:25	63.3	66.6	60.0
4-Oct-11	20:30	62.4	65.9	59.0
4-Oct-11	20:35	63.5	66.9	60.0
4-Oct-11	20:40	63.0	65.4	58.6
4-Oct-11	20:45	63.4	65.6	59.4
4-Oct-11	20:50	64.1	66.9	59.6
4-Oct-11	20:55	63.3	66.8	59.5
4-Oct-11	21:00	62.4	64.5	59.1
4-Oct-11	21:05	62.3	64.7	59.5
4-Oct-11	21:10	63.1	66.9	59.4
4-Oct-11	21:15	64.6	67.3	59.7
4-Oct-11	21:20	63.3	65.4	59.1
4-Oct-11	21:25	62.3	65.6	58.7
4-Oct-11	21:30	62.7	65.0	58.8
4-Oct-11	21:35	62.5	65.1	59.5
4-Oct-11	21:40	62.8	65.9	59.3
4-Oct-11	21:45	62.2	66.0	59.6
4-Oct-11	21:50	62.4	66.4	58.8
4-Oct-11	21:55	62.7	64.6	59.0
4-Oct-11	22:00	63.0	65.2	59.1
4-Oct-11	22:05	61.8	64.5	59.3
4-Oct-11	22:10	62.5	65.1	59.1
4-Oct-11	22:15	62.1	64.0	59.0
4-Oct-11	22:20	62.2	65.0	58.5
4-Oct-11	22:25	62.4	64.3	59.4
4-Oct-11	22:30	63.1	66.1	59.3
4-Oct-11	22:35	60.9	63.1	57.4
4-Oct-11	22:40	60.8	62.8	56.8
4-Oct-11	22:45	61.4	63.7	57.8
4-Oct-11	22:50	61.3	64.1	57.0
4-Oct-11	22:55	58.5	66.4	56.6
	Mean	63.3	66.0	59.4
	Maximum	65.6	68.8	62.6
	Minimum	58.5	62.8	56.6

## Appendix C2

### Evening Time and Holiday Noise Level at Open Area near Naval Base Barrack\_NM7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
5-Oct-11	7:00	62.0	64.4	56.4
5-Oct-11	7:05	61.6	64.5	55.5
5-Oct-11	7:10	62.3	65.3	58.5
5-Oct-11	7:15	64.0	66.0	58.2
5-Oct-11	7:20	62.5	65.7	57.0
5-Oct-11	7:25	65.4	67.8	59.8
5-Oct-11	7:30	64.3	66.3	59.1
5-Oct-11	7:35	64.6	66.7	58.1
5-Oct-11	7:40	66.4	67.9	59.7
5-Oct-11	7:45	65.4	67.8	60.3
5-Oct-11	7:50	65.3	68.2	60.5
5-Oct-11	7:55	65.5	66.5	61.5
5-Oct-11	8:00	66.2	67.5	62.5
5-Oct-11	8:05	69.1	66.8	61.4
5-Oct-11	8:10	65.4	67.5	61.2
5-Oct-11	8:15	68.2	68.8	62.3
5-Oct-11	8:20	66.5	67.6	60.8
5-Oct-11	8:25	67.1	68.8	63.4
5-Oct-11	8:30	67.1	68.4	63.2
5-Oct-11	8:35	67.9	68.7	63.0
5-Oct-11	8:40	67.5	69.7	63.9
5-Oct-11	8:45	66.1	68.1	63.1
5-Oct-11	8:50	66.9	68.5	63.5
5-Oct-11	8:55	64.7	67.4	60.5
5-Oct-11	9:00	66.2	68.1	63.4
5-Oct-11	9:05	66.2	68.7	61.4
5-Oct-11	9:10	64.9	67.6	62.1
5-Oct-11	9:15	65.1	67.8	63.0
5-Oct-11	9:20	65.0	68.2	61.1
5-Oct-11	9:25	64.7	68.7	62.4
5-Oct-11	9:30	66.4	67.4	62.2
5-Oct-11	9:35	66.1	68.6	61.5
5-Oct-11	9:40	65.4	66.9	61.2
5-Oct-11	9:45	65.7	68.0	61.1
5-Oct-11	9:50	68.3	68.7	62.1
5-Oct-11	9:55	66.1	68.6	61.3
5-Oct-11	10:00	67.4	68.8	61.5
5-Oct-11	10:05	66.4	68.0	60.1
5-Oct-11	10:10	65.9	67.4	60.6
5-Oct-11	10:15	65.7	67.2	61.2
5-Oct-11	10:20	65.3	67.8	61.2
5-Oct-11	10:25	66.5	68.5	62.1
5-Oct-11	10:30	66.4	68.7	62.5
5-Oct-11	10:35	67.0	68.5	63.3
5-Oct-11	10:40	66.7	68.7	63.6
5-Oct-11	10:45	65.3	68.1	62.8
5-Oct-11	10:50	65.4	68.4	62.3
5-Oct-11	10:55	64.4	67.3	60.5

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
5-Oct-11	11:00	64.7	68.9	62.9
5-Oct-11	11:05	65.8	68.4	61.3
5-Oct-11	11:10	64.4	67.5	60.9
5-Oct-11	11:15	65.3	68.1	62.9
5-Oct-11	11:20	65.8	67.8	63.4
5-Oct-11	11:25	63.5	66.9	62.2
5-Oct-11	11:30	65.2	68.2	62.6
5-Oct-11	11:35	64.2	68.9	61.3
5-Oct-11	11:40	64.8	67.5	62.1
5-Oct-11	11:45	64.3	66.1	61.1
5-Oct-11	11:50	64.1	65.9	61.2
5-Oct-11	11:55	64.8	67.1	60.0
5-Oct-11	12:00	65.4	66.7	63.0
5-Oct-11	12:05	63.3	66.2	60.1
5-Oct-11	12:10	65.0	67.8	60.0
5-Oct-11	12:15	64.1	66.0	60.5
5-Oct-11	12:20	62.9	65.8	59.3
5-Oct-11	12:25	65.4	66.7	62.4
5-Oct-11	12:30	64.7	66.2	60.5
5-Oct-11	12:35	62.8	64.9	60.6
5-Oct-11	12:40	62.7	65.2	59.0
5-Oct-11	12:45	64.4	67.4	60.9
5-Oct-11	12:50	64.1	65.8	60.0
5-Oct-11	12:55	64.4	67.9	61.3
5-Oct-11	13:00	63.7	65.8	61.1
5-Oct-11	13:05	65.0	67.8	62.1
5-Oct-11	13:10	65.3	66.7	62.1
5-Oct-11	13:15	64.0	66.4	61.6
5-Oct-11	13:20	65.4	68.0	61.2
5-Oct-11	13:25	64.7	66.7	60.6
5-Oct-11	13:30	64.2	66.2	60.4
5-Oct-11	13:35	66.1	68.4	61.8
5-Oct-11	13:40	64.9	68.2	61.3
5-Oct-11	13:45	66.4	68.5	63.2
5-Oct-11	13:50	65.2	67.2	61.4
5-Oct-11	13:55	66.5	68.3	63.7
5-Oct-11	14:00	66.1	68.0	63.2
5-Oct-11	14:05	65.4	67.5	61.7
5-Oct-11	14:10	65.8	68.1	62.6
5-Oct-11	14:15	66.4	68.2	62.4
5-Oct-11	14:20	66.0	67.5	63.5
5-Oct-11	14:25	66.2	68.7	63.4
5-Oct-11	14:30	66.3	68.9	63.5
5-Oct-11	14:35	66.0	68.3	63.1
5-Oct-11	14:40	64.5	67.4	62.2
5-Oct-11	14:45	65.2	67.1	62.2
5-Oct-11	14:50	65.2	67.7	61.7
5-Oct-11	14:55	64.9	67.4	61.5

## Appendix C2

### Evening Time and Holiday Noise Level at Open Area near Naval Base Barrack\_NM7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
5-Oct-11	15:00	63.8	67.6	60.1
5-Oct-11	15:05	65.2	66.9	59.9
5-Oct-11	15:10	64.8	67.1	61.2
5-Oct-11	15:15	63.3	66.3	60.5
5-Oct-11	15:20	65.0	67.4	61.5
5-Oct-11	15:25	65.1	67.0	61.2
5-Oct-11	15:30	63.7	66.9	59.0
5-Oct-11	15:35	65.8	67.5	62.4
5-Oct-11	15:40	64.8	67.1	62.1
5-Oct-11	15:45	65.9	67.7	62.3
5-Oct-11	15:50	65.6	68.0	61.6
5-Oct-11	15:55	66.2	68.2	63.3
5-Oct-11	16:00	66.4	69.0	63.6
5-Oct-11	16:05	66.1	67.2	62.0
5-Oct-11	16:10	65.9	68.6	62.5
5-Oct-11	16:15	67.3	68.6	62.2
5-Oct-11	16:20	66.3	67.3	62.1
5-Oct-11	16:25	66.9	68.7	63.0
5-Oct-11	16:30	64.7	67.9	61.5
5-Oct-11	16:35	66.3	67.7	61.9
5-Oct-11	16:40	64.8	67.3	61.0
5-Oct-11	16:45	64.6	66.8	61.0
5-Oct-11	16:50	65.3	67.9	63.0
5-Oct-11	16:55	66.2	68.4	63.2
5-Oct-11	17:00	65.6	67.3	61.4
5-Oct-11	17:05	65.2	66.8	60.0
5-Oct-11	17:10	64.2	66.1	60.6
5-Oct-11	17:15	66.2	68.7	61.5
5-Oct-11	17:20	67.2	67.8	61.2
5-Oct-11	17:25	65.6	67.6	61.7
5-Oct-11	17:30	67.3	67.9	61.4
5-Oct-11	17:35	66.2	68.2	61.6
5-Oct-11	17:40	66.1	67.2	62.4
5-Oct-11	17:45	64.9	67.9	62.0
5-Oct-11	17:50	64.9	66.3	60.7
5-Oct-11	17:55	65.9	67.4	61.2
5-Oct-11	18:00	66.7	69.8	61.2
5-Oct-11	18:05	63.9	65.6	59.1
5-Oct-11	18:10	65.1	67.2	60.4
5-Oct-11	18:15	65.6	66.4	60.3
5-Oct-11	18:20	66.5	67.8	59.3
5-Oct-11	18:25	68.1	68.7	61.8
5-Oct-11	18:30	65.8	67.3	60.7
5-Oct-11	18:35	64.8	65.7	59.3
5-Oct-11	18:40	65.8	66.9	59.1
5-Oct-11	18:45	64.5	66.7	60.4
5-Oct-11	18:50	65.4	66.6	59.6
5-Oct-11	18:55	65.3	66.9	60.2

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
5-Oct-11	19:00	66.1	67.7	60.4
5-Oct-11	19:05	64.1	66.2	60.3
5-Oct-11	19:10	64.6	66.7	61.2
5-Oct-11	19:15	65.5	67.9	60.4
5-Oct-11	19:20	63.4	66.7	60.0
5-Oct-11	19:25	63.7	66.3	58.8
5-Oct-11	19:30	62.8	65.8	59.5
5-Oct-11	19:35	63.1	65.8	60.2
5-Oct-11	19:40	64.4	66.8	58.7
5-Oct-11	19:45	65.1	66.9	60.0
5-Oct-11	19:50	62.9	65.3	60.0
5-Oct-11	19:55	63.9	66.6	58.6
5-Oct-11	20:00	63.2	65.6	59.2
5-Oct-11	20:05	63.5	67.7	59.3
5-Oct-11	20:10	63.9	66.1	60.2
5-Oct-11	20:15	62.0	64.9	59.1
5-Oct-11	20:20	62.8	65.9	58.2
5-Oct-11	20:25	63.4	65.6	60.0
5-Oct-11	20:30	62.7	65.3	59.5
5-Oct-11	20:35	63.3	65.6	59.8
5-Oct-11	20:40	60.6	62.8	57.7
5-Oct-11	20:45	60.2	61.9	57.4
5-Oct-11	20:50	63.9	66.7	58.8
5-Oct-11	20:55	62.4	64.6	58.1
5-Oct-11	21:00	59.7	61.8	57.3
5-Oct-11	21:05	59.8	62.2	57.1
5-Oct-11	21:10	62.2	64.5	58.2
5-Oct-11	21:15	62.1	65.5	58.2
5-Oct-11	21:20	60.6	62.9	57.1
5-Oct-11	21:25	60.3	62.6	56.9
5-Oct-11	21:30	61.0	62.3	56.3
5-Oct-11	21:35	58.9	60.6	56.8
5-Oct-11	21:40	59.7	62.9	56.7
5-Oct-11	21:45	59.5	63.3	56.1
5-Oct-11	21:50	60.8	63.7	56.8
5-Oct-11	21:55	60.0	61.9	56.0
5-Oct-11	22:00	60.7	62.8	57.5
5-Oct-11	22:05	59.7	62.7	56.5
5-Oct-11	22:10	60.5	62.7	57.1
5-Oct-11	22:15	61.5	63.6	57.3
5-Oct-11	22:20	60.7	62.9	57.3
5-Oct-11	22:25	58.3	60.5	57.1
5-Oct-11	22:30	60.6	62.8	58.0
5-Oct-11	22:35	61.7	63.7	59.3
5-Oct-11	22:40	61.5	63.6	58.3
5-Oct-11	22:45	61.0	63.8	56.1
5-Oct-11	22:50	58.6	61.7	56.2
5-Oct-11	22:55	62.3	66.6	56.1

Mean	65.0	66.7	60.6
Maximum	69.1	69.8	63.9
Minimum	58.3	60.5	55.5

## Appendix C2

### Evening Time and Holiday Noise Level at Open Area near Naval Base Barrack\_NM7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
6-Oct-11	19:00	65.3	67.8	61.3
6-Oct-11	19:05	64.4	66.8	61.2
6-Oct-11	19:10	64.6	67.1	61.0
6-Oct-11	19:15	65.3	67.8	61.5
6-Oct-11	19:20	63.7	66.0	60.4
6-Oct-11	19:25	64.5	67.5	59.8
6-Oct-11	19:30	64.4	66.7	61.4
6-Oct-11	19:35	63.7	66.4	60.0
6-Oct-11	19:40	63.9	66.4	60.5
6-Oct-11	19:45	65.4	68.2	60.9
6-Oct-11	19:50	64.1	67.1	59.8
6-Oct-11	19:55	63.3	66.0	60.0
6-Oct-11	20:00	64.7	67.9	60.9
6-Oct-11	20:05	64.1	66.6	60.8
6-Oct-11	20:10	63.5	65.5	61.0
6-Oct-11	20:15	64.2	66.7	60.7
6-Oct-11	20:20	63.4	66.8	59.1
6-Oct-11	20:25	62.5	65.2	59.4
6-Oct-11	20:30	62.5	64.5	59.6
6-Oct-11	20:35	64.2	67.3	60.2
6-Oct-11	20:40	63.6	66.3	59.3
6-Oct-11	20:45	65.2	68.3	60.9
6-Oct-11	20:50	63.7	66.7	59.9
6-Oct-11	20:55	64.5	67.8	60.2
6-Oct-11	21:00	63.2	65.5	60.2
6-Oct-11	21:05	63.5	65.4	61.0
6-Oct-11	21:10	64.0	67.0	60.1
6-Oct-11	21:15	64.0	66.7	60.4
6-Oct-11	21:20	63.7	66.8	60.1
6-Oct-11	21:25	64.3	67.4	59.9
6-Oct-11	21:30	62.4	65.0	59.9
6-Oct-11	21:35	64.6	66.9	61.3
6-Oct-11	21:40	64.5	67.2	60.6
6-Oct-11	21:45	63.1	65.5	60.6
6-Oct-11	21:50	63.7	66.7	60.4
6-Oct-11	21:55	64.1	66.7	60.5
6-Oct-11	22:00	63.9	66.8	60.3
6-Oct-11	22:05	63.3	65.5	60.1
6-Oct-11	22:10	63.6	66.1	59.9
6-Oct-11	22:15	60.5	62.6	58.3
6-Oct-11	22:20	62.6	64.8	59.3
6-Oct-11	22:25	64.7	67.6	60.9
6-Oct-11	22:30	65.1	68.3	60.4
6-Oct-11	22:35	64.9	68.1	61.1
6-Oct-11	22:40	61.5	63.8	59.0
6-Oct-11	22:45	61.6	63.9	59.2
6-Oct-11	22:50	62.8	65.7	59.1
6-Oct-11	22:55	62.8	65.4	59.4
	Mean	63.9	66.4	60.2
	Maximum	65.4	68.3	61.5
	Minimum	60.5	62.6	58.3

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
7-Oct-11	19:00	64.4	67.1	60.2
7-Oct-11	19:05	64.1	66.8	59.7
7-Oct-11	19:10	64.4	67.0	60.2
7-Oct-11	19:15	64.2	67.1	59.8
7-Oct-11	19:20	63.6	66.0	59.7
7-Oct-11	19:25	63.6	66.6	59.0
7-Oct-11	19:30	64.1	66.7	60.6
7-Oct-11	19:35	63.3	66.2	59.1
7-Oct-11	19:40	63.4	66.0	59.3
7-Oct-11	19:45	63.4	66.3	58.6
7-Oct-11	19:50	63.4	66.4	59.1
7-Oct-11	19:55	62.6	65.8	58.2
7-Oct-11	20:00	63.3	66.7	58.9
7-Oct-11	20:05	63.1	65.8	59.1
7-Oct-11	20:10	62.8	65.1	59.3
7-Oct-11	20:15	62.4	65.1	58.3
7-Oct-11	20:20	61.1	64.2	57.5
7-Oct-11	20:25	62.5	65.1	58.4
7-Oct-11	20:30	62.1	64.5	58.4
7-Oct-11	20:35	62.8	65.9	58.4
7-Oct-11	20:40	62.2	64.8	58.0
7-Oct-11	20:45	62.2	64.9	58.7
7-Oct-11	20:50	62.4	65.4	58.6
7-Oct-11	20:55	62.3	65.5	58.3
7-Oct-11	21:00	61.5	64.3	58.0
7-Oct-11	21:05	61.8	64.2	58.8
7-Oct-11	21:10	62.6	65.6	58.5
7-Oct-11	21:15	62.3	64.8	59.2
7-Oct-11	21:20	62.2	65.3	58.6
7-Oct-11	21:25	62.5	65.5	58.4
7-Oct-11	21:30	61.0	63.3	58.2
7-Oct-11	21:35	64.1	67.4	58.9
7-Oct-11	21:40	64.6	67.0	58.4
7-Oct-11	21:45	62.2	64.6	59.0
7-Oct-11	21:50	62.8	64.9	58.8
7-Oct-11	21:55	62.1	64.6	58.8
7-Oct-11	22:00	62.3	65.3	58.1
7-Oct-11	22:05	61.4	64.0	58.0
7-Oct-11	22:10	60.5	63.0	57.3
7-Oct-11	22:15	60.0	62.7	56.8
7-Oct-11	22:20	60.1	62.0	57.3
7-Oct-11	22:25	62.7	65.7	58.5
7-Oct-11	22:30	62.2	65.0	58.0
7-Oct-11	22:35	62.2	64.7	58.5
7-Oct-11	22:40	61.6	64.1	58.1
7-Oct-11	22:45	60.6	63.2	57.5
7-Oct-11	22:50	60.8	63.5	57.2
7-Oct-11	22:55	61.1	63.4	57.7
	Mean	62.6	65.2	58.6
	Maximum	64.6	67.4	60.6
	Minimum	60.0	62.0	56.8

## Appendix C2

### Evening Time and Holiday Noise Level at Open Area near Naval Base Barrack\_NM7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
8-Oct-11	19:00	65.3	67.8	61.3
8-Oct-11	19:05	64.4	66.8	61.2
8-Oct-11	19:10	64.6	67.1	61.0
8-Oct-11	19:15	65.3	67.8	61.5
8-Oct-11	19:20	63.7	66.0	60.4
8-Oct-11	19:25	64.5	67.5	59.8
8-Oct-11	19:30	64.4	66.7	61.4
8-Oct-11	19:35	63.7	66.4	60.0
8-Oct-11	19:40	63.9	66.4	60.5
8-Oct-11	19:45	65.4	68.2	60.9
8-Oct-11	19:50	64.1	67.1	59.8
8-Oct-11	19:55	63.3	66.0	60.0
8-Oct-11	20:00	64.7	67.9	60.9
8-Oct-11	20:05	64.1	66.6	60.8
8-Oct-11	20:10	63.5	65.5	61.0
8-Oct-11	20:15	64.2	66.7	60.7
8-Oct-11	20:20	63.4	66.8	59.1
8-Oct-11	20:25	62.5	65.2	59.4
8-Oct-11	20:30	62.5	64.5	59.6
8-Oct-11	20:35	64.2	67.3	60.2
8-Oct-11	20:40	63.6	66.3	59.3
8-Oct-11	20:45	65.2	68.3	60.9
8-Oct-11	20:50	63.7	66.7	59.9
8-Oct-11	20:55	64.5	67.8	60.2
8-Oct-11	21:00	63.2	65.5	60.2
8-Oct-11	21:05	63.5	65.4	61.0
8-Oct-11	21:10	64.0	67.0	60.1
8-Oct-11	21:15	64.0	66.7	60.4
8-Oct-11	21:20	63.7	66.8	60.1
8-Oct-11	21:25	64.3	67.4	59.9
8-Oct-11	21:30	62.4	65.0	59.9
8-Oct-11	21:35	64.6	66.9	61.3
8-Oct-11	21:40	64.5	67.2	60.6
8-Oct-11	21:45	63.1	65.5	60.6
8-Oct-11	21:50	63.7	66.7	60.4
8-Oct-11	21:55	64.1	66.7	60.5
8-Oct-11	22:00	63.9	66.8	60.3
8-Oct-11	22:05	63.3	65.5	60.1
8-Oct-11	22:10	63.6	66.1	59.9
8-Oct-11	22:15	60.5	62.6	58.3
8-Oct-11	22:20	62.6	64.8	59.3
8-Oct-11	22:25	64.7	67.6	60.9
8-Oct-11	22:30	65.1	68.3	60.4
8-Oct-11	22:35	64.9	68.1	61.1
8-Oct-11	22:40	61.5	63.8	59.0
8-Oct-11	22:45	61.6	63.9	59.2
8-Oct-11	22:50	62.8	65.7	59.1
8-Oct-11	22:55	62.8	65.4	59.4
	Mean	63.9	66.4	60.2
	Maximum	65.4	68.3	61.5
	Minimum	60.5	62.6	58.3

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
9-Oct-11	7:00	63.6	66.8	57.7
9-Oct-11	7:05	62.3	65.2	56.7
9-Oct-11	7:10	63.6	66.4	58.0
9-Oct-11	7:15	62.2	65.4	57.8
9-Oct-11	7:20	63.8	66.8	59.4
9-Oct-11	7:25	64.7	66.9	60.4
9-Oct-11	7:30	65.1	67.7	60.6
9-Oct-11	7:35	64.4	66.8	61.2
9-Oct-11	7:40	64.8	67.6	60.8
9-Oct-11	7:45	64.9	68.0	60.5
9-Oct-11	7:50	64.4	66.5	61.8
9-Oct-11	7:55	64.7	67.4	59.9
9-Oct-11	8:00	64.9	66.8	62.4
9-Oct-11	8:05	65.7	67.5	62.4
9-Oct-11	8:10	65.0	67.8	61.0
9-Oct-11	8:15	65.0	67.2	61.6
9-Oct-11	8:20	65.9	68.1	62.4
9-Oct-11	8:25	64.3	66.7	60.5
9-Oct-11	8:30	66.2	68.5	61.7
9-Oct-11	8:35	64.8	66.9	62.0
9-Oct-11	8:40	65.3	67.6	61.9
9-Oct-11	8:45	66.1	68.2	62.9
9-Oct-11	8:50	66.8	68.5	64.0
9-Oct-11	8:55	65.0	67.2	61.3
9-Oct-11	9:00	66.7	69.4	62.3
9-Oct-11	9:05	64.8	67.0	61.0
9-Oct-11	9:10	65.3	67.7	62.4
9-Oct-11	9:15	65.8	68.5	62.1
9-Oct-11	9:20	65.2	67.6	61.7
9-Oct-11	9:25	64.6	66.7	61.2
9-Oct-11	9:30	64.3	66.8	60.6
9-Oct-11	9:35	64.5	66.9	59.6
9-Oct-11	9:40	63.8	66.1	59.6
9-Oct-11	9:45	64.8	67.2	61.5
9-Oct-11	9:50	65.5	67.8	61.8
9-Oct-11	9:55	65.1	67.5	59.9
9-Oct-11	10:00	63.6	65.9	60.1
9-Oct-11	10:05	64.6	67.4	59.7
9-Oct-11	10:10	64.1	66.5	60.4
9-Oct-11	10:15	62.8	65.4	58.3
9-Oct-11	10:20	65.7	67.6	61.9
9-Oct-11	10:25	65.1	67.7	60.8
9-Oct-11	10:30	66.1	68.5	62.3
9-Oct-11	10:35	65.2	67.8	60.3
9-Oct-11	10:40	66.2	68.7	61.9
9-Oct-11	10:45	65.7	68.1	61.4
9-Oct-11	10:50	64.6	67.2	61.0
9-Oct-11	10:55	65.8	67.9	61.8

## Appendix C2

### Evening Time and Holiday Noise Level at Open Area near Naval Base Barrack\_NM7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
9-Oct-11	11:00	65.5	67.7	61.7
9-Oct-11	11:05	65.1	67.7	60.8
9-Oct-11	11:10	65.3	67.5	62.3
9-Oct-11	11:15	66.1	68.5	62.3
9-Oct-11	11:20	66.0	68.0	62.7
9-Oct-11	11:25	65.4	67.6	62.5
9-Oct-11	11:30	65.6	67.8	62.7
9-Oct-11	11:35	65.3	67.7	60.2
9-Oct-11	11:40	64.9	67.8	60.4
9-Oct-11	11:45	65.4	67.7	62.1
9-Oct-11	11:50	64.8	67.3	60.4
9-Oct-11	11:55	65.3	68.0	61.4
9-Oct-11	12:00	64.5	66.9	59.8
9-Oct-11	12:05	63.9	65.9	60.6
9-Oct-11	12:10	64.2	67.0	59.4
9-Oct-11	12:15	65.2	67.4	61.4
9-Oct-11	12:20	64.1	67.1	59.4
9-Oct-11	12:25	62.6	65.5	58.9
9-Oct-11	12:30	62.9	65.2	59.6
9-Oct-11	12:35	62.8	65.5	59.0
9-Oct-11	12:40	63.7	66.1	60.2
9-Oct-11	12:45	65.4	67.9	60.5
9-Oct-11	12:50	63.4	66.2	59.4
9-Oct-11	12:55	64.5	67.2	60.6
9-Oct-11	13:00	65.6	67.4	62.7
9-Oct-11	13:05	65.0	67.7	61.4
9-Oct-11	13:10	65.3	67.7	61.5
9-Oct-11	13:15	65.2	67.5	62.4
9-Oct-11	13:20	65.5	67.9	61.7
9-Oct-11	13:25	65.0	67.3	61.5
9-Oct-11	13:30	65.4	67.6	61.9
9-Oct-11	13:35	65.7	68.0	62.4
9-Oct-11	13:40	65.0	66.9	62.5
9-Oct-11	13:45	65.4	67.5	62.0
9-Oct-11	13:50	65.2	67.9	61.7
9-Oct-11	13:55	66.9	69.2	63.5
9-Oct-11	14:00	65.4	67.8	61.8
9-Oct-11	14:05	65.7	68.2	61.4
9-Oct-11	14:10	65.6	67.9	62.2
9-Oct-11	14:15	65.5	68.6	62.4
9-Oct-11	14:20	68.1	70.9	63.9
9-Oct-11	14:25	66.5	69.2	62.1
9-Oct-11	14:30	67.6	70.3	62.7
9-Oct-11	14:35	67.0	69.7	63.3
9-Oct-11	14:40	67.9	70.8	62.7
9-Oct-11	14:45	66.0	68.6	62.3
9-Oct-11	14:50	65.8	68.8	61.3
9-Oct-11	14:55	65.8	68.0	62.1

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
9-Oct-11	15:00	65.4	67.8	62.1
9-Oct-11	15:05	65.0	67.3	61.5
9-Oct-11	15:10	65.8	68.3	62.4
9-Oct-11	15:15	66.1	68.8	61.9
9-Oct-11	15:20	65.7	68.3	61.5
9-Oct-11	15:25	66.7	68.6	63.0
9-Oct-11	15:30	65.9	68.1	62.1
9-Oct-11	15:35	66.1	68.5	62.5
9-Oct-11	15:40	66.7	69.2	63.3
9-Oct-11	15:45	67.3	69.4	64.2
9-Oct-11	15:50	67.9	70.2	64.7
9-Oct-11	15:55	67.6	69.8	64.0
9-Oct-11	16:00	66.8	69.2	63.7
9-Oct-11	16:05	67.4	69.7	64.2
9-Oct-11	16:10	66.8	69.1	63.9
9-Oct-11	16:15	66.7	69.0	63.4
9-Oct-11	16:20	66.1	68.7	62.6
9-Oct-11	16:25	66.7	69.1	62.8
9-Oct-11	16:30	66.6	69.0	62.9
9-Oct-11	16:35	66.0	68.4	62.4
9-Oct-11	16:40	65.9	68.4	62.4
9-Oct-11	16:45	66.6	69.0	63.0
9-Oct-11	16:50	66.3	68.6	62.8
9-Oct-11	16:55	66.0	69.0	62.0
9-Oct-11	17:00	65.6	67.7	62.4
9-Oct-11	17:05	66.3	69.3	62.4
9-Oct-11	17:10	66.3	69.0	62.6
9-Oct-11	17:15	67.0	69.5	63.1
9-Oct-11	17:20	66.7	68.8	63.2
9-Oct-11	17:25	66.7	69.3	63.1
9-Oct-11	17:30	66.3	68.5	63.1
9-Oct-11	17:35	66.4	68.9	62.7
9-Oct-11	17:40	65.6	68.0	62.1
9-Oct-11	17:45	66.1	68.4	62.7
9-Oct-11	17:50	66.7	69.3	62.7
9-Oct-11	17:55	64.6	67.1	61.3
9-Oct-11	18:00	65.4	67.8	61.2
9-Oct-11	18:05	65.9	67.9	62.6
9-Oct-11	18:10	65.9	68.6	61.4
9-Oct-11	18:15	66.8	69.5	62.4
9-Oct-11	18:20	66.2	68.5	62.6
9-Oct-11	18:25	63.9	66.6	59.3
9-Oct-11	18:30	64.7	67.4	60.3
9-Oct-11	18:35	64.7	67.3	60.8
9-Oct-11	18:40	64.4	67.0	60.4
9-Oct-11	18:45	64.5	67.0	60.7
9-Oct-11	18:50	64.9	67.5	61.2
9-Oct-11	18:55	64.0	66.4	60.3

## Appendix C2

### Evening Time and Holiday Noise Level at Open Area near Naval Base Barrack\_NM7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
9-Oct-11	19:00	64.4	66.6	61.2
9-Oct-11	19:05	65.3	67.9	61.0
9-Oct-11	19:10	63.5	66.2	59.8
9-Oct-11	19:15	63.8	66.8	58.9
9-Oct-11	19:20	63.8	66.4	60.4
9-Oct-11	19:25	63.4	65.7	59.5
9-Oct-11	19:30	64.3	67.3	59.3
9-Oct-11	19:35	64.1	66.4	60.6
9-Oct-11	19:40	62.9	65.4	59.7
9-Oct-11	19:45	63.1	65.6	59.4
9-Oct-11	19:50	64.1	66.4	60.6
9-Oct-11	19:55	63.3	66.5	59.3
9-Oct-11	20:00	64.2	66.6	60.1
9-Oct-11	20:05	63.2	66.0	59.4
9-Oct-11	20:10	62.9	65.8	59.0
9-Oct-11	20:15	63.3	66.3	59.2
9-Oct-11	20:20	63.0	65.8	59.4
9-Oct-11	20:25	63.1	65.7	59.6
9-Oct-11	20:30	61.8	64.1	58.5
9-Oct-11	20:35	62.3	64.5	58.6
9-Oct-11	20:40	63.2	66.1	58.8
9-Oct-11	20:45	62.3	65.5	58.3
9-Oct-11	20:50	61.4	64.2	58.1
9-Oct-11	20:55	61.3	64.2	58.2
9-Oct-11	21:00	62.5	65.2	58.9
9-Oct-11	21:05	62.4	65.3	58.6
9-Oct-11	21:10	61.2	64.2	57.8
9-Oct-11	21:15	61.0	63.9	57.7
9-Oct-11	21:20	61.2	63.7	57.3
9-Oct-11	21:25	60.8	63.5	57.7
9-Oct-11	21:30	61.0	63.3	57.2
9-Oct-11	21:35	60.8	63.8	57.4
9-Oct-11	21:40	61.5	64.6	57.6
9-Oct-11	21:45	60.9	64.0	57.5
9-Oct-11	21:50	60.9	63.2	57.9
9-Oct-11	21:55	60.4	63.0	57.5
9-Oct-11	22:00	61.3	64.1	58.0
9-Oct-11	22:05	62.2	64.7	58.1
9-Oct-11	22:10	61.2	63.7	57.3
9-Oct-11	22:15	59.9	62.3	57.2
9-Oct-11	22:20	60.8	63.2	57.7
9-Oct-11	22:25	61.1	63.3	58.5
9-Oct-11	22:30	61.3	64.1	58.0
9-Oct-11	22:35	61.0	64.4	57.1
9-Oct-11	22:40	60.2	63.4	56.8
9-Oct-11	22:45	61.8	64.8	57.1
9-Oct-11	22:50	59.9	62.6	57.0
9-Oct-11	22:55	58.1	59.9	55.2
Mean		64.9	67.1	60.8
Maximum		68.1	70.9	64.7
Minimum		58.1	59.9	55.2

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
10-Oct-11	19:00	65.0	67.2	61.8
10-Oct-11	19:05	65.9	68.5	61.6
10-Oct-11	19:10	64.1	66.8	60.4
10-Oct-11	19:15	64.4	67.4	59.5
10-Oct-11	19:20	64.4	67.0	61.0
10-Oct-11	19:25	64.0	66.3	60.1
10-Oct-11	19:30	64.9	67.9	59.9
10-Oct-11	19:35	64.7	67.0	61.2
10-Oct-11	19:40	63.5	66.0	60.3
10-Oct-11	19:45	63.7	66.2	60.0
10-Oct-11	19:50	64.7	67.0	61.2
10-Oct-11	19:55	63.9	67.1	59.9
10-Oct-11	20:00	64.8	67.2	60.7
10-Oct-11	20:05	63.8	66.6	60.0
10-Oct-11	20:10	63.5	66.4	59.6
10-Oct-11	20:15	63.9	66.9	59.8
10-Oct-11	20:20	63.6	66.4	60.0
10-Oct-11	20:25	63.7	66.3	60.2
10-Oct-11	20:30	62.4	64.7	59.1
10-Oct-11	20:35	62.9	65.1	59.2
10-Oct-11	20:40	63.8	66.7	59.4
10-Oct-11	20:45	62.9	66.1	58.9
10-Oct-11	20:50	62.0	64.8	58.7
10-Oct-11	20:55	61.9	64.8	58.8
10-Oct-11	21:00	63.1	65.8	59.5
10-Oct-11	21:05	63.0	65.9	59.2
10-Oct-11	21:10	61.8	64.8	58.4
10-Oct-11	21:15	61.6	64.5	58.3
10-Oct-11	21:20	61.8	64.3	57.9
10-Oct-11	21:25	61.4	64.1	58.3
10-Oct-11	21:30	61.6	63.9	57.8
10-Oct-11	21:35	61.4	64.4	58.0
10-Oct-11	21:40	62.1	65.2	58.2
10-Oct-11	21:45	61.5	64.6	58.1
10-Oct-11	21:50	61.5	63.8	58.5
10-Oct-11	21:55	61.0	63.6	58.1
10-Oct-11	22:00	61.9	64.7	58.6
10-Oct-11	22:05	62.8	65.3	58.7
10-Oct-11	22:10	61.8	64.3	57.9
10-Oct-11	22:15	60.5	62.9	57.8
10-Oct-11	22:20	61.4	63.8	58.3
10-Oct-11	22:25	61.7	63.9	59.1
10-Oct-11	22:30	61.9	64.7	58.6
10-Oct-11	22:35	61.6	65.0	57.7
10-Oct-11	22:40	60.8	64.0	57.4
10-Oct-11	22:45	62.4	65.4	57.7
10-Oct-11	22:50	60.5	63.2	57.6
10-Oct-11	22:55	58.7	60.5	55.8
Mean		63.0	65.4	59.1
Maximum		65.9	68.5	61.8
Minimum		58.7	60.5	55.8

## Appendix C2

### Evening Time and Holiday Noise Level at Open Area near Naval Base Barrack\_NM7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
11-Oct-11	19:00	63.5	66.4	59.1
11-Oct-11	19:05	63.8	66.7	58.1
11-Oct-11	19:10	64.2	66.9	59.4
11-Oct-11	19:15	63.0	66.3	58.1
11-Oct-11	19:20	63.4	65.9	58.9
11-Oct-11	19:25	62.6	65.7	58.2
11-Oct-11	19:30	63.8	66.7	59.8
11-Oct-11	19:35	62.8	65.9	58.1
11-Oct-11	19:40	62.9	65.5	58.0
11-Oct-11	19:45	61.4	64.4	56.3
11-Oct-11	19:50	62.6	65.6	58.3
11-Oct-11	19:55	61.9	65.5	56.4
11-Oct-11	20:00	61.9	65.5	56.8
11-Oct-11	20:05	62.0	65.0	57.3
11-Oct-11	20:10	62.1	64.7	57.5
11-Oct-11	20:15	60.6	63.5	55.9
11-Oct-11	20:20	58.8	61.5	55.9
11-Oct-11	20:25	62.5	65.0	57.3
11-Oct-11	20:30	61.7	64.4	57.2
11-Oct-11	20:35	61.4	64.5	56.6
11-Oct-11	20:40	60.7	63.2	56.6
11-Oct-11	20:45	59.2	61.4	56.4
11-Oct-11	20:50	61.1	64.1	57.2
11-Oct-11	20:55	60.0	63.1	56.4
11-Oct-11	21:00	59.7	63.1	55.7
11-Oct-11	21:05	60.1	63.0	56.6
11-Oct-11	21:10	61.1	64.2	56.9
11-Oct-11	21:15	60.6	62.9	57.9
11-Oct-11	21:20	60.7	63.7	57.0
11-Oct-11	21:25	60.7	63.6	56.9
11-Oct-11	21:30	59.5	61.5	56.5
11-Oct-11	21:35	63.5	67.8	56.5
11-Oct-11	21:40	64.6	66.7	56.2
11-Oct-11	21:45	61.3	63.6	57.3
11-Oct-11	21:50	61.8	63.1	57.1
11-Oct-11	21:55	60.0	62.5	57.0
11-Oct-11	22:00	60.6	63.7	55.9
11-Oct-11	22:05	59.5	62.5	55.9
11-Oct-11	22:10	57.3	59.9	54.7
11-Oct-11	22:15	59.5	62.8	55.3
11-Oct-11	22:20	57.5	59.2	55.2
11-Oct-11	22:25	60.6	63.7	56.1
11-Oct-11	22:30	59.3	61.7	55.6
11-Oct-11	22:35	59.5	61.3	55.8
11-Oct-11	22:40	61.6	64.3	57.1
11-Oct-11	22:45	59.5	62.5	55.8
11-Oct-11	22:50	58.7	61.3	55.2
11-Oct-11	22:55	59.3	61.3	56.0
	Mean	61.5	63.9	56.9
	Maximum	64.6	67.8	59.8
	Minimum	57.3	59.2	54.7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
12-Oct-11	19:00	64.3	67.7	58.4
12-Oct-11	19:05	60.7	62.8	58.2
12-Oct-11	19:10	61.5	64.6	58.1
12-Oct-11	19:15	60.7	63.2	57.4
12-Oct-11	19:20	61.0	63.2	58.1
12-Oct-11	19:25	61.1	63.3	58.0
12-Oct-11	19:30	60.4	62.3	58.2
12-Oct-11	19:35	62.2	65.0	58.1
12-Oct-11	19:40	59.8	61.9	57.9
12-Oct-11	19:45	61.1	63.2	58.4
12-Oct-11	19:50	60.0	62.1	57.9
12-Oct-11	19:55	61.9	61.6	57.7
12-Oct-11	20:00	59.6	61.3	57.4
12-Oct-11	20:05	61.8	64.9	57.9
12-Oct-11	20:10	60.6	62.8	57.6
12-Oct-11	20:15	59.5	61.7	56.5
12-Oct-11	20:20	59.5	60.8	57.9
12-Oct-11	20:25	59.6	61.2	57.9
12-Oct-11	20:30	59.5	61.5	57.4
12-Oct-11	20:35	59.8	62.2	57.0
12-Oct-11	20:40	61.2	63.8	58.2
12-Oct-11	20:45	59.3	60.8	57.5
12-Oct-11	20:50	59.5	61.3	57.3
12-Oct-11	20:55	59.9	61.9	57.2
12-Oct-11	21:00	59.5	61.8	57.0
12-Oct-11	21:05	60.3	64.0	57.1
12-Oct-11	21:10	60.4	63.1	57.1
12-Oct-11	21:15	61.1	63.5	56.5
12-Oct-11	21:20	58.0	60.0	56.1
12-Oct-11	21:25	61.4	63.9	57.5
12-Oct-11	21:30	61.5	64.6	56.4
12-Oct-11	21:35	60.0	62.9	56.4
12-Oct-11	21:40	58.8	61.0	56.4
12-Oct-11	21:45	58.5	60.5	56.0
12-Oct-11	21:50	59.6	61.8	56.2
12-Oct-11	21:55	58.9	61.5	56.1
12-Oct-11	22:00	60.4	62.7	56.9
12-Oct-11	22:05	59.6	61.9	56.3
12-Oct-11	22:10	60.7	63.4	56.9
12-Oct-11	22:15	61.2	63.9	58.0
12-Oct-11	22:20	61.5	64.4	58.2
12-Oct-11	22:25	59.3	61.0	57.5
12-Oct-11	22:30	61.7	64.1	58.4
12-Oct-11	22:35	63.8	66.2	60.0
12-Oct-11	22:40	64.7	68.5	58.7
12-Oct-11	22:45	63.1	66.2	58.0
12-Oct-11	22:50	59.4	61.2	57.2
12-Oct-11	22:55	58.5	60.0	56.4
	Mean	60.8	62.9	57.4
	Maximum	64.7	68.5	60.0
	Minimum	58.0	60.0	56.0

Summary of Evening Time and Holiday Noise Level at Open Area near Naval Base Barrack_NM7			
	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
Mean	63.4	65.6	59.4
Maximum	73.7	70.9	64.7
Minimum	57.3	59.2	54.7



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**APPENDIX C3**  
**Night-time 23:00-07:00hrs of the next day**  
**Baseline Noise Monitoring Data**

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## Appendix C3

### Night Time Noise Level at Open Area near Naval Base Barrack\_NM7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
26-Sep-11	0:00	59.8	59.2	49.1
26-Sep-11	0:05	60.9	62.3	56.2
26-Sep-11	0:10	57.4	58.5	56.1
26-Sep-11	0:15	59.6	53.0	49.0
26-Sep-11	0:20	58.0	58.9	56.7
26-Sep-11	0:25	59.9	63.0	57.2
26-Sep-11	0:30	58.7	59.8	57.3
26-Sep-11	0:35	57.7	58.8	56.3
26-Sep-11	0:40	55.1	59.0	49.7
26-Sep-11	0:45	53.4	53.9	47.7
26-Sep-11	0:50	52.1	53.2	48.5
26-Sep-11	0:55	56.9	58.7	54.0
26-Sep-11	1:00	56.3	56.7	54.0
26-Sep-11	1:05	55.5	56.5	54.4
26-Sep-11	1:10	57.7	58.7	53.5
26-Sep-11	1:15	56.7	57.8	55.1
26-Sep-11	1:20	55.2	56.3	53.8
26-Sep-11	1:25	55.7	56.9	54.0
26-Sep-11	1:30	56.0	56.9	55.0
26-Sep-11	1:35	56.2	57.3	55.0
26-Sep-11	1:40	57.6	57.9	56.1
26-Sep-11	1:45	56.7	57.7	55.4
26-Sep-11	1:50	57.6	58.5	56.2
26-Sep-11	1:55	57.9	59.5	56.2
26-Sep-11	2:00	58.1	59.2	55.8
26-Sep-11	2:05	57.5	58.8	56.0
26-Sep-11	2:10	59.0	60.4	57.4
26-Sep-11	2:15	58.8	59.8	57.6
26-Sep-11	2:20	58.3	59.6	56.7
26-Sep-11	2:25	59.6	60.8	57.9
26-Sep-11	2:30	59.1	60.2	57.5
26-Sep-11	2:35	58.3	59.1	57.2
26-Sep-11	2:40	58.4	59.1	57.2
26-Sep-11	2:45	57.7	58.7	56.5
26-Sep-11	2:50	58.3	59.3	57.1
26-Sep-11	2:55	57.9	58.9	56.5
26-Sep-11	3:00	59.3	60.7	57.9
26-Sep-11	3:05	57.5	59.2	55.4
26-Sep-11	3:10	56.9	58.4	55.0
26-Sep-11	3:15	56.2	57.6	54.7
26-Sep-11	3:20	56.7	57.7	55.5
26-Sep-11	3:25	56.7	57.6	55.3
26-Sep-11	3:30	57.1	57.9	54.9
26-Sep-11	3:35	56.7	57.8	55.4
26-Sep-11	3:40	57.0	58.3	55.2
26-Sep-11	3:45	58.0	59.5	56.1
26-Sep-11	3:50	56.7	58.0	55.2
26-Sep-11	3:55	59.7	59.1	56.4
26-Sep-11	4:00	57.1	58.1	56.0
26-Sep-11	4:05	56.3	57.4	55.2
26-Sep-11	4:10	58.6	57.9	55.1

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
26-Sep-11	4:15	61.2	58.3	55.4
26-Sep-11	4:20	56.6	57.8	55.1
26-Sep-11	4:25	56.8	58.0	55.3
26-Sep-11	4:30	57.6	58.7	56.2
26-Sep-11	4:35	56.2	57.2	55.0
26-Sep-11	4:40	57.0	57.9	55.1
26-Sep-11	4:45	58.1	60.3	54.9
26-Sep-11	4:50	58.6	60.6	55.0
26-Sep-11	4:55	59.6	59.8	48.6
26-Sep-11	5:00	58.5	62.7	50.3
26-Sep-11	5:05	55.8	58.7	47.0
26-Sep-11	5:10	60.0	60.9	58.7
26-Sep-11	5:15	60.6	61.9	59.2
26-Sep-11	5:20	60.4	61.8	58.9
26-Sep-11	5:25	58.3	60.7	54.7
26-Sep-11	5:30	57.9	60.6	53.4
26-Sep-11	5:35	57.9	60.2	53.3
26-Sep-11	5:40	58.4	61.7	52.4
26-Sep-11	5:45	58.9	60.6	53.3
26-Sep-11	5:50	58.0	60.8	54.5
26-Sep-11	5:55	59.0	60.8	56.5
26-Sep-11	6:00	60.1	61.5	58.1
26-Sep-11	6:05	59.7	61.1	58.1
26-Sep-11	6:10	59.7	61.1	58.1
26-Sep-11	6:15	59.2	60.3	57.8
26-Sep-11	6:20	59.3	60.0	57.7
26-Sep-11	6:25	59.9	61.1	58.1
26-Sep-11	6:30	60.0	61.5	58.2
26-Sep-11	6:35	60.1	61.6	58.0
26-Sep-11	6:40	60.6	62.7	58.1
26-Sep-11	6:45	59.3	60.9	57.3
26-Sep-11	6:50	59.8	61.7	57.0
26-Sep-11	6:55	58.3	60.3	54.6
26-Sep-11	23:00	60.5	63.2	58.1
26-Sep-11	23:05	61.4	62.6	59.1
26-Sep-11	23:10	59.8	61.4	58.1
26-Sep-11	23:15	60.9	63.2	58.3
26-Sep-11	23:20	59.9	61.4	58.1
26-Sep-11	23:25	61.8	63.6	60.0
26-Sep-11	23:30	61.2	62.8	58.0
26-Sep-11	23:35	61.0	63.5	58.2
26-Sep-11	23:40	61.0	62.9	58.7
26-Sep-11	23:45	60.8	62.8	58.3
26-Sep-11	23:50	60.0	62.0	57.9
26-Sep-11	23:55	60.6	62.7	58.1
	Mean	58.7	59.6	55.7
	Maximum	61.8	63.6	60.0
	Minimum	52.1	53.0	47.0

## Appendix C3

### Night Time Noise Level at Open Area near Naval Base Barrack\_NM7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
27-Sep-11	0:00	58.7	62.1	54.4
27-Sep-11	0:05	58.2	60.4	54.9
27-Sep-11	0:10	58.3	61.4	54.5
27-Sep-11	0:15	59.6	62.3	56.2
27-Sep-11	0:20	59.6	62.6	55.0
27-Sep-11	0:25	59.4	62.7	55.4
27-Sep-11	0:30	59.1	61.3	55.3
27-Sep-11	0:35	57.8	61.2	54.3
27-Sep-11	0:40	57.2	59.9	54.2
27-Sep-11	0:45	58.9	62.2	54.5
27-Sep-11	0:50	56.1	57.5	53.9
27-Sep-11	0:55	56.2	58.2	53.9
27-Sep-11	1:00	58.6	62.0	54.6
27-Sep-11	1:05	56.8	59.5	53.9
27-Sep-11	1:10	55.8	57.6	53.8
27-Sep-11	1:15	56.5	58.2	53.7
27-Sep-11	1:20	58.9	61.9	55.1
27-Sep-11	1:25	56.8	58.5	54.8
27-Sep-11	1:30	56.9	59.0	54.3
27-Sep-11	1:35	57.2	59.8	54.2
27-Sep-11	1:40	56.4	58.7	53.1
27-Sep-11	1:45	58.1	61.8	54.4
27-Sep-11	1:50	56.1	57.5	54.0
27-Sep-11	1:55	56.1	57.6	53.7
27-Sep-11	2:00	58.2	60.7	54.4
27-Sep-11	2:05	58.7	60.5	56.3
27-Sep-11	2:10	59.6	61.7	57.1
27-Sep-11	2:15	58.3	59.8	56.2
27-Sep-11	2:20	60.0	62.9	54.9
27-Sep-11	2:25	56.5	58.0	53.9
27-Sep-11	2:30	56.3	57.9	54.3
27-Sep-11	2:35	58.1	61.4	54.1
27-Sep-11	2:40	57.7	59.5	55.3
27-Sep-11	2:45	57.1	58.8	55.1
27-Sep-11	2:50	58.0	60.3	54.5
27-Sep-11	2:55	59.9	62.7	55.5
27-Sep-11	3:00	59.3	61.7	55.7
27-Sep-11	3:05	57.9	60.0	55.0
27-Sep-11	3:10	56.9	59.3	54.3
27-Sep-11	3:15	58.8	61.8	55.6
27-Sep-11	3:20	58.1	60.1	55.9
27-Sep-11	3:25	58.5	60.8	55.5
27-Sep-11	3:30	58.1	60.2	54.9
27-Sep-11	3:35	59.9	63.4	55.3
27-Sep-11	3:40	59.3	63.6	55.1
27-Sep-11	3:45	57.8	60.0	55.2
27-Sep-11	3:50	59.0	61.8	55.4
27-Sep-11	3:55	58.2	60.8	54.4
27-Sep-11	4:00	59.4	61.3	55.0
27-Sep-11	4:05	57.3	58.8	55.2
27-Sep-11	4:10	57.0	58.8	54.6

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
27-Sep-11	4:15	58.0	59.8	54.9
27-Sep-11	4:20	58.4	60.9	54.5
27-Sep-11	4:25	59.1	62.4	54.5
27-Sep-11	4:30	59.2	62.2	54.9
27-Sep-11	4:35	59.0	61.8	54.1
27-Sep-11	4:40	58.4	61.0	54.6
27-Sep-11	4:45	58.1	60.5	54.0
27-Sep-11	4:50	57.9	57.6	53.5
27-Sep-11	4:55	56.3	58.7	53.4
27-Sep-11	5:00	56.8	58.4	54.3
27-Sep-11	5:05	58.5	60.9	55.2
27-Sep-11	5:10	60.0	62.7	57.1
27-Sep-11	5:15	57.4	58.9	55.4
27-Sep-11	5:20	58.6	60.6	55.0
27-Sep-11	5:25	57.9	59.6	55.1
27-Sep-11	5:30	57.6	59.0	55.1
27-Sep-11	5:35	59.9	61.8	56.8
27-Sep-11	5:40	57.8	59.7	55.5
27-Sep-11	5:45	59.2	61.6	56.1
27-Sep-11	5:50	59.8	63.2	55.5
27-Sep-11	5:55	59.6	62.6	55.5
27-Sep-11	6:00	60.0	62.7	56.3
27-Sep-11	6:05	62.2	64.9	56.9
27-Sep-11	6:10	61.2	64.2	57.2
27-Sep-11	6:15	60.2	63.8	55.9
27-Sep-11	6:20	60.7	64.0	56.0
27-Sep-11	6:25	62.3	65.5	56.5
27-Sep-11	6:30	60.5	64.0	55.9
27-Sep-11	6:35	61.2	63.8	56.9
27-Sep-11	6:40	60.6	63.4	56.2
27-Sep-11	6:45	61.1	63.3	56.7
27-Sep-11	6:50	61.2	64.3	56.0
27-Sep-11	6:55	62.1	65.4	56.5
27-Sep-11	23:00	58.5	61.2	56.0
27-Sep-11	23:05	59.3	61.6	56.2
27-Sep-11	23:10	57.7	59.7	55.4
27-Sep-11	23:15	58.9	61.8	55.2
27-Sep-11	23:20	59.4	62.5	56.1
27-Sep-11	23:25	62.2	61.6	55.7
27-Sep-11	23:30	60.1	63.5	56.0
27-Sep-11	23:35	59.1	61.4	56.1
27-Sep-11	23:40	58.8	61.7	56.1
27-Sep-11	23:45	58.5	60.3	56.3
27-Sep-11	23:50	60.7	63.8	56.2
27-Sep-11	23:55	62.3	64.7	57.9
Mean		59.0	61.1	55.2
Maximum		62.3	65.5	57.9
Minimum		55.8	57.5	53.1

## Appendix C3

### Night Time Noise Level at Open Area near Naval Base Barrack\_NM7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
30-Sep-11	0:00	59.4	61.7	57.1
30-Sep-11	0:05	60.0	62.5	57.6
30-Sep-11	0:10	58.8	59.8	57.1
30-Sep-11	0:15	58.8	60.3	57.1
30-Sep-11	0:20	60.6	63.0	57.8
30-Sep-11	0:25	59.3	61.6	57.2
30-Sep-11	0:30	59.0	61.2	57.0
30-Sep-11	0:35	58.2	59.2	57.0
30-Sep-11	0:40	58.1	59.2	56.9
30-Sep-11	0:45	59.1	61.7	56.3
30-Sep-11	0:50	56.9	58.2	55.5
30-Sep-11	0:55	58.8	60.7	56.1
30-Sep-11	1:00	59.7	61.3	56.9
30-Sep-11	1:05	58.3	60.9	55.5
30-Sep-11	1:10	58.5	60.5	56.3
30-Sep-11	1:15	61.4	64.9	56.0
30-Sep-11	1:20	56.9	58.8	55.0
30-Sep-11	1:25	57.9	59.2	55.3
30-Sep-11	1:30	58.4	59.7	55.4
30-Sep-11	1:35	60.4	63.0	56.2
30-Sep-11	1:40	60.4	63.8	56.1
30-Sep-11	1:45	58.6	60.8	56.1
30-Sep-11	1:50	59.3	62.5	56.0
30-Sep-11	1:55	58.4	60.1	55.4
30-Sep-11	2:00	57.7	59.8	55.0
30-Sep-11	2:05	57.0	58.9	55.0
30-Sep-11	2:10	57.5	59.4	55.4
30-Sep-11	2:15	55.9	56.7	55.0
30-Sep-11	2:20	57.5	59.2	55.9
30-Sep-11	2:25	56.2	57.2	55.1
30-Sep-11	2:30	57.3	59.3	55.1
30-Sep-11	2:35	58.0	60.3	55.3
30-Sep-11	2:40	57.3	58.7	55.2
30-Sep-11	2:45	58.9	61.8	55.9
30-Sep-11	2:50	57.9	59.7	55.4
30-Sep-11	2:55	57.1	58.3	55.6
30-Sep-11	3:00	57.5	59.0	55.4
30-Sep-11	3:05	57.8	59.5	56.0
30-Sep-11	3:10	57.1	58.5	55.9
30-Sep-11	3:15	59.4	62.5	55.9
30-Sep-11	3:20	56.8	57.8	55.3
30-Sep-11	3:25	56.9	58.9	54.9
30-Sep-11	3:30	55.9	56.8	54.9
30-Sep-11	3:35	56.8	58.5	55.1
30-Sep-11	3:40	58.7	61.8	55.0
30-Sep-11	3:45	57.9	60.1	55.2
30-Sep-11	3:50	57.7	59.5	55.1
30-Sep-11	3:55	59.7	62.5	55.9
30-Sep-11	4:00	57.1	58.7	55.0
30-Sep-11	4:05	56.9	58.8	55.0
30-Sep-11	4:10	56.4	57.7	54.9

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
30-Sep-11	4:15	57.0	58.7	55.0
30-Sep-11	4:20	57.2	59.7	54.9
30-Sep-11	4:25	55.7	56.6	54.9
30-Sep-11	4:30	55.6	56.6	54.5
30-Sep-11	4:35	56.8	57.4	54.9
30-Sep-11	4:40	55.8	56.7	54.9
30-Sep-11	4:45	58.6	61.4	55.2
30-Sep-11	4:50	58.4	61.2	55.4
30-Sep-11	4:55	57.1	58.9	55.1
30-Sep-11	5:00	56.1	57.4	55.0
30-Sep-11	5:05	56.6	58.4	54.9
30-Sep-11	5:10	56.0	57.2	54.9
30-Sep-11	5:15	58.0	61.4	55.0
30-Sep-11	5:20	58.8	61.3	55.0
30-Sep-11	5:25	59.4	63.1	55.4
30-Sep-11	5:30	59.3	62.7	55.2
30-Sep-11	5:35	58.8	61.8	55.2
30-Sep-11	5:40	59.6	62.8	55.9
30-Sep-11	5:45	61.0	64.6	56.1
30-Sep-11	5:50	61.2	64.0	56.8
30-Sep-11	5:55	59.8	63.1	56.3
30-Sep-11	6:00	59.1	59.4	56.1
30-Sep-11	6:05	60.4	63.3	56.3
30-Sep-11	6:10	60.7	63.9	56.6
30-Sep-11	6:15	62.0	65.1	58.1
30-Sep-11	6:20	60.9	63.7	56.5
30-Sep-11	6:25	60.5	63.4	56.6
30-Sep-11	6:30	60.7	63.4	56.9
30-Sep-11	6:35	61.9	65.1	57.5
30-Sep-11	6:40	60.8	63.4	57.5
30-Sep-11	6:45	62.2	65.7	57.4
30-Sep-11	6:50	61.6	64.2	56.9
30-Sep-11	6:55	61.9	64.7	56.6
30-Sep-11	23:00	60.9	62.9	56.5
30-Sep-11	23:05	60.9	62.5	58.0
30-Sep-11	23:10	60.3	61.9	57.9
30-Sep-11	23:15	61.5	64.9	58.7
30-Sep-11	23:20	61.4	62.4	57.9
30-Sep-11	23:25	60.3	62.8	56.4
30-Sep-11	23:30	60.7	62.0	56.2
30-Sep-11	23:35	60.2	63.6	55.2
30-Sep-11	23:40	59.8	61.0	54.7
30-Sep-11	23:45	56.9	58.5	54.9
30-Sep-11	23:50	59.2	61.7	56.0
30-Sep-11	23:55	57.0	58.9	55.0
	Mean	59.0	60.8	55.9
	Maximum	62.2	65.7	58.7
	Minimum	55.6	56.6	54.5

## Appendix C3

### Night Time Noise Level at Open Area near Naval Base Barrack\_NM7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
1-Oct-11	0:00	59.2	61.7	54.0
1-Oct-11	0:05	58.4	60.3	55.0
1-Oct-11	0:10	58.7	61.4	54.4
1-Oct-11	0:15	59.2	62.3	56.4
1-Oct-11	0:20	59.6	62.6	55.2
1-Oct-11	0:25	59.3	63.1	55.0
1-Oct-11	0:30	59.5	61.5	55.8
1-Oct-11	0:35	57.4	61.3	54.8
1-Oct-11	0:40	57.0	59.8	54.4
1-Oct-11	0:45	58.7	62.0	54.8
1-Oct-11	0:50	56.5	57.5	54.0
1-Oct-11	0:55	56.4	58.5	53.7
1-Oct-11	1:00	58.8	61.7	54.2
1-Oct-11	1:05	56.8	59.2	53.7
1-Oct-11	1:10	55.5	57.8	53.9
1-Oct-11	1:15	57.0	57.9	53.5
1-Oct-11	1:20	58.7	61.6	55.3
1-Oct-11	1:25	56.7	58.8	54.9
1-Oct-11	1:30	56.9	58.8	54.2
1-Oct-11	1:35	57.7	59.6	54.1
1-Oct-11	1:40	56.0	58.8	53.2
1-Oct-11	1:45	58.3	62.3	54.6
1-Oct-11	1:50	56.5	57.3	54.2
1-Oct-11	1:55	56.6	57.3	53.3
1-Oct-11	2:00	58.7	60.7	54.0
1-Oct-11	2:05	58.7	60.4	56.5
1-Oct-11	2:10	59.3	62.1	57.0
1-Oct-11	2:15	58.6	59.5	56.2
1-Oct-11	2:20	60.2	63.2	54.9
1-Oct-11	2:25	56.2	58.4	54.2
1-Oct-11	2:30	56.6	57.7	54.7
1-Oct-11	2:35	58.2	61.3	53.7
1-Oct-11	2:40	57.4	59.4	54.9
1-Oct-11	2:45	57.6	58.5	54.8
1-Oct-11	2:50	58.2	60.4	54.1
1-Oct-11	2:55	59.5	62.4	55.3
1-Oct-11	3:00	59.2	61.9	55.9
1-Oct-11	3:05	58.0	60.0	55.3
1-Oct-11	3:10	56.9	59.0	54.0
1-Oct-11	3:15	59.2	62.3	55.2
1-Oct-11	3:20	58.4	60.6	56.2
1-Oct-11	3:25	58.5	60.6	55.5
1-Oct-11	3:30	58.3	60.6	55.1
1-Oct-11	3:35	60.4	63.4	55.5
1-Oct-11	3:40	59.5	63.8	55.2
1-Oct-11	3:45	57.4	59.6	55.7
1-Oct-11	3:50	58.7	62.2	55.2
1-Oct-11	3:55	58.6	60.7	54.4
1-Oct-11	4:00	59.0	61.0	55.3
1-Oct-11	4:05	57.8	59.0	55.0
1-Oct-11	4:10	57.3	58.5	54.2

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
1-Oct-11	4:15	57.7	59.8	55.3
1-Oct-11	4:20	58.5	60.7	54.2
1-Oct-11	4:25	59.0	62.4	54.2
1-Oct-11	4:30	59.2	62.1	55.3
1-Oct-11	4:35	58.8	62.3	54.0
1-Oct-11	4:40	58.1	61.3	54.6
1-Oct-11	4:45	57.9	60.2	54.0
1-Oct-11	4:50	57.6	57.2	53.6
1-Oct-11	4:55	56.0	58.4	53.2
1-Oct-11	5:00	57.0	58.5	54.2
1-Oct-11	5:05	58.8	61.3	55.3
1-Oct-11	5:10	59.6	62.3	56.8
1-Oct-11	5:15	57.0	58.6	55.2
1-Oct-11	5:20	59.0	60.6	54.7
1-Oct-11	5:25	57.9	59.7	54.7
1-Oct-11	5:30	57.3	59.1	55.2
1-Oct-11	5:35	60.0	61.7	57.2
1-Oct-11	5:40	58.3	60.1	55.5
1-Oct-11	5:45	59.2	62.1	56.3
1-Oct-11	5:50	59.5	63.3	55.1
1-Oct-11	5:55	60.1	62.9	55.7
1-Oct-11	6:00	60.1	62.8	56.2
1-Oct-11	6:05	62.6	65.4	57.0
1-Oct-11	6:10	61.5	64.6	56.8
1-Oct-11	6:15	60.1	63.5	56.4
1-Oct-11	6:20	61.0	63.9	55.9
1-Oct-11	6:25	62.4	65.4	56.1
1-Oct-11	6:30	60.3	63.8	56.4
1-Oct-11	6:35	60.9	63.7	57.1
1-Oct-11	6:40	61.1	63.8	56.1
1-Oct-11	6:45	60.9	63.7	57.2
1-Oct-11	6:50	61.7	64.3	56.4
1-Oct-11	6:55	62.2	65.7	56.4
1-Oct-11	23:00	58.2	61.6	55.8
1-Oct-11	23:05	59.2	61.3	55.9
1-Oct-11	23:10	58.2	59.5	55.9
1-Oct-11	23:15	59.0	61.9	55.3
1-Oct-11	23:20	59.1	62.3	56.1
1-Oct-11	23:25	61.8	61.9	56.0
1-Oct-11	23:30	60.1	64.0	56.1
1-Oct-11	23:35	59.0	61.8	56.1
1-Oct-11	23:40	59.2	61.4	56.2
1-Oct-11	23:45	58.1	60.1	56.1
1-Oct-11	23:50	60.4	64.0	56.1
1-Oct-11	23:55	61.2	63.7	56.2
	Mean	59.0	61.1	55.2
	Maximum	62.6	65.7	57.2
	Minimum	55.5	57.2	53.2

## Appendix C3

### Night Time Noise Level at Open Area near Naval Base Barrack\_NM7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
2-Oct-11	0:00	58.6	61.5	56.9
2-Oct-11	0:05	59.2	62.3	57.4
2-Oct-11	0:10	58.0	59.6	56.9
2-Oct-11	0:15	58.0	60.1	56.9
2-Oct-11	0:20	59.8	62.8	57.6
2-Oct-11	0:25	58.5	61.4	57.0
2-Oct-11	0:30	58.2	61.0	56.8
2-Oct-11	0:35	57.4	59.0	56.8
2-Oct-11	0:40	57.3	59.0	56.7
2-Oct-11	0:45	58.3	61.5	56.1
2-Oct-11	0:50	56.1	58.0	55.3
2-Oct-11	0:55	58.0	60.5	55.9
2-Oct-11	1:00	58.9	61.1	56.7
2-Oct-11	1:05	57.5	60.7	55.3
2-Oct-11	1:10	57.7	60.3	56.1
2-Oct-11	1:15	60.6	64.7	55.8
2-Oct-11	1:20	56.1	58.6	54.8
2-Oct-11	1:25	57.1	59.0	55.1
2-Oct-11	1:30	57.6	59.5	55.2
2-Oct-11	1:35	59.6	62.8	56.0
2-Oct-11	1:40	59.6	63.6	55.9
2-Oct-11	1:45	57.8	60.6	55.9
2-Oct-11	1:50	58.5	62.3	55.8
2-Oct-11	1:55	57.6	59.9	55.2
2-Oct-11	2:00	56.9	59.6	54.8
2-Oct-11	2:05	56.2	58.7	54.8
2-Oct-11	2:10	56.7	59.2	55.2
2-Oct-11	2:15	55.1	56.5	54.8
2-Oct-11	2:20	56.7	59.0	55.7
2-Oct-11	2:25	55.4	57.0	54.9
2-Oct-11	2:30	56.5	59.1	54.9
2-Oct-11	2:35	57.2	60.1	55.1
2-Oct-11	2:40	56.5	58.5	55.0
2-Oct-11	2:45	58.1	61.6	55.7
2-Oct-11	2:50	57.1	59.5	55.2
2-Oct-11	2:55	56.3	58.1	55.4
2-Oct-11	3:00	56.7	58.8	55.2
2-Oct-11	3:05	57.0	59.3	55.8
2-Oct-11	3:10	56.3	58.3	55.7
2-Oct-11	3:15	58.6	62.3	55.7
2-Oct-11	3:20	56.0	57.6	55.1
2-Oct-11	3:25	56.1	58.7	54.7
2-Oct-11	3:30	55.1	56.6	54.7
2-Oct-11	3:35	56.0	58.3	54.9
2-Oct-11	3:40	57.9	61.6	54.8
2-Oct-11	3:45	57.1	59.9	55.0
2-Oct-11	3:50	56.9	59.3	54.9
2-Oct-11	3:55	58.9	62.3	55.7
2-Oct-11	4:00	56.3	58.5	54.8
2-Oct-11	4:05	56.1	58.6	54.8
2-Oct-11	4:10	55.6	57.5	54.7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
2-Oct-11	4:15	56.2	58.5	54.8
2-Oct-11	4:20	56.4	59.5	54.7
2-Oct-11	4:25	54.9	56.4	54.7
2-Oct-11	4:30	54.8	56.4	54.3
2-Oct-11	4:35	56.0	57.2	54.7
2-Oct-11	4:40	55.0	56.5	54.7
2-Oct-11	4:45	57.8	61.2	55.0
2-Oct-11	4:50	57.6	61.0	55.2
2-Oct-11	4:55	56.3	58.7	54.9
2-Oct-11	5:00	55.3	57.2	54.8
2-Oct-11	5:05	55.8	58.2	54.7
2-Oct-11	5:10	55.2	57.0	54.7
2-Oct-11	5:15	57.2	61.2	54.8
2-Oct-11	5:20	58.0	61.1	54.8
2-Oct-11	5:25	58.6	62.9	55.2
2-Oct-11	5:30	58.5	62.5	55.0
2-Oct-11	5:35	58.0	61.6	55.0
2-Oct-11	5:40	58.8	62.6	55.7
2-Oct-11	5:45	60.2	64.4	55.9
2-Oct-11	5:50	60.4	63.8	56.6
2-Oct-11	5:55	59.0	62.9	56.1
2-Oct-11	6:00	58.3	59.2	55.9
2-Oct-11	6:05	59.6	63.1	56.1
2-Oct-11	6:10	59.9	63.7	56.4
2-Oct-11	6:15	61.2	64.9	57.9
2-Oct-11	6:20	60.1	63.5	56.3
2-Oct-11	6:25	59.7	63.2	56.4
2-Oct-11	6:30	59.9	63.2	56.7
2-Oct-11	6:35	61.1	64.9	57.3
2-Oct-11	6:40	60.0	63.2	57.3
2-Oct-11	6:45	61.4	65.5	57.2
2-Oct-11	6:50	60.8	64.0	56.7
2-Oct-11	6:55	61.1	64.5	56.4
2-Oct-11	23:00	60.1	62.7	56.3
2-Oct-11	23:05	60.1	62.3	57.8
2-Oct-11	23:10	59.5	61.7	57.7
2-Oct-11	23:15	60.7	64.7	58.5
2-Oct-11	23:20	60.6	62.2	57.7
2-Oct-11	23:25	59.5	62.6	56.2
2-Oct-11	23:30	59.9	61.8	56.0
2-Oct-11	23:35	59.4	63.4	55.0
2-Oct-11	23:40	59.0	60.8	54.5
2-Oct-11	23:45	56.1	58.3	54.7
2-Oct-11	23:50	58.4	61.5	55.8
2-Oct-11	23:55	56.2	58.7	54.8
	Mean	58.2	60.6	55.7
	Maximum	61.4	65.5	58.5
	Minimum	54.8	56.4	54.3

## Appendix C3

### Night Time Noise Level at Open Area near Naval Base Barrack\_NM7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
4-Oct-11	0:00	58.5	60.5	56.3
4-Oct-11	0:05	59.1	61.1	56.1
4-Oct-11	0:10	57.1	59.0	55.9
4-Oct-11	0:15	57.7	59.2	55.7
4-Oct-11	0:20	59.6	61.5	57.0
4-Oct-11	0:25	58.2	60.3	55.9
4-Oct-11	0:30	57.5	59.8	55.7
4-Oct-11	0:35	56.9	58.1	55.6
4-Oct-11	0:40	57.1	58.3	56.1
4-Oct-11	0:45	57.9	60.7	54.7
4-Oct-11	0:50	55.9	57.0	54.0
4-Oct-11	0:55	57.9	59.7	54.4
4-Oct-11	1:00	58.4	60.3	55.3
4-Oct-11	1:05	56.9	59.3	54.2
4-Oct-11	1:10	57.2	59.5	54.8
4-Oct-11	1:15	60.9	64.7	55.2
4-Oct-11	1:20	56.4	58.1	54.7
4-Oct-11	1:25	57.4	58.3	54.7
4-Oct-11	1:30	57.9	59.1	55.1
4-Oct-11	1:35	60.1	62.6	55.3
4-Oct-11	1:40	59.8	62.8	55.2
4-Oct-11	1:45	57.9	60.1	55.2
4-Oct-11	1:50	58.3	62.3	54.9
4-Oct-11	1:55	57.7	59.6	54.6
4-Oct-11	2:00	56.9	59.1	54.2
4-Oct-11	2:05	56.4	58.0	54.5
4-Oct-11	2:10	56.4	58.3	55.2
4-Oct-11	2:15	55.5	56.4	54.5
4-Oct-11	2:20	57.2	58.4	55.0
4-Oct-11	2:25	55.1	56.9	54.8
4-Oct-11	2:30	56.3	59.1	54.9
4-Oct-11	2:35	57.4	59.4	54.2
4-Oct-11	2:40	56.2	58.1	54.3
4-Oct-11	2:45	58.4	60.8	55.3
4-Oct-11	2:50	58.1	59.7	55.4
4-Oct-11	2:55	57.1	58.9	55.9
4-Oct-11	3:00	57.5	59.1	55.5
4-Oct-11	3:05	58.6	59.5	56.8
4-Oct-11	3:10	57.7	58.9	55.9
4-Oct-11	3:15	59.9	62.7	56.5
4-Oct-11	3:20	57.5	58.4	55.8
4-Oct-11	3:25	57.3	58.9	55.4
4-Oct-11	3:30	56.2	56.7	55.6
4-Oct-11	3:35	57.2	59.2	55.0
4-Oct-11	3:40	58.8	62.2	55.3
4-Oct-11	3:45	58.7	60.6	55.1
4-Oct-11	3:50	58.2	60.1	55.9
4-Oct-11	3:55	60.1	62.8	56.5
4-Oct-11	4:00	57.3	59.3	55.1
4-Oct-11	4:05	57.6	59.5	55.6
4-Oct-11	4:10	57.0	57.8	55.7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
4-Oct-11	4:15	57.1	58.9	55.2
4-Oct-11	4:20	57.7	59.7	55.6
4-Oct-11	4:25	55.7	56.9	55.0
4-Oct-11	4:30	56.0	56.7	54.9
4-Oct-11	4:35	57.2	57.3	55.7
4-Oct-11	4:40	55.7	57.5	55.6
4-Oct-11	4:45	59.0	61.7	55.1
4-Oct-11	4:50	59.2	61.6	55.5
4-Oct-11	4:55	57.7	58.9	55.2
4-Oct-11	5:00	56.6	57.4	55.5
4-Oct-11	5:05	56.9	58.9	55.6
4-Oct-11	5:10	56.6	57.6	55.6
4-Oct-11	5:15	58.4	61.5	55.0
4-Oct-11	5:20	59.5	62.0	55.8
4-Oct-11	5:25	59.7	63.3	55.7
4-Oct-11	5:30	60.1	62.9	56.0
4-Oct-11	5:35	59.1	61.8	55.4
4-Oct-11	5:40	59.6	63.1	56.4
4-Oct-11	5:45	61.7	65.2	56.9
4-Oct-11	5:50	61.4	64.9	57.1
4-Oct-11	5:55	60.5	63.5	56.9
4-Oct-11	6:00	59.7	60.2	56.5
4-Oct-11	6:05	60.4	63.8	57.0
4-Oct-11	6:10	61.2	64.4	56.6
4-Oct-11	6:15	62.1	65.8	58.6
4-Oct-11	6:20	60.9	63.9	56.8
4-Oct-11	6:25	60.7	63.5	57.2
4-Oct-11	6:30	60.9	64.1	57.3
4-Oct-11	6:35	62.8	65.3	57.6
4-Oct-11	6:40	60.9	63.4	58.4
4-Oct-11	6:45	63.0	65.7	57.7
4-Oct-11	6:50	62.1	64.9	57.2
4-Oct-11	6:55	62.2	65.1	57.1
4-Oct-11	23:00	61.1	63.1	56.7
4-Oct-11	23:05	61.8	62.7	58.4
4-Oct-11	23:10	60.3	62.1	58.2
4-Oct-11	23:15	61.8	65.6	59.1
4-Oct-11	23:20	62.1	62.6	58.0
4-Oct-11	23:25	61.2	62.8	56.4
4-Oct-11	23:30	61.1	62.9	57.0
4-Oct-11	23:35	60.8	64.0	56.1
4-Oct-11	23:40	60.3	61.0	55.3
4-Oct-11	23:45	57.8	59.6	55.6
4-Oct-11	23:50	60.4	62.3	56.7
4-Oct-11	23:55	58.1	59.6	55.8
	Mean	59.1	60.7	55.8
	Maximum	63.0	65.8	59.1
	Minimum	55.1	56.4	54.0

## Appendix C3

### Night Time Noise Level at Open Area near Naval Base Barrack\_NM7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
5-Oct-11	0:00	56.2	61.5	53.4
5-Oct-11	0:05	56.0	59.2	54.3
5-Oct-11	0:10	55.4	60.7	53.9
5-Oct-11	0:15	55.8	60.9	55.3
5-Oct-11	0:20	56.6	61.8	54.4
5-Oct-11	0:25	58.8	61.6	54.6
5-Oct-11	0:30	55.9	60.0	54.4
5-Oct-11	0:35	56.2	60.6	54.4
5-Oct-11	0:40	55.8	59.3	53.9
5-Oct-11	0:45	56.4	61.9	54.4
5-Oct-11	0:50	55.9	57.6	54.0
5-Oct-11	0:55	54.9	58.1	53.3
5-Oct-11	1:00	55.4	61.7	54.6
5-Oct-11	1:05	57.5	59.6	54.0
5-Oct-11	1:10	54.6	57.8	53.1
5-Oct-11	1:15	56.0	58.3	53.1
5-Oct-11	1:20	55.8	62.0	55.2
5-Oct-11	1:25	56.7	57.9	54.3
5-Oct-11	1:30	56.3	58.7	53.7
5-Oct-11	1:35	56.8	59.1	54.2
5-Oct-11	1:40	56.1	58.6	53.3
5-Oct-11	1:45	56.5	61.8	54.0
5-Oct-11	1:50	57.2	57.6	53.5
5-Oct-11	1:55	57.1	57.4	53.5
5-Oct-11	2:00	56.9	60.1	54.4
5-Oct-11	2:05	57.0	60.1	55.6
5-Oct-11	2:10	57.0	61.1	57.0
5-Oct-11	2:15	57.2	60.0	56.2
5-Oct-11	2:20	57.7	62.9	54.2
5-Oct-11	2:25	56.2	58.2	53.6
5-Oct-11	2:30	56.1	57.9	54.4
5-Oct-11	2:35	56.9	60.9	54.2
5-Oct-11	2:40	56.9	59.4	55.2
5-Oct-11	2:45	55.4	58.8	55.2
5-Oct-11	2:50	56.1	59.7	54.2
5-Oct-11	2:55	58.0	62.9	55.3
5-Oct-11	3:00	56.8	61.9	55.1
5-Oct-11	3:05	56.4	59.3	55.2
5-Oct-11	3:10	56.2	58.8	54.3
5-Oct-11	3:15	58.3	61.5	55.0
5-Oct-11	3:20	56.1	59.9	55.5
5-Oct-11	3:25	56.7	60.5	55.1
5-Oct-11	3:30	56.5	59.7	54.6
5-Oct-11	3:35	55.7	62.8	55.3
5-Oct-11	3:40	57.4	63.4	55.0
5-Oct-11	3:45	56.9	60.2	55.2
5-Oct-11	3:50	57.0	61.6	55.5
5-Oct-11	3:55	56.6	60.9	54.3
5-Oct-11	4:00	56.6	60.7	55.1
5-Oct-11	4:05	57.4	58.8	54.6
5-Oct-11	4:10	56.7	58.7	54.4

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
5-Oct-11	4:15	57.9	59.9	54.5
5-Oct-11	4:20	57.7	60.7	54.1
5-Oct-11	4:25	58.6	62.5	54.1
5-Oct-11	4:30	57.4	62.3	55.1
5-Oct-11	4:35	58.5	61.5	54.3
5-Oct-11	4:40	58.4	60.4	54.3
5-Oct-11	4:45	57.5	60.6	53.3
5-Oct-11	4:50	58.1	57.2	52.8
5-Oct-11	4:55	56.2	58.7	53.2
5-Oct-11	5:00	57.1	58.2	53.7
5-Oct-11	5:05	57.4	61.0	55.0
5-Oct-11	5:10	57.7	62.9	57.2
5-Oct-11	5:15	57.6	58.9	54.7
5-Oct-11	5:20	59.5	60.7	54.8
5-Oct-11	5:25	56.2	59.6	54.6
5-Oct-11	5:30	56.7	58.7	55.0
5-Oct-11	5:35	59.4	61.1	56.4
5-Oct-11	5:40	58.4	58.9	55.1
5-Oct-11	5:45	57.8	61.4	55.4
5-Oct-11	5:50	57.8	62.8	54.7
5-Oct-11	5:55	58.7	61.9	55.4
5-Oct-11	6:00	57.5	62.4	56.4
5-Oct-11	6:05	60.3	64.4	56.3
5-Oct-11	6:10	59.9	63.8	57.3
5-Oct-11	6:15	59.8	63.4	55.2
5-Oct-11	6:20	59.1	64.2	56.2
5-Oct-11	6:25	59.2	65.7	56.0
5-Oct-11	6:30	60.8	63.4	55.7
5-Oct-11	6:35	60.8	63.5	56.7
5-Oct-11	6:40	61.0	62.7	55.7
5-Oct-11	6:45	61.1	62.7	56.4
5-Oct-11	6:50	61.3	63.7	56.0
5-Oct-11	6:55	61.7	65.6	56.1
5-Oct-11	23:00	58.4	60.7	56.0
5-Oct-11	23:05	58.8	61.3	56.0
5-Oct-11	23:10	57.9	59.6	55.0
5-Oct-11	23:15	58.5	61.6	55.2
5-Oct-11	23:20	58.8	61.8	56.1
5-Oct-11	23:25	62.4	61.6	55.1
5-Oct-11	23:30	59.4	62.8	56.0
5-Oct-11	23:35	58.7	60.8	56.2
5-Oct-11	23:40	58.4	61.8	56.0
5-Oct-11	23:45	58.1	59.6	56.4
5-Oct-11	23:50	60.1	63.4	55.6
5-Oct-11	23:55	62.3	64.0	58.1
	Mean	58.0	60.8	54.9
	Maximum	62.4	65.7	58.1
	Minimum	54.6	57.2	52.8



## Appendix C3

### Night Time Noise Level at Open Area near Naval Base Barrack\_NM7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
6-Oct-11	0:00	63.5	66.8	59.9
6-Oct-11	0:05	62.1	65.6	58.2
6-Oct-11	0:10	61.9	65.0	58.1
6-Oct-11	0:15	61.3	64.4	58.0
6-Oct-11	0:20	60.3	63.4	57.9
6-Oct-11	0:25	60.7	62.6	58.0
6-Oct-11	0:30	63.0	65.9	60.4
6-Oct-11	0:35	62.9	66.2	58.7
6-Oct-11	0:40	60.4	62.9	57.4
6-Oct-11	0:45	61.5	64.4	58.0
6-Oct-11	0:50	62.5	65.6	58.3
6-Oct-11	0:55	61.2	64.3	57.6
6-Oct-11	1:00	61.5	65.3	57.2
6-Oct-11	1:05	61.5	65.1	57.4
6-Oct-11	1:10	63.3	66.0	59.0
6-Oct-11	1:15	62.6	65.6	58.9
6-Oct-11	1:20	62.0	65.0	57.9
6-Oct-11	1:25	61.9	65.3	57.9
6-Oct-11	1:30	60.7	64.4	57.6
6-Oct-11	1:35	61.0	63.7	57.4
6-Oct-11	1:40	60.0	61.8	57.2
6-Oct-11	1:45	61.5	63.8	58.1
6-Oct-11	1:50	59.7	61.3	58.1
6-Oct-11	1:55	61.7	64.9	58.2
6-Oct-11	2:00	62.5	66.1	58.3
6-Oct-11	2:05	59.0	60.2	57.9
6-Oct-11	2:10	61.8	64.5	58.3
6-Oct-11	2:15	61.9	64.5	59.0
6-Oct-11	2:20	62.4	65.6	59.2
6-Oct-11	2:25	62.3	64.9	59.3
6-Oct-11	2:30	61.7	64.8	58.6
6-Oct-11	2:35	61.2	63.4	59.0
6-Oct-11	2:40	62.0	65.0	59.1
6-Oct-11	2:45	63.1	66.3	59.1
6-Oct-11	2:50	63.0	66.1	59.2
6-Oct-11	2:55	63.2	65.8	59.4
6-Oct-11	3:00	62.1	64.6	59.0
6-Oct-11	3:05	63.2	66.4	59.0
6-Oct-11	3:10	61.3	64.9	58.5
6-Oct-11	3:15	63.5	66.2	59.9
6-Oct-11	3:20	61.3	63.9	58.0
6-Oct-11	3:25	62.9	66.4	58.2
6-Oct-11	3:30	61.8	64.7	58.1
6-Oct-11	3:35	62.2	65.0	58.3
6-Oct-11	3:40	62.1	65.3	58.2
6-Oct-11	3:45	61.3	64.5	57.7
6-Oct-11	3:50	61.2	64.1	58.0
6-Oct-11	3:55	62.6	66.4	58.2
6-Oct-11	4:00	61.2	64.5	57.6
6-Oct-11	4:05	62.3	65.2	58.6
6-Oct-11	4:10	62.2	65.6	57.9

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
6-Oct-11	4:15	63.8	67.3	59.0
6-Oct-11	4:20	61.9	64.8	58.1
6-Oct-11	4:25	62.0	65.5	57.5
6-Oct-11	4:30	61.6	65.1	57.0
6-Oct-11	4:35	62.1	65.3	57.7
6-Oct-11	4:40	61.8	65.5	58.0
6-Oct-11	4:45	61.8	65.1	58.7
6-Oct-11	4:50	62.4	65.8	58.3
6-Oct-11	4:55	61.1	64.4	58.0
6-Oct-11	5:00	63.1	66.0	58.2
6-Oct-11	5:05	63.9	67.3	58.3
6-Oct-11	5:10	63.0	66.3	58.2
6-Oct-11	5:15	61.7	64.9	58.0
6-Oct-11	5:20	62.6	64.9	58.7
6-Oct-11	5:25	63.7	67.1	59.2
6-Oct-11	5:30	63.9	66.5	59.6
6-Oct-11	5:35	63.3	66.3	58.9
6-Oct-11	5:40	63.2	66.1	59.3
6-Oct-11	5:45	63.9	66.6	59.6
6-Oct-11	5:50	64.3	67.7	58.8
6-Oct-11	5:55	63.6	66.5	59.6
6-Oct-11	6:00	64.8	68.0	59.2
6-Oct-11	6:05	64.8	67.2	59.5
6-Oct-11	6:10	64.2	66.8	59.6
6-Oct-11	6:15	64.5	68.1	58.6
6-Oct-11	6:20	62.9	66.1	59.1
6-Oct-11	6:25	63.9	67.5	59.2
6-Oct-11	6:30	65.0	68.9	59.3
6-Oct-11	6:35	64.9	68.0	60.5
6-Oct-11	6:40	64.7	67.8	60.3
6-Oct-11	6:45	63.6	66.6	59.5
6-Oct-11	6:50	61.6	63.8	58.5
6-Oct-11	6:55	63.9	67.2	59.7
6-Oct-11	23:00	61.6	64.1	58.3
6-Oct-11	23:05	61.8	64.3	58.9
6-Oct-11	23:10	60.9	63.4	58.3
6-Oct-11	23:15	60.2	62.1	58.4
6-Oct-11	23:20	61.7	64.3	59.0
6-Oct-11	23:25	62.1	65.4	58.9
6-Oct-11	23:30	61.6	64.4	58.3
6-Oct-11	23:35	62.3	64.8	59.1
6-Oct-11	23:40	61.3	63.3	59.1
6-Oct-11	23:45	62.0	65.0	58.8
6-Oct-11	23:50	61.4	64.1	58.8
6-Oct-11	23:55	62.2	65.4	58.3
	Mean	62.5	65.3	58.6
	Maximum	65.0	68.9	60.5
	Minimum	59.0	60.2	57.0

## Appendix C3

### Night Time Noise Level at Open Area near Naval Base Barrack\_NM7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
7-Oct-11	0:00	61.5	64.7	58.1
7-Oct-11	0:05	61.5	63.7	58.9
7-Oct-11	0:10	61.9	64.7	59.1
7-Oct-11	0:15	61.9	64.9	58.9
7-Oct-11	0:20	62.4	65.7	59.1
7-Oct-11	0:25	62.4	65.4	58.7
7-Oct-11	0:30	63.4	66.6	59.7
7-Oct-11	0:35	61.9	64.9	59.0
7-Oct-11	0:40	60.6	63.0	58.5
7-Oct-11	0:45	61.7	64.2	59.0
7-Oct-11	0:50	61.3	64.1	58.7
7-Oct-11	0:55	60.8	62.8	58.4
7-Oct-11	1:00	60.5	62.8	58.2
7-Oct-11	1:05	61.7	64.6	58.1
7-Oct-11	1:10	62.7	65.9	59.0
7-Oct-11	1:15	62.5	65.8	59.0
7-Oct-11	1:20	61.4	64.3	58.4
7-Oct-11	1:25	60.7	62.8	58.3
7-Oct-11	1:30	61.3	63.7	58.8
7-Oct-11	1:35	63.1	65.6	59.6
7-Oct-11	1:40	61.6	64.2	58.4
7-Oct-11	1:45	62.1	65.3	58.2
7-Oct-11	1:50	64.1	67.1	59.4
7-Oct-11	1:55	61.7	64.3	59.0
7-Oct-11	2:00	62.7	65.5	59.1
7-Oct-11	2:05	61.9	65.1	58.4
7-Oct-11	2:10	60.7	62.5	58.0
7-Oct-11	2:15	62.1	64.8	58.3
7-Oct-11	2:20	61.9	64.4	58.8
7-Oct-11	2:25	60.8	63.2	58.4
7-Oct-11	2:30	62.1	65.1	58.3
7-Oct-11	2:35	61.3	63.0	59.2
7-Oct-11	2:40	64.6	67.5	60.2
7-Oct-11	2:45	62.2	65.2	58.7
7-Oct-11	2:50	60.4	62.5	58.1
7-Oct-11	2:55	62.1	65.3	58.6
7-Oct-11	3:00	63.4	66.9	59.0
7-Oct-11	3:05	61.7	64.8	58.8
7-Oct-11	3:10	62.1	64.6	59.3
7-Oct-11	3:15	62.1	64.1	58.9
7-Oct-11	3:20	61.4	63.7	58.9
7-Oct-11	3:25	61.5	63.5	58.8
7-Oct-11	3:30	63.7	66.7	59.5
7-Oct-11	3:35	65.1	68.1	59.9
7-Oct-11	3:40	62.6	65.4	59.1
7-Oct-11	3:45	61.9	64.4	59.1
7-Oct-11	3:50	62.7	65.8	59.0
7-Oct-11	3:55	61.7	64.0	59.0
7-Oct-11	4:00	63.3	66.0	59.9
7-Oct-11	4:05	61.8	64.5	58.9
7-Oct-11	4:10	61.4	64.1	59.0

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
7-Oct-11	4:15	64.3	65.7	58.6
7-Oct-11	4:20	65.8	68.8	59.1
7-Oct-11	4:25	60.8	63.5	58.3
7-Oct-11	4:30	62.1	65.3	58.4
7-Oct-11	4:35	61.5	64.4	58.5
7-Oct-11	4:40	60.8	62.2	58.6
7-Oct-11	4:45	65.8	68.7	60.4
7-Oct-11	4:50	62.5	66.0	58.6
7-Oct-11	4:55	60.3	62.7	57.9
7-Oct-11	5:00	60.9	63.5	58.3
7-Oct-11	5:05	62.4	65.4	58.7
7-Oct-11	5:10	62.9	65.4	59.6
7-Oct-11	5:15	62.3	65.6	58.9
7-Oct-11	5:20	60.4	61.7	58.6
7-Oct-11	5:25	61.3	63.0	58.9
7-Oct-11	5:30	62.1	65.4	58.9
7-Oct-11	5:35	60.7	62.5	58.8
7-Oct-11	5:40	59.8	60.6	58.1
7-Oct-11	5:45	60.8	62.5	58.6
7-Oct-11	5:50	63.7	67.7	58.4
7-Oct-11	5:55	63.8	66.7	58.2
7-Oct-11	6:00	64.1	66.7	60.2
7-Oct-11	6:05	62.7	65.6	59.0
7-Oct-11	6:10	61.7	64.9	58.2
7-Oct-11	6:15	61.3	64.1	58.1
7-Oct-11	6:20	61.9	65.1	58.7
7-Oct-11	6:25	63.3	66.5	58.9
7-Oct-11	6:30	64.6	68.2	59.1
7-Oct-11	6:35	64.1	67.3	59.6
7-Oct-11	6:40	63.6	66.3	59.9
7-Oct-11	6:45	63.4	66.2	60.1
7-Oct-11	6:50	64.0	67.6	58.9
7-Oct-11	6:55	63.1	65.8	59.1
7-Oct-11	23:00	60.4	62.6	57.4
7-Oct-11	23:05	61.1	63.7	58.0
7-Oct-11	23:10	61.3	64.2	57.7
7-Oct-11	23:15	60.8	63.0	58.3
7-Oct-11	23:20	60.9	63.3	58.2
7-Oct-11	23:25	61.9	64.5	58.2
7-Oct-11	23:30	60.4	62.4	57.8
7-Oct-11	23:35	60.3	62.0	58.1
7-Oct-11	23:40	61.5	63.9	58.6
7-Oct-11	23:45	61.5	64.0	58.5
7-Oct-11	23:50	60.3	62.2	58.0
7-Oct-11	23:55	61.3	64.3	57.7
	Mean	62.3	64.7	58.8
	Maximum	65.8	68.8	60.4
	Minimum	59.8	60.6	57.4

## Appendix C3

### Night Time Noise Level at Open Area near Naval Base Barrack\_NM7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
8-Oct-11	0:00	63.5	66.8	59.9
8-Oct-11	0:05	62.1	65.6	58.2
8-Oct-11	0:10	61.9	65.0	58.1
8-Oct-11	0:15	61.3	64.4	58.0
8-Oct-11	0:20	60.3	63.4	57.9
8-Oct-11	0:25	60.7	62.6	58.0
8-Oct-11	0:30	63.0	65.9	60.4
8-Oct-11	0:35	62.9	66.2	58.7
8-Oct-11	0:40	60.4	62.9	57.4
8-Oct-11	0:45	61.5	64.4	58.0
8-Oct-11	0:50	62.5	65.6	58.3
8-Oct-11	0:55	61.2	64.3	57.6
8-Oct-11	1:00	61.5	65.3	57.2
8-Oct-11	1:05	61.5	65.1	57.4
8-Oct-11	1:10	63.3	66.0	59.0
8-Oct-11	1:15	62.6	65.6	58.9
8-Oct-11	1:20	62.0	65.0	57.9
8-Oct-11	1:25	61.9	65.3	57.9
8-Oct-11	1:30	60.7	64.4	57.6
8-Oct-11	1:35	61.0	63.7	57.4
8-Oct-11	1:40	60.0	61.8	57.2
8-Oct-11	1:45	61.5	63.8	58.1
8-Oct-11	1:50	59.7	61.3	58.1
8-Oct-11	1:55	61.7	64.9	58.2
8-Oct-11	2:00	62.5	66.1	58.3
8-Oct-11	2:05	59.0	60.2	57.9
8-Oct-11	2:10	61.8	64.5	58.3
8-Oct-11	2:15	61.9	64.5	59.0
8-Oct-11	2:20	62.4	65.6	59.2
8-Oct-11	2:25	62.3	64.9	59.3
8-Oct-11	2:30	61.7	64.8	58.6
8-Oct-11	2:35	61.2	63.4	59.0
8-Oct-11	2:40	62.0	65.0	59.1
8-Oct-11	2:45	63.1	66.3	59.1
8-Oct-11	2:50	63.0	66.1	59.2
8-Oct-11	2:55	63.2	65.8	59.4
8-Oct-11	3:00	62.1	64.6	59.0
8-Oct-11	3:05	63.2	66.4	59.0
8-Oct-11	3:10	61.3	64.9	58.5
8-Oct-11	3:15	63.5	66.2	59.9
8-Oct-11	3:20	61.3	63.9	58.0
8-Oct-11	3:25	62.9	66.4	58.2
8-Oct-11	3:30	61.8	64.7	58.1
8-Oct-11	3:35	62.2	65.0	58.3
8-Oct-11	3:40	62.1	65.3	58.2
8-Oct-11	3:45	61.3	64.5	57.7
8-Oct-11	3:50	61.2	64.1	58.0
8-Oct-11	3:55	62.6	66.4	58.2
8-Oct-11	4:00	61.2	64.5	57.6
8-Oct-11	4:05	62.3	65.2	58.6
8-Oct-11	4:10	62.2	65.6	57.9

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
8-Oct-11	4:15	63.8	67.3	59.0
8-Oct-11	4:20	61.9	64.8	58.1
8-Oct-11	4:25	62.0	65.5	57.5
8-Oct-11	4:30	61.6	65.1	57.0
8-Oct-11	4:35	62.1	65.3	57.7
8-Oct-11	4:40	61.8	65.5	58.0
8-Oct-11	4:45	61.8	65.1	58.7
8-Oct-11	4:50	62.4	65.8	58.3
8-Oct-11	4:55	61.1	64.4	58.0
8-Oct-11	5:00	63.1	66.0	58.2
8-Oct-11	5:05	63.9	67.3	58.3
8-Oct-11	5:10	63.0	66.3	58.2
8-Oct-11	5:15	61.7	64.9	58.0
8-Oct-11	5:20	62.6	64.9	58.7
8-Oct-11	5:25	63.7	67.1	59.2
8-Oct-11	5:30	63.9	66.5	59.6
8-Oct-11	5:35	63.3	66.3	58.9
8-Oct-11	5:40	63.2	66.1	59.3
8-Oct-11	5:45	63.9	66.6	59.6
8-Oct-11	5:50	64.3	67.7	58.8
8-Oct-11	5:55	63.6	66.5	59.6
8-Oct-11	6:00	64.8	68.0	59.2
8-Oct-11	6:05	64.8	67.2	59.5
8-Oct-11	6:10	64.2	66.8	59.6
8-Oct-11	6:15	64.5	68.1	58.6
8-Oct-11	6:20	62.9	66.1	59.1
8-Oct-11	6:25	63.9	67.5	59.2
8-Oct-11	6:30	65.0	68.9	59.3
8-Oct-11	6:35	64.9	68.0	60.5
8-Oct-11	6:40	64.7	67.8	60.3
8-Oct-11	6:45	63.6	66.6	59.5
8-Oct-11	6:50	61.6	63.8	58.5
8-Oct-11	6:55	63.9	67.2	59.7
8-Oct-11	23:00	61.6	64.1	58.3
8-Oct-11	23:05	61.8	64.3	58.9
8-Oct-11	23:10	60.9	63.4	58.3
8-Oct-11	23:15	60.2	62.1	58.4
8-Oct-11	23:20	61.7	64.3	59.0
8-Oct-11	23:25	62.1	65.4	58.9
8-Oct-11	23:30	61.6	64.4	58.3
8-Oct-11	23:35	62.3	64.8	59.1
8-Oct-11	23:40	61.3	63.3	59.1
8-Oct-11	23:45	62.0	65.0	58.8
8-Oct-11	23:50	61.4	64.1	58.8
8-Oct-11	23:55	61.5	65.4	58.3
	Mean	62.5	65.3	58.6
	Maximum	65.0	68.9	60.5
	Minimum	59.0	60.2	57.0

## Appendix C3

### Night Time Noise Level at Open Area near Naval Base Barrack\_NM7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
9-Oct-11	0:00	58.7	61.2	55.9
9-Oct-11	0:05	58.1	60.0	55.3
9-Oct-11	0:10	58.2	59.7	54.7
9-Oct-11	0:15	58.3	61.0	54.5
9-Oct-11	0:20	56.7	58.8	54.3
9-Oct-11	0:25	59.4	60.9	55.3
9-Oct-11	0:30	60.0	63.9	55.2
9-Oct-11	0:35	57.0	58.7	55.0
9-Oct-11	0:40	56.9	58.4	55.2
9-Oct-11	0:45	58.4	60.9	55.3
9-Oct-11	0:50	59.0	61.5	55.6
9-Oct-11	0:55	56.3	58.1	54.0
9-Oct-11	1:00	59.3	61.9	55.1
9-Oct-11	1:05	57.2	59.1	55.3
9-Oct-11	1:10	57.3	59.0	55.0
9-Oct-11	1:15	59.0	59.4	55.6
9-Oct-11	1:20	56.7	58.2	54.7
9-Oct-11	1:25	57.8	59.2	55.5
9-Oct-11	1:30	57.3	58.5	55.5
9-Oct-11	1:35	57.4	59.1	55.3
9-Oct-11	1:40	58.4	59.8	55.5
9-Oct-11	1:45	58.4	60.1	55.9
9-Oct-11	1:50	56.8	58.1	55.0
9-Oct-11	1:55	59.0	61.5	55.5
9-Oct-11	2:00	58.4	60.1	55.6
9-Oct-11	2:05	58.2	59.9	55.9
9-Oct-11	2:10	57.2	58.7	55.4
9-Oct-11	2:15	56.6	57.9	54.9
9-Oct-11	2:20	58.4	60.6	55.6
9-Oct-11	2:25	60.9	63.1	57.1
9-Oct-11	2:30	58.5	60.1	56.1
9-Oct-11	2:35	59.1	61.1	56.4
9-Oct-11	2:40	59.6	61.8	56.7
9-Oct-11	2:45	59.2	61.4	56.6
9-Oct-11	2:50	58.8	61.4	56.4
9-Oct-11	2:55	57.4	58.4	56.3
9-Oct-11	3:00	58.0	59.6	56.4
9-Oct-11	3:05	60.2	62.9	56.7
9-Oct-11	3:10	59.8	61.5	57.5
9-Oct-11	3:15	59.6	61.8	56.8
9-Oct-11	3:20	59.1	60.7	57.3
9-Oct-11	3:25	58.5	60.1	56.5
9-Oct-11	3:30	58.2	60.1	56.2
9-Oct-11	3:35	58.6	60.4	56.2
9-Oct-11	3:40	58.0	59.7	55.8
9-Oct-11	3:45	57.6	58.7	55.2
9-Oct-11	3:50	58.8	61.5	55.6
9-Oct-11	3:55	56.3	57.1	55.3
9-Oct-11	4:00	58.5	60.1	55.5
9-Oct-11	4:05	58.1	60.9	54.8
9-Oct-11	4:10	60.8	63.5	56.4

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
9-Oct-11	4:15	58.4	60.4	55.5
9-Oct-11	4:20	60.3	63.0	56.4
9-Oct-11	4:25	58.7	61.2	55.4
9-Oct-11	4:30	56.7	58.8	54.6
9-Oct-11	4:35	57.4	60.2	54.9
9-Oct-11	4:40	57.1	57.8	54.4
9-Oct-11	4:45	58.5	61.8	54.9
9-Oct-11	4:50	60.3	63.7	54.9
9-Oct-11	4:55	57.9	60.2	54.1
9-Oct-11	5:00	56.8	59.3	54.3
9-Oct-11	5:05	58.1	59.6	53.9
9-Oct-11	5:10	56.4	58.7	53.1
9-Oct-11	5:15	57.2	59.3	54.0
9-Oct-11	5:20	56.4	58.3	53.6
9-Oct-11	5:25	57.0	59.2	53.7
9-Oct-11	5:30	58.4	61.9	53.9
9-Oct-11	5:35	56.7	59.6	53.6
9-Oct-11	5:40	56.5	58.8	53.8
9-Oct-11	5:45	56.6	59.3	53.4
9-Oct-11	5:50	58.0	60.7	54.4
9-Oct-11	5:55	58.3	61.7	54.4
9-Oct-11	6:00	60.2	63.2	55.3
9-Oct-11	6:05	61.8	64.8	55.8
9-Oct-11	6:10	62.4	66.2	54.7
9-Oct-11	6:15	60.3	63.9	55.7
9-Oct-11	6:20	60.1	63.5	55.9
9-Oct-11	6:25	60.2	63.6	54.9
9-Oct-11	6:30	59.8	63.2	54.9
9-Oct-11	6:35	59.5	62.0	56.2
9-Oct-11	6:40	62.6	66.4	56.9
9-Oct-11	6:45	61.2	63.7	57.3
9-Oct-11	6:50	61.2	64.8	55.7
9-Oct-11	6:55	61.5	64.0	58.3
9-Oct-11	23:00	59.9	63.0	55.6
9-Oct-11	23:05	59.9	62.8	55.6
9-Oct-11	23:10	61.0	63.9	56.7
9-Oct-11	23:15	59.9	62.7	56.7
9-Oct-11	23:20	62.3	62.9	56.8
9-Oct-11	23:25	59.4	62.0	56.2
9-Oct-11	23:30	59.5	60.8	56.1
9-Oct-11	23:35	59.3	61.2	56.4
9-Oct-11	23:40	58.5	60.4	56.2
9-Oct-11	23:45	60.1	62.6	56.1
9-Oct-11	23:50	60.6	63.1	56.8
9-Oct-11	23:55	58.7	61.2	57.0
	Mean	59.0	60.9	55.5
	Maximum	62.6	66.4	58.3
	Minimum	56.3	57.1	53.1

## Appendix C3

### Night Time Noise Level at Open Area near Naval Base Barrack\_NM7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
10-Oct-11	0:00	59.3	61.8	56.5
10-Oct-11	0:05	58.7	60.6	55.9
10-Oct-11	0:10	58.8	60.3	55.3
10-Oct-11	0:15	58.9	61.6	55.1
10-Oct-11	0:20	57.3	59.4	54.9
10-Oct-11	0:25	60.0	61.5	55.9
10-Oct-11	0:30	60.6	64.5	55.8
10-Oct-11	0:35	57.6	59.3	55.6
10-Oct-11	0:40	57.5	59.0	55.8
10-Oct-11	0:45	59.0	61.5	55.9
10-Oct-11	0:50	59.6	62.1	56.2
10-Oct-11	0:55	56.9	58.7	54.6
10-Oct-11	1:00	59.9	62.5	55.7
10-Oct-11	1:05	57.8	59.7	55.9
10-Oct-11	1:10	57.9	59.6	55.6
10-Oct-11	1:15	59.6	60.0	56.2
10-Oct-11	1:20	57.3	58.8	55.3
10-Oct-11	1:25	58.4	59.8	56.1
10-Oct-11	1:30	57.9	59.1	56.1
10-Oct-11	1:35	58.0	59.7	55.9
10-Oct-11	1:40	59.0	60.4	56.1
10-Oct-11	1:45	59.0	60.7	56.5
10-Oct-11	1:50	57.4	58.7	55.6
10-Oct-11	1:55	59.6	62.1	56.1
10-Oct-11	2:00	59.0	60.7	56.2
10-Oct-11	2:05	58.8	60.5	56.5
10-Oct-11	2:10	57.8	59.3	56.0
10-Oct-11	2:15	57.2	58.5	55.5
10-Oct-11	2:20	59.0	61.2	56.2
10-Oct-11	2:25	61.5	63.7	57.7
10-Oct-11	2:30	59.1	60.7	56.7
10-Oct-11	2:35	59.7	61.7	57.0
10-Oct-11	2:40	60.2	62.4	57.3
10-Oct-11	2:45	59.8	62.0	57.2
10-Oct-11	2:50	59.4	62.0	57.0
10-Oct-11	2:55	58.0	59.0	56.9
10-Oct-11	3:00	58.6	60.2	57.0
10-Oct-11	3:05	60.8	63.5	57.3
10-Oct-11	3:10	60.4	62.1	58.1
10-Oct-11	3:15	60.2	62.4	57.4
10-Oct-11	3:20	59.7	61.3	57.9
10-Oct-11	3:25	59.1	60.7	57.1
10-Oct-11	3:30	58.8	60.7	56.8
10-Oct-11	3:35	59.2	61.0	56.8
10-Oct-11	3:40	58.6	60.3	56.4
10-Oct-11	3:45	58.2	59.3	55.8
10-Oct-11	3:50	59.4	62.1	56.2
10-Oct-11	3:55	56.9	57.7	55.9
10-Oct-11	4:00	59.1	60.7	56.1
10-Oct-11	4:05	58.7	61.5	55.4
10-Oct-11	4:10	61.4	64.1	57.0

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
10-Oct-11	4:15	59.0	61.0	56.1
10-Oct-11	4:20	60.9	63.6	57.0
10-Oct-11	4:25	59.3	61.8	56.0
10-Oct-11	4:30	57.3	59.4	55.2
10-Oct-11	4:35	58.0	60.8	55.5
10-Oct-11	4:40	57.7	58.4	55.0
10-Oct-11	4:45	59.1	62.4	55.5
10-Oct-11	4:50	60.9	64.3	55.5
10-Oct-11	4:55	58.5	60.8	54.7
10-Oct-11	5:00	57.4	59.9	54.9
10-Oct-11	5:05	58.7	60.2	54.5
10-Oct-11	5:10	57.0	59.3	53.7
10-Oct-11	5:15	57.8	59.9	54.6
10-Oct-11	5:20	57.0	58.9	54.2
10-Oct-11	5:25	57.6	59.8	54.3
10-Oct-11	5:30	59.0	62.5	54.5
10-Oct-11	5:35	57.3	60.2	54.2
10-Oct-11	5:40	57.1	59.4	54.4
10-Oct-11	5:45	57.2	59.9	54.0
10-Oct-11	5:50	58.6	61.3	55.0
10-Oct-11	5:55	58.9	62.3	55.0
10-Oct-11	6:00	60.8	63.8	55.9
10-Oct-11	6:05	62.4	65.4	56.4
10-Oct-11	6:10	63.0	66.8	55.3
10-Oct-11	6:15	60.9	64.5	56.3
10-Oct-11	6:20	60.7	64.1	56.5
10-Oct-11	6:25	60.8	64.2	55.5
10-Oct-11	6:30	60.4	63.8	55.5
10-Oct-11	6:35	60.1	62.6	56.8
10-Oct-11	6:40	63.2	67.0	57.5
10-Oct-11	6:45	61.8	64.3	57.9
10-Oct-11	6:50	61.8	65.4	56.3
10-Oct-11	6:55	62.1	64.6	58.9
10-Oct-11	23:00	60.5	63.6	56.2
10-Oct-11	23:05	60.5	63.4	56.2
10-Oct-11	23:10	61.6	64.5	57.3
10-Oct-11	23:15	60.5	63.3	57.3
10-Oct-11	23:20	62.9	63.5	57.4
10-Oct-11	23:25	60.0	62.6	56.8
10-Oct-11	23:30	60.1	61.4	56.7
10-Oct-11	23:35	59.9	61.8	57.0
10-Oct-11	23:40	59.1	61.0	56.8
10-Oct-11	23:45	60.7	63.2	56.7
10-Oct-11	23:50	61.2	63.7	57.4
10-Oct-11	23:55	59.3	61.8	57.6
	Mean	59.6	61.5	56.1
	Maximum	63.2	67.0	58.9
	Minimum	56.9	57.7	53.7

## Appendix C3

### Night Time Noise Level at Open Area near Naval Base Barrack\_NM7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
11-Oct-11	0:00	59.6	60.8	57.1
11-Oct-11	0:05	58.4	59.7	56.9
11-Oct-11	0:10	60.3	62.7	58.1
11-Oct-11	0:15	60.4	62.5	58.1
11-Oct-11	0:20	58.9	59.9	57.7
11-Oct-11	0:25	59.9	61.9	57.5
11-Oct-11	0:30	59.4	61.4	57.2
11-Oct-11	0:35	59.8	61.8	57.9
11-Oct-11	0:40	59.0	60.0	56.9
11-Oct-11	0:45	59.1	60.6	57.0
11-Oct-11	0:50	60.2	62.5	57.5
11-Oct-11	0:55	61.4	64.4	58.0
11-Oct-11	1:00	59.3	61.6	57.0
11-Oct-11	1:05	58.0	59.2	56.9
11-Oct-11	1:10	58.6	60.4	56.9
11-Oct-11	1:15	61.5	65.3	57.2
11-Oct-11	1:20	60.5	62.7	57.9
11-Oct-11	1:25	61.4	63.3	59.0
11-Oct-11	1:30	61.8	64.1	58.9
11-Oct-11	1:35	59.3	61.4	57.0
11-Oct-11	1:40	58.4	60.2	56.4
11-Oct-11	1:45	59.5	61.3	56.3
11-Oct-11	1:50	58.9	60.9	56.4
11-Oct-11	1:55	60.3	62.6	57.5
11-Oct-11	2:00	58.6	60.2	57.0
11-Oct-11	2:05	59.4	61.4	57.2
11-Oct-11	2:10	60.0	63.0	56.8
11-Oct-11	2:15	57.7	59.1	56.1
11-Oct-11	2:20	58.1	59.7	56.1
11-Oct-11	2:25	57.6	59.3	56.1
11-Oct-11	2:30	59.1	61.4	56.1
11-Oct-11	2:35	59.4	62.2	56.8
11-Oct-11	2:40	58.0	60.5	55.9
11-Oct-11	2:45	58.6	61.4	56.0
11-Oct-11	2:50	58.5	60.3	56.3
11-Oct-11	2:55	60.0	62.5	56.6
11-Oct-11	3:00	58.4	60.4	56.2
11-Oct-11	3:05	57.7	58.8	56.4
11-Oct-11	3:10	58.0	60.3	56.1
11-Oct-11	3:15	57.4	58.8	56.0
11-Oct-11	3:20	57.4	58.4	56.3
11-Oct-11	3:25	60.1	62.9	57.1
11-Oct-11	3:30	58.5	59.9	56.9
11-Oct-11	3:35	58.2	60.1	56.4
11-Oct-11	3:40	57.9	59.0	56.4
11-Oct-11	3:45	60.1	62.1	57.5
11-Oct-11	3:50	59.1	61.5	56.2
11-Oct-11	3:55	58.6	60.5	56.5
11-Oct-11	4:00	58.6	60.5	56.9
11-Oct-11	4:05	58.9	60.6	57.1
11-Oct-11	4:10	57.8	59.8	56.0

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
11-Oct-11	4:15	59.8	62.4	57.1
11-Oct-11	4:20	59.4	62.5	57.0
11-Oct-11	4:25	58.9	60.9	56.8
11-Oct-11	4:30	59.0	61.2	56.1
11-Oct-11	4:35	58.5	60.6	56.2
11-Oct-11	4:40	57.9	59.2	56.5
11-Oct-11	4:45	59.0	60.2	57.1
11-Oct-11	4:50	59.6	61.8	57.1
11-Oct-11	4:55	59.4	60.5	57.3
11-Oct-11	5:00	58.8	60.5	57.0
11-Oct-11	5:05	59.3	61.5	57.1
11-Oct-11	5:10	58.5	59.9	57.0
11-Oct-11	5:15	59.4	61.3	57.4
11-Oct-11	5:20	60.5	63.2	57.1
11-Oct-11	5:25	59.3	61.0	56.3
11-Oct-11	5:30	59.6	62.3	56.1
11-Oct-11	5:35	58.3	60.4	56.1
11-Oct-11	5:40	58.8	61.2	56.4
11-Oct-11	5:45	58.8	61.2	56.3
11-Oct-11	5:50	58.4	60.9	56.1
11-Oct-11	5:55	60.8	63.6	56.3
11-Oct-11	6:00	61.9	65.3	56.6
11-Oct-11	6:05	59.4	62.1	56.4
11-Oct-11	6:10	60.8	63.3	56.5
11-Oct-11	6:15	61.3	63.8	57.3
11-Oct-11	6:20	61.5	64.1	57.3
11-Oct-11	6:25	60.7	63.9	56.4
11-Oct-11	6:30	63.5	66.1	58.0
11-Oct-11	6:35	61.2	64.3	57.4
11-Oct-11	6:40	63.1	66.4	58.0
11-Oct-11	6:45	60.0	62.6	57.0
11-Oct-11	6:50	62.6	65.9	57.7
11-Oct-11	6:55	64.6	68.0	58.7
11-Oct-11	23:00	59.2	61.0	56.4
11-Oct-11	23:05	60.4	63.0	57.0
11-Oct-11	23:10	61.6	64.9	57.0
11-Oct-11	23:15	61.4	63.9	58.2
11-Oct-11	23:20	60.1	62.2	57.3
11-Oct-11	23:25	61.7	63.5	57.4
11-Oct-11	23:30	59.1	60.4	57.3
11-Oct-11	23:35	58.2	59.2	57.0
11-Oct-11	23:40	61.6	64.5	58.1
11-Oct-11	23:45	60.9	62.9	58.2
11-Oct-11	23:50	59.1	60.3	57.2
11-Oct-11	23:55	60.3	63.1	57.0
	Mean	59.9	61.7	57.0
	Maximum	64.6	68.0	59.0
	Minimum	57.4	58.4	55.9

## Appendix C3

### Night Time Noise Level at Open Area near Naval Base Barrack\_NM7

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
12-Oct-11	0:00	60.0	62.5	57.1
12-Oct-11	0:05	59.9	62.1	57.0
12-Oct-11	0:10	57.7	59.2	55.3
12-Oct-11	0:15	59.5	61.5	56.4
12-Oct-11	0:20	59.3	61.9	56.1
12-Oct-11	0:25	59.3	62.2	55.8
12-Oct-11	0:30	59.7	61.9	56.5
12-Oct-11	0:35	59.2	61.6	56.1
12-Oct-11	0:40	58.5	61.1	55.4
12-Oct-11	0:45	59.3	62.3	55.9
12-Oct-11	0:50	58.8	59.6	56.0
12-Oct-11	0:55	57.3	57.9	55.3
12-Oct-11	1:00	56.4	57.5	55.1
12-Oct-11	1:05	60.5	64.1	56.4
12-Oct-11	1:10	58.0	59.3	55.8
12-Oct-11	1:15	58.7	60.7	55.1
12-Oct-11	1:20	56.4	57.6	54.9
12-Oct-11	1:25	56.5	57.7	55.0
12-Oct-11	1:30	61.8	66.1	55.1
12-Oct-11	1:35	57.4	59.9	54.1
12-Oct-11	1:40	56.9	59.4	54.5
12-Oct-11	1:45	56.9	59.3	54.2
12-Oct-11	1:50	57.2	59.8	53.9
12-Oct-11	1:55	56.7	58.4	54.0
12-Oct-11	2:00	55.1	56.3	53.5
12-Oct-11	2:05	56.7	58.2	54.3
12-Oct-11	2:10	57.5	59.9	53.7
12-Oct-11	2:15	55.4	56.8	53.9
12-Oct-11	2:20	58.1	60.9	54.1
12-Oct-11	2:25	55.9	58.4	53.6
12-Oct-11	2:30	57.4	59.6	54.2
12-Oct-11	2:35	55.0	56.3	53.4
12-Oct-11	2:40	58.1	60.3	54.3
12-Oct-11	2:45	57.6	59.5	55.1
12-Oct-11	2:50	57.5	58.7	56.0
12-Oct-11	2:55	58.7	60.6	56.0
12-Oct-11	3:00	57.4	59.5	54.5
12-Oct-11	3:05	57.3	59.7	54.5
12-Oct-11	3:10	58.2	60.4	54.9
12-Oct-11	3:15	57.1	59.3	54.8
12-Oct-11	3:20	58.6	61.4	55.6
12-Oct-11	3:25	58.4	60.2	56.2
12-Oct-11	3:30	58.9	61.3	55.9
12-Oct-11	3:35	58.1	59.8	55.5
12-Oct-11	3:40	59.4	61.6	56.2
12-Oct-11	3:45	57.5	59.5	55.3
12-Oct-11	3:50	56.5	58.5	54.6
12-Oct-11	3:55	57.0	58.6	54.4
12-Oct-11	4:00	58.0	60.3	55.3
12-Oct-11	4:05	58.5	60.1	55.1
12-Oct-11	4:10	57.5	59.3	55.4

Date	dB(A)			
	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
12-Oct-11	4:15	58.1	59.9	55.3
12-Oct-11	4:20	60.4	63.2	57.0
12-Oct-11	4:25	58.1	59.8	56.0
12-Oct-11	4:30	60.3	62.6	57.9
12-Oct-11	4:35	61.3	64.4	56.8
12-Oct-11	4:40	59.9	62.3	56.9
12-Oct-11	4:45	59.3	61.2	56.5
12-Oct-11	4:50	59.0	60.3	56.5
12-Oct-11	4:55	59.2	61.8	56.2
12-Oct-11	5:00	59.1	61.5	56.2
12-Oct-11	5:05	58.3	59.8	55.2
12-Oct-11	5:10	58.5	60.6	55.6
12-Oct-11	5:15	58.3	59.9	56.1
12-Oct-11	5:20	59.1	60.6	57.1
12-Oct-11	5:25	59.7	61.2	57.9
12-Oct-11	5:30	59.2	60.6	57.5
12-Oct-11	5:35	58.0	58.8	57.0
12-Oct-11	5:40	58.5	59.7	57.1
12-Oct-11	5:45	58.3	59.3	57.0
12-Oct-11	5:50	59.2	60.8	57.3
12-Oct-11	5:55	59.9	61.7	58.0
12-Oct-11	6:00	59.5	61.4	57.4
12-Oct-11	6:05	59.5	61.1	57.5
12-Oct-11	6:10	59.2	60.4	57.9
12-Oct-11	6:15	60.3	62.2	58.4
12-Oct-11	6:20	61.1	63.1	58.9
12-Oct-11	6:25	62.5	64.5	59.8
12-Oct-11	6:30	62.8	65.4	59.4
12-Oct-11	6:35	62.0	64.2	59.1
12-Oct-11	6:40	61.0	62.6	59.3
12-Oct-11	6:45	62.3	64.0	60.2
12-Oct-11	6:50	62.3	64.4	60.1
12-Oct-11	6:55	62.7	64.5	60.9
12-Oct-11	23:00	58.8	59.7	55.6
12-Oct-11	23:05	61.7	65.5	56.2
12-Oct-11	23:10	63.3	67.1	57.0
12-Oct-11	23:15	64.3	67.2	59.4
12-Oct-11	23:20	61.5	64.0	58.5
12-Oct-11	23:25	63.6	65.3	59.1
12-Oct-11	23:30	59.9	61.7	57.5
12-Oct-11	23:35	61.0	61.3	57.2
12-Oct-11	23:40	60.9	61.8	57.9
12-Oct-11	23:45	59.7	61.7	57.3
12-Oct-11	23:50	60.7	62.6	57.1
12-Oct-11	23:55	60.1	62.7	56.9
	Mean	59.5	61.0	56.3
	Maximum	64.3	67.2	60.9
	Minimum	55.0	56.3	53.4

	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
Mean	59.7	61.8	56.4
Maximum	65.8	68.9	60.9
Minimum	52.1	53.0	47.0

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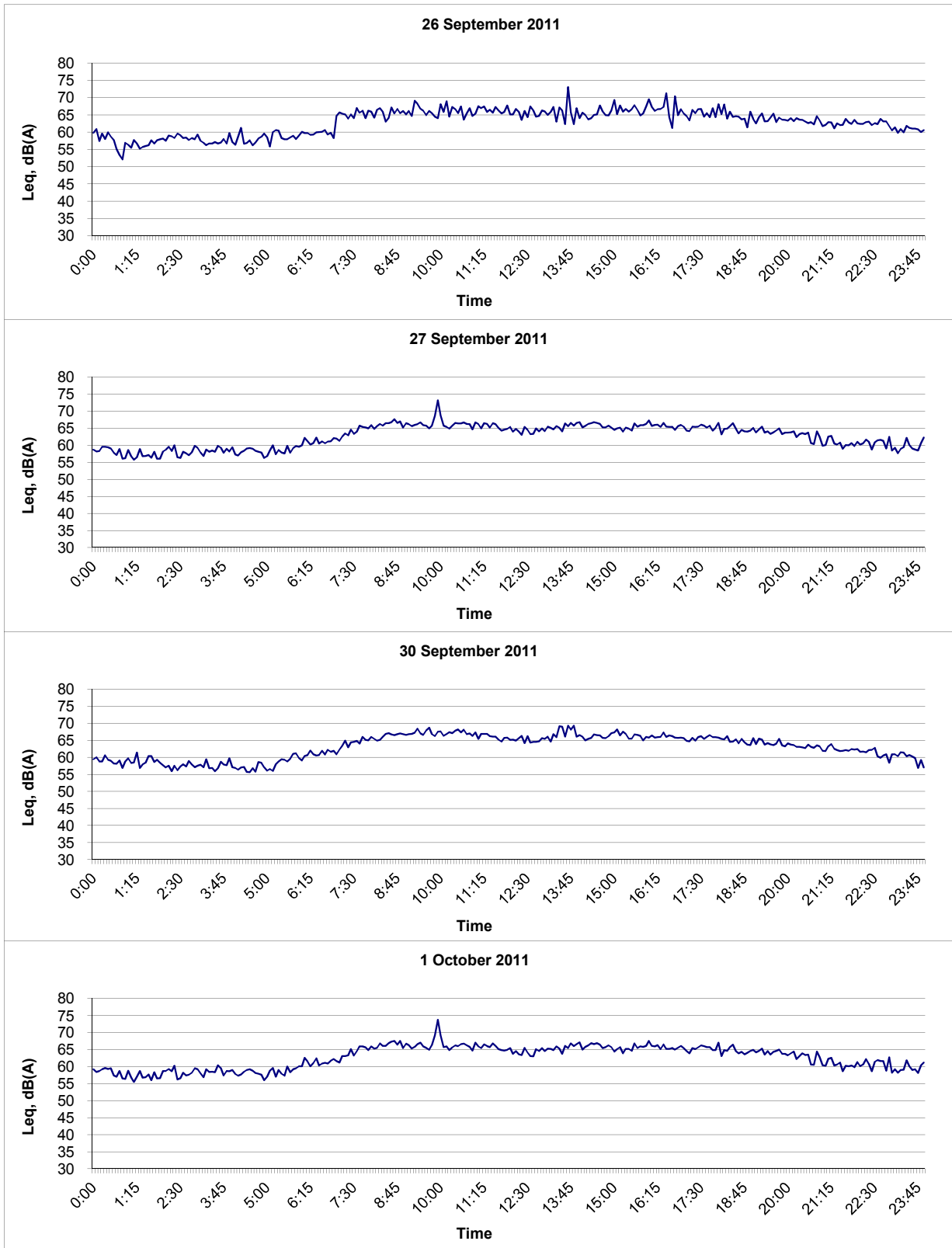
**APPENDIX C4**  
**Graphical Presentation of Baseline Noise**  
**Levels**

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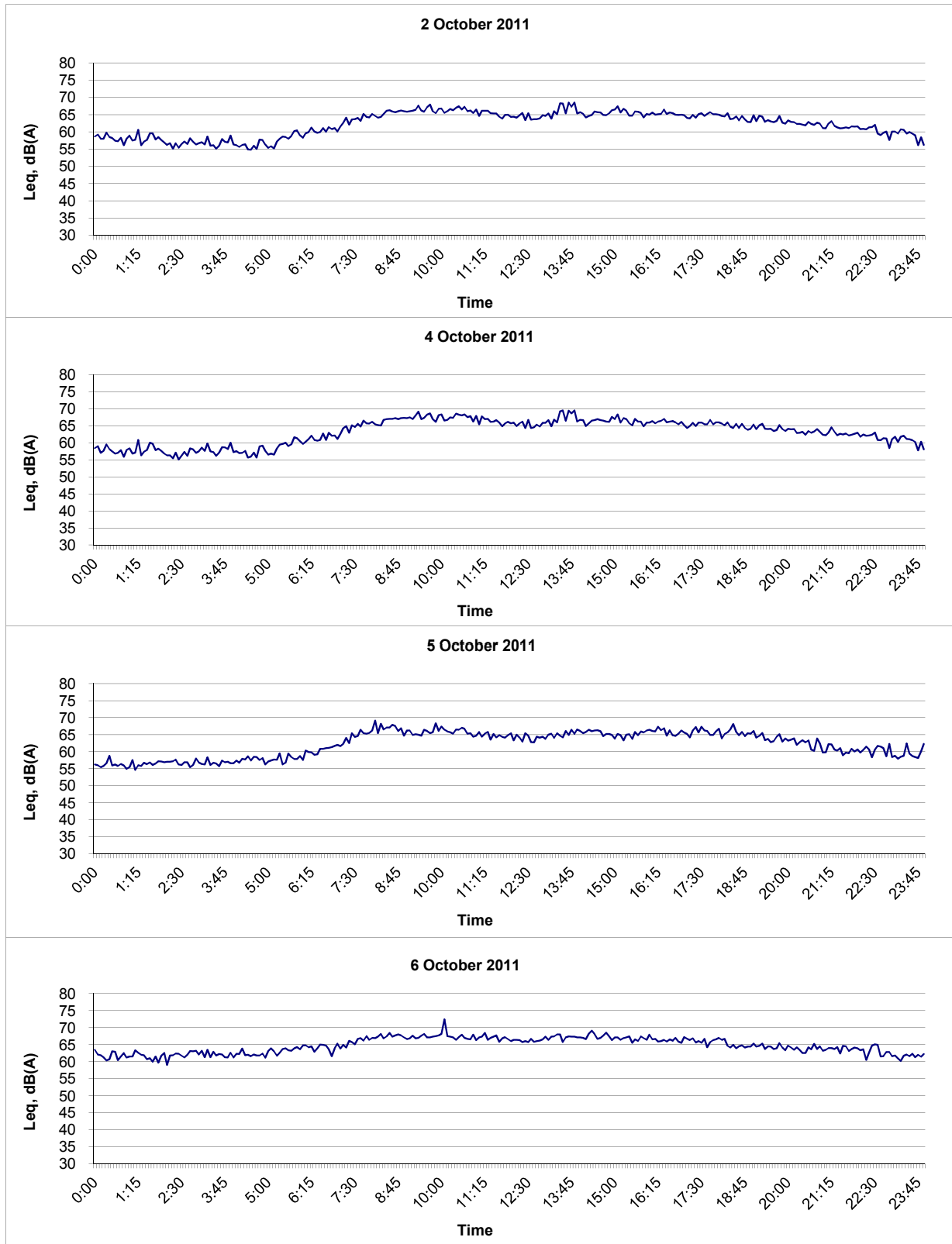


### Noise Level at Open Area near Naval Base Barrack\_NM7



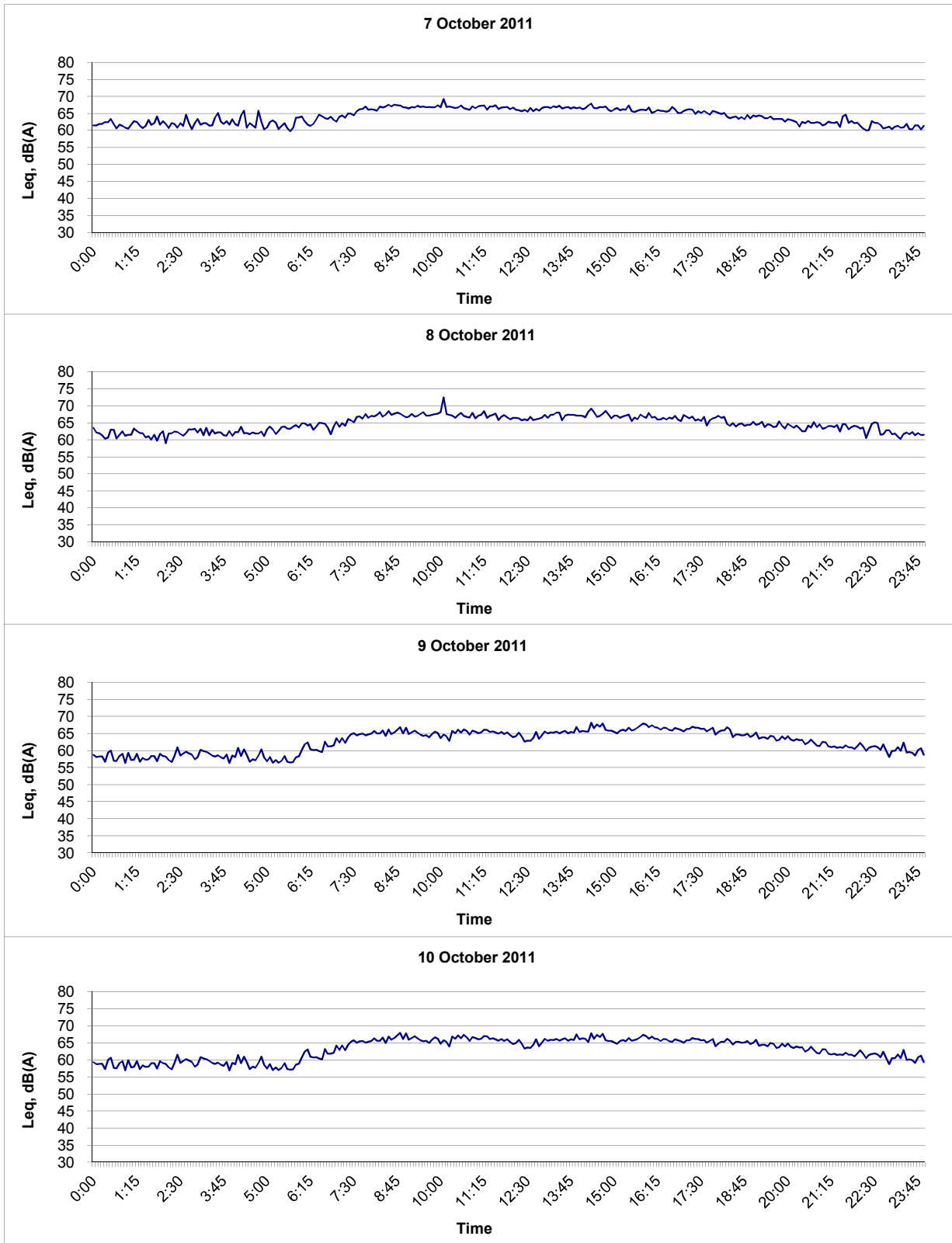
Title	Contract No. DC/2009/18	Scale	Project	CINOTECH
	HATS 2A – Upgrading Works at SCISTW–Effluent Tunnel and Disinfection Facilities	N.T.S	No. MA11043	
Graphical Presentation of Baseline Noise Levels at Open Area near Naval Base Barrack_NM7		Date	Appendix	
		Oct 11	C4	

### Noise Level at Open Area near Naval Base Barrack\_NM7



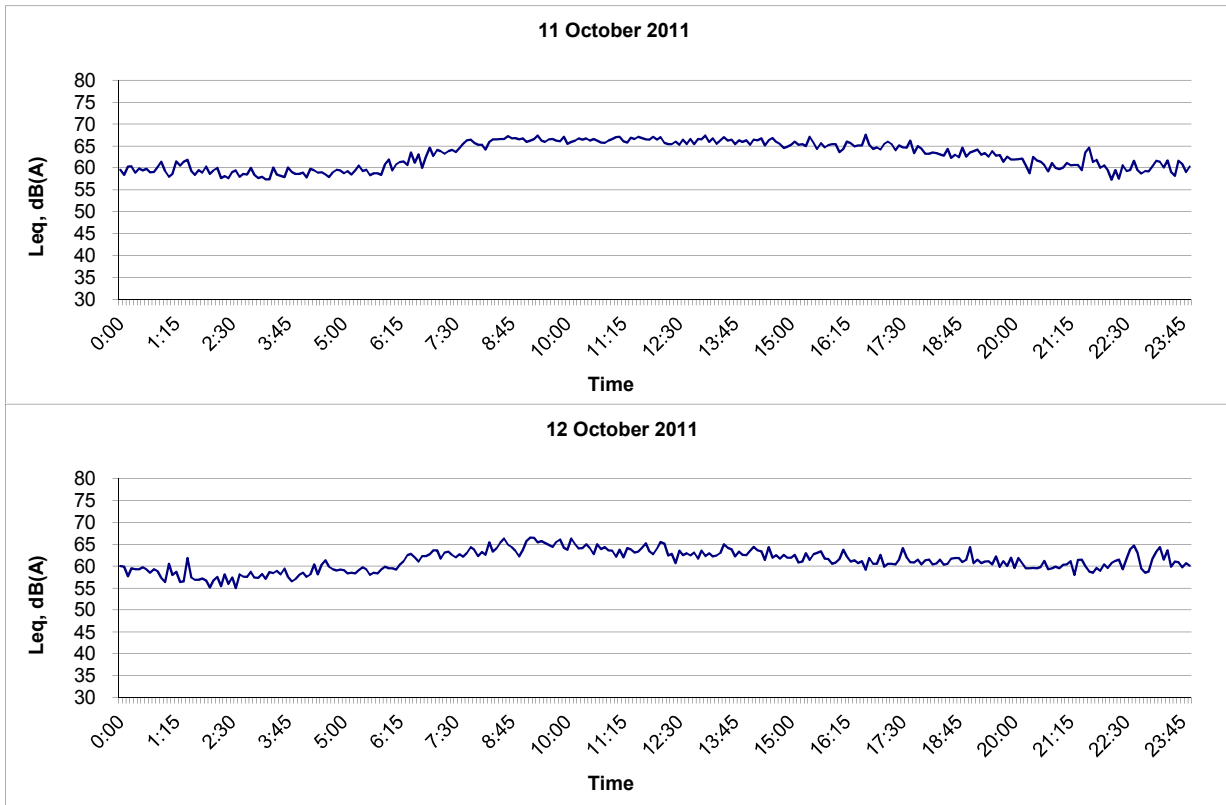
Title Contract No. DC/2009/18 HATS 2A – Upgrading Works at SCISTW–Effluent Tunnel and Disinfection Facilities Graphical Presentation of Baseline Noise Levels at Open Area near Naval Base Barrack_NM7	Scale N.T.S	Project No. MA11043	<b>CINOTECH</b>
	Date Oct 11	Appendix C4	

### Noise Level at Open Area near Naval Base Barrack\_NM7



Title Contract No. DC/2009/18 HATS 2A – Upgrading Works at SCISTW–Effluent Tunnel and Disinfection Facilities Graphical Presentation of Baseline Noise Levels at Open Area near Naval Base Barrack_NM7	Scale N.T.S	Project No. MA11043	
	Date Oct 11	Appendix C4	

**Noise Level at Open Area near Naval Base Barrack\_NM7**



Title Contract No. DC/2009/18 HATS 2A – Upgrading Works at SCISTW–Effluent Tunnel and Disinfection Facilities Graphical Presentation of Baseline Noise Levels at Open Area near Naval Base Barrack_NM7	Scale N.T.S	Project No. MA11043	<b>CINOTECH</b>
	Date Oct 11	Appendix C4	

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**APPENDIX D**  
**Weather Conditions during the Monitoring**  
**Period**

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## Appendix D – Weather Conditions During Baseline Monitoring Period

### I. General Information

From 26<sup>th</sup> September to 14<sup>th</sup> October 2010, and those for 28<sup>th</sup>, 29<sup>th</sup> September 2011 and 3<sup>rd</sup> October 2011 was excluded due to no baseline monitoring on this date.)

Date	General Weather Conditions	Air Temperature (°C)	Precipitation (mm)	Relative Humidity (%)
2011/9/26	Sunny	24.9-31.5	0	67-86
2011/9/27	Sunny	26.1-30.9	0	67-89
2011/9/30	Sunny	26.8-30.3	2-5	83-94
2011/10/1	Cloudy	25.8-28.2	2-5	78-97
2011/10/2	Cloudy	24.2-28.0	2-5	73-94
2011/10/4	Sunny	21.5-25.6	0-0.5	72-83
2011/10/5	Sunny	23.0-26.6	0-0.5	74-84
2011/10/6	Sunny	23.1-28.2	0-0.5	70-85
2011/10/7	Sunny	24.9-28.1	0-0.5	72-85
2011/10/8	Sunny	24.4-28.6	0-0.5	65-83
2011/10/9	Sunny	23.9-31.2	0-0.5	64-83
2011/10/10	Cloudy	24.5-29.7	2-5	68-96

## Appendix D – Weather Conditions During Baseline Monitoring Period

### I. General Information

From 26<sup>th</sup> September to 14<sup>th</sup> October 2010, and those for 28<sup>th</sup>, 29<sup>th</sup> September 2011 and 3<sup>rd</sup> October 2011 was excluded due to no baseline monitoring on this date.)

Date	General Weather Conditions	Air Temperature (°C)	Precipitation (mm)	Relative Humidity (%)
2011/10/11	Cloudy	24.2-26.7	2-5	87-97
2011/10/12	Rainy	23.9-26.1	40-50	91-99
2011/10/13	Cloudy	24.4-28.4	0.5-2	91-99
2011/10/14	Cloudy	24.6-28.6	0.5-2	78-98

\* Mean Relative Humidity and Mean Temperature were extracted from the daily weather summary by Hong Kong Observatory at Tsing Yi. Weather conditions were recorded by field staff

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**APPENDIX E**  
**Baseline Monitoring Schedule**

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**Contract No. DC/2009/18**

**HATS 2A -Upgrading Works at Stonecutters Island Sewage Treatment Works - Effluent Tunnel and Disinfection Facilities  
Baseline Air Quality and Noise Monitoring Schedule**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Sep	2-Sep	3-Sep
4-Sep	5-Sep	6-Sep	7-Sep	8-Sep	9-Sep	10-Sep
11-Sep	12-Sep	13-Sep	14-Sep	15-Sep	16-Sep	17-Sep
18-Sep	19-Sep	20-Sep	21-Sep	22-Sep	23-Sep	24-Sep
25-Sep	26-Sep	27-Sep	28-Sep	29-Sep	30-Sep	
	Noise	Noise	(No monitoring was carried out due to adverse weather)	(No monitoring was carried out due to adverse weather)	1-hr TSP x 3 24-hr TSP Noise	

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

**Air Quality Monitoring Location:**

**AM9 : Work Site Boundary (Near Ngong Shuen Chau Barracks Group 2)**

**Noise Monitoring Location:**

**NM7 - Open Area near Naval Base Barrack**

**Contract No. DC/2009/18**  
**HATS 2A -Upgrading Works at Stonecutters Island Sewage Treatment Works - Effluent Tunnel and Disinfection Facilities**  
**Baseline Air Quality and Noise Monitoring Schedule**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						<b>1-Oct</b>
						1-hr TSP x 3 24-hr TSP Noise
<b>2-Oct</b>	3-Oct	4-Oct	<b>5-Oct</b>	6-Oct	7-Oct	8-Oct
1-hr TSP x 3 24-hr TSP Noise	(No monitoring was carried out due to adverse weather)	1-hr TSP x 3 24-hr TSP Noise	1-hr TSP x 3 24-hr TSP Noise	1-hr TSP x 3 24-hr TSP Noise	1-hr TSP x 3 24-hr TSP Noise	1-hr TSP x 3 24-hr TSP Noise
<b>9-Oct</b>	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	15-Oct
1-hr TSP x 3 24-hr TSP Noise	1-hr TSP x 3 24-hr TSP Noise	1-hr TSP x 3 24-hr TSP Noise	1-hr TSP x 3 24-hr TSP Noise	1-hr TSP x 3 24-hr TSP	1-hr TSP x 3 24-hr TSP	
<b>16-Oct</b>	17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	22-Oct
<b>23-Oct</b>	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct
<b>30-Oct</b>	31-Oct					

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

**Air Quality Monitoring Location:**

**AM9 : Work Site Boundary (Near Ngong Shuen Chau Barracks Group 2)**

**Noise Monitoring Location:**

**NM7 - Open Area near Naval Base Barrack**