DRAINAGE SERVICES DEPARTMENT

Contract No. DE/2009/09
Tai Po Sewage Treatment Works,
Stage V, Phase IIB

Baseline Environmental Monitoring Report

March 2011

(Version 2.0)

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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EXECUTIVE SUMMARY

1. This Baseline Environmental Monitoring Report is prepared by Cinotech Consultants Ltd. for "Tai Po Sewage Treatment Works – Stage V Phase IIB" (hereinafter called "the Project").

2. Under the project "Tai Po Sewage Treatment Works (hereinafter called "TPSTW") – Stage V, Phase IIB", a baseline environmental monitoring for air quality and noise was conducted in accordance with the Environmental and Audit (EM&A) Manual and the results were presented in the Baseline Environmental Monitoring Report that was submitted to Environmental Protection Department (EPD) in June 2010. As the construction works of TPSTW Stage V, Phase IIB is still on-going under one Contract (Contract No. DC/2009/09), the baseline monitoring results obtained from TPSTW Stage V, Phase IIB are adopted for setting up the baseline and Action/Limit levels for this Project of DE/2009/09.

3. This report presents the baseline air quality and noise monitoring works performed between 9 and 22 April 2010.

Air Quality

4. The baseline 1-hour and 24-hour TSP (Total Suspended Particulates) monitoring were conducted at three designated locations in the baseline monitoring period. During the monitoring, there was no major dust generating activities undertaken in the vicinity of the monitoring stations. 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. Baseline noise monitoring was conducted at one designated monitoring station. Noise levels at the designated 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 next day

1 INTRODUCTION

Background

1.1 Tai Po Sewage Treatment Works (TPSTW) is located within the Tai Po Industrial Estate. It currently comprises four Stages: I, II, IVA and IVB works. The TPSTW - Stage V aims to upgrade the existing STW to provide additional sewage treatment capacity from the present design flow of 88,000 m^3/day to 130,000 m^3/day to meet the demands of both the existing and future developments, and to meet the revised discharge license requirements.

1.2 The TPSTW Stage V, Phase I and Phase II are Designated Projects under the Environmental Impact Assessment Ordinance (Cap. 449) with the same EIAO Register No. AEIAR – 081/2004. A study of environmental impact assessment (EIA) was undertaken to evaluate various environmental impacts associated with the works within these two Designed Projects. An EIA Report as well as an Environmental Monitoring and Audit (EM&A) Manual were approved by the Environmental Protection Department (EPD) on 28 October 2004.

1.3 The Stage V works will be implemented in 2 phases. The design capacities of Phase I and Phase II works are 100,000 m^3/d and 130,000 m^3/d respectively. An Environmental Permit (EP) No. EP-265/2007 was issued on 22 March 2007 for the TPSTW Stage V Phase II to the Drainage Services Department (DSD) as the Permit Holder. "Tai Po Sewage Treatment Works – Stage V Phase IIB" formed part of the Phase II works, includes provision of disinfection and ancillary facilities in TPSTW for its future extended plant design capacity of 120,000 m^3/day. A master construction programme of the Project is provided in Appendix E.

1.4 Cinotech Consultants Ltd. was designated as the Environmental Team (ET) to undertake the EM&A works for the Project. This Baseline Environmental Monitoring Report (the Report) is prepared by Cinotech for the Project prior to the commencement of construction activity in accordance with the EM&A Manual.

1.5 Under the project "Tai Po Sewage Treatment Works – Stage V, Phase IIB", a baseline environmental monitoring for air quality and noise was conducted in accordance with the Environmental and Audit (EM&A) Manual and the results were presented in the Baseline Environmental Monitoring Report that was submitted to Environmental Protection Department (EPD) in June 2010. As the construction works of TPSTW Stage V, Phase IIB is still on-going under one Contract (Contract No. DC/2009/09), the baseline monitoring results obtained from TPSTW Stage V, Phase IIB are adopted for setting up the baseline and Action/Limit levels for this Project of DE/2009/09.

Purpose of the Report

1.6 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.

Structure of the Baseline Monitoring Report

1.7 The structure of the Report is summarized as follows:

Section 1: Introduction, purpose, background and the structure of the report.
Section 2: Air Quality, which describes the baseline air quality monitoring.
Section 3: Noise, which describes the baseline noise monitoring.
Section 4: Revisions for inclusion in the EM&A Manual
Section 5: Conclusions

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 that of 24-hour TSP was conducted once everyday 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 A1.

Table 2.1 Air Quality Monitoring Equipment

Equipment	Model and Make	Qty.
HVS	Graseby GMW 2310 HVS, Model GS-2310105-1	5
	Tisch Environmental, Inc.; Model no. TE-5170	1
Calibrator	Anderson Instruments, Inc.; Model no.: G25A	1

Monitoring Locations

2.3 Baseline air quality monitoring was conducted at the 3 monitoring stations, as shown in Figure 1.2. Table 2.2 describes the locations of the air quality monitoring stations.

Table 2.2 Air Quality Monitoring Locations

Monitoring Stations	Description	Location of Measurement
CAM1	Government Staff Quarters	On flat roof
CAM2	Hung Hing Printing Centre	On ground within TPSTW and just next to the Printing Centre
CAM3	Talcon Industrial Ltd.	On ground within TPSTW and just next to Talcon Industrial Ltd.

2.4 For Stations CAM2 and CAM3, the staff of the two factories did not allow installation of the monitoring equipment within the factories. Therefore, the monitoring equipment (HVS) was installed within the TPSTW and located just next to the 2 sensitive receivers. It should be noted that the monitoring stations were separated by non-solid fence from the receivers. Therefore, it was considered that the selected monitoring locations could represent the monitoring station as defined in the EM&A Manual.

Monitoring Parameters, Frequency and Duration

2.5 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
CAM1, CAM2 and CAM3	24-hour TSP	24 hours	Daily
	1-hour TSP	1 hour between 0700-1900	3 times/day

Monitoring Methodology and QA/QC Procedure

2.6 Weather data was recorded during the baseline period and is shown in Appendix C. The air temperature, wind speed, wind direction, precipitation and the relative humidity data was obtained from the Hong Kong Observatory Webpage. The general weather conditions (i.e. sunny, cloudy or rainy) were recorded by the field staff's observation on the monitoring day.

Instrumentation

2.7 High volume Samplers (HVS) completed with appropriate sampling inlets was employed for air quality monitoring. Each sampler was composed 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

2.8 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

2.9 Fiberglass filters were used which have a collection efficiency of larger than 99% for particles of 0.3 μm 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.

2.10 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 ±3 °C; the relative humidity (RH) was < 50% and not variable by more than ±5%. A convenient working RH was 40%.

2.11 Wellab Ltd. has a comprehensive quality assurance and quality control programmes.

Operating/Analytical Procedures

2.12 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 m3/min. and 1.4 m3/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 ±3°C; the relative humidity (RH) should be < 50% and not vary by more than ±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

2.13 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.
- All HVS were calibrated (five point calibration) using Calibration Kit prior to the

commencement of the baseline monitoring.

Results and Observations

Results

2.14 Baseline air quality monitoring was conducted at 3 monitoring stations, namely CAM1, CAM2 and CAM3, in the period between 9 and 22 April 2010. The detailed monitoring schedule is shown in Appendix D.

2.15 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 A2 and A4 respectively. Graphical presentations of the 1-hour TSP and 24-hour TSP results are shown in Appendices A3 and A5 respectively. Detailed weather conditions during the baseline monitoring period are shown in Appendix C.

Table 2.4 Summary of Baseline 1-hour TSP Monitoring Results

Monitoring Station	Average TSP Concentration, $\mu g/m^3$ (Range)
CAM1	100 (46 – 208)
CAM2	132 (56 – 219)
CAM3	144 (77 – 240)

Table 2.5 Summary of Baseline 24-hour TSP Monitoring Results

Monitoring Station	Average TSP Concentration, $\mu g/m^3$ (Range)
CAM1	63 (39 – 116)
CAM2	72 (43 – 130)
CAM3	95 (60 – 159)

Observations

2.16 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.

2.17 During the baseline monitoring, no major dust generating activity was identified in the vicinity of the monitoring stations.

2.18 Apart from the meteorological conditions, no other 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 respective sensitive receivers.

Action and Limit Levels

2.19 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	• If BL ≤ 384 μg/m^3, AL = (BL × 1.3 + LL) ÷ 2 • If BL > 384 μg/m^3, AL = LL	500 μg/m^3
24-hour TSP	• If BL ≤ 200 μg/m^3, AL = (BL × 1.3 + LL) ÷ 2 • If BL > 200 μg/m^3, AL = LL	260 μg/m^3

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

2.20 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.

Table 2.7 Action and Limit Levels for 1-hour TSP

Location	Action Level, μg/m^3	Limit Level, μg/m^3
CAM1	315	500
CAM2	336	
CAM3	344	

Table 2.8 Action and Limit Levels for 24-hour TSP

Location	Action Level, μg/m^3	Limit Level, μg/m^3
CAM1	171	260
CAM2	177	
CAM3	192	

3 NOISE

Monitoring Requirements

3.1 Baseline noise monitoring was conducted for 14 days at the designated monitoring station between 9 April 2010 (00:00am) and 23 April 2010 (00:00am). 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 each monitoring station.

Monitoring Locations

3.2 Table 3.1 gives the location of the monitoring station, which is also shown in Figure 1.2.

Table 3.1 Location of Noise Monitoring Station

Monitoring Station	Description	Location of Measurement
NM1	Government Staff Quarter	Outside the corridor of 1/F

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 B1.

Table 3.2 Noise Monitoring Equipment

Equipment	Model and Make	Quantity
Integrating Sound Level Meter	SVANTEK, SVAN 955	1
Calibrator	SVANTEK, SV30A	1
Wind Speed Anemometer	Vane Anemometer, Model 451104	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 next day

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_{eq}, L_{10} & L_{90}
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 C. Air temperature, wind speed, wind direction 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 C, were recorded by field observation during equipment check and estimated according to weather data from the Hong Kong Observatory.

Field Monitoring

3.7 The monitoring procedures are as follows:

- The microphone head of the head level meter was positioned 1m exterior of the noise sensitive facade and lowered sufficiently so that the building's external wall acts as a reflecting surface.
- 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.
- The wind speed at the monitoring station was checked with the portable wind meter.
- 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_{eq}, L_{90} and L_{10} 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 station in the period between 9 April 2010 (00:00am) and 23 April 2010 (00:00am). The monitoring schedule is shown in Appendix D.

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 B2 to B4. Graphical presentations of the data are provided in Appendix B5. Weather conditions recorded during the baseline monitoring period are shown in Appendix C.

Table 3.4 Summary of Baseline Noise Levels

Period (Measurement Duration)	Baseline Noise Levels (L_{eq})		
	Mean	Max	Min
Daytime 0700-1900 hrs on normal weekdays (30 min)	64.8	65.8	62.8
Evening-time 1900-2300 hrs on normal weekdays (5 min) and Holidays 0700-2300 hrs (5 min)	60.4	72.1	57.2
Night-time 2300-0700 hrs of the next day (5 min)	58.9	64.5	55.8

1. The abnormal data described in Section 3.14 was discarded during the data manipulation for the above summary table.

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

Period (Measurement Duration)	Supplementary Information					
	L_{10}			L_{90}		
	Mean	Max	Min	Mean	Max	Min
Daytime 0700-1900 hrs on normal weekdays (5 min)	66.5	67.6	64.6	62.0	63.5	59.8
Evening-time 1900-2300 hrs on normal weekdays (5 min) and Holidays 0700-2300 hrs (5 min)	61.1	68.1	57.5	58.6	65.1	56.5
Night-time 2300-0700 hrs of the next day (5 min)	59.6	67.1	56.5	57.8	62.1	54.5

1. The abnormal data described in Section 3.14 was discarded during the data manipulation for the above summary table.

Observations

3.11 The weather was mainly cloudy or fine referring to the observations from the field staff during the baseline monitoring period. Nevertheless, rains, which might influence the noise measurement results, were recorded according to the information from Hong Kong Observatory at Tai Mei Tuk.

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 included the operation of the existing facilities of the TPSTW (such as the inlet pumping station) as well as the vehicles attending and leaving the TPSTW. Noise, from the road traffic on Dai Kwai Street and activities in nearby factories, might also have minor effect on the measured noise levels. These noise sources are expected to exist in near future and throughout the construction period of the Project.

3.14 As mentioned above, there were no thunderstorms but rains on 10, 11, 15, 17, 18 and 22 April 2010. Especially for 15 and 22 April 2010. Data collected were reviewed carefully to identify any abnormal noise levels were recorded. Table 3.6 summarizes the abnormal data collected during the baseline monitoring.

3.15 The time periods mentioned in Table 3.6 only contribute less than 8 % of the total measurement duration of the whole baseline monitoring period. Excluding the data collected in these periods, the baseline monitoring results are considered representative to the ambient noise level of the sensitive receiver.

Table 3.6 Abnormal Data Collected during the Baseline Monitoring Period

Time Period	Possible Cause of Abnormality
07:00 (15/4) to 19:00 (15/4)	• Rains (10.5mm rainfall on Tai Po area according to the records from HK Observatory at Tai Mei Tuk Station)
07:00 (22/4) to 19:00 (22/4)	• Rains (8.5mm rainfall on Tai Po area according to the records from HK Observatory at Tai Mei Tuk Station)

Action and Limit Levels

3.16 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 3.7 presents the Action and Limit Levels for construction noise.

Table 3.7 Action Limit Levels for Noise during Construction Period

Time Period	Action Level	Limit Level
0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A)
0700-2300 hrs on holidays; and 1900-2300 hrs on all other days		70* dB(A)
2300-0700 hrs of next day		55* dB(A)

Notes:
* The Area Sensitivity Rating for Station NM1 is taken as C, due to the nearby industrial area, according to Table 1 of EPD's Technical Memorandum on Noise from Construction Work other than Percussive Piling.

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

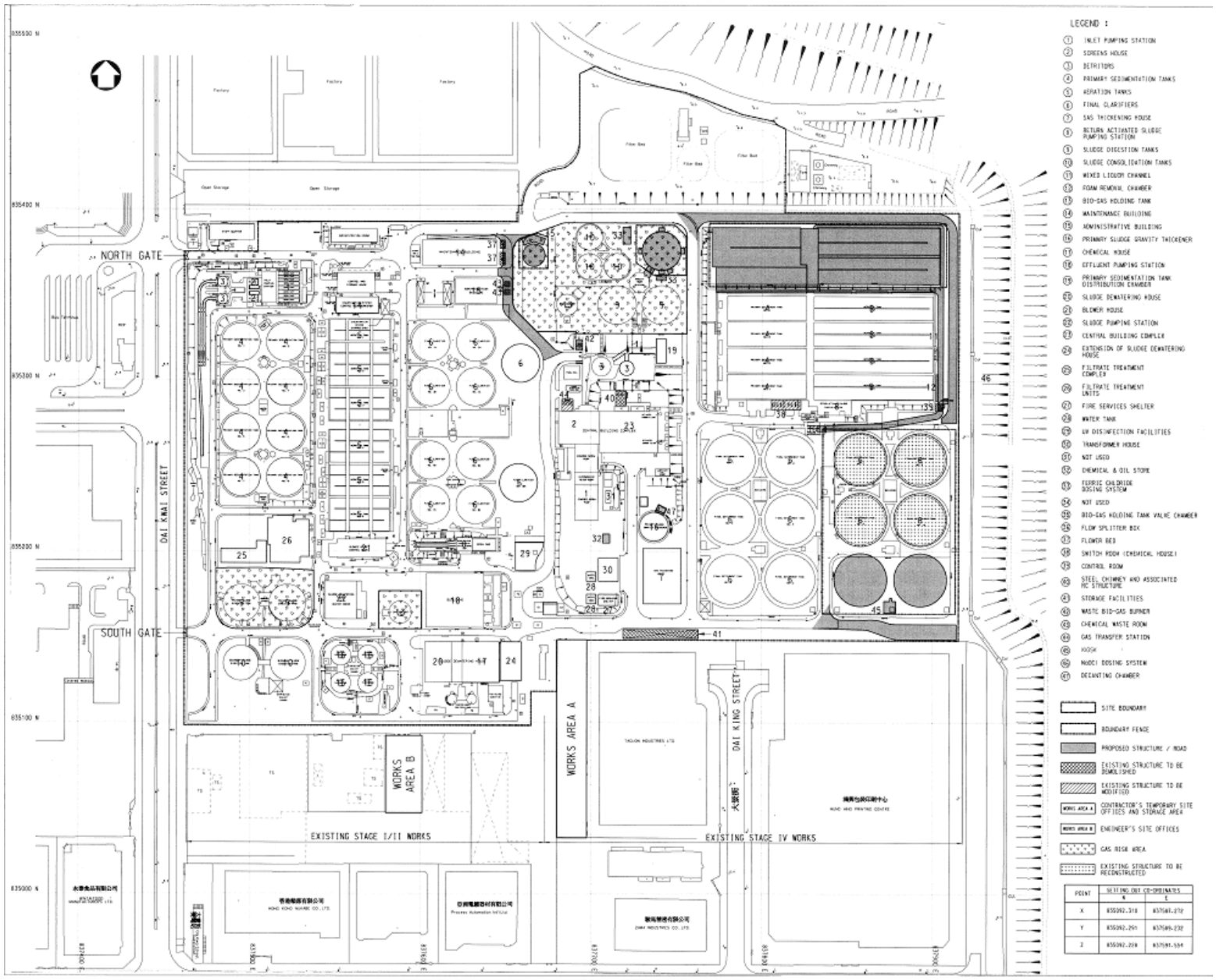
5.1 The baseline environmental monitoring was conducted between 9 and 22 April 2010. The monitoring results were used to establish the ambient air quality and noise levels at the sensitive receiver prior to the construction of the Project.

5.2 Both the baseline air quality and noise monitoring were carried out in accordance with the EM&A Manual, in respect of the methodology, equipment, location and monitoring parameters.

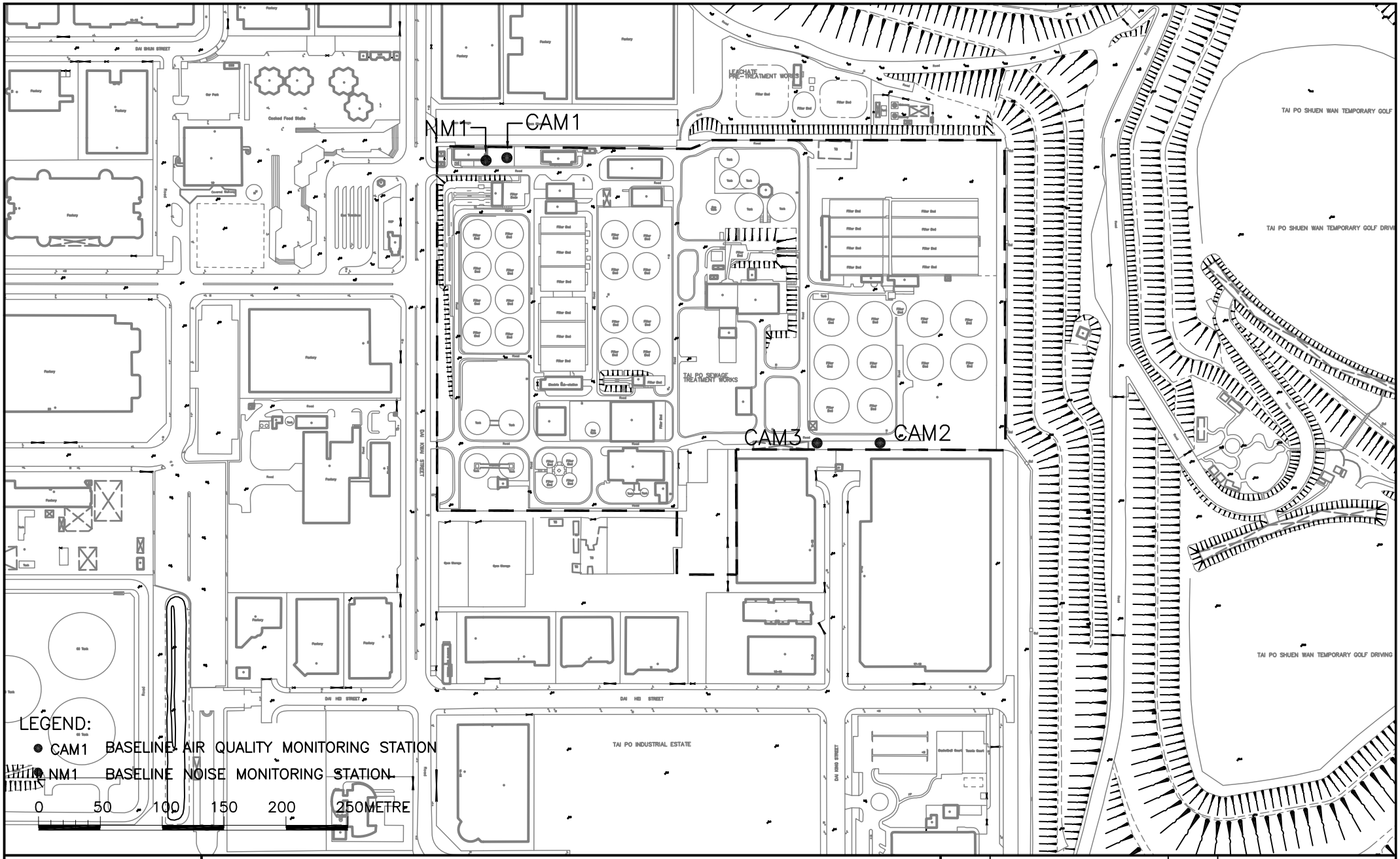
5.3 The baseline air quality (1-hour and 24-hour TSP levels) monitoring was conducted at the 3 designated locations. During the monitoring, no major construction work or dust generating activities were undertaken in the vicinity of the monitoring stations. The baseline air quality monitoring results are considered representative to the ambient air quality conditions of the respective sensitive receivers. 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. The major noise sources identified at the monitoring station included the existing TPSTW's facilities, construction activities from other contract and site vehicle attending and leaving the TPSTW. 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.

FIGURES



TAI PO SEWAGE TREATMENT WORKS, STAGE V, PHASE IIB	Scale N.T.S	Proposa No. MA10069	CINOTECH
PROJECT SITE LAYOUT PLAN	Date Mar-11	Figure 1.1	



CINOTECH
Cinotech Consultants Limited

Tai Po Sewage Treatment Work, Stage V, Phase IIB

LOCATIONS OF AIR QUALITY AND NOISE MONITORING STATIONS

SCALE	A4 1:4000	DATE	2011
CHECK	IT	DRAWN	TY
JOB No.	MA10069	DRAWING No. 1.2	REV —

F:\MA10069\DRAWING\BASELINE\FIGURE 1.2.DWG

APPENDIX A1
CALIBRATION CERTIFICATE FOR AIR QUALITY MONITORING EQUIPMENT

High-Volume TSP Sampler
5-POINT CALIBRATION DATA SHEET

CINOTECH

File No. MA0010/08/0001

Station: Government Staff Quarter (CAM1) Operator: WK

Date: 9-Apr-10 Next Due Date: 8-Jun-09

Equipment No.: A-01-08 Serial No. 1287

Ambient Condition			
Temperature, Ta (K)	293.3	Pressure, Pa (mmHg)	764.4

Orifice Transfer Standard Information					
Equipment No.:	A-04-06	Slope, mc	0.0448	Intercept, bc	0.0086
Last Calibration Date:	4-Nov-09	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	3-Nov-10	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler

Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of oil	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	12.0	3.50	77.97	8.9	3.02
2	10.1	3.21	71.52	7.3	2.73
3	7.1	2.69	59.93	5.1	2.28
4	4.9	2.24	49.76	3.3	1.84
5	2.9	1.72	38.23	2.0	1.43

By Linear Regression of Y on X

Slope , mw = 0.0401 **Intercept, bw =** -0.1258

Correlation coefficient* = 0.9994

*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; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ 2.50

Remarks:

Conducted by: W K Tang Signature: Date: 9/4/10

Checked by: Signature: Date: 9 April 2010

High-Volume TSP Sampler
5-POINT CALIBRATION DATA SHEET

CINOTECH

File No. MA5023/37/0031

Station: CAM1 - Government Staff Quarter
Operator: CH
Date: 7-Apr-10
Next Due Date: 6-Jun-10
Equipment No.: A-01-37
Serial No. 1704

Ambient Condition			
Temperature, Ta (K)	293.1	Pressure, Pa (mmHg)	766.2

Orifice Transfer Standard Information					
Equipment No.:	A-04-06	Slope, mc	0.0448	Intercept, bc	0.0086
Last Calibration Date:	4-Nov-09	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	3-Nov-10	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler

Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of oil	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	11.1	3.37	75.10	7.5	2.77
2	9.8	3.17	70.55	6.5	2.58
3	7.4	2.75	61.28	5.0	2.26
4	5.1	2.29	50.84	3.2	1.81
5	3.3	1.84	40.86	2.0	1.43

By Linear Regression of Y on X

Slope , mw = 0.0392 **Intercept, bw :** -0.1676

Correlation coefficient* = 0.9994

*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; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ **2.24**

Remarks:

Conducted by: Signature: Date: 7/4/10

Checked by: Signature: Date: 7 April 2010

High-Volume TSP Sampler
5-POINT CALIBRATION DATA SHEET

CINOTECH

File No. MA0010/12/0001

Station: Hung Hing Printing Centre (CAM2) Operator: WK

Date: 9-Apr-10 Next Due Date: 8-Jun-09

Equipment No.: A-01-12 Serial No. 1801

Ambient Condition			
Temperature, Ta (K)	293.3	Pressure, Pa (mmHg)	764.4

Orifice Transfer Standard Information					
Equipment No.:	A-04-06	Slope, mc	0.0448	Intercept, bc	0.0086
Last Calibration Date:	4-Nov-09	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	3-Nov-10	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler

Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of oil	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	11.8	3.47	77.32	8.7	2.98
2	9.9	3.18	70.81	7.2	2.71
3	6.9	2.66	59.08	4.9	2.24
4	4.7	2.19	48.73	3.2	1.81
5	2.8	1.69	37.57	1.9	1.39

By Linear Regression of Y on X

Slope , mw = 0.0401 **Intercept, bw =** -0.1295

Correlation coefficient* = 0.9998

*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; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ 2.49

Remarks:

Conducted by: Wk Tang Signature: Kwa Date: 9/4/10

Checked by: W Signature: Date: 9 April 2010

High-Volume TSP Sampler
5-POINT CALIBRATION DATA SHEET

CINOTECH

File No. MA5023/A40/0031

Station: CAM2 - Hung Hing Printing Centre Operator: CH

Date: 7-Apr-10 Next Due Date: 6-Jun-10

Equipment No.: A-01-40 Serial No. 10239

Ambient Condition			
Temperature, Ta (K)	293.1	Pressure, Pa (mmHg)	766.2

Orifice Transfer Standard Information					
Equipment No.:	A-04-06	Slope, mc	0.0448	Intercept, bc	0.0086
Last Calibration Date:	4-Nov-09	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	3-Nov-10	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler

Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of oil	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	11.5	3.43	76.44	7.9	2.85
2	9.7	3.15	70.19	6.5	2.58
3	7.1	2.70	60.02	4.9	2.24
4	5.0	2.26	50.34	3.3	1.84
5	3.2	1.81	40.23	2.0	1.43

By Linear Regression of Y on X

Slope , mw = 0.0387 **Intercept, bw :** -0.1116

Correlation coefficient* = 0.9994

*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; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ 2.35

Remarks:

Conducted by: CM Signature: CM Date: 7/4/10

Checked by: CM Signature: CM Date: 7 April 2010

High-Volume TSP Sampler
5-POINT CALIBRATION DATA SHEET

CINOTECH

File No. MA0010/13/0001

Station: Talcon Industrial Ltd (CAM3) | Operator: WK
Date: 9-Apr-10 | Next Due Date: 8-Jun-09
Equipment No.: A-01-13 | Serial No. 1352

Ambient Condition			
Temperature, Ta (K)	293.3	Pressure, Pa (mmHg)	764.4

Orifice Transfer Standard Information					
Equipment No.:	A-04-06	Slope, mc	0.0448	Intercept, bc	0.0086
Last Calibration Date:	4-Nov-09	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	3-Nov-10	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler

Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of oil	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	11.6	3.44	76.66	8.6	2.96
2	9.7	3.15	70.09	7.0	2.67
3	6.9	2.66	59.08	4.7	2.19
4	4.5	2.14	47.67	3.1	1.78
5	2.6	1.63	36.19	1.9	1.39

By Linear Regression of Y on X

Slope , mw = 0.0389 **Intercept, bw =** -0.0531

Correlation coefficient* = 0.9981

*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; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ **2.57**

Remarks:

Conducted by: Wk. Tang Signature: Kwai Date: 9/4/10

Checked by: WT Signature: Date: 9 April 2010

High-Volume TSP Sampler
5-POINT CALIBRATION DATA SHEET

CINOTECH

File No. MA5023/35/0031

Station: CAM3 - Talcon Industrial Ltd
Operator: CH
Date: 7-Apr-10
Next Due Date: 6-Jun-10
Equipment No.: A-01-35
Serial No. 0810

Ambient Condition			
Temperature, Ta (K)	293.1	Pressure, Pa (mmHg)	766.2

Orifice Transfer Standard Information					
Equipment No.:	A-04-06	Slope, mc	0.0448	Intercept, bc	0.0086
Last Calibration Date:	4-Nov-09	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	3-Nov-10	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler

Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of oil	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	11.8	3.48	77.44	8.0	2.86
2	9.8	3.17	70.55	6.5	2.58
3	7.5	2.77	61.70	4.9	2.24
4	5.1	2.29	50.84	3.2	1.81
5	3.2	1.81	40.23	2.0	1.43

By Linear Regression of Y on X

Slope , mw = 0.0386 **Intercept, bw :** -0.1335

Correlation coefficient* = 0.9998

*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; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ 2.27

Remarks:

Conducted by: Signature: Date: 7/4/10

Checked by: Signature: Date: 7 April 2010

TISCH ENVIROMENTAL, INC
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AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5028A

Date - Nov 04, 2009 Rootsmeter S/N 9833620 Ta (K) - 295
Operator Tisch Orifice I.D. - 1272 Pa (mm) - 758.19

PLATE OR VDC #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1	NA	NA	1.00	1.2800	4.2	1.50
2	NA	NA	1.00	0.9910	7.1	2.50
3	NA	NA	1.00	0.9050	8.5	3.00
4	NA	NA	1.00	0.8350	9.9	3.50
5	NA	NA	1.00	0.6320	17.1	6.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)
1.0021	0.7829	1.2295
0.9983	1.0073	1.5873
0.9964	1.1010	1.7388
0.9946	1.1911	1.8781
0.9850	1.5586	2.4590

Qstd slope (m) = 1.58420
intercept (b) = -0.00884
coefficient (r) = 0.99998

y axis = SQRT[H2O(Pa/760)(298/Ta)]

Va	(x axis) Qa	(y axis)
0.9944	0.7769	0.7640
0.9906	0.9996	0.9863
0.9887	1.0925	1.0804
0.9869	1.1819	1.1670
0.9774	1.5466	1.5279

Qa slope (m) = 0.99200
intercept (b) = -0.00549
coefficient (r) = 0.99998

y axis = SQRT[H2O(Ta/Pa)]

CALCULATIONS

Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta)
Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa]
Qa = Va/Time

For subsequent flow rate calculations:

Qstd = 1/m{[SQRT(H2O(Pa/760)(298/Ta))]- b}
Qa = 1/m{[SQRT H2O(Ta/Pa)]- b}

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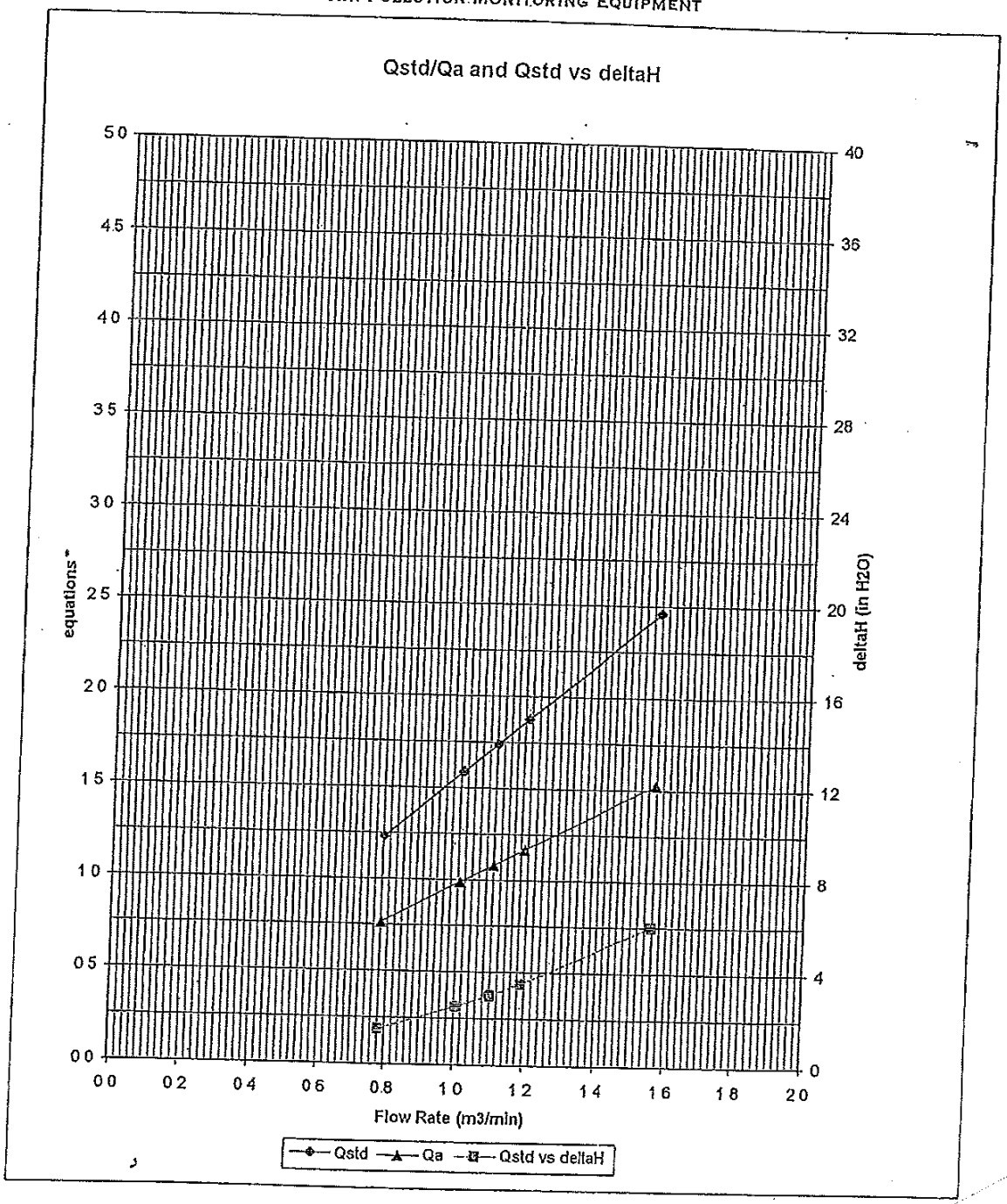
AIR POLLUTION MONITORING EQUIPMENT



* y-axis equations:

Qstd series: $\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}$

Qa series: $\sqrt{(\Delta H\ (Ta\ /\ Pa))}$

APPENDIX A2
1-HOUR TSP BASELINE MONITORING RESULTS

Appendix A2 - 1-hour TSP Baseline Monitoring Results

Station CAM1 Government Staff Quarters

Date	Sampling Time	Weather Condition	Air Temp. (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Elapse Time		Sampling Time(hrs.)	Flow Rate (m^3/min.)		Av. flow (m^3/min)	Total vol. (m^3)	Conc. ($\mu g/m^3$)
					Initial	Final		Initial	Final		Initial	Final			
9-Apr-10	09:00	Fine	293.6	763.9	2.8222	2.8297	0.0075	125.3	126.3	1.0	1.22	1.22	1.22	73.0	103
9-Apr-10	10:00	Fine	294.0	763.5	2.8351	2.8435	0.0084	127.3	128.3	1.0	1.22	1.21	1.21	72.9	115
9-Apr-10	11:00	Fine	294.4	763.1	2.8240	2.8304	0.0064	129.3	130.3	1.0	1.21	1.21	1.21	72.8	88
10-Apr-10	09:00	Cloudy	294.5	762.0	2.8165	2.8256	0.0091	131.3	132.3	1.0	1.21	1.21	1.21	72.8	125
10-Apr-10	10:00	Cloudy	294.9	761.6	2.8245	2.8346	0.0101	133.3	134.3	1.0	1.21	1.21	1.21	72.7	139
10-Apr-10	11:00	Cloudy	295.3	761.2	2.8313	2.8387	0.0074	135.3	136.3	1.0	1.21	1.21	1.21	72.6	102
11-Apr-10	09:00	Fine	298.4	761.4	2.8602	2.8666	0.0064	137.3	138.3	1.0	1.21	1.20	1.20	72.3	89
11-Apr-10	10:00	Fine	298.8	760.9	2.8596	2.8641	0.0045	139.3	140.3	1.0	1.20	1.20	1.20	72.2	62
11-Apr-10	11:00	Fine	299.2	760.5	2.8508	2.8582	0.0074	141.3	142.3	1.0	1.20	1.20	1.20	72.2	103
12-Apr-10	13:00	Sunny	296.9	760.4	2.8547	2.8619	0.0072	143.3	144.3	1.0	1.21	1.21	1.21	72.4	99
12-Apr-10	14:00	Sunny	297.3	760.0	3.4468	3.4536	0.0068	145.3	146.3	1.0	1.21	1.21	1.21	72.4	94
12-Apr-10	15:00	Sunny	297.7	759.6	3.2068	3.2131	0.0063	147.3	148.3	1.0	1.21	1.20	1.20	72.3	87
13-Apr-10	09:00	Cloudy	297.8	763.4	3.3681	3.3762	0.0081	149.3	150.3	1.0	1.21	1.21	1.21	72.5	112
13-Apr-10	10:00	Cloudy	298.2	763.0	3.2699	3.2785	0.0086	151.3	152.3	1.0	1.21	1.21	1.21	72.4	119
13-Apr-10	11:00	Cloudy	298.6	762.6	3.2616	3.2693	0.0077	153.3	154.3	1.0	1.21	1.21	1.21	72.3	106
14-Apr-10	09:00	Cloudy	291.4	766.3	3.3112	3.3164	0.0052	155.3	156.3	1.0	1.22	1.22	1.22	73.3	71
14-Apr-10	10:00	Cloudy	291.8	765.9	3.3521	3.3587	0.0066	157.3	158.3	1.0	1.22	1.22	1.22	73.2	90
14-Apr-10	11:00	Cloudy	292.2	765.5	3.3092	3.3126	0.0034	159.3	160.3	1.0	1.22	1.22	1.22	73.2	46
15-Apr-10	13:00	Cloudy	289.3	766.2	2.8238	2.8303	0.0065	161.3	162.3	1.0	1.23	1.23	1.23	73.6	88
15-Apr-10	14:00	Cloudy	289.7	765.8	3.3362	3.3433	0.0071	163.3	164.3	1.0	1.23	1.22	1.22	73.5	97
15-Apr-10	15:00	Cloudy	290.1	765.4	3.4022	3.4080	0.0058	165.3	166.3	1.0	1.22	1.22	1.22	73.4	79
16-Apr-10	09:00	Fine	286.3	769.1	3.3825	3.3899	0.0074	167.3	168.3	1.0	1.23	1.23	1.23	74.0	100
16-Apr-10	10:00	Fine	286.7	768.7	3.4224	3.4309	0.0085	169.3	170.3	1.0	1.23	1.23	1.23	74.0	115
16-Apr-10	11:00	Fine	287.1	768.3	3.4387	3.4464	0.0077	171.3	172.3	1.0	1.23	1.23	1.23	73.9	104
17-Apr-10	09:00	Cloudy	291.0	768.4	3.4275	3.4339	0.0064	173.3	174.3	1.0	1.22	1.22	1.22	73.5	87
17-Apr-10	10:00	Cloudy	291.4	768.0	3.4356	3.4391	0.0035	175.3	176.3	1.0	1.22	1.22	1.22	73.4	48
17-Apr-10	11:00	Cloudy	291.8	767.6	3.3260	3.3318	0.0058	177.3	178.3	1.0	1.22	1.22	1.22	73.3	79
18-Apr-10	09:00	Cloudy	291.4	766.2	3.2784	3.2818	0.0034	179.3	180.3	1.0	1.22	1.22	1.22	73.3	46
18-Apr-10	10:00	Cloudy	291.8	765.8	3.4374	3.4410	0.0036	181.3	182.3	1.0	1.22	1.22	1.22	73.2	49
18-Apr-10	11:00	Cloudy	292.2	765.4	3.4475	3.4527	0.0052	183.3	184.3	1.0	1.22	1.22	1.22	73.2	71
19-Apr-10	09:00	Cloudy	293.6	763.1	2.8196	2.8348	0.0152	185.3	186.3	1.0	1.22	1.22	1.22	72.9	208
19-Apr-10	10:00	Cloudy	294.0	762.7	3.4218	3.4329	0.0111	187.3	188.3	1.0	1.21	1.21	1.21	72.9	152
19-Apr-10	11:00	Cloudy	294.4	762.3	3.3496	3.3592	0.0096	189.3	190.3	1.0	1.21	1.21	1.21	72.8	132
20-Apr-10	09:00	Cloudy	294.5	761.9	3.2270	3.2333	0.0063	191.3	192.3	1.0	1.21	1.21	1.21	72.8	87
20-Apr-10	10:00	Cloudy	294.9	761.5	3.2201	3.2270	0.0069	193.3	194.3	1.0	1.21	1.21	1.21	72.7	95
20-Apr-10	11:00	Cloudy	295.3	761.1	3.2192	3.2248	0.0056	195.3	196.3	1.0	1.21	1.21	1.21	72.6	77
21-Apr-10	09:00	Sunny	298.4	761.4	2.8196	2.8303	0.0107	197.3	198.3	1.0	1.21	1.20	1.20	72.3	148
21-Apr-10	10:00	Sunny	298.8	760.9	3.2388	3.2476	0.0088	199.3	200.3	1.0	1.20	1.20	1.20	72.2	122
21-Apr-10	11:00	Sunny	299.2	760.5	3.8543	3.8596	0.0053	201.3	202.3	1.0	1.20	1.20	1.20	72.2	73
22-Apr-10	09:00	Cloudy	299.4	760.2	3.2856	3.2958	0.0102	203.3	204.3	1.0	1.20	1.20	1.20	72.1	141
22-Apr-10	10:00	Cloudy	299.8	759.8	3.2919	3.2994	0.0075	205.3	206.3	1.0	1.20	1.20	1.20	72.1	104
22-Apr-10	11:00	Cloudy	300.2	759.4	3.3937	3.4029	0.0092	207.3	208.3	1.0	1.20	1.20	1.20	72.0	128
														Min	46
														Max	208
														Average	100

Appendix A2 - 1-hour TSP Baseline Monitoring Results

Station CAM2 **Heng Hing Printing Centre**

Date	Sampling Time	Weather Condition	Air Temp. (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Elapse Time		Sampling Time(hrs.)	Flow Rate (m^3/min.)		Av. flow (m^3/min)	Total vol. (m^3)	Conc. ($\mu g/m^3$)
					Initial	Final		Initial	Final		Initial	Final			
9-Apr-10	09:15	Fine	293.6	763.9	3.2806	3.2931	0.0125	36.1	37.1	1.0	1.22	1.22	1.22	73.1	171
9-Apr-10	10:15	Fine	294.0	763.5	3.2655	3.2805	0.0150	38.1	39.1	1.0	1.22	1.22	1.22	73.0	205
9-Apr-10	11:15	Fine	294.4	763.1	3.2590	3.2681	0.0091	40.1	41.1	1.0	1.22	1.22	1.22	73.0	125
10-Apr-10	09:15	Cloudy	294.5	762.0	3.2482	3.2592	0.0110	42.1	43.1	1.0	1.22	1.22	1.22	72.9	151
10-Apr-10	10:15	Cloudy	294.9	761.6	3.2865	3.2989	0.0124	44.1	45.1	1.0	1.21	1.21	1.21	72.9	170
10-Apr-10	11:15	Cloudy	295.3	761.2	3.3641	3.3754	0.0113	46.1	47.1	1.0	1.21	1.21	1.21	72.8	155
11-Apr-10	09:15	Fine	298.4	761.4	3.2453	3.2538	0.0085	48.1	49.1	1.0	1.21	1.21	1.21	72.5	117
11-Apr-10	10:15	Fine	298.8	760.9	3.2333	3.2387	0.0054	50.1	51.1	1.0	1.21	1.21	1.21	72.4	75
11-Apr-10	11:15	Fine	299.2	760.5	3.3489	3.3586	0.0097	52.1	53.1	1.0	1.21	1.21	1.21	72.3	134
12-Apr-10	13:15	Sunny	296.9	760.4	3.3940	3.4014	0.0074	54.1	55.1	1.0	1.21	1.21	1.21	72.6	102
12-Apr-10	14:15	Sunny	297.3	760.0	3.3658	3.3735	0.0077	56.1	57.1	1.0	1.21	1.21	1.21	72.5	106
12-Apr-10	15:15	Sunny	297.7	759.6	3.3905	3.3988	0.0083	58.1	59.1	1.0	1.21	1.21	1.21	72.5	115
13-Apr-10	09:15	Cloudy	297.8	763.4	3.8341	3.8482	0.0141	60.1	61.1	1.0	1.21	1.21	1.21	72.6	194
13-Apr-10	10:15	Cloudy	298.2	763.0	3.8258	3.8356	0.0098	62.1	63.1	1.0	1.21	1.21	1.21	72.5	135
13-Apr-10	11:15	Cloudy	298.6	762.6	2.8340	2.8402	0.0062	64.1	65.1	1.0	1.21	1.21	1.21	72.5	86
14-Apr-10	09:15	Cloudy	291.4	766.3	2.8238	2.8321	0.0083	66.1	67.1	1.0	1.22	1.22	1.22	73.5	113
14-Apr-10	10:15	Cloudy	291.8	765.9	2.8369	2.8456	0.0087	68.1	69.1	1.0	1.22	1.22	1.22	73.4	119
14-Apr-10	11:15	Cloudy	292.2	765.5	2.8336	2.8439	0.0103	70.1	71.1	1.0	1.22	1.22	1.22	73.3	140
15-Apr-10	13:15	Cloudy	289.3	766.2	2.8279	2.8418	0.0139	72.1	73.1	1.0	1.23	1.23	1.23	73.7	189
15-Apr-10	14:15	Cloudy	289.7	765.8	2.7854	2.7958	0.0104	74.1	75.1	1.0	1.23	1.23	1.23	73.6	141
15-Apr-10	15:15	Cloudy	290.1	765.4	2.8965	2.9061	0.0096	76.1	77.1	1.0	1.23	1.23	1.23	73.6	130
16-Apr-10	09:15	Fine	286.3	769.1	2.8311	2.8393	0.0082	78.1	79.1	1.0	1.24	1.24	1.24	74.2	111
16-Apr-10	10:15	Fine	286.7	768.7	2.8431	2.8508	0.0077	80.1	81.1	1.0	1.24	1.24	1.24	74.1	104
16-Apr-10	11:15	Fine	287.1	768.3	2.8069	2.8138	0.0069	82.1	83.1	1.0	1.23	1.23	1.23	74.1	93
17-Apr-10	09:15	Cloudy	291.0	768.4	2.8550	2.8616	0.0066	84.1	85.1	1.0	1.23	1.23	1.23	73.6	90
17-Apr-10	10:15	Cloudy	291.4	768.0	2.8377	2.8438	0.0061	86.1	87.1	1.0	1.23	1.23	1.23	73.5	83
17-Apr-10	11:15	Cloudy	291.8	767.6	2.8153	2.8211	0.0058	88.1	89.1	1.0	1.22	1.22	1.22	73.5	79
18-Apr-10	09:15	Cloudy	291.4	766.2	2.8035	2.8087	0.0052	90.1	91.1	1.0	1.22	1.22	1.22	73.5	71
18-Apr-10	10:15	Cloudy	291.8	765.8	2.8068	2.8118	0.0050	92.1	93.1	1.0	1.22	1.22	1.22	73.4	68
18-Apr-10	11:15	Cloudy	292.2	765.4	2.8845	2.8905	0.0060	94.1	95.1	1.0	1.22	1.22	1.22	73.3	82
19-Apr-10	09:15	Cloudy	293.6	763.1	2.8393	2.8510	0.0117	96.1	97.1	1.0	1.22	1.22	1.22	73.1	160
19-Apr-10	10:15	Cloudy	294.0	762.7	2.8436	2.8591	0.0155	98.1	99.1	1.0	1.22	1.22	1.22	73.0	212
19-Apr-10	11:15	Cloudy	294.4	762.3	2.8409	2.8545	0.0136	100.1	101.1	1.0	1.22	1.22	1.22	72.9	186
20-Apr-10	09:15	Cloudy	294.5	761.9	3.2805	3.2893	0.0088	102.1	103.1	1.0	1.22	1.22	1.22	72.9	121
20-Apr-10	10:15	Cloudy	294.9	761.5	3.4119	3.4201	0.0082	104.1	105.1	1.0	1.21	1.21	1.21	72.9	113
20-Apr-10	11:15	Cloudy	295.3	761.1	3.3008	3.3049	0.0041	106.1	107.1	1.0	1.21	1.21	1.21	72.8	56
21-Apr-10	09:15	Sunny	298.4	761.4	2.8720	2.8844	0.0124	108.1	109.1	1.0	1.21	1.21	1.21	72.5	171
21-Apr-10	10:15	Sunny	298.8	760.9	2.8117	2.8236	0.0119	110.1	111.1	1.0	1.21	1.21	1.21	72.4	164
21-Apr-10	11:15	Sunny	299.2	760.5	3.4011	3.4122	0.0111	112.1	113.1	1.0	1.21	1.21	1.21	72.3	153
22-Apr-10	09:15	Cloudy	299.4	760.2	3.3784	3.3889	0.0105	114.1	115.1	1.0	1.20	1.20	1.20	72.3	145
22-Apr-10	10:15	Cloudy	299.8	759.8	3.2240	3.2375	0.0135	116.1	117.1	1.0	1.20	1.20	1.20	72.2	187
22-Apr-10	11:15	Cloudy	300.2	759.4	3.2136	3.2294	0.0158	118.1	119.1	1.0	1.20	1.20	1.20	72.2	219
														Min	56
														Max	219
														Average	132

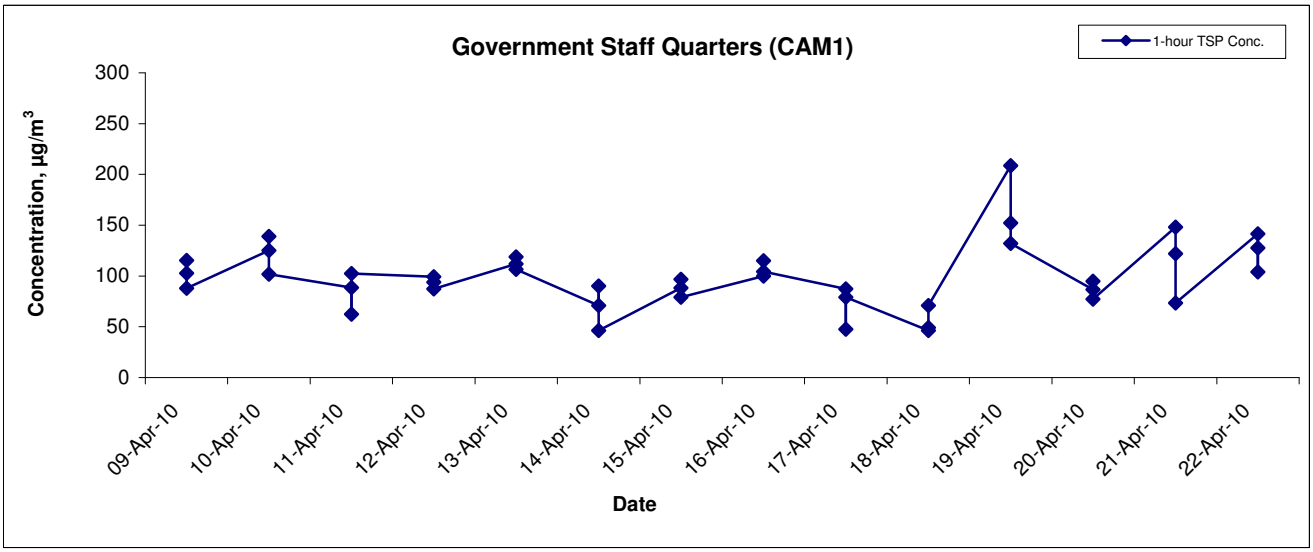
Appendix A2 - 1-hour TSP Baseline Monitoring Results

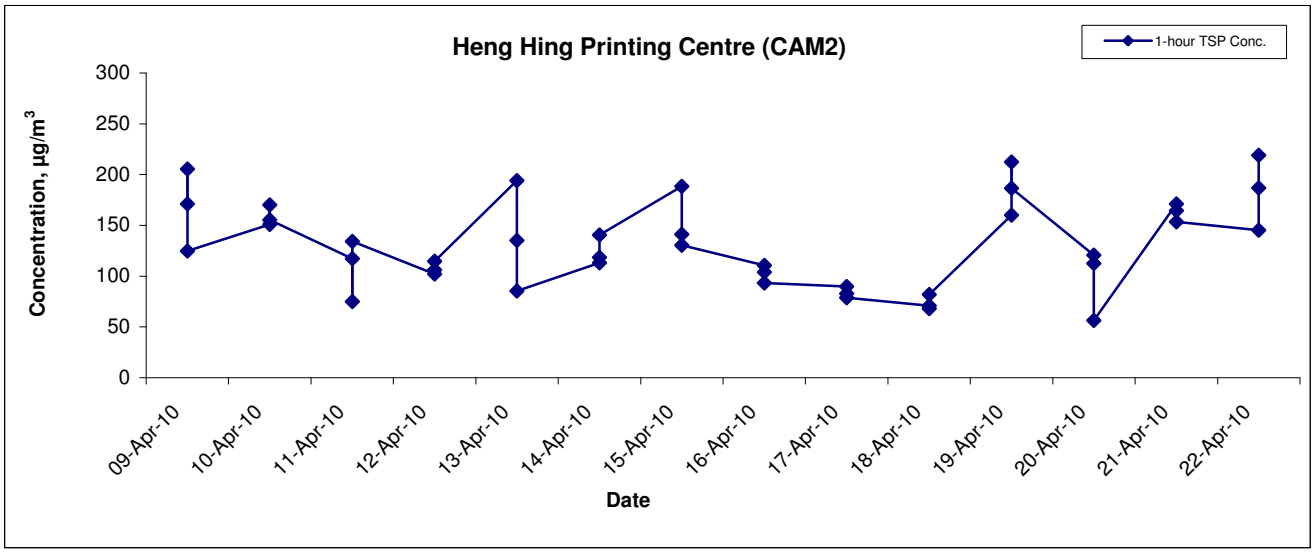
Station CAM3 **Talcon Industrial Ltd**

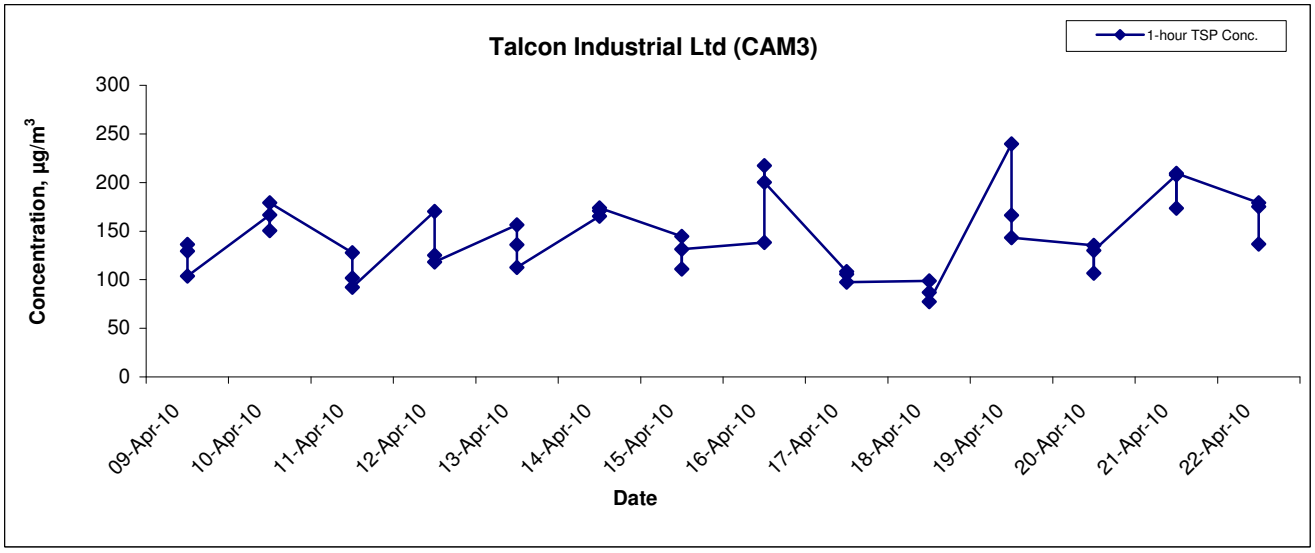
Date	Sampling Time	Weather Condition	Air Temp. (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Elapse Time		Sampling Time(hrs.)	Flow Rate (m^3/min.)		Av. flow (m^3/min)	Total vol. (m^3)	Conc. ($\mu g/m^3$)
					Initial	Final		Initial	Final		Initial	Final			
9-Apr-10	09:25	Fine	293.6	763.9	3.3010	3.3110	0.0100	113.7	114.7	1.0	1.22	1.22	1.22	73.4	136
9-Apr-10	10:25	Fine	294.0	763.5	3.2748	3.2843	0.0095	115.7	116.7	1.0	1.22	1.22	1.22	73.3	130
9-Apr-10	11:25	Fine	294.4	763.1	3.3960	3.4036	0.0076	117.7	118.7	1.0	1.22	1.22	1.22	73.3	104
10-Apr-10	09:25	Cloudy	294.5	762.0	3.1616	3.1738	0.0122	119.7	120.7	1.0	1.22	1.22	1.22	73.2	167
10-Apr-10	10:25	Cloudy	294.9	761.6	3.2532	3.2642	0.0110	121.7	122.7	1.0	1.22	1.22	1.22	73.1	150
10-Apr-10	11:25	Cloudy	295.3	761.2	3.1624	3.1755	0.0131	123.7	124.7	1.0	1.22	1.22	1.22	73.1	179
11-Apr-10	09:25	Fine	298.4	761.4	3.3348	3.3441	0.0093	125.7	126.7	1.0	1.21	1.21	1.21	72.7	128
11-Apr-10	10:25	Fine	298.8	760.9	3.2974	3.3048	0.0074	127.7	128.7	1.0	1.21	1.21	1.21	72.6	102
11-Apr-10	11:25	Fine	299.2	760.5	3.3300	3.3367	0.0067	129.7	130.7	1.0	1.21	1.21	1.21	72.6	92
12-Apr-10	09:25	Sunny	296.9	760.4	3.3096	3.3220	0.0124	131.7	132.7	1.0	1.21	1.21	1.21	72.9	170
12-Apr-10	10:25	Sunny	297.3	760.0	3.3187	3.3278	0.0091	133.7	134.7	1.0	1.21	1.21	1.21	72.8	125
12-Apr-10	11:25	Sunny	297.7	759.6	3.3075	3.3161	0.0086	135.7	136.7	1.0	1.21	1.21	1.21	72.7	118
13-Apr-10	13:25	Cloudy	297.8	763.4	3.1379	3.1493	0.0114	137.7	138.7	1.0	1.21	1.21	1.21	72.9	156
13-Apr-10	14:25	Cloudy	298.2	763.0	3.2261	3.2360	0.0099	139.7	140.7	1.0	1.21	1.21	1.21	72.8	136
13-Apr-10	15:25	Cloudy	298.6	762.6	3.2123	3.2205	0.0082	141.7	142.7	1.0	1.21	1.21	1.21	72.8	113
14-Apr-10	09:25	Cloudy	291.4	766.3	3.1551	3.1673	0.0122	143.7	144.7	1.0	1.23	1.23	1.23	73.8	165
14-Apr-10	10:25	Cloudy	291.8	765.9	3.2085	3.2211	0.0126	145.7	146.7	1.0	1.23	1.23	1.23	73.7	171
14-Apr-10	11:25	Cloudy	292.2	765.5	3.1873	3.2001	0.0128	147.7	148.7	1.0	1.23	1.23	1.23	73.7	174
15-Apr-10	13:25	Cloudy	289.3	766.2	3.3125	3.3232	0.0107	149.7	150.7	1.0	1.23	1.23	1.23	74.0	145
15-Apr-10	14:25	Cloudy	289.7	765.8	3.2856	3.2938	0.0082	151.7	152.7	1.0	1.23	1.23	1.23	74.0	111
15-Apr-10	15:25	Cloudy	290.1	765.4	3.4029	3.4126	0.0097	153.7	154.7	1.0	1.23	1.23	1.23	73.9	131
16-Apr-10	09:25	Fine	286.3	769.1	3.4200	3.4303	0.0103	155.7	156.7	1.0	1.24	1.24	1.24	74.6	138
16-Apr-10	10:25	Fine	286.7	768.7	3.3822	3.3984	0.0162	157.7	158.7	1.0	1.24	1.24	1.24	74.5	217
16-Apr-10	11:25	Fine	287.1	768.3	3.3855	3.4004	0.0149	159.7	160.7	1.0	1.24	1.24	1.24	74.4	200
17-Apr-10	09:25	Cloudy	291.0	768.4	3.3577	3.3657	0.0080	161.7	162.7	1.0	1.23	1.23	1.23	73.9	108
17-Apr-10	10:25	Cloudy	291.4	768.0	3.3828	3.3906	0.0078	163.7	164.7	1.0	1.23	1.23	1.23	73.9	106
17-Apr-10	11:25	Cloudy	291.8	767.6	3.3790	3.3862	0.0072	165.7	166.7	1.0	1.23	1.23	1.23	73.8	98
18-Apr-10	09:25	Cloudy	291.4	766.2	3.3643	3.3716	0.0073	167.7	168.7	1.0	1.23	1.23	1.23	73.8	99
18-Apr-10	10:25	Cloudy	291.8	765.8	3.3676	3.3740	0.0064	169.7	170.7	1.0	1.23	1.23	1.23	73.7	87
18-Apr-10	11:25	Cloudy	292.2	765.4	3.4103	3.4160	0.0057	171.7	172.7	1.0	1.23	1.23	1.23	73.6	77
19-Apr-10	09:25	Cloudy	293.6	763.1	3.4176	3.4352	0.0176	173.7	174.7	1.0	1.22	1.22	1.22	73.4	240
19-Apr-10	10:25	Cloudy	294.0	762.7	3.4096	3.4218	0.0122	175.7	176.7	1.0	1.22	1.22	1.22	73.3	166
19-Apr-10	11:25	Cloudy	294.4	762.3	3.3971	3.4076	0.0105	177.7	178.7	1.0	1.22	1.22	1.22	73.2	143
20-Apr-10	09:25	Cloudy	294.5	761.9	3.3724	3.3823	0.0099	179.7	180.7	1.0	1.22	1.22	1.22	73.2	135
20-Apr-10	10:25	Cloudy	294.9	761.5	3.3683	3.3761	0.0078	181.7	182.7	1.0	1.22	1.22	1.22	73.1	107
20-Apr-10	11:25	Cloudy	295.3	761.1	3.2555	3.2650	0.0095	183.7	184.7	1.0	1.22	1.22	1.22	73.1	130
21-Apr-10	09:25	Sunny	298.4	761.4	3.4075	3.4226	0.0151	185.7	186.7	1.0	1.21	1.21	1.21	72.7	208
21-Apr-10	10:25	Sunny	298.8	760.9	3.4028	3.4154	0.0126	187.7	188.7	1.0	1.21	1.21	1.21	72.6	173
21-Apr-10	11:25	Sunny	299.2	760.5	3.4013	3.4165	0.0152	189.7	190.7	1.0	1.21	1.21	1.21	72.6	209
22-Apr-10	09:25	Cloudy	299.4	760.2	3.3741	3.3871	0.0130	191.7	192.7	1.0	1.21	1.21	1.21	72.5	179
22-Apr-10	10:25	Cloudy	299.8	759.8	3.3826	3.3953	0.0127	193.7	194.7	1.0	1.21	1.21	1.21	72.5	175
22-Apr-10	11:25	Cloudy	300.2	759.4	3.1541	3.1640	0.0099	195.7	196.7	1.0	1.21	1.21	1.21	72.4	137
														Min	77
														Max	240
														Average	144

APPENDIX A3
GRAPHICAL PRESENTATION OF BASELINE 1-HOUR TSP LEVELS

1-hr TSP Concentration Levels







Title: Tai Po Sewage Treatment Works, Stage V, Phase IIB Graphical Presentation of 1-hour TSP Impact Monitoring Results	Scale: N.T.S Date: Apr 10	Project No.: MA10069 Appendix: A3	CINOTECH

APPENDIX A4
24-HOUR TSP BASELINE MONITORING RESULTS

Appendix A4 - 24-hour TSP Monitoring Results

Station CAM1 **Government Staff Quarters**

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^3/min.)		Av. flow (m^3/min)	Total vol. (m^3)	Conc. ($\mu g/m^3$)
				Initial	Final		Initial	Final		Initial	Final			
9-Apr-10	Fine	293.6	763.9	2.7998	2.8961	0.0963	13658.1	13682.1	24.0	1.20	1.20	1.20	1731.7	56
10-Apr-10	Cloudy	294.5	762.0	2.8506	2.9950	0.1444	13682.1	13706.1	24.0	1.20	1.20	1.20	1727.3	84
11-Apr-10	Fine	298.4	761.4	2.8398	2.9154	0.0756	13706.1	13730.1	24.0	1.19	1.19	1.19	1716.5	44
12-Apr-10	Sunny	297.1	760.2	3.3590	3.4385	0.0795	13731.1	13755.1	24.0	1.19	1.19	1.19	1718.7	46
13-Apr-10	Cloudy	298.0	763.2	3.4528	3.5347	0.0819	13755.1	13779.1	24.0	1.19	1.19	1.19	1719.4	48
14-Apr-10	Cloudy	291.8	765.9	3.3565	3.4469	0.0904	13780.1	13804.1	24.0	1.21	1.21	1.21	1738.5	52
15-Apr-10	Cloudy	290.0	765.5	3.2074	3.2985	0.0911	13805.1	13829.1	24.0	1.21	1.21	1.21	1743.0	52
16-Apr-10	Fine	292.9	766.0	3.2909	3.4928	0.2019	13829.1	13853.1	24.0	1.21	1.21	1.21	1735.7	116
17-Apr-10	Cloudy	295.1	764.5	2.8489	3.0025	0.1536	13853.1	13877.1	24.0	1.20	1.20	1.20	1728.3	89
18-Apr-10	Cloudy	296.0	763.6	2.8617	2.9390	0.0773	13877.1	13901.1	24.0	1.20	1.20	1.20	1725.0	45
19-Apr-10	Cloudy	294.5	762.1	3.4120	3.4792	0.0672	13901.1	13925.1	24.0	1.20	1.20	1.20	1727.4	39
20-Apr-10	Cloudy	297.6	760.6	2.8427	2.9482	0.1055	13926.1	13950.1	24.0	1.19	1.19	1.19	1717.8	61
21-Apr-10	Sunny	299.9	760.0	3.3517	3.4763	0.1246	13951.1	13975.1	24.0	1.19	1.19	1.19	1711.3	73
22-Apr-10	Cloudy	295.5	759.9	3.4076	3.5304	0.1228	13976.1	14000.1	24.0	1.20	1.20	1.20	1722.6	71
													Min	39
													Max	116
													Average	63

Station CAM2 **Heng Hing Printing Centre**

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^3/min.)		Av. flow (m^3/min)	Total vol. (m^3)	Conc. ($\mu g/m^3$)
				Initial	Final		Initial	Final		Initial	Final			
9-Apr-10	Fine	293.6	763.9	2.8652	2.9406	0.0754	22835.2	22859.2	24.0	1.23	1.23	1.23	1765.2	43
10-Apr-10	Cloudy	294.5	762.0	3.2393	3.3489	0.1096	22859.2	22883.2	24.0	1.22	1.22	1.22	1760.6	62
11-Apr-10	Fine	298.4	761.4	2.8631	2.9447	0.0816	22883.2	22907.2	24.0	1.22	1.21	1.21	1749.2	47
12-Apr-10	Sunny	297.1	760.2	3.3216	3.4099	0.0883	22908.2	22932.2	24.0	1.22	1.22	1.22	1751.5	50
13-Apr-10	Cloudy	298.0	763.2	3.4627	3.5547	0.0920	22932.2	22956.2	24.0	1.22	1.22	1.22	1752.3	53
14-Apr-10	Cloudy	291.8	765.9	3.3410	3.4711	0.1301	22957.2	22981.2	24.0	1.23	1.23	1.23	1772.5	73
15-Apr-10	Cloudy	290.0	765.5	2.7994	2.8967	0.0973	22982.2	23006.2	24.0	1.23	1.23	1.23	1777.2	55
16-Apr-10	Fine	292.9	766.0	2.8497	3.0644	0.2147	23006.2	23030.2	24.0	1.23	1.23	1.23	1769.5	121
17-Apr-10	Cloudy	295.1	764.5	2.8480	3.0764	0.2284	23030.2	23054.2	24.0	1.22	1.22	1.22	1761.7	130
18-Apr-10	Cloudy	296.0	763.6	2.8752	3.0182	0.1430	23054.2	23078.2	24.0	1.22	1.22	1.22	1758.2	81
19-Apr-10	Cloudy	294.5	762.1	3.3867	3.4958	0.1091	23078.2	23102.2	24.0	1.22	1.22	1.22	1760.7	62
20-Apr-10	Cloudy	297.6	760.6	2.8899	2.9884	0.0985	23103.2	23127.2	24.0	1.22	1.22	1.22	1750.6	56
21-Apr-10	Sunny	299.9	760.0	3.3971	3.5841	0.1870	23128.2	23152.2	24.0	1.21	1.21	1.21	1743.7	107
22-Apr-10	Cloudy	295.5	759.9	3.3838	3.4974	0.1136	23153.2	23177.2	24.0	1.22	1.22	1.22	1755.6	65
													Min	43
													Max	130
													Average	72

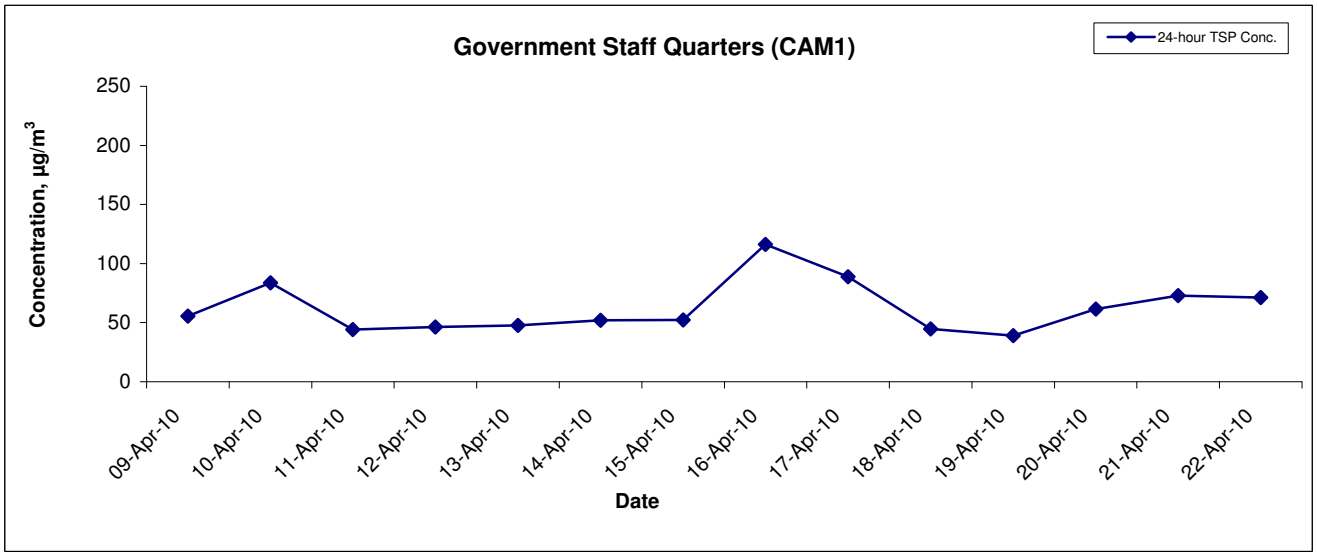
Appendix A4 - 24-hour TSP Monitoring Results

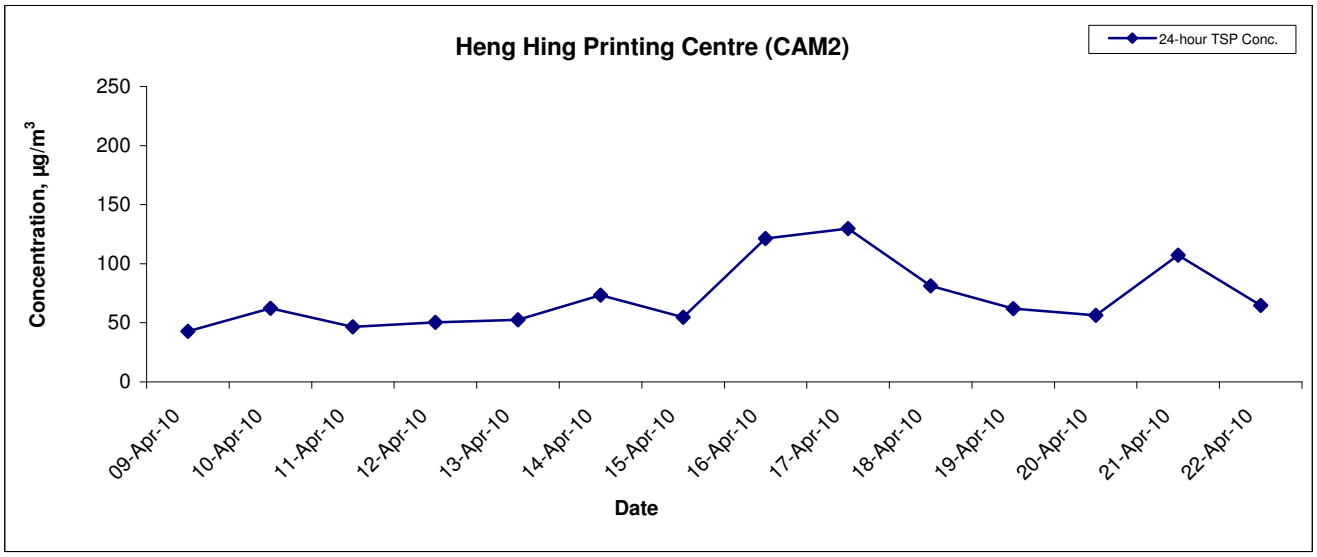
Station CAM3 **Talcon Industrial Ltd**

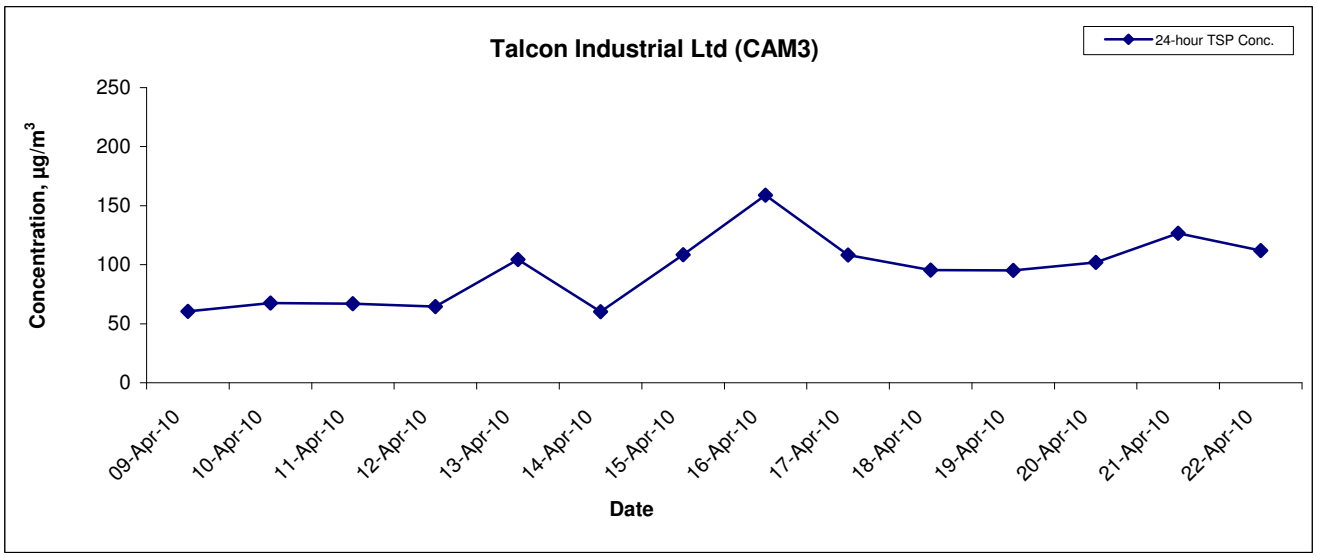
Start Date	Weather Condition	Air Temp. (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Elapse Time		Sampling Time(hrs.)	Flow Rate (m^3/min.)		Av. flow (m^3/min)	Total vol. (m^3)	Conc. ($\mu g/m^3$)
				Initial	Final		Initial	Final		Initial	Final			
9-Apr-10	Fine	293.6	763.9	2.8403	2.9464	0.1061	16098.9	16122.9	24.0	1.22	1.22	1.22	1758.2	60
10-Apr-10	Cloudy	294.5	762.0	2.7812	2.8997	0.1185	16122.9	16146.9	24.0	1.22	1.22	1.22	1753.6	68
11-Apr-10	Fine	298.4	761.4	2.8861	3.0026	0.1165	16146.9	16170.9	24.0	1.21	1.21	1.21	1742.4	67
12-Apr-10	Sunny	297.1	760.2	3.2999	3.4123	0.1124	16171.9	16195.9	24.0	1.21	1.21	1.21	1744.7	64
13-Apr-10	Cloudy	298.0	763.2	3.4326	3.6150	0.1824	16195.9	16219.9	24.0	1.21	1.21	1.21	1745.4	105
14-Apr-10	Cloudy	291.8	765.9	3.2655	3.3719	0.1064	16220.9	16244.9	24.0	1.23	1.23	1.23	1765.3	60
15-Apr-10	Cloudy	290.0	765.5	2.8930	3.0850	0.1920	16245.9	16269.9	24.0	1.23	1.23	1.23	1769.9	108
16-Apr-10	Fine	292.9	766.0	2.8233	3.1034	0.2801	16269.9	16293.9	24.0	1.22	1.22	1.22	1762.3	159
17-Apr-10	Cloudy	295.1	764.5	2.8210	3.0110	0.1900	16293.9	16317.9	24.0	1.22	1.22	1.22	1754.7	108
18-Apr-10	Cloudy	296.0	763.6	2.8195	2.9868	0.1673	16317.9	16341.9	24.0	1.22	1.22	1.22	1751.2	96
19-Apr-10	Cloudy	294.5	762.1	3.2280	3.3947	0.1667	16341.9	16365.9	24.0	1.22	1.22	1.22	1753.7	95
20-Apr-10	Cloudy	297.6	760.6	3.2796	3.4574	0.1778	16366.9	16390.9	24.0	1.21	1.21	1.21	1743.8	102
21-Apr-10	Sunny	299.9	760.0	3.2004	3.4205	0.2201	16391.9	16415.9	24.0	1.21	1.21	1.21	1737.0	127
22-Apr-10	Cloudy	295.5	759.9	3.2161	3.4118	0.1957	16416.9	16440.9	24.0	1.21	1.21	1.21	1748.7	112
													Min	60
													Max	159
													Average	95

APPENDIX A5
GRAPHICAL PRESENTATION OF BASELINE 24-HOUR TSP LEVELS

24-hr TSP Concentration Levels

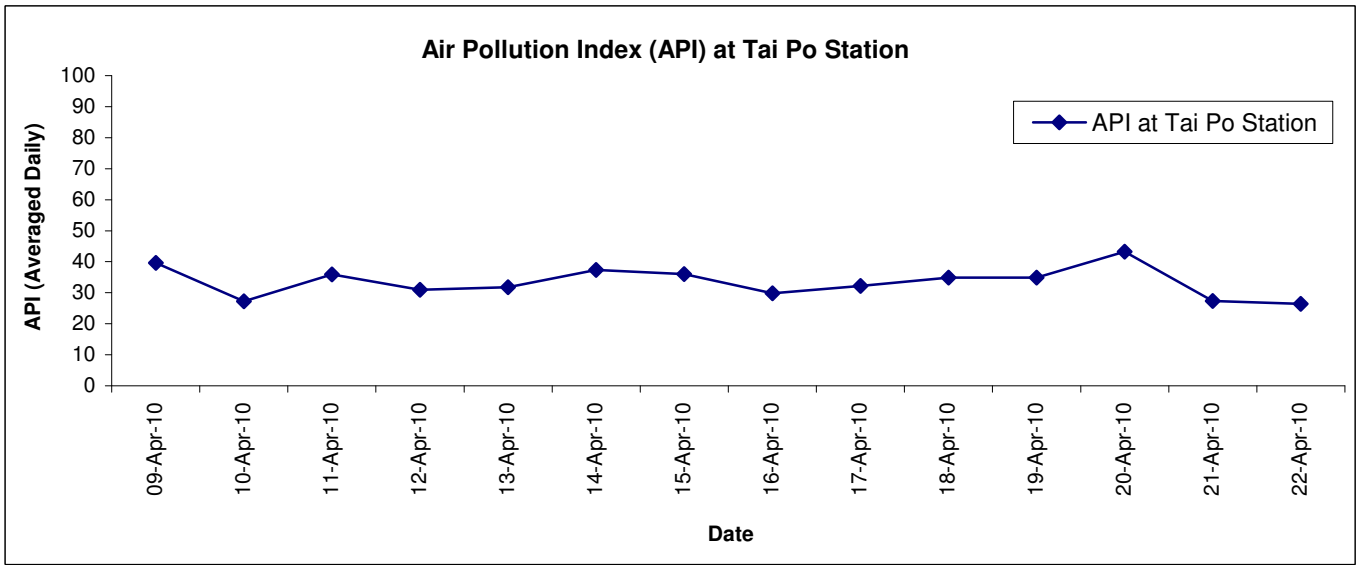






Title: Tai Po Sewage Treatment Works, Stage V, Phase IIB Graphical Presentation of 24-hour TSP Impact Monitoring Results	Scale: N.T.S Date: Apr 10	Project No.: MA10069 Appendix: A5	CINOTECH

APPENDIX A6
AIR POLLUTION INDEX AT TAI PO MONITORING STATION DURING THE BASELINE MONITORING PERIOD



Date	API at Tai Po Station (Average of Hourly API Data Reported by EPD)
09-Apr-10	39.6
10-Apr-10	27.2
11-Apr-10	35.9
12-Apr-10	31.0
13-Apr-10	31.8
14-Apr-10	37.3
15-Apr-10	36.0
16-Apr-10	29.9
17-Apr-10	32.2
18-Apr-10	34.8
19-Apr-10	34.8
20-Apr-10	43.3
21-Apr-10	27.4
22-Apr-10	26.4

Title	Scale	Project No.	
Tai Po Sewage Treatment Work , Stage V, Phase IIB	N.T.S	MA10069	CINOTECH
Air Pollution Index at Tai Po Monitoring Station during the Baseline Monitoring Period	Date: April 10	Appendix: A6	

APPENDIX B1
COPIES OF CALIBRATION CERTIFICATES FOR NOISE MONITORING EQUIPMENT

WELLAB 匯
Testing and Research 力

Room 1516 & 816, Technology Park
18 On Lai Street, Shatin, N.T., Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website: http://www.wellab.com.hk
E-mail: wellab@wellab.com.hk

TEST REPORT

APPLICANT:	**Cinotech Consultants Limited** **Room 1710, Technology Park,** **18 On Lai Street,** **Shatin, NT, Hong Kong**	Test Report No.: Date of Issue: Date Received: Date Tested: Date Completed: Next Due Date:	C/N/90925/3 2009-09-25 2009-09-24 2009-09-24 2009-09-25 2010-09-24
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.	: 12563
Microphone No.	: 34377
Equipment No.	: N-08-03

Test conditions:

Room Temperatre	: 23 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

WELLAB 匯
Testing and Research 力

Room 1516 & 816, Technology Park
18 On Lai Street, Shatin, N.T., Hong Kong
Tel 2898 7388 Fax 2898 7076
Website: http://www.wellab.com.hk
E-mail: wellab@wellab.com.hk

TEST REPORT

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

Test Report No.:	C/N/90925/2
Date of Issue:	2009-09-25
Date Received:	2009-09-24
Date Tested:	2009-09-24
Date Completed:	2009-09-25
Next Due Date:	2010-09-24
Page:	1 of 1

ATTN: **Mr. Henry Leung**

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	: 58%

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

PATRICK TSE
Laboratory Manager

WELLAB 匯
Testing and Research 力

Rms 816, 1516 & 1701, Technology Park
18 On Lai Street, Shatin, N.T., Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: http://www.wellab.com.hk
E-mail: wellab@wellab.com.hk

TEST REPORT

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

ATTN: **Mr. Henry Leung**

Test Report No.:	C/09/90430
Date of Issue:	2009-05-02
Date Received:	2009-04-30
Date Tested:	2009-04-30
Date Completed:	2009-05-01
Next Due Date:	2010-05-01
Page:	1 of 1

Certificate of Calibration

Item for calibration:

Description	: RS232 Integral Vane Digital Anemometer
Manufacturer	: AZ Instrument
Model No.	: 451104
Serial No.	: 9020746
Equipment No.	: A-03-01

Test conditions:

Room Temperature	: 21 degree Celsius
Relative Humidity	: 67%
Pressure	: 101.5 kPa

Methodology:

The anemometer 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:

	Reference Set Point	Instrument Readings
Measuring Air Velocity, m/s	2.00	2.00
Temperature, °C	21.0	21.0

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
Laboratory Manager

APPENDIX B2
DAY-TIME 07:00-19:00HRS BASELINE NOISE MONITORING DATA

Appendix B2

Day-time Noise Level at NM1 (Government Staff Quarters)

	Noise Level for 30-min, dB(A)			
Date	Time	Leq	L10	L90
9-Apr-10	07:00:00	62.4	64.4	59.2
9-Apr-10	07:30:00	63.2	64.9	60.1
9-Apr-10	08:00:00	63.0	64.9	59.8
9-Apr-10	08:30:00	63.3	65.3	60.1
9-Apr-10	09:00:00	63.2	65.3	59.9
9-Apr-10	09:30:00	64.0	65.4	60.7
9-Apr-10	10:00:00	63.4	65.3	60.6
9-Apr-10	10:30:00	63.4	65.2	60.6
9-Apr-10	11:00:00	63.6	65.3	60.4
9-Apr-10	11:30:00	63.4	65.3	60.6
9-Apr-10	12:00:00	63.3	65.3	60.2
9-Apr-10	12:30:00	63.1	65.0	60.3
9-Apr-10	13:00:00	63.7	65.6	60.9
9-Apr-10	13:30:00	63.1	64.7	60.5
9-Apr-10	14:00:00	63.4	65.4	60.3
9-Apr-10	14:30:00	63.3	65.3	60.3
9-Apr-10	15:00:00	64.1	65.9	60.6
9-Apr-10	15:30:00	63.6	65.5	60.6
9-Apr-10	16:00:00	64.0	65.8	61.1
9-Apr-10	16:30:00	63.9	65.5	61.3
9-Apr-10	17:00:00	64.1	65.9	61.4
9-Apr-10	17:30:00	64.0	65.6	61.5
9-Apr-10	18:00:00	64.3	66.1	61.4
9-Apr-10	18:30:00	63.8	65.5	61.3
	Mean	63.5	65.4	60.6
	Maximum	64.3	66.1	61.5
	Minimum	62.4	64.4	59.2

	Noise Level for 30-min, dB(A)			
Date	Time	Leq	L10	L90
10-Apr-10	07:00:00	63.8	65.8	60.7
10-Apr-10	07:30:00	64.7	66.5	61.8
10-Apr-10	08:00:00	64.7	66.5	62.1
10-Apr-10	08:30:00	65.3	67.1	62.6
10-Apr-10	09:00:00	65.4	67.0	62.8
10-Apr-10	09:30:00	66.0	67.9	63.0
10-Apr-10	10:00:00	65.2	67.0	62.3
10-Apr-10	10:30:00	66.0	68.2	62.7
10-Apr-10	11:00:00	65.1	66.9	62.0
10-Apr-10	11:30:00	64.7	66.4	61.9
10-Apr-10	12:00:00	64.5	66.2	61.6
10-Apr-10	12:30:00	64.7	66.4	62.0
10-Apr-10	13:00:00	65.5	67.4	62.7
10-Apr-10	13:30:00	65.3	67.0	62.2
10-Apr-10	14:00:00	65.2	66.9	62.3
10-Apr-10	14:30:00	65.3	67.2	62.5
10-Apr-10	15:00:00	65.3	67.1	62.3
10-Apr-10	15:30:00	65.3	67.0	62.4
10-Apr-10	16:00:00	65.5	67.1	62.7
10-Apr-10	16:30:00	65.3	67.0	62.6
10-Apr-10	17:00:00	65.2	66.8	62.5
10-Apr-10	17:30:00	65.0	66.8	62.3
10-Apr-10	18:00:00	64.4	65.9	62.1
10-Apr-10	18:30:00	63.8	65.3	61.2
	Mean	65.1	66.9	62.3
	Maximum	66.0	68.2	63.0
	Minimum	63.8	65.3	60.7

	Noise Level for 30-min, dB(A)			
Date	Time	Leq	L10	L90
12-Apr-10	07:00:00	62.1	64.3	58.4
12-Apr-10	07:30:00	63.0	65.0	59.5
12-Apr-10	08:00:00	63.0	65.2	59.5
12-Apr-10	08:30:00	62.8	64.8	59.6
12-Apr-10	09:00:00	63.2	65.3	59.8
12-Apr-10	09:30:00	63.1	65.0	60.3
12-Apr-10	10:00:00	63.2	65.1	60.2
12-Apr-10	10:30:00	63.1	65.0	60.1
12-Apr-10	11:00:00	63.2	65.1	60.2
12-Apr-10	11:30:00	63.0	64.9	59.9
12-Apr-10	12:00:00	63.3	65.1	60.3
12-Apr-10	12:30:00	63.1	65.1	60.0
12-Apr-10	13:00:00	63.3	65.1	60.2
12-Apr-10	13:30:00	63.2	65.0	60.2
12-Apr-10	14:00:00	63.5	65.2	60.5
12-Apr-10	14:30:00	63.4	65.3	60.3
12-Apr-10	15:00:00	63.3	65.1	60.5
12-Apr-10	15:30:00	63.6	65.4	60.5
12-Apr-10	16:00:00	63.6	65.3	60.8
12-Apr-10	16:30:00	64.1	66.0	61.2
12-Apr-10	17:00:00	63.9	65.5	61.1
12-Apr-10	17:30:00	63.8	65.4	61.3
12-Apr-10	18:00:00	63.6	65.3	61.0
12-Apr-10	18:30:00	63.4	65.1	60.8
	Mean	63.3	65.2	60.3
	Maximum	64.1	66.0	61.3
	Minimum	62.1	64.3	58.4

	Noise Level for 30-min, dB(A)			
Date	Time	Leq	L10	L90
13-Apr-10	07:00:00	64.8	66.3	62.2
13-Apr-10	07:30:00	65.1	66.7	62.8
13-Apr-10	08:00:00	65.2	67.0	62.7
13-Apr-10	08:30:00	65.5	67.1	62.9
13-Apr-10	09:00:00	65.3	67.0	62.6
13-Apr-10	09:30:00	65.2	67.1	62.2
13-Apr-10	10:00:00	64.8	66.7	61.8
13-Apr-10	10:30:00	65.9	67.9	62.4
13-Apr-10	11:00:00	65.2	67.1	62.0
13-Apr-10	11:30:00	64.8	66.7	61.6
13-Apr-10	12:00:00	63.9	65.8	60.6
13-Apr-10	12:30:00	64.2	66.3	60.9
13-Apr-10	13:00:00	64.5	66.4	61.4
13-Apr-10	13:30:00	64.7	66.6	61.6
13-Apr-10	14:00:00	65.0	66.9	61.6
13-Apr-10	14:30:00	64.9	66.9	61.8
13-Apr-10	15:00:00	64.8	66.5	61.7
13-Apr-10	15:30:00	65.2	67.1	62.5
13-Apr-10	16:00:00	65.1	66.9	62.3
13-Apr-10	16:30:00	65.5	67.3	62.8
13-Apr-10	17:00:00	65.2	66.9	62.9
13-Apr-10	17:30:00	65.4	66.9	63.0
13-Apr-10	18:00:00	64.8	66.2	62.7
13-Apr-10	18:30:00	64.3	65.8	62.1
	Mean	65.0	66.8	62.2
	Maximum	65.9	67.9	63.0
	Minimum	63.9	65.8	60.6

	Noise Level for 30-min, dB(A)			
Date	Time	Leq	L10	L90
14-Apr-10	07:00:00	64.6	66.2	62.3
14-Apr-10	07:30:00	65.2	66.9	62.9
14-Apr-10	08:00:00	65.2	66.8	62.7
14-Apr-10	08:30:00	64.9	66.7	62.2
14-Apr-10	09:00:00	65.3	67.3	62.4
14-Apr-10	09:30:00	65.1	67.1	62.5
14-Apr-10	10:00:00	64.9	66.7	62.3
14-Apr-10	10:30:00	65.1	67.0	62.1
14-Apr-10	11:00:00	65.1	67.1	62.1
14-Apr-10	11:30:00	64.5	66.4	61.2
14-Apr-10	12:00:00	64.0	65.9	60.8
14-Apr-10	12:30:00	63.7	65.0	62.3
14-Apr-10	13:00:00	64.5	64.4	66.4
14-Apr-10	13:30:00	64.4	64.3	66.2
14-Apr-10	14:00:00	64.3	64.1	66.0
14-Apr-10	14:30:00	64.9	65.8	65.1
14-Apr-10	15:00:00	64.8	66.6	62.1
14-Apr-10	15:30:00	65.1	66.9	62.3
14-Apr-10	16:00:00	65.2	66.7	62.5
14-Apr-10	16:30:00	65.6	67.2	63.1
14-Apr-10	17:00:00	65.7	67.5	63.3
14-Apr-10	17:30:00	65.3	66.8	62.9
14-Apr-10	18:00:00	64.8	66.3	62.8
14-Apr-10	18:30:00	64.9	66.3	62.5
	Mean	64.9	66.4	63.2
	Maximum	65.7	67.5	66.4
	Minimum	63.7	64.1	60.8

	Noise Level for 30-min, dB(A)			
Date	Time	Leq	L10	L90
15-Apr-10	07:00:00	65.4	67.2	62.6
15-Apr-10	07:30:00	65.9	67.5	63.8
15-Apr-10	08:00:00	66.1	67.7	63.7
15-Apr-10	08:30:00	65.1	66.4	63.0
15-Apr-10	09:00:00	65.4	67.1	63.1
15-Apr-10	09:30:00	66.5	68.4	64.1
15-Apr-10	10:00:00	66.1	68.4	63.3
15-Apr-10	10:30:00	65.9	68.3	63.2
15-Apr-10	11:00:00	65.9	68.3	63.0
15-Apr-10	11:30:00	65.8	68.0	62.9
15-Apr-10	12:00:00	65.3	67.7	62.0
15-Apr-10	12:30:00	65.4	67.5	61.8
15-Apr-10	13:00:00	66.4	68.2	61.8
15-Apr-10	13:30:00	66.0	68.1	62.7
15-Apr-10	14:00:00	65.8	67.9	62.6
15-Apr-10	14:30:00	66.1	68.3	62.9
15-Apr-10	15:00:00	66.0	68.2	62.6
15-Apr-10	15:30:00	66.0	67.9	63.3
15-Apr-10	16:00:00	66.4	68.5	63.6
15-Apr-10	16:30:00	66.2	68.0	63.8
15-Apr-10	17:00:00	67.9	69.8	65.1
15-Apr-10	17:30:00	66.5	68.2	64.3
15-Apr-10	18:00:00	67.1	68.5	65.2
15-Apr-10	18:30:00	67.6	68.9	66.0
	Mean	66.2	68.1	63.5
	Maximum	67.9	69.8	66.0
	Minimum	65.1	66.4	61.8

	Noise Level for 30-min, dB(A)			
Date	Time	Leq	L10	L90
16-Apr-10	07:00:00	65.8	67.7	63.1
16-Apr-10	07:30:00	66.4	67.9	64.3
16-Apr-10	08:00:00	66.4	68.2	63.7
16-Apr-10	08:30:00	65.5	67.6	62.3
16-Apr-10	09:00:00	65.5	67.5	62.6
16-Apr-10	09:30:00	65.9	67.8	63.1
16-Apr-10	10:00:00	66.1	68.0	63.6
16-Apr-10	10:30:00	66.8	68.7	63.9
16-Apr-10	11:00:00	66.3	68.4	63.3
16-Apr-10	11:30:00	66.0	68.4	63.3
16-Apr-10	12:00:00	65.3	67.8	62.5
16-Apr-10	12:30:00	65.1	67.2	62.2
16-Apr-10	13:00:00	65.6	67.7	62.7
16-Apr-10	13:30:00	66.2	68.3	63.3
16-Apr-10	14:00:00	66.1	68.4	63.0
16-Apr-10	14:30:00	66.6	68.6	63.4
16-Apr-10	15:00:00	66.4	68.5	63.7
16-Apr-10	15:30:00	63.0	65.0	59.9
16-Apr-10	16:00:00	64.2	65.9	61.2
16-Apr-10	16:30:00	65.0	66.6	62.5
16-Apr-10	17:00:00	65.2	66.9	62.7
16-Apr-10	17:30:00	65.3	67.2	62.7
16-Apr-10	18:00:00	65.1	66.6	62.9
16-Apr-10	18:30:00	65.0	66.6	62.8
	Mean	65.7	67.7	62.9
	Maximum	66.8	68.7	64.3
	Minimum	63.0	65.0	59.9

	Noise Level for 30-min, dB(A)			
Date	Time	Leq	L10	L90
17-Apr-10	07:00:00	62.7	64.7	59.5
17-Apr-10	07:30:00	64.1	65.9	61.5
17-Apr-10	08:00:00	65.1	66.7	62.9
17-Apr-10	08:30:00	65.5	67.0	63.2
17-Apr-10	09:00:00	66.0	67.6	63.7
17-Apr-10	09:30:00	66.2	67.9	63.5
17-Apr-10	10:00:00	65.6	67.5	62.9
17-Apr-10	10:30:00	65.1	66.9	62.3
17-Apr-10	11:00:00	64.7	66.7	61.5
17-Apr-10	11:30:00	64.7	66.6	61.5
17-Apr-10	12:00:00	64.6	66.8	61.5
17-Apr-10	12:30:00	64.3	66.4	61.2
17-Apr-10	13:00:00	63.9	65.8	60.5
17-Apr-10	13:30:00	64.1	66.3	60.6
17-Apr-10	14:00:00	64.4	66.4	61.0
17-Apr-10	14:30:00	64.3	66.2	61.4
17-Apr-10	15:00:00	64.6	66.4	61.2
17-Apr-10	15:30:00	64.5	66.3	61.7
17-Apr-10	16:00:00	64.7	66.7	61.6
17-Apr-10	16:30:00	64.8	66.3	62.4
17-Apr-10	17:00:00	65.4	66.9	62.9
17-Apr-10	17:30:00	66.2	67.6	63.1
17-Apr-10	18:00:00	66.1	67.2	62.7
17-Apr-10	18:30:00	66.6	67.9	63.4
	Mean	65.0	66.7	62.1
	Maximum	66.6	67.9	63.7
	Minimum	62.7	64.7	59.5

	Noise Level for 30-min, dB(A)			
Date	Time	Leq	L10	L90
19-Apr-10	07:00:00	62.5	64.3	59.8
19-Apr-10	07:30:00	63.0	64.9	60.4
19-Apr-10	08:00:00	63.2	64.9	60.4
19-Apr-10	08:30:00	64.0	65.4	60.9
19-Apr-10	09:00:00	63.7	65.4	60.9
19-Apr-10	09:30:00	64.1	65.8	61.3
19-Apr-10	10:00:00	64.0	65.8	61.3
19-Apr-10	10:30:00	64.8	65.9	61.4
19-Apr-10	11:00:00	64.1	65.8	61.3
19-Apr-10	11:30:00	64.2	65.7	61.2
19-Apr-10	12:00:00	64.3	65.8	61.3
19-Apr-10	12:30:00	64.1	65.8	61.3
19-Apr-10	13:00:00	64.1	65.8	61.3
19-Apr-10	13:30:00	63.8	65.5	61.0
19-Apr-10	14:00:00	64.5	66.1	61.6
19-Apr-10	14:30:00	63.8	65.2	60.7
19-Apr-10	15:00:00	64.1	65.9	61.4
19-Apr-10	15:30:00	64.1	65.8	61.3
19-Apr-10	16:00:00	64.8	66.4	61.9
19-Apr-10	16:30:00	64.4	66.0	61.5
19-Apr-10	17:00:00	64.7	66.3	61.8
19-Apr-10	17:30:00	64.6	66.0	61.5
19-Apr-10	18:00:00	64.9	66.4	61.9
19-Apr-10	18:30:00	64.8	66.1	61.6
	Mean	64.1	65.7	61.2
	Maximum	64.9	66.4	61.9
	Minimum	62.5	64.3	59.8

	Noise Level for 30-min, dB(A)			
Date	Time	Leq	L10	L90
20-Apr-10	07:00:00	62.0	63.9	59.4
20-Apr-10	07:30:00	63.3	65.1	60.6
20-Apr-10	08:00:00	64.6	66.3	61.8
20-Apr-10	08:30:00	65.4	67.0	62.5
20-Apr-10	09:00:00	65.5	67.0	62.5
20-Apr-10	09:30:00	66.1	67.6	63.1
20-Apr-10	10:00:00	66.1	67.5	63.0
20-Apr-10	10:30:00	66.8	68.4	63.9
20-Apr-10	11:00:00	66.0	67.5	63.0
20-Apr-10	11:30:00	66.8	68.7	64.2
20-Apr-10	12:00:00	65.9	67.4	62.9
20-Apr-10	12:30:00	65.4	66.9	62.4
20-Apr-10	13:00:00	65.2	66.7	62.2
20-Apr-10	13:30:00	65.5	66.9	62.4
20-Apr-10	14:00:00	66.3	67.9	63.4
20-Apr-10	14:30:00	66.0	67.5	63.0
20-Apr-10	15:00:00	65.9	67.4	62.9
20-Apr-10	15:30:00	66.1	67.7	63.2
20-Apr-10	16:00:00	66.0	67.6	63.1
20-Apr-10	16:30:00	66.1	67.5	63.0
20-Apr-10	17:00:00	66.2	67.6	63.1
20-Apr-10	17:30:00	66.0	67.5	63.0
20-Apr-10	18:00:00	66.0	67.3	62.8
20-Apr-10	18:30:00	65.8	67.3	62.8
	Mean	65.7	67.3	62.8
	Maximum	66.8	68.7	64.2
	Minimum	62.0	63.9	59.4

	Noise Level for 30-min, dB(A)			
Date	Time	Leq	L10	L90
21-Apr-10	07:00:00	61.5	63.4	58.9
21-Apr-10	07:30:00	62.5	64.7	60.2
21-Apr-10	08:00:00	62.9	64.8	60.3
21-Apr-10	08:30:00	63.7	65.5	61.0
21-Apr-10	09:00:00	63.8	65.7	61.2
21-Apr-10	09:30:00	63.6	65.3	60.8
21-Apr-10	10:00:00	63.9	65.8	61.3
21-Apr-10	10:30:00	63.9	65.5	61.0
21-Apr-10	11:00:00	63.9	65.6	61.1
21-Apr-10	11:30:00	63.9	65.5	61.0
21-Apr-10	12:00:00	64.0	65.6	61.1
21-Apr-10	12:30:00	63.8	65.4	60.9
21-Apr-10	13:00:00	64.1	65.6	61.1
21-Apr-10	13:30:00	64.3	66.2	61.7
21-Apr-10	14:00:00	65.4	67.5	62.0
21-Apr-10	14:30:00	65.5	67.3	62.2
21-Apr-10	15:00:00	65.5	67.3	62.6
21-Apr-10	15:30:00	65.6	67.3	62.8
21-Apr-10	16:00:00	65.8	67.5	63.1
21-Apr-10	16:30:00	65.8	67.7	62.9
21-Apr-10	17:00:00	65.6	67.4	63.0
21-Apr-10	17:30:00	65.7	67.4	63.1
21-Apr-10	18:00:00	65.2	66.6	62.8
21-Apr-10	18:30:00	65.1	66.7	62.5
	Mean	64.5	66.3	61.7
	Maximum	65.8	67.7	63.1
	Minimum	61.5	63.4	58.9

	Noise Level for 30-min, dB(A)			
Date	Time	Leq	L10	L90
22-Apr-10	07:00:00	65.4	67.2	62.7
22-Apr-10	07:30:00	65.4	66.9	63.3
22-Apr-10	08:00:00	65.5	67.0	63.0
22-Apr-10	08:30:00	64.4	65.9	62.3
22-Apr-10	09:00:00	65.7	67.3	63.1
22-Apr-10	09:30:00	66.2	68.0	63.4
22-Apr-10	10:00:00	65.9	67.8	62.8
22-Apr-10	10:30:00	65.7	67.8	62.6
22-Apr-10	11:00:00	65.7	67.7	62.5
22-Apr-10	11:30:00	65.5	67.5	62.3
22-Apr-10	12:00:00	64.7	66.9	61.2
22-Apr-10	12:30:00	65.9	67.5	61.2
22-Apr-10	13:00:00	65.3	67.4	62.0
22-Apr-10	13:30:00	65.4	67.7	61.8
22-Apr-10	14:00:00	65.2	67.2	62.2
22-Apr-10	14:30:00	65.9	68.0	62.4
22-Apr-10	15:00:00	65.6	67.4	62.4
22-Apr-10	15:30:00	66.0	67.8	62.9
22-Apr-10	16:00:00	66.1	67.8	63.2
22-Apr-10	16:30:00	67.3	68.7	63.8
22-Apr-10	17:00:00	66.6	68.2	64.4
22-Apr-10	17:30:00	66.2	67.7	64.0
22-Apr-10	18:00:00	67.0	68.3	65.1
22-Apr-10	18:30:00	66.9	68.1	65.0
	Mean	65.9	67.6	63.0
	Maximum	67.3	68.7	65.1
	Minimum	64.4	65.9	61.2

Summary of Day Time Noise Level at NM1 (Government Staff Quarters)			
	Leq	L10	L90
Mean	64.8	66.5	62.0
Max	65.8	67.6	63.5
Min	62.8	64.6	59.8

APPENDIX B3
EVENING-TIME 19:00-23:00HRS AND HOLIDAYS 07:00-23:00HRS BASELINE NOISE MONITORING DATA

Appendix B3

Evening Time (19:00-23:00hrs) and Holiday (07:00-23:00hrs)Baseline Noise Level at NM1 (Government Staff Quarters)

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
9-Apr-10	19:00:00	62.6	63.1	58.5
9-Apr-10	19:05:00	60.4	61.0	58.0
9-Apr-10	19:10:00	62.5	63.6	58.0
9-Apr-10	19:15:00	61.2	62.1	58.5
9-Apr-10	19:20:00	62.3	63.1	59.5
9-Apr-10	19:25:00	63.1	64.6	59.5
9-Apr-10	19:30:00	60.9	61.0	58.5
9-Apr-10	19:35:00	59.6	60.0	58.5
9-Apr-10	19:40:00	59.9	60.5	58.5
9-Apr-10	19:45:00	60.4	61.0	59.0
9-Apr-10	19:50:00	60.9	62.6	59.0
9-Apr-10	19:55:00	61.2	62.1	59.0
9-Apr-10	20:00:00	60.6	61.0	59.0
9-Apr-10	20:05:00	60.0	60.5	59.0
9-Apr-10	20:10:00	60.3	60.5	59.0
9-Apr-10	20:15:00	59.8	60.5	59.0
9-Apr-10	20:20:00	60.2	60.5	59.0
9-Apr-10	20:25:00	59.9	60.0	59.0
9-Apr-10	20:30:00	59.3	59.5	58.5
9-Apr-10	20:35:00	59.2	59.5	58.5
9-Apr-10	20:40:00	59.3	60.0	58.5
9-Apr-10	20:45:00	59.5	60.0	58.5
9-Apr-10	20:50:00	59.4	60.0	58.5
9-Apr-10	20:55:00	59.6	60.0	59.0
9-Apr-10	21:00:00	59.6	60.0	59.0
9-Apr-10	21:05:00	59.6	60.0	59.0
9-Apr-10	21:10:00	59.5	60.0	59.0
9-Apr-10	21:15:00	59.2	59.5	58.5
9-Apr-10	21:20:00	59.0	59.5	58.0
9-Apr-10	21:25:00	58.9	59.5	58.0
9-Apr-10	21:30:00	59.0	59.5	58.0
9-Apr-10	21:35:00	58.9	59.5	58.0
9-Apr-10	21:40:00	59.0	59.5	58.5
9-Apr-10	21:45:00	59.1	59.5	58.5
9-Apr-10	21:50:00	59.0	59.5	58.5
9-Apr-10	21:55:00	59.2	59.5	58.5
9-Apr-10	22:00:00	59.6	60.0	59.0
9-Apr-10	22:05:00	59.5	60.0	59.0
9-Apr-10	22:10:00	59.3	59.5	58.5
9-Apr-10	22:15:00	59.7	60.0	59.0
9-Apr-10	22:20:00	59.6	60.0	59.0
9-Apr-10	22:25:00	59.5	60.0	59.0
9-Apr-10	22:30:00	59.9	60.5	59.0
9-Apr-10	22:35:00	60.1	60.5	59.0
9-Apr-10	22:40:00	59.8	60.5	59.0
9-Apr-10	22:45:00	59.6	60.0	59.0
9-Apr-10	22:50:00	59.8	60.5	59.0
9-Apr-10	22:55:00	59.7	60.0	59.0
	Mean	60.1	60.7	58.8
	Maximum	63.1	64.6	59.5
	Minimum	58.9	59.5	58.0

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
10-Apr-10	19:00:00	64.8	66.1	60.5
10-Apr-10	19:05:00	62.5	63.1	61.0
10-Apr-10	19:10:00	63.5	64.1	59.5
10-Apr-10	19:15:00	62.3	64.6	59.5
10-Apr-10	19:20:00	61.9	64.1	59.0
10-Apr-10	19:25:00	62.2	64.6	59.5
10-Apr-10	19:30:00	60.6	61.5	59.0
10-Apr-10	19:35:00	60.7	62.1	58.0
10-Apr-10	19:40:00	61.2	61.5	59.5
10-Apr-10	19:45:00	61.3	61.5	59.0
10-Apr-10	19:50:00	60.7	61.5	59.5
10-Apr-10	19:55:00	60.3	61.0	59.5
10-Apr-10	20:00:00	60.0	61.0	59.0
10-Apr-10	20:05:00	61.0	61.5	59.5
10-Apr-10	20:10:00	61.6	62.6	59.5
10-Apr-10	20:15:00	61.5	62.1	59.5
10-Apr-10	20:20:00	61.9	62.6	60.5
10-Apr-10	20:25:00	60.3	61.0	59.0
10-Apr-10	20:30:00	60.4	61.0	59.0
10-Apr-10	20:35:00	60.6	62.1	59.0
10-Apr-10	20:40:00	60.1	61.5	58.5
10-Apr-10	20:45:00	60.2	61.5	58.5
10-Apr-10	20:50:00	60.7	62.1	59.0
10-Apr-10	20:55:00	60.1	61.0	58.5
10-Apr-10	21:00:00	61.0	62.1	59.5
10-Apr-10	21:05:00	60.8	62.1	59.0
10-Apr-10	21:10:00	60.1	61.0	59.0
10-Apr-10	21:15:00	60.7	62.6	59.0
10-Apr-10	21:20:00	59.6	60.0	58.5
10-Apr-10	21:25:00	61.2	62.6	59.0
10-Apr-10	21:30:00	61.3	62.1	59.0
10-Apr-10	21:35:00	61.2	62.6	59.0
10-Apr-10	21:40:00	61.2	62.6	60.0
10-Apr-10	21:45:00	60.2	61.0	59.0
10-Apr-10	21:50:00	60.8	61.0	59.0
10-Apr-10	21:55:00	60.2	60.5	59.5
10-Apr-10	22:00:00	60.5	61.0	60.0
10-Apr-10	22:05:00	60.6	61.0	60.0
10-Apr-10	22:10:00	60.8	61.5	60.0
10-Apr-10	22:15:00	60.7	61.0	60.0
10-Apr-10	22:20:00	60.7	61.0	59.5
10-Apr-10	22:25:00	60.2	60.5	59.5
10-Apr-10	22:30:00	60.5	61.0	60.0
10-Apr-10	22:35:00	60.3	60.5	59.5
10-Apr-10	22:40:00	60.3	60.5	59.5
10-Apr-10	22:45:00	60.0	60.5	59.0
10-Apr-10	22:50:00	60.5	61.0	59.5
10-Apr-10	22:55:00	60.5	61.0	59.5
	Mean	61.1	62.0	59.4
	Maximum	64.8	66.1	61.0
	Minimum	59.6	60.0	58.0

Appendix B3

Evening Time (19:00-23:00hrs) and Holiday (07:00-23:00hrs)Baseline Noise Level at NM1 (Government Staff Quarters)

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
11-Apr-10	07:00:00	58.8	60.0	57.5
11-Apr-10	07:05:00	58.5	59.5	57.5
11-Apr-10	07:10:00	59.7	61.0	58.5
11-Apr-10	07:15:00	59.8	61.0	58.5
11-Apr-10	07:20:00	61.7	63.1	58.0
11-Apr-10	07:25:00	59.5	60.5	58.0
11-Apr-10	07:30:00	63.8	63.1	58.5
11-Apr-10	07:35:00	58.9	59.5	58.0
11-Apr-10	07:40:00	59.0	60.0	58.0
11-Apr-10	07:45:00	58.8	59.5	58.0
11-Apr-10	07:50:00	59.4	60.5	57.5
11-Apr-10	07:55:00	58.9	59.5	57.5
11-Apr-10	08:00:00	58.7	59.5	57.5
11-Apr-10	08:05:00	59.0	59.5	57.5
11-Apr-10	08:10:00	58.8	59.5	58.0
11-Apr-10	08:15:00	58.6	59.5	57.5
11-Apr-10	08:20:00	59.6	60.5	58.0
11-Apr-10	08:25:00	61.6	65.1	58.5
11-Apr-10	08:30:00	59.7	60.5	57.5
11-Apr-10	08:35:00	58.6	59.5	57.5
11-Apr-10	08:40:00	58.2	59.0	57.0
11-Apr-10	08:45:00	58.1	58.5	57.0
11-Apr-10	08:50:00	58.7	59.5	57.5
11-Apr-10	08:55:00	61.5	65.6	58.0
11-Apr-10	09:00:00	65.8	65.6	65.1
11-Apr-10	09:05:00	62.9	65.1	58.0
11-Apr-10	09:10:00	59.7	61.0	58.0
11-Apr-10	09:15:00	63.2	61.5	58.5
11-Apr-10	09:20:00	59.8	61.0	58.5
11-Apr-10	09:25:00	59.1	60.0	57.5
11-Apr-10	09:30:00	59.3	60.5	57.5
11-Apr-10	09:35:00	60.1	61.5	58.0
11-Apr-10	09:40:00	60.1	61.0	58.0
11-Apr-10	09:45:00	59.2	60.0	57.5
11-Apr-10	09:50:00	59.7	60.5	58.5
11-Apr-10	09:55:00	60.1	61.0	58.5
11-Apr-10	10:00:00	60.3	60.5	58.5
11-Apr-10	10:05:00	59.6	60.5	58.0
11-Apr-10	10:10:00	59.7	60.0	58.0
11-Apr-10	10:15:00	64.4	62.6	58.0
11-Apr-10	10:20:00	59.8	60.5	58.0
11-Apr-10	10:25:00	60.5	61.0	58.0
11-Apr-10	10:30:00	59.7	60.5	58.0
11-Apr-10	10:35:00	61.1	63.1	58.0
11-Apr-10	10:40:00	61.9	64.1	58.0
11-Apr-10	10:45:00	64.5	65.6	58.5
11-Apr-10	10:50:00	59.9	61.5	58.0
11-Apr-10	10:55:00	60.4	62.1	58.0

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
11-Apr-10	11:00:00	61.7	63.1	58.0
11-Apr-10	11:05:00	59.8	62.6	57.5
11-Apr-10	11:10:00	61.5	63.1	58.5
11-Apr-10	11:15:00	59.2	61.0	57.5
11-Apr-10	11:20:00	59.0	60.0	57.5
11-Apr-10	11:25:00	59.0	60.0	57.5
11-Apr-10	11:30:00	58.6	59.0	57.5
11-Apr-10	11:35:00	58.3	59.0	57.5
11-Apr-10	11:40:00	58.6	59.0	57.5
11-Apr-10	11:45:00	58.4	59.0	57.0
11-Apr-10	11:50:00	58.7	59.5	57.5
11-Apr-10	11:55:00	58.7	59.0	57.5
11-Apr-10	12:00:00	63.9	64.6	57.5
11-Apr-10	12:05:00	59.2	60.0	57.5
11-Apr-10	12:10:00	58.9	60.0	57.5
11-Apr-10	12:15:00	62.3	60.0	57.0
11-Apr-10	12:20:00	58.2	59.0	57.0
11-Apr-10	12:25:00	58.5	59.5	57.0
11-Apr-10	12:30:00	58.4	59.0	57.5
11-Apr-10	12:35:00	58.8	60.0	57.0
11-Apr-10	12:40:00	58.4	59.0	57.5
11-Apr-10	12:45:00	58.1	58.5	57.5
11-Apr-10	12:50:00	58.7	59.5	57.5
11-Apr-10	12:55:00	58.4	59.5	57.5
11-Apr-10	13:00:00	58.5	59.0	57.5
11-Apr-10	13:05:00	58.5	59.5	57.5
11-Apr-10	13:10:00	60.0	61.5	58.0
11-Apr-10	13:15:00	59.6	61.0	57.5
11-Apr-10	13:20:00	58.7	59.5	57.5
11-Apr-10	13:25:00	58.8	59.5	57.5
11-Apr-10	13:30:00	60.3	60.5	57.5
11-Apr-10	13:35:00	59.1	60.0	57.5
11-Apr-10	13:40:00	59.7	60.5	57.0
11-Apr-10	13:45:00	63.7	63.6	57.0
11-Apr-10	13:50:00	57.5	58.0	56.5
11-Apr-10	13:55:00	58.6	59.5	57.0
11-Apr-10	14:00:00	59.3	61.0	57.0
11-Apr-10	14:05:00	59.1	60.5	57.5
11-Apr-10	14:10:00	59.3	60.5	57.5
11-Apr-10	14:15:00	59.5	60.0	58.0
11-Apr-10	14:20:00	58.5	59.0	57.5
11-Apr-10	14:25:00	58.7	59.5	57.5
11-Apr-10	14:30:00	59.1	60.0	58.0
11-Apr-10	14:35:00	59.7	60.0	58.5
11-Apr-10	14:40:00	58.7	59.5	57.5
11-Apr-10	14:45:00	58.9	59.5	58.0
11-Apr-10	14:50:00	59.5	60.0	58.5
11-Apr-10	14:55:00	59.5	60.0	58.5

Appendix B3

Evening Time (19:00-23:00hrs) and Holiday (07:00-23:00hrs)Baseline Noise Level at NM1 (Government Staff Quarters)

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
11-Apr-10	15:00:00	59.3	60.0	58.5
11-Apr-10	15:05:00	59.2	60.0	58.0
11-Apr-10	15:10:00	59.6	60.0	58.5
11-Apr-10	15:15:00	60.0	60.5	58.5
11-Apr-10	15:20:00	59.5	60.0	58.5
11-Apr-10	15:25:00	59.5	60.0	58.5
11-Apr-10	15:30:00	59.5	60.0	58.5
11-Apr-10	15:35:00	60.3	61.5	58.5
11-Apr-10	15:40:00	63.3	62.1	59.0
11-Apr-10	15:45:00	60.8	63.6	59.0
11-Apr-10	15:50:00	60.6	63.6	58.5
11-Apr-10	15:55:00	62.2	64.1	59.0
11-Apr-10	16:00:00	62.6	64.1	58.5
11-Apr-10	16:05:00	59.2	60.0	58.0
11-Apr-10	16:10:00	59.8	60.5	58.0
11-Apr-10	16:15:00	59.3	59.5	58.0
11-Apr-10	16:20:00	58.9	59.5	58.0
11-Apr-10	16:25:00	59.2	60.0	58.0
11-Apr-10	16:30:00	59.0	59.5	58.0
11-Apr-10	16:35:00	58.9	59.5	58.0
11-Apr-10	16:40:00	59.6	60.0	58.0
11-Apr-10	16:45:00	62.0	60.0	58.0
11-Apr-10	16:50:00	61.6	60.0	58.0
11-Apr-10	16:55:00	59.1	59.5	58.0
11-Apr-10	17:00:00	58.9	59.5	58.0
11-Apr-10	17:05:00	59.3	60.0	58.0
11-Apr-10	17:10:00	59.2	60.0	58.0
11-Apr-10	17:15:00	59.8	60.0	58.0
11-Apr-10	17:20:00	60.9	59.5	58.0
11-Apr-10	17:25:00	58.8	59.5	58.0
11-Apr-10	17:30:00	58.8	59.5	57.5
11-Apr-10	17:35:00	58.4	59.0	57.5
11-Apr-10	17:40:00	59.1	59.5	58.0
11-Apr-10	17:45:00	60.8	62.1	58.0
11-Apr-10	17:50:00	59.5	60.5	57.5
11-Apr-10	17:55:00	59.2	59.5	57.5
11-Apr-10	18:00:00	60.2	60.5	58.0
11-Apr-10	18:05:00	59.1	60.0	58.0
11-Apr-10	18:10:00	59.5	59.5	58.5
11-Apr-10	18:15:00	59.5	60.0	58.5
11-Apr-10	18:20:00	59.2	60.0	58.0
11-Apr-10	18:25:00	59.0	59.5	58.0
11-Apr-10	18:30:00	61.6	60.0	58.0
11-Apr-10	18:35:00	61.3	62.1	58.0
11-Apr-10	18:40:00	59.4	60.0	58.0
11-Apr-10	18:45:00	65.4	60.0	58.0
11-Apr-10	18:50:00	59.1	59.5	58.0
11-Apr-10	18:55:00	58.6	59.0	58.0

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
11-Apr-10	19:00:00	59.4	61.0	58.0
11-Apr-10	19:05:00	61.2	63.1	58.0
11-Apr-10	19:10:00	58.8	59.0	58.0
11-Apr-10	19:15:00	60.0	61.0	58.0
11-Apr-10	19:20:00	60.7	61.5	58.0
11-Apr-10	19:25:00	61.1	63.1	58.0
11-Apr-10	19:30:00	59.3	59.5	58.0
11-Apr-10	19:35:00	59.0	59.5	58.0
11-Apr-10	19:40:00	58.8	59.5	58.0
11-Apr-10	19:45:00	58.6	59.0	58.0
11-Apr-10	19:50:00	58.7	59.0	58.0
11-Apr-10	19:55:00	58.6	59.0	58.0
11-Apr-10	20:00:00	58.6	59.0	57.5
11-Apr-10	20:05:00	59.3	59.0	57.5
11-Apr-10	20:10:00	58.6	59.0	58.0
11-Apr-10	20:15:00	58.7	59.0	58.0
11-Apr-10	20:20:00	58.6	59.0	58.0
11-Apr-10	20:25:00	58.6	59.0	58.0
11-Apr-10	20:30:00	58.7	59.0	58.0
11-Apr-10	20:35:00	58.8	59.5	58.0
11-Apr-10	20:40:00	58.9	59.5	58.0
11-Apr-10	20:45:00	58.7	59.0	58.0
11-Apr-10	20:50:00	58.7	59.0	58.0
11-Apr-10	20:55:00	58.8	59.0	58.0
11-Apr-10	21:00:00	58.8	59.0	58.0
11-Apr-10	21:05:00	59.0	59.5	58.0
11-Apr-10	21:10:00	59.1	59.5	58.0
11-Apr-10	21:15:00	58.9	59.0	58.5
11-Apr-10	21:20:00	58.8	59.0	58.0
11-Apr-10	21:25:00	59.2	59.5	58.0
11-Apr-10	21:30:00	58.8	59.0	58.5
11-Apr-10	21:35:00	58.9	59.0	58.0
11-Apr-10	21:40:00	59.3	60.0	58.5
11-Apr-10	21:45:00	58.8	59.0	58.0
11-Apr-10	21:50:00	58.8	59.0	58.0
11-Apr-10	21:55:00	58.8	59.0	58.5
11-Apr-10	22:00:00	59.1	59.5	58.5
11-Apr-10	22:05:00	59.0	59.5	58.5
11-Apr-10	22:10:00	58.8	59.0	58.0
11-Apr-10	22:15:00	59.0	59.5	58.5
11-Apr-10	22:20:00	59.1	59.5	58.5
11-Apr-10	22:25:00	59.2	59.5	58.5
11-Apr-10	22:30:00	59.1	59.5	58.5
11-Apr-10	22:35:00	59.0	59.5	58.5
11-Apr-10	22:40:00	59.0	59.5	58.5
11-Apr-10	22:45:00	59.0	59.5	58.5
11-Apr-10	22:50:00	59.1	59.5	58.5
11-Apr-10	22:55:00	59.0	59.5	58.5
	Mean	59.9	60.6	58.1
	Maximum	65.8	65.6	65.1
	Minimum	57.5	58.0	56.5

Appendix B3

Evening Time (19:00-23:00hrs) and Holiday (07:00-23:00hrs)Baseline Noise Level at NM1 (Government Staff Quarters)

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
12-Apr-10	19:00:00	60.4	61.0	58.5
12-Apr-10	19:05:00	59.3	60.0	58.0
12-Apr-10	19:10:00	60.5	61.5	58.0
12-Apr-10	19:15:00	60.2	61.0	58.5
12-Apr-10	19:20:00	63.4	62.6	58.5
12-Apr-10	19:25:00	59.9	61.0	58.5
12-Apr-10	19:30:00	60.2	61.5	58.5
12-Apr-10	19:35:00	60.6	61.5	58.0
12-Apr-10	19:40:00	59.8	61.0	58.0
12-Apr-10	19:45:00	61.5	62.6	59.5
12-Apr-10	19:50:00	62.4	63.6	59.5
12-Apr-10	19:55:00	60.7	61.5	59.0
12-Apr-10	20:00:00	60.6	60.5	59.0
12-Apr-10	20:05:00	60.0	60.5	59.0
12-Apr-10	20:10:00	60.1	60.5	59.5
12-Apr-10	20:15:00	60.1	60.5	59.5
12-Apr-10	20:20:00	59.7	60.0	59.0
12-Apr-10	20:25:00	60.7	61.5	59.5
12-Apr-10	20:30:00	60.0	60.5	59.5
12-Apr-10	20:35:00	60.2	60.5	59.5
12-Apr-10	20:40:00	59.9	60.5	59.0
12-Apr-10	20:45:00	59.9	60.0	59.5
12-Apr-10	20:50:00	59.8	60.0	59.0
12-Apr-10	20:55:00	59.9	60.0	59.5
12-Apr-10	21:00:00	59.8	60.0	59.0
12-Apr-10	21:05:00	59.7	60.0	59.0
12-Apr-10	21:10:00	59.7	60.0	59.0
12-Apr-10	21:15:00	59.6	60.0	59.0
12-Apr-10	21:20:00	59.5	60.0	59.0
12-Apr-10	21:25:00	59.5	59.5	59.0
12-Apr-10	21:30:00	59.6	60.0	59.0
12-Apr-10	21:35:00	59.6	60.0	59.0
12-Apr-10	21:40:00	59.4	59.5	59.0
12-Apr-10	21:45:00	59.6	60.0	59.0
12-Apr-10	21:50:00	59.5	60.0	59.0
12-Apr-10	21:55:00	59.2	59.5	58.5
12-Apr-10	22:00:00	59.4	60.0	58.5
12-Apr-10	22:05:00	59.4	59.5	58.5
12-Apr-10	22:10:00	59.3	59.5	58.0
12-Apr-10	22:15:00	59.2	59.5	58.5
12-Apr-10	22:20:00	59.3	59.5	58.5
12-Apr-10	22:25:00	59.2	59.5	58.5
12-Apr-10	22:30:00	59.4	59.5	59.0
12-Apr-10	22:35:00	59.0	59.5	58.0
12-Apr-10	22:40:00	58.6	59.0	58.0
12-Apr-10	22:45:00	58.7	59.0	58.0
12-Apr-10	22:50:00	58.6	59.0	58.0
12-Apr-10	22:55:00	59.2	59.5	58.5
	Mean	60.0	60.5	58.8
	Maximum	63.4	63.6	59.5
	Minimum	58.6	59.0	58.0

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
13-Apr-10	19:00:00	60.2	61.5	58.5
13-Apr-10	19:05:00	63.1	62.6	58.5
13-Apr-10	19:10:00	59.8	61.0	58.5
13-Apr-10	19:15:00	60.4	62.1	59.0
13-Apr-10	19:20:00	63.1	63.6	59.0
13-Apr-10	19:25:00	61.7	64.1	58.5
13-Apr-10	19:30:00	61.6	64.6	59.0
13-Apr-10	19:35:00	60.4	61.5	58.5
13-Apr-10	19:40:00	59.8	60.5	58.5
13-Apr-10	19:45:00	59.9	61.0	59.0
13-Apr-10	19:50:00	59.7	60.5	58.5
13-Apr-10	19:55:00	59.3	60.0	58.5
13-Apr-10	20:00:00	59.6	60.0	58.5
13-Apr-10	20:05:00	62.4	63.1	59.0
13-Apr-10	20:10:00	60.0	60.5	59.0
13-Apr-10	20:15:00	59.8	60.5	59.0
13-Apr-10	20:20:00	59.4	60.0	58.5
13-Apr-10	20:25:00	59.5	60.0	58.5
13-Apr-10	20:30:00	59.7	60.0	58.5
13-Apr-10	20:35:00	59.2	59.5	58.5
13-Apr-10	20:40:00	60.8	61.0	58.5
13-Apr-10	20:45:00	60.6	60.5	58.5
13-Apr-10	20:50:00	59.5	60.0	58.5
13-Apr-10	20:55:00	60.3	60.5	58.5
13-Apr-10	21:00:00	59.3	59.5	58.5
13-Apr-10	21:05:00	59.3	59.5	58.5
13-Apr-10	21:10:00	59.8	60.0	59.0
13-Apr-10	21:15:00	59.6	60.0	59.0
13-Apr-10	21:20:00	59.5	60.0	58.5
13-Apr-10	21:25:00	59.3	59.5	58.5
13-Apr-10	21:30:00	59.2	59.5	58.5
13-Apr-10	21:35:00	59.2	59.5	58.5
13-Apr-10	21:40:00	59.4	60.0	58.5
13-Apr-10	21:45:00	59.2	59.5	58.5
13-Apr-10	21:50:00	59.3	59.5	58.5
13-Apr-10	21:55:00	59.1	59.5	58.5
13-Apr-10	22:00:00	59.1	59.5	58.0
13-Apr-10	22:05:00	58.6	59.0	58.0
13-Apr-10	22:10:00	58.7	59.0	58.0
13-Apr-10	22:15:00	58.6	59.0	58.0
13-Apr-10	22:20:00	58.6	59.0	58.0
13-Apr-10	22:25:00	58.4	59.0	57.5
13-Apr-10	22:30:00	58.4	59.0	57.5
13-Apr-10	22:35:00	58.2	58.5	57.5
13-Apr-10	22:40:00	58.3	58.5	57.5
13-Apr-10	22:45:00	58.7	59.5	58.0
13-Apr-10	22:50:00	58.9	59.5	58.0
13-Apr-10	22:55:00	59.3	59.5	58.5
	Mean	59.9	60.6	58.5
	Maximum	63.1	64.6	59.0
	Minimum	58.2	58.5	57.5

Appendix B3

Evening Time (19:00-23:00hrs) and Holiday (07:00-23:00hrs)Baseline Noise Level at NM1 (Government Staff Quarters)

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
14-Apr-10	19:00:00	60.4	61.0	59.0
14-Apr-10	19:05:00	60.3	61.5	58.5
14-Apr-10	19:10:00	61.2	61.5	58.5
14-Apr-10	19:15:00	60.6	61.5	59.0
14-Apr-10	19:20:00	60.8	61.5	59.5
14-Apr-10	19:25:00	60.7	61.5	59.5
14-Apr-10	19:30:00	62.5	62.6	60.0
14-Apr-10	19:35:00	60.9	61.5	59.5
14-Apr-10	19:40:00	60.7	62.1	58.5
14-Apr-10	19:45:00	62.7	62.1	59.0
14-Apr-10	19:50:00	59.9	61.0	58.5
14-Apr-10	19:55:00	60.8	61.5	59.5
14-Apr-10	20:00:00	60.6	61.5	59.0
14-Apr-10	20:05:00	60.0	61.0	59.0
14-Apr-10	20:10:00	60.7	61.5	59.5
14-Apr-10	20:15:00	60.4	61.5	58.5
14-Apr-10	20:20:00	60.8	61.5	59.5
14-Apr-10	20:25:00	60.9	61.5	59.5
14-Apr-10	20:30:00	60.5	61.0	59.5
14-Apr-10	20:35:00	60.7	61.5	59.5
14-Apr-10	20:40:00	60.6	61.0	59.5
14-Apr-10	20:45:00	60.1	61.0	58.5
14-Apr-10	20:50:00	60.5	61.0	59.5
14-Apr-10	20:55:00	60.3	61.0	59.0
14-Apr-10	21:00:00	60.2	61.0	58.5
14-Apr-10	21:05:00	60.2	61.0	59.0
14-Apr-10	21:10:00	60.5	61.5	59.0
14-Apr-10	21:15:00	60.5	61.0	59.5
14-Apr-10	21:20:00	60.5	61.0	59.5
14-Apr-10	21:25:00	60.7	61.5	59.5
14-Apr-10	21:30:00	61.0	61.5	59.5
14-Apr-10	21:35:00	60.7	61.5	59.5
14-Apr-10	21:40:00	60.6	61.5	59.5
14-Apr-10	21:45:00	60.6	61.5	59.5
14-Apr-10	21:50:00	60.5	61.5	59.0
14-Apr-10	21:55:00	60.5	61.0	59.5
14-Apr-10	22:00:00	60.6	61.5	59.5
14-Apr-10	22:05:00	61.0	62.1	59.5
14-Apr-10	22:10:00	60.8	61.5	59.5
14-Apr-10	22:15:00	60.2	61.0	59.0
14-Apr-10	22:20:00	60.4	61.0	59.0
14-Apr-10	22:25:00	60.9	62.1	59.5
14-Apr-10	22:30:00	60.7	61.5	59.5
14-Apr-10	22:35:00	60.7	61.5	59.5
14-Apr-10	22:40:00	60.6	61.5	59.5
14-Apr-10	22:45:00	60.7	61.5	59.5
14-Apr-10	22:50:00	60.3	61.0	59.0
14-Apr-10	22:55:00	60.3	61.0	59.0
	Mean	60.7	61.4	59.3
	Maximum	62.7	62.6	60.0
	Minimum	59.9	61.0	58.5

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
15-Apr-10	19:00:00	62.4	64.6	60.0
15-Apr-10	19:05:00	62.0	64.1	59.0
15-Apr-10	19:10:00	62.2	64.1	60.0
15-Apr-10	19:15:00	62.4	64.1	59.5
15-Apr-10	19:20:00	61.6	63.6	59.5
15-Apr-10	19:25:00	61.5	63.6	59.5
15-Apr-10	19:30:00	61.4	63.1	60.0
15-Apr-10	19:35:00	63.3	63.6	61.0
15-Apr-10	19:40:00	62.9	63.6	60.5
15-Apr-10	19:45:00	61.7	62.6	60.0
15-Apr-10	19:50:00	60.5	61.0	59.5
15-Apr-10	19:55:00	60.2	60.5	59.0
15-Apr-10	20:00:00	60.5	61.0	59.5
15-Apr-10	20:05:00	60.2	61.0	59.5
15-Apr-10	20:10:00	60.5	61.0	59.5
15-Apr-10	20:15:00	60.4	61.0	59.5
15-Apr-10	20:20:00	60.1	61.0	59.0
15-Apr-10	20:25:00	60.1	60.5	59.0
15-Apr-10	20:30:00	60.2	61.0	59.0
15-Apr-10	20:35:00	60.4	61.0	59.5
15-Apr-10	20:40:00	60.5	62.1	59.5
15-Apr-10	20:45:00	60.1	60.5	59.0
15-Apr-10	20:50:00	60.1	60.5	59.0
15-Apr-10	20:55:00	60.4	61.0	59.5
15-Apr-10	21:00:00	59.9	60.5	59.0
15-Apr-10	21:05:00	59.8	60.5	59.0
15-Apr-10	21:10:00	60.4	61.0	59.5
15-Apr-10	21:15:00	59.9	60.5	59.0
15-Apr-10	21:20:00	60.3	61.0	59.0
15-Apr-10	21:25:00	60.3	61.0	59.5
15-Apr-10	21:30:00	60.2	61.0	59.0
15-Apr-10	21:35:00	60.0	61.0	59.0
15-Apr-10	21:40:00	59.8	60.5	59.0
15-Apr-10	21:45:00	59.9	60.5	59.0
15-Apr-10	21:50:00	59.9	60.5	59.0
15-Apr-10	21:55:00	60.0	60.5	59.0
15-Apr-10	22:00:00	59.9	60.5	59.0
15-Apr-10	22:05:00	59.8	60.5	59.0
15-Apr-10	22:10:00	59.6	60.5	59.0
15-Apr-10	22:15:00	59.6	60.5	58.5
15-Apr-10	22:20:00	59.5	60.0	58.5
15-Apr-10	22:25:00	59.6	60.0	58.5
15-Apr-10	22:30:00	59.7	60.5	58.5
15-Apr-10	22:35:00	59.7	60.5	58.5
15-Apr-10	22:40:00	59.5	60.5	58.5
15-Apr-10	22:45:00	59.4	60.0	58.5
15-Apr-10	22:50:00	59.9	60.5	59.0
15-Apr-10	22:55:00	59.6	60.0	59.0
	Mean	60.6	61.5	59.3
	Maximum	63.3	64.6	61.0
	Minimum	59.4	60.0	58.5

Appendix B3

Evening Time (19:00-23:00hrs) and Holiday (07:00-23:00hrs)Baseline Noise Level at NM1 (Government Staff Quarters)

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
16-Apr-10	19:00:00	61.0	62.1	59.5
16-Apr-10	19:05:00	60.8	61.5	59.5
16-Apr-10	19:10:00	61.0	62.1	59.5
16-Apr-10	19:15:00	60.6	61.0	59.5
16-Apr-10	19:20:00	61.5	62.1	59.5
16-Apr-10	19:25:00	62.1	63.6	60.0
16-Apr-10	19:30:00	62.3	63.1	61.0
16-Apr-10	19:35:00	62.2	63.1	61.0
16-Apr-10	19:40:00	62.4	63.1	60.0
16-Apr-10	19:45:00	60.9	61.5	59.0
16-Apr-10	19:50:00	60.5	61.5	59.0
16-Apr-10	19:55:00	59.5	60.5	58.5
16-Apr-10	20:00:00	60.2	61.0	59.0
16-Apr-10	20:05:00	62.6	61.0	59.0
16-Apr-10	20:10:00	61.4	62.1	59.5
16-Apr-10	20:15:00	60.2	61.0	59.0
16-Apr-10	20:20:00	60.1	60.5	59.0
16-Apr-10	20:25:00	59.8	60.5	59.0
16-Apr-10	20:30:00	60.0	60.5	59.0
16-Apr-10	20:35:00	60.0	60.5	59.0
16-Apr-10	20:40:00	60.0	61.0	59.0
16-Apr-10	20:45:00	60.6	61.5	59.0
16-Apr-10	20:50:00	60.3	60.5	58.5
16-Apr-10	20:55:00	59.5	60.5	58.5
16-Apr-10	21:00:00	59.6	60.5	58.5
16-Apr-10	21:05:00	62.3	62.1	58.5
16-Apr-10	21:10:00	59.9	60.5	58.5
16-Apr-10	21:15:00	60.5	62.1	58.5
16-Apr-10	21:20:00	59.8	60.5	58.5
16-Apr-10	21:25:00	59.5	60.5	58.0
16-Apr-10	21:30:00	60.1	61.5	58.5
16-Apr-10	21:35:00	60.3	61.5	59.0
16-Apr-10	21:40:00	60.1	60.5	59.0
16-Apr-10	21:45:00	60.1	60.5	59.0
16-Apr-10	21:50:00	60.0	60.5	59.0
16-Apr-10	21:55:00	60.8	61.5	59.5
16-Apr-10	22:00:00	62.5	62.1	59.0
16-Apr-10	22:05:00	60.0	61.0	58.5
16-Apr-10	22:10:00	59.9	61.0	58.5
16-Apr-10	22:15:00	60.6	62.1	59.0
16-Apr-10	22:20:00	61.7	62.6	60.5
16-Apr-10	22:25:00	58.6	59.0	58.0
16-Apr-10	22:30:00	58.4	59.0	57.5
16-Apr-10	22:35:00	58.4	59.0	57.5
16-Apr-10	22:40:00	58.2	58.5	57.5
16-Apr-10	22:45:00	58.3	58.5	57.5
16-Apr-10	22:50:00	58.7	59.5	58.0
16-Apr-10	22:55:00	58.9	59.5	58.0
	Mean	60.5	61.2	59.0
	Maximum	62.6	63.6	61.0
	Minimum	58.2	58.5	57.5

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
17-Apr-10	19:00:00	64.2	63.1	60.0
17-Apr-10	19:05:00	60.7	61.5	59.0
17-Apr-10	19:10:00	60.0	61.0	59.0
17-Apr-10	19:15:00	61.3	62.6	59.5
17-Apr-10	19:20:00	60.9	62.1	59.5
17-Apr-10	19:25:00	60.9	61.5	60.0
17-Apr-10	19:30:00	61.5	62.1	60.5
17-Apr-10	19:35:00	61.7	62.6	60.5
17-Apr-10	19:40:00	64.0	64.1	60.0
17-Apr-10	19:45:00	60.8	62.1	59.5
17-Apr-10	19:50:00	60.8	62.1	59.0
17-Apr-10	19:55:00	62.5	63.1	58.5
17-Apr-10	20:00:00	60.3	61.5	58.5
17-Apr-10	20:05:00	61.0	61.5	58.5
17-Apr-10	20:10:00	63.0	65.1	59.0
17-Apr-10	20:15:00	61.6	63.1	59.0
17-Apr-10	20:20:00	60.6	61.5	58.5
17-Apr-10	20:25:00	61.0	61.5	59.0
17-Apr-10	20:30:00	59.9	60.5	58.5
17-Apr-10	20:35:00	59.5	60.0	58.5
17-Apr-10	20:40:00	59.6	60.5	58.5
17-Apr-10	20:45:00	59.3	60.0	58.0
17-Apr-10	20:50:00	59.5	60.0	58.5
17-Apr-10	20:55:00	59.2	60.0	58.0
17-Apr-10	21:00:00	59.2	60.5	58.0
17-Apr-10	21:05:00	60.3	61.0	59.0
17-Apr-10	21:10:00	58.9	60.0	58.0
17-Apr-10	21:15:00	59.2	60.0	58.0
17-Apr-10	21:20:00	59.2	60.0	58.0
17-Apr-10	21:25:00	59.6	60.0	58.5
17-Apr-10	21:30:00	59.6	60.5	58.5
17-Apr-10	21:35:00	59.4	60.0	58.5
17-Apr-10	21:40:00	59.5	60.0	58.5
17-Apr-10	21:45:00	60.3	61.0	59.0
17-Apr-10	21:50:00	59.7	60.5	58.5
17-Apr-10	21:55:00	60.0	60.5	58.5
17-Apr-10	22:00:00	59.4	60.0	58.5
17-Apr-10	22:05:00	59.6	60.5	58.5
17-Apr-10	22:10:00	59.4	60.0	58.5
17-Apr-10	22:15:00	59.2	60.0	58.5
17-Apr-10	22:20:00	59.6	60.0	58.5
17-Apr-10	22:25:00	59.1	60.0	58.0
17-Apr-10	22:30:00	59.9	60.5	59.0
17-Apr-10	22:35:00	59.5	60.0	58.5
17-Apr-10	22:40:00	59.2	60.0	58.5
17-Apr-10	22:45:00	59.1	59.5	58.0
17-Apr-10	22:50:00	59.3	60.0	58.5
17-Apr-10	22:55:00	58.8	59.0	58.0
	Mean	60.5	61.2	58.8
	Maximum	64.2	65.1	60.5
	Minimum	58.8	59.0	58.0

Appendix B3

Evening Time (19:00-23:00hrs) and Holiday (07:00-23:00hrs)Baseline Noise Level at NM1 (Government Staff Quarters)

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
18-Apr-10	07:00:00	61.1	62.1	59.5
18-Apr-10	07:05:00	60.8	61.5	59.5
18-Apr-10	07:10:00	62.0	62.6	59.5
18-Apr-10	07:15:00	60.0	61.0	58.5
18-Apr-10	07:20:00	60.4	62.1	58.0
18-Apr-10	07:25:00	60.0	60.5	59.0
18-Apr-10	07:30:00	59.3	60.0	58.0
18-Apr-10	07:35:00	64.9	64.1	59.0
18-Apr-10	07:40:00	59.2	60.5	57.5
18-Apr-10	07:45:00	59.3	60.5	57.5
18-Apr-10	07:50:00	58.7	59.5	57.5
18-Apr-10	07:55:00	58.7	59.5	57.5
18-Apr-10	08:00:00	59.8	60.5	58.0
18-Apr-10	08:05:00	59.5	60.5	58.5
18-Apr-10	08:10:00	60.0	61.0	58.5
18-Apr-10	08:15:00	59.4	60.5	58.0
18-Apr-10	08:20:00	59.2	60.0	58.0
18-Apr-10	08:25:00	60.2	61.5	59.0
18-Apr-10	08:30:00	59.5	60.5	58.5
18-Apr-10	08:35:00	58.7	59.5	57.5
18-Apr-10	08:40:00	58.8	59.5	57.5
18-Apr-10	08:45:00	59.0	59.5	58.0
18-Apr-10	08:50:00	59.6	61.5	58.0
18-Apr-10	08:55:00	62.9	63.6	57.5
18-Apr-10	09:00:00	58.5	59.5	57.5
18-Apr-10	09:05:00	62.5	62.1	57.5
18-Apr-10	09:10:00	58.8	60.0	57.5
18-Apr-10	09:15:00	60.0	61.5	58.0
18-Apr-10	09:20:00	60.2	61.5	58.5
18-Apr-10	09:25:00	61.1	62.6	58.5
18-Apr-10	09:30:00	60.5	62.1	58.5
18-Apr-10	09:35:00	60.2	61.0	58.0
18-Apr-10	09:40:00	61.2	62.6	58.5
18-Apr-10	09:45:00	60.9	61.5	59.0
18-Apr-10	09:50:00	60.8	62.1	59.0
18-Apr-10	09:55:00	61.3	62.6	59.0
18-Apr-10	10:00:00	62.4	63.1	59.0
18-Apr-10	10:05:00	62.2	63.1	59.0
18-Apr-10	10:10:00	63.7	64.6	58.5
18-Apr-10	10:15:00	62.0	62.6	59.0
18-Apr-10	10:20:00	72.1	64.6	59.0
18-Apr-10	10:25:00	66.6	67.6	60.5
18-Apr-10	10:30:00	60.1	61.0	58.0
18-Apr-10	10:35:00	63.5	63.6	58.5
18-Apr-10	10:40:00	60.0	61.5	58.0
18-Apr-10	10:45:00	59.3	60.5	58.0
18-Apr-10	10:50:00	60.5	62.1	58.0
18-Apr-10	10:55:00	60.7	62.1	58.0

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
18-Apr-10	11:00:00	60.8	62.1	58.0
18-Apr-10	11:05:00	60.3	61.5	58.0
18-Apr-10	11:10:00	59.9	61.0	58.5
18-Apr-10	11:15:00	60.7	60.5	58.0
18-Apr-10	11:20:00	60.5	61.5	58.5
18-Apr-10	11:25:00	60.5	61.5	58.5
18-Apr-10	11:30:00	61.5	63.1	59.0
18-Apr-10	11:35:00	61.0	62.6	59.0
18-Apr-10	11:40:00	61.0	62.6	59.0
18-Apr-10	11:45:00	60.2	61.5	59.0
18-Apr-10	11:50:00	61.5	63.1	59.0
18-Apr-10	11:55:00	65.8	66.6	59.5
18-Apr-10	12:00:00	64.8	66.6	62.6
18-Apr-10	12:05:00	60.5	61.5	59.0
18-Apr-10	12:10:00	63.8	63.6	59.0
18-Apr-10	12:15:00	59.8	61.0	58.0
18-Apr-10	12:20:00	60.4	61.5	58.5
18-Apr-10	12:25:00	60.6	61.5	59.0
18-Apr-10	12:30:00	61.1	62.6	59.0
18-Apr-10	12:35:00	65.0	63.6	59.0
18-Apr-10	12:40:00	66.8	68.1	59.5
18-Apr-10	12:45:00	65.0	66.6	59.5
18-Apr-10	12:50:00	60.7	62.1	59.5
18-Apr-10	12:55:00	60.3	61.5	58.5
18-Apr-10	13:00:00	61.9	62.1	59.0
18-Apr-10	13:05:00	61.9	63.1	59.0
18-Apr-10	13:10:00	61.2	62.6	59.0
18-Apr-10	13:15:00	60.9	61.5	59.0
18-Apr-10	13:20:00	60.7	61.5	58.5
18-Apr-10	13:25:00	60.9	62.1	58.5
18-Apr-10	13:30:00	60.7	61.5	59.0
18-Apr-10	13:35:00	60.0	60.5	59.0
18-Apr-10	13:40:00	64.2	63.1	59.0
18-Apr-10	13:45:00	60.4	62.1	58.5
18-Apr-10	13:50:00	60.3	61.5	59.0
18-Apr-10	13:55:00	61.5	62.6	60.0
18-Apr-10	14:00:00	60.5	61.5	59.0
18-Apr-10	14:05:00	60.3	62.1	58.5
18-Apr-10	14:10:00	59.8	60.5	58.5
18-Apr-10	14:15:00	59.8	61.0	58.5
18-Apr-10	14:20:00	59.7	60.5	58.5
18-Apr-10	14:25:00	60.3	61.0	59.0
18-Apr-10	14:30:00	62.0	61.5	58.5
18-Apr-10	14:35:00	61.0	62.6	59.0
18-Apr-10	14:40:00	60.3	61.0	59.0
18-Apr-10	14:45:00	62.7	63.1	59.0
18-Apr-10	14:50:00	60.1	61.0	58.5
18-Apr-10	14:55:00	60.1	61.0	58.5

Appendix B3

Evening Time (19:00-23:00hrs) and Holiday (07:00-23:00hrs)Baseline Noise Level at NM1 (Government Staff Quarters)

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
18-Apr-10	15:00:00	60.4	61.5	59.0
18-Apr-10	15:05:00	59.7	60.5	58.5
18-Apr-10	15:10:00	59.5	60.5	58.5
18-Apr-10	15:15:00	59.8	61.0	58.5
18-Apr-10	15:20:00	63.9	64.1	58.5
18-Apr-10	15:25:00	64.2	65.6	59.5
18-Apr-10	15:30:00	65.2	66.6	59.0
18-Apr-10	15:35:00	63.1	64.6	58.5
18-Apr-10	15:40:00	61.4	62.6	58.5
18-Apr-10	15:45:00	61.2	62.6	58.5
18-Apr-10	15:50:00	61.7	63.6	59.0
18-Apr-10	15:55:00	62.2	63.1	59.0
18-Apr-10	16:00:00	62.3	63.6	59.0
18-Apr-10	16:05:00	61.0	61.5	58.5
18-Apr-10	16:10:00	59.7	61.0	58.0
18-Apr-10	16:15:00	60.0	61.0	58.5
18-Apr-10	16:20:00	59.8	60.5	58.5
18-Apr-10	16:25:00	59.7	61.0	58.5
18-Apr-10	16:30:00	60.2	62.1	58.5
18-Apr-10	16:35:00	61.1	62.6	58.0
18-Apr-10	16:40:00	59.4	60.5	57.5
18-Apr-10	16:45:00	59.3	60.0	58.0
18-Apr-10	16:50:00	59.1	60.0	57.5
18-Apr-10	16:55:00	59.7	61.5	57.5
18-Apr-10	17:00:00	59.9	61.0	57.5
18-Apr-10	17:05:00	60.3	61.5	58.0
18-Apr-10	17:10:00	59.5	60.5	58.0
18-Apr-10	17:15:00	59.8	61.0	58.0
18-Apr-10	17:20:00	59.4	60.5	57.5
18-Apr-10	17:25:00	60.1	60.5	58.5
18-Apr-10	17:30:00	60.5	61.5	59.0
18-Apr-10	17:35:00	59.6	61.0	57.5
18-Apr-10	17:40:00	61.5	63.1	58.0
18-Apr-10	17:45:00	60.0	61.5	58.0
18-Apr-10	17:50:00	59.6	60.5	58.5
18-Apr-10	17:55:00	60.3	61.0	58.5
18-Apr-10	18:00:00	61.4	62.6	59.0
18-Apr-10	18:05:00	60.8	61.5	59.0
18-Apr-10	18:10:00	61.2	62.1	58.5
18-Apr-10	18:15:00	64.3	63.6	58.0
18-Apr-10	18:20:00	61.3	62.1	58.0
18-Apr-10	18:25:00	60.7	62.1	58.0
18-Apr-10	18:30:00	59.3	60.0	58.0
18-Apr-10	18:35:00	61.1	62.6	58.5
18-Apr-10	18:40:00	64.0	66.6	59.5
18-Apr-10	18:45:00	63.1	64.6	60.0
18-Apr-10	18:50:00	60.8	62.1	59.5
18-Apr-10	18:55:00	60.8	62.1	59.0

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
18-Apr-10	19:00:00	60.0	61.0	57.5
18-Apr-10	19:05:00	59.8	60.5	58.5
18-Apr-10	19:10:00	61.3	62.6	59.0
18-Apr-10	19:15:00	60.5	61.5	58.5
18-Apr-10	19:20:00	62.1	62.6	59.0
18-Apr-10	19:25:00	60.0	61.0	58.5
18-Apr-10	19:30:00	59.5	60.5	58.0
18-Apr-10	19:35:00	59.1	60.0	57.5
18-Apr-10	19:40:00	59.3	60.0	58.0
18-Apr-10	19:45:00	59.1	59.5	58.0
18-Apr-10	19:50:00	59.0	59.5	58.0
18-Apr-10	19:55:00	59.2	59.5	58.0
18-Apr-10	20:00:00	59.4	60.0	58.0
18-Apr-10	20:05:00	59.3	60.0	58.0
18-Apr-10	20:10:00	59.3	60.0	58.0
18-Apr-10	20:15:00	59.6	60.5	58.5
18-Apr-10	20:20:00	59.5	60.5	58.5
18-Apr-10	20:25:00	59.3	60.0	58.0
18-Apr-10	20:30:00	59.3	60.0	58.5
18-Apr-10	20:35:00	59.8	60.5	58.5
18-Apr-10	20:40:00	59.6	60.0	58.5
18-Apr-10	20:45:00	59.6	60.0	58.5
18-Apr-10	20:50:00	59.2	60.0	58.0
18-Apr-10	20:55:00	59.4	60.0	58.5
18-Apr-10	21:00:00	60.0	61.0	59.0
18-Apr-10	21:05:00	59.8	60.5	59.0
18-Apr-10	21:10:00	60.3	61.0	59.0
18-Apr-10	21:15:00	59.8	60.5	58.5
18-Apr-10	21:20:00	59.7	60.5	58.5
18-Apr-10	21:25:00	59.4	60.5	58.0
18-Apr-10	21:30:00	60.0	61.0	58.5
18-Apr-10	21:35:00	59.5	60.0	58.5
18-Apr-10	21:40:00	59.8	60.5	59.0
18-Apr-10	21:45:00	60.5	61.0	59.5
18-Apr-10	21:50:00	60.1	60.5	59.0
18-Apr-10	21:55:00	60.1	61.0	59.0
18-Apr-10	22:00:00	60.6	61.5	59.0
18-Apr-10	22:05:00	60.3	60.5	59.5
18-Apr-10	22:10:00	60.2	61.0	59.0
18-Apr-10	22:15:00	60.2	61.0	59.0
18-Apr-10	22:20:00	61.0	61.5	60.0
18-Apr-10	22:25:00	60.4	61.0	59.5
18-Apr-10	22:30:00	60.5	61.0	59.5
18-Apr-10	22:35:00	60.5	61.0	59.5
18-Apr-10	22:40:00	60.0	61.0	59.0
18-Apr-10	22:45:00	60.6	61.0	59.5
18-Apr-10	22:50:00	60.2	61.0	59.0
18-Apr-10	22:55:00	61.3	63.1	59.5
	Mean	61.3	62.0	58.7
	Maximum	72.1	68.1	62.6
	Minimum	58.5	59.5	57.5

Appendix B3

Evening Time (19:00-23:00hrs) and Holiday (07:00-23:00hrs)Baseline Noise Level at NM1 (Government Staff Quarters)

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
19-Apr-10	19:00:00	62.6	63.1	60.0
19-Apr-10	19:05:00	61.3	62.6	59.5
19-Apr-10	19:10:00	61.9	62.6	60.0
19-Apr-10	19:15:00	61.7	62.1	60.5
19-Apr-10	19:20:00	61.5	62.6	60.0
19-Apr-10	19:25:00	61.4	62.6	60.0
19-Apr-10	19:30:00	61.4	62.6	59.0
19-Apr-10	19:35:00	61.5	62.6	60.0
19-Apr-10	19:40:00	60.4	62.1	58.5
19-Apr-10	19:45:00	62.4	62.6	59.0
19-Apr-10	19:50:00	63.1	62.1	59.0
19-Apr-10	19:55:00	62.3	63.1	58.5
19-Apr-10	20:00:00	61.3	62.6	59.0
19-Apr-10	20:05:00	62.3	63.6	59.0
19-Apr-10	20:10:00	60.6	62.6	58.5
19-Apr-10	20:15:00	61.0	62.6	58.5
19-Apr-10	20:20:00	60.2	61.5	58.5
19-Apr-10	20:25:00	61.6	62.6	58.5
19-Apr-10	20:30:00	60.0	61.0	58.5
19-Apr-10	20:35:00	60.9	62.6	58.5
19-Apr-10	20:40:00	60.2	61.5	58.5
19-Apr-10	20:45:00	60.6	62.1	58.5
19-Apr-10	20:50:00	62.3	63.6	58.5
19-Apr-10	20:55:00	63.6	63.1	59.0
19-Apr-10	21:00:00	62.3	63.1	60.0
19-Apr-10	21:05:00	62.4	63.6	59.0
19-Apr-10	21:10:00	61.2	62.1	59.0
19-Apr-10	21:15:00	59.9	61.0	58.5
19-Apr-10	21:20:00	59.3	60.5	58.0
19-Apr-10	21:25:00	59.5	60.5	58.0
19-Apr-10	21:30:00	60.0	61.5	58.0
19-Apr-10	21:35:00	59.0	59.5	58.0
19-Apr-10	21:40:00	58.9	59.5	58.0
19-Apr-10	21:45:00	60.3	61.0	58.5
19-Apr-10	21:50:00	59.5	60.5	58.0
19-Apr-10	21:55:00	59.6	60.5	58.5
19-Apr-10	22:00:00	59.2	60.0	58.0
19-Apr-10	22:05:00	59.2	59.5	58.0
19-Apr-10	22:10:00	59.6	60.0	58.5
19-Apr-10	22:15:00	59.6	60.0	58.5
19-Apr-10	22:20:00	59.2	60.0	58.0
19-Apr-10	22:25:00	59.1	59.5	58.0
19-Apr-10	22:30:00	59.3	60.0	58.5
19-Apr-10	22:35:00	59.3	60.0	58.0
19-Apr-10	22:40:00	59.3	60.0	58.5
19-Apr-10	22:45:00	60.0	60.5	59.0
19-Apr-10	22:50:00	60.0	60.5	59.0
19-Apr-10	22:55:00	60.0	61.0	58.5
	Mean	60.9	61.7	58.8
	Maximum	63.6	63.6	60.5
	Minimum	58.9	59.5	58.0

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
20-Apr-10	19:00:00	62.2	63.1	60.0
20-Apr-10	19:05:00	62.7	63.1	60.0
20-Apr-10	19:10:00	64.5	66.1	60.0
20-Apr-10	19:15:00	63.0	63.6	60.5
20-Apr-10	19:20:00	62.3	63.1	60.5
20-Apr-10	19:25:00	61.7	63.1	60.5
20-Apr-10	19:30:00	61.3	62.6	59.5
20-Apr-10	19:35:00	60.6	61.5	59.5
20-Apr-10	19:40:00	60.5	61.5	59.5
20-Apr-10	19:45:00	62.6	62.6	59.5
20-Apr-10	19:50:00	61.3	62.6	59.0
20-Apr-10	19:55:00	61.6	62.6	59.0
20-Apr-10	20:00:00	60.2	61.0	59.0
20-Apr-10	20:05:00	60.4	61.5	59.0
20-Apr-10	20:10:00	60.5	61.5	59.5
20-Apr-10	20:15:00	60.6	61.5	59.0
20-Apr-10	20:20:00	60.2	61.0	59.0
20-Apr-10	20:25:00	60.0	60.5	59.0
20-Apr-10	20:30:00	60.3	61.0	59.0
20-Apr-10	20:35:00	60.5	61.5	59.5
20-Apr-10	20:40:00	60.6	61.5	59.5
20-Apr-10	20:45:00	61.2	62.1	59.5
20-Apr-10	20:50:00	62.3	62.6	59.0
20-Apr-10	20:55:00	60.7	62.1	59.0
20-Apr-10	21:00:00	63.8	64.6	59.5
20-Apr-10	21:05:00	60.1	61.0	59.0
20-Apr-10	21:10:00	59.9	61.0	59.0
20-Apr-10	21:15:00	59.1	60.0	58.0
20-Apr-10	21:20:00	59.2	60.0	58.0
20-Apr-10	21:25:00	59.2	60.0	58.0
20-Apr-10	21:30:00	59.4	60.5	58.0
20-Apr-10	21:35:00	59.1	59.5	58.0
20-Apr-10	21:40:00	60.1	61.0	58.5
20-Apr-10	21:45:00	59.7	60.5	58.5
20-Apr-10	21:50:00	59.3	60.0	58.5
20-Apr-10	21:55:00	59.3	60.0	58.5
20-Apr-10	22:00:00	59.2	60.0	58.5
20-Apr-10	22:05:00	59.2	60.0	58.5
20-Apr-10	22:10:00	59.3	60.0	58.5
20-Apr-10	22:15:00	59.6	60.5	58.5
20-Apr-10	22:20:00	59.5	60.5	58.5
20-Apr-10	22:25:00	59.7	60.5	58.5
20-Apr-10	22:30:00	59.6	60.5	58.0
20-Apr-10	22:35:00	59.4	61.0	58.0
20-Apr-10	22:40:00	62.8	63.1	58.0
20-Apr-10	22:45:00	59.3	60.0	58.5
20-Apr-10	22:50:00	59.5	60.5	58.5
20-Apr-10	22:55:00	61.9	63.6	58.5
	Mean	60.8	61.7	59.0
	Maximum	64.5	66.1	60.5
	Minimum	59.1	59.5	58.0

Appendix B3

Evening Time (19:00-23:00hrs) and Holiday (07:00-23:00hrs)Baseline Noise Level at NM1 (Government Staff Quarters)

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
21-Apr-10	19:00:00	62.3	64.6	58.0
21-Apr-10	19:05:00	61.2	62.6	57.5
21-Apr-10	19:10:00	60.2	61.5	57.5
21-Apr-10	19:15:00	60.7	60.5	58.5
21-Apr-10	19:20:00	60.0	61.0	58.5
21-Apr-10	19:25:00	61.1	62.6	58.5
21-Apr-10	19:30:00	61.1	62.6	58.0
21-Apr-10	19:35:00	59.2	59.5	58.0
21-Apr-10	19:40:00	59.3	60.0	58.0
21-Apr-10	19:45:00	58.7	59.5	57.5
21-Apr-10	19:50:00	58.1	58.5	57.0
21-Apr-10	19:55:00	57.7	58.0	57.0
21-Apr-10	20:00:00	58.3	59.0	57.0
21-Apr-10	20:05:00	57.9	58.5	57.0
21-Apr-10	20:10:00	59.7	59.0	57.5
21-Apr-10	20:15:00	57.8	58.5	57.0
21-Apr-10	20:20:00	58.0	58.5	57.0
21-Apr-10	20:25:00	57.9	58.5	57.0
21-Apr-10	20:30:00	57.8	58.0	57.0
21-Apr-10	20:35:00	57.6	58.0	57.0
21-Apr-10	20:40:00	57.8	58.0	57.0
21-Apr-10	20:45:00	58.7	60.0	57.5
21-Apr-10	20:50:00	57.8	58.5	57.0
21-Apr-10	20:55:00	58.0	58.5	57.0
21-Apr-10	21:00:00	57.7	58.0	57.0
21-Apr-10	21:05:00	57.8	58.5	57.0
21-Apr-10	21:10:00	57.8	58.0	57.0
21-Apr-10	21:15:00	57.9	58.0	57.0
21-Apr-10	21:20:00	58.1	58.5	57.0
21-Apr-10	21:25:00	57.7	58.0	57.0
21-Apr-10	21:30:00	57.8	58.0	57.0
21-Apr-10	21:35:00	57.8	58.0	57.0
21-Apr-10	21:40:00	57.7	58.0	57.0
21-Apr-10	21:45:00	58.1	58.5	57.0
21-Apr-10	21:50:00	58.2	59.0	57.5
21-Apr-10	21:55:00	58.5	59.0	57.5
21-Apr-10	22:00:00	58.6	59.0	58.0
21-Apr-10	22:05:00	58.4	59.0	57.5
21-Apr-10	22:10:00	58.3	58.5	57.5
21-Apr-10	22:15:00	58.1	58.5	57.5
21-Apr-10	22:20:00	57.9	58.5	57.0
21-Apr-10	22:25:00	58.1	58.5	57.5
21-Apr-10	22:30:00	58.2	58.5	57.5
21-Apr-10	22:35:00	58.2	58.5	57.5
21-Apr-10	22:40:00	57.8	58.0	57.0
21-Apr-10	22:45:00	58.7	59.5	57.5
21-Apr-10	22:50:00	60.1	61.0	58.0
21-Apr-10	22:55:00	58.6	59.0	58.0
	Mean	58.8	59.5	57.4
	Maximum	62.3	64.6	58.5
	Minimum	57.6	58.0	57.0

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
22-Apr-10	19:00:00	59.3	59.5	57.0
22-Apr-10	19:05:00	58.7	59.0	57.0
22-Apr-10	19:10:00	59.9	60.5	58.5
22-Apr-10	19:15:00	59.4	59.5	58.0
22-Apr-10	19:20:00	57.6	58.0	57.0
22-Apr-10	19:25:00	60.3	60.5	57.0
22-Apr-10	19:30:00	59.4	60.5	57.0
22-Apr-10	19:35:00	58.1	58.5	57.0
22-Apr-10	19:40:00	58.1	58.5	57.0
22-Apr-10	19:45:00	58.0	58.5	56.5
22-Apr-10	19:50:00	58.6	60.0	57.0
22-Apr-10	19:55:00	57.8	58.5	57.0
22-Apr-10	20:00:00	57.6	58.0	57.0
22-Apr-10	20:05:00	57.5	58.0	57.0
22-Apr-10	20:10:00	58.1	59.0	57.0
22-Apr-10	20:15:00	57.6	58.0	57.0
22-Apr-10	20:20:00	57.6	58.0	57.0
22-Apr-10	20:25:00	58.1	58.5	57.0
22-Apr-10	20:30:00	58.3	58.5	57.5
22-Apr-10	20:35:00	58.3	58.5	57.5
22-Apr-10	20:40:00	58.4	59.0	57.5
22-Apr-10	20:45:00	58.0	58.5	57.0
22-Apr-10	20:50:00	58.3	59.0	57.5
22-Apr-10	20:55:00	58.4	58.5	57.0
22-Apr-10	21:00:00	57.8	58.5	57.0
22-Apr-10	21:05:00	57.7	58.0	57.0
22-Apr-10	21:10:00	58.1	58.5	57.0
22-Apr-10	21:15:00	57.8	58.5	57.0
22-Apr-10	21:20:00	57.8	58.5	57.0
22-Apr-10	21:25:00	57.8	58.5	57.0
22-Apr-10	21:30:00	57.5	58.0	56.5
22-Apr-10	21:35:00	57.2	57.5	56.5
22-Apr-10	21:40:00	57.8	58.0	57.0
22-Apr-10	21:45:00	57.7	58.0	57.0
22-Apr-10	21:50:00	57.4	58.0	56.5
22-Apr-10	21:55:00	58.0	58.5	56.5
22-Apr-10	22:00:00	57.9	58.5	56.5
22-Apr-10	22:05:00	60.1	59.0	57.0
22-Apr-10	22:10:00	57.6	58.0	57.0
22-Apr-10	22:15:00	57.4	58.0	56.5
22-Apr-10	22:20:00	57.6	58.0	57.0
22-Apr-10	22:25:00	57.8	58.0	57.0
22-Apr-10	22:30:00	57.7	58.0	57.0
22-Apr-10	22:35:00	57.8	58.0	57.0
22-Apr-10	22:40:00	57.7	58.0	57.0
22-Apr-10	22:45:00	57.9	58.5	57.0
22-Apr-10	22:50:00	59.5	61.0	57.5
22-Apr-10	22:55:00	58.1	58.5	57.0
	Mean	58.2	58.7	57.1
	Maximum	60.3	61.0	58.5
	Minimum	57.2	57.5	56.5

Evening Time and Holiday Noise Level at NM1 (Government Staff Quarters)			
	Leq	L10	L90
Mean	60.4	61.1	58.6
Max	72.1	68.1	65.1
Min	57.2	57.5	56.5

APPENDIX B4
NIGHT-TIME 23:00-07:00HRS OF ALL DAYS BASELINE NOISE MONITORING DATA

Appendix B4

Night Time (23:00-07:00hrs) Baseline Noise Level at NM1 (Government Staff Quarters)

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
9-Apr-10	00:00:00	57.2	57.5	56.5
9-Apr-10	00:05:00	57.1	57.5	56.5
9-Apr-10	00:10:00	57.2	57.5	56.5
9-Apr-10	00:15:00	57.4	57.5	57.0
9-Apr-10	00:20:00	57.5	58.0	56.5
9-Apr-10	00:25:00	57.2	57.5	56.5
9-Apr-10	00:30:00	57.4	58.0	56.5
9-Apr-10	00:35:00	57.4	58.0	56.5
9-Apr-10	00:40:00	57.1	57.5	56.5
9-Apr-10	00:45:00	57.2	57.5	56.5
9-Apr-10	00:50:00	57.5	57.5	56.5
9-Apr-10	00:55:00	57.2	57.5	56.5
9-Apr-10	01:00:00	57.2	57.5	56.5
9-Apr-10	01:05:00	57.1	57.5	56.5
9-Apr-10	01:10:00	57.1	57.5	56.5
9-Apr-10	01:15:00	57.6	58.0	57.0
9-Apr-10	01:20:00	57.7	58.0	57.0
9-Apr-10	01:25:00	57.5	58.0	57.0
9-Apr-10	01:30:00	57.0	57.5	56.5
9-Apr-10	01:35:00	56.8	57.0	56.0
9-Apr-10	01:40:00	56.5	57.0	55.5
9-Apr-10	01:45:00	56.3	57.0	55.5
9-Apr-10	01:50:00	56.5	57.0	56.0
9-Apr-10	01:55:00	56.4	57.0	55.5
9-Apr-10	02:00:00	56.6	57.0	56.0
9-Apr-10	02:05:00	56.8	57.0	56.0
9-Apr-10	02:10:00	56.7	57.0	56.0
9-Apr-10	02:15:00	56.5	57.0	56.0
9-Apr-10	02:20:00	56.8	57.0	56.0
9-Apr-10	02:25:00	57.0	57.5	56.5
9-Apr-10	02:30:00	56.7	57.0	56.0
9-Apr-10	02:35:00	57.1	57.5	56.5
9-Apr-10	02:40:00	56.9	57.5	56.0
9-Apr-10	02:45:00	57.0	57.5	56.0
9-Apr-10	02:50:00	57.1	57.5	56.5
9-Apr-10	02:55:00	57.5	57.5	57.0
9-Apr-10	03:00:00	57.2	57.5	56.5
9-Apr-10	03:05:00	57.0	57.5	56.5
9-Apr-10	03:10:00	57.0	57.5	56.5
9-Apr-10	03:15:00	56.8	57.0	56.0
9-Apr-10	03:20:00	56.5	57.0	56.0
9-Apr-10	03:25:00	56.3	56.5	55.5
9-Apr-10	03:30:00	56.4	56.5	56.0
9-Apr-10	03:35:00	56.4	56.5	55.5
9-Apr-10	03:40:00	56.5	57.0	56.0
9-Apr-10	03:45:00	56.6	57.0	56.0
9-Apr-10	03:50:00	56.4	56.5	55.5
9-Apr-10	03:55:00	56.5	57.0	55.5
9-Apr-10	04:00:00	56.2	56.5	55.5
9-Apr-10	04:05:00	56.4	56.5	56.0
9-Apr-10	04:10:00	56.4	56.5	56.0
9-Apr-10	04:15:00	56.5	57.0	56.0
9-Apr-10	04:20:00	56.8	57.0	56.5
9-Apr-10	04:25:00	57.2	57.5	56.5
9-Apr-10	04:30:00	57.2	57.5	56.5
9-Apr-10	04:35:00	57.1	57.5	56.5
9-Apr-10	04:40:00	56.8	57.0	56.5
9-Apr-10	04:45:00	56.9	57.5	56.0
9-Apr-10	04:50:00	57.0	57.5	56.5
9-Apr-10	04:55:00	57.1	57.5	56.5
9-Apr-10	05:00:00	57.2	57.5	56.5
9-Apr-10	05:05:00	57.2	57.5	56.5
9-Apr-10	05:10:00	58.0	59.5	56.5
9-Apr-10	05:15:00	57.3	57.5	56.5
9-Apr-10	05:20:00	57.5	58.0	56.5
9-Apr-10	05:25:00	57.8	58.0	56.5
9-Apr-10	05:30:00	57.8	58.0	57.0
9-Apr-10	05:35:00	57.7	58.0	57.0
9-Apr-10	05:40:00	57.6	58.0	57.0
9-Apr-10	05:45:00	57.0	58.5	55.0
9-Apr-10	05:50:00	55.9	57.0	54.5
9-Apr-10	05:55:00	55.9	57.0	54.5
9-Apr-10	06:00:00	56.9	58.5	55.0
9-Apr-10	06:05:00	55.9	56.5	55.0
9-Apr-10	06:10:00	55.8	56.5	55.0
9-Apr-10	06:15:00	55.8	56.5	55.0
9-Apr-10	06:20:00	56.2	57.0	55.0
9-Apr-10	06:25:00	56.1	57.0	55.0
9-Apr-10	06:30:00	57.5	58.0	56.5
9-Apr-10	06:35:00	60.5	61.0	57.0
9-Apr-10	06:40:00	58.1	59.5	56.5
9-Apr-10	06:45:00	57.3	58.0	56.5
9-Apr-10	06:50:00	57.3	58.5	56.0
9-Apr-10	06:55:00	57.2	58.0	56.0
9-Apr-10	23:00:00	59.8	60.0	58.5
9-Apr-10	23:05:00	59.3	59.5	58.5
9-Apr-10	23:10:00	59.4	60.0	58.5
9-Apr-10	23:15:00	59.6	60.0	58.5
9-Apr-10	23:20:00	59.5	60.0	59.0
9-Apr-10	23:25:00	59.5	60.0	59.0
9-Apr-10	23:30:00	59.6	60.0	59.0
9-Apr-10	23:35:00	59.8	60.0	59.0
9-Apr-10	23:40:00	59.6	60.0	59.0
9-Apr-10	23:45:00	59.7	60.0	59.0
9-Apr-10	23:50:00	59.5	60.0	59.0
9-Apr-10	23:55:00	59.3	59.5	58.5
	Mean	57.5	57.9	56.6
	Maximum	60.5	61.0	59.0
	Minimum	55.8	56.5	54.5

Appendix B4

Night Time (23:00-07:00hrs) Baseline Noise Level at NM1 (Government Staff Quarters)

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
10-Apr-10	00:00:00	59.4	59.5	58.5
10-Apr-10	00:05:00	59.5	60.0	59.0
10-Apr-10	00:10:00	59.4	60.0	58.5
10-Apr-10	00:15:00	59.3	59.5	58.5
10-Apr-10	00:20:00	59.1	59.5	58.5
10-Apr-10	00:25:00	59.5	60.0	58.5
10-Apr-10	00:30:00	59.1	59.5	58.5
10-Apr-10	00:35:00	59.1	59.5	58.5
10-Apr-10	00:40:00	59.2	59.5	58.5
10-Apr-10	00:45:00	59.0	59.5	58.5
10-Apr-10	00:50:00	59.1	59.5	58.5
10-Apr-10	00:55:00	59.1	59.5	58.5
10-Apr-10	01:00:00	58.5	59.0	58.0
10-Apr-10	01:05:00	58.1	58.5	57.5
10-Apr-10	01:10:00	58.0	58.5	57.5
10-Apr-10	01:15:00	58.1	58.5	57.5
10-Apr-10	01:20:00	58.4	59.0	57.5
10-Apr-10	01:25:00	57.8	58.0	57.0
10-Apr-10	01:30:00	58.3	58.5	57.5
10-Apr-10	01:35:00	58.5	59.0	58.0
10-Apr-10	01:40:00	58.7	59.0	58.0
10-Apr-10	01:45:00	58.6	59.0	58.0
10-Apr-10	01:50:00	58.2	58.5	57.5
10-Apr-10	01:55:00	58.6	59.0	58.0
10-Apr-10	02:00:00	58.6	59.0	58.0
10-Apr-10	02:05:00	58.3	58.5	58.0
10-Apr-10	02:10:00	58.2	58.5	57.5
10-Apr-10	02:15:00	58.3	58.5	57.5
10-Apr-10	02:20:00	58.1	58.5	57.5
10-Apr-10	02:25:00	58.3	58.5	58.0
10-Apr-10	02:30:00	58.0	58.0	57.5
10-Apr-10	02:35:00	58.3	58.5	57.5
10-Apr-10	02:40:00	58.5	59.0	58.0
10-Apr-10	02:45:00	58.4	58.5	58.0
10-Apr-10	02:50:00	58.2	58.5	57.5
10-Apr-10	02:55:00	58.3	58.5	58.0
10-Apr-10	03:00:00	58.3	58.5	57.5
10-Apr-10	03:05:00	58.5	59.0	58.0
10-Apr-10	03:10:00	58.5	58.5	58.0
10-Apr-10	03:15:00	58.4	58.5	58.0
10-Apr-10	03:20:00	58.1	58.5	57.0
10-Apr-10	03:25:00	57.8	58.0	57.0
10-Apr-10	03:30:00	57.8	58.0	57.0
10-Apr-10	03:35:00	57.7	58.0	57.0
10-Apr-10	03:40:00	57.8	58.0	57.0
10-Apr-10	03:45:00	57.8	58.0	57.5
10-Apr-10	03:50:00	57.8	58.0	57.0
10-Apr-10	03:55:00	58.0	58.5	57.5
10-Apr-10	04:00:00	57.9	58.0	57.5
10-Apr-10	04:05:00	58.1	58.5	57.5
10-Apr-10	04:10:00	58.3	58.5	57.5
10-Apr-10	04:15:00	58.3	58.5	57.5
10-Apr-10	04:20:00	58.2	58.5	57.5
10-Apr-10	04:25:00	58.2	58.5	57.5
10-Apr-10	04:30:00	58.2	58.5	57.5
10-Apr-10	04:35:00	58.1	58.5	57.5
10-Apr-10	04:40:00	57.8	58.0	57.0
10-Apr-10	04:45:00	57.9	58.0	57.5
10-Apr-10	04:50:00	58.0	58.0	57.5
10-Apr-10	04:55:00	57.9	58.0	57.5
10-Apr-10	05:00:00	58.0	58.5	57.5
10-Apr-10	05:05:00	58.0	58.0	57.5
10-Apr-10	05:10:00	58.1	58.5	57.5
10-Apr-10	05:15:00	58.1	58.5	57.5
10-Apr-10	05:20:00	58.1	58.5	57.5
10-Apr-10	05:25:00	58.2	58.5	57.5
10-Apr-10	05:30:00	58.5	59.0	58.0
10-Apr-10	05:35:00	58.8	59.0	58.0
10-Apr-10	05:40:00	58.9	59.5	58.0
10-Apr-10	05:45:00	58.8	59.0	58.0
10-Apr-10	05:50:00	58.9	59.5	58.0
10-Apr-10	05:55:00	58.8	59.0	58.0
10-Apr-10	06:00:00	58.8	59.0	58.0
10-Apr-10	06:05:00	58.6	59.5	57.5
10-Apr-10	06:10:00	58.1	58.5	57.5
10-Apr-10	06:15:00	57.9	58.0	57.0
10-Apr-10	06:20:00	58.2	59.0	57.5
10-Apr-10	06:25:00	58.8	60.0	57.5
10-Apr-10	06:30:00	58.6	59.0	57.5
10-Apr-10	06:35:00	59.8	60.5	58.0
10-Apr-10	06:40:00	64.1	67.1	58.5
10-Apr-10	06:45:00	60.4	63.1	58.0
10-Apr-10	06:50:00	62.4	65.1	58.0
10-Apr-10	06:55:00	62.4	64.6	58.5
10-Apr-10	23:00:00	60.0	61.0	59.0
10-Apr-10	23:05:00	60.5	61.0	59.5
10-Apr-10	23:10:00	60.9	61.5	60.0
10-Apr-10	23:15:00	60.0	60.5	59.0
10-Apr-10	23:20:00	60.0	60.5	59.0
10-Apr-10	23:25:00	60.7	61.0	59.5
10-Apr-10	23:30:00	59.5	60.0	58.5
10-Apr-10	23:35:00	60.5	60.5	58.5
10-Apr-10	23:40:00	59.4	60.0	58.5
10-Apr-10	23:45:00	58.7	59.0	58.0
10-Apr-10	23:50:00	60.0	60.5	59.0
10-Apr-10	23:55:00	60.2	61.0	59.0
	Mean	59.0	59.6	58.0
	Maximum	64.1	67.1	60.0
	Minimum	57.7	58.0	57.0

Appendix B4

Night Time (23:00-07:00hrs) Baseline Noise Level at NM1 (Government Staff Quarters)

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
11-Apr-10	00:00:00	58.9	59.0	58.5
11-Apr-10	00:05:00	59.2	59.5	58.5
11-Apr-10	00:10:00	59.0	59.5	58.5
11-Apr-10	00:15:00	58.9	59.0	58.5
11-Apr-10	00:20:00	59.4	60.0	58.5
11-Apr-10	00:25:00	59.6	60.0	59.0
11-Apr-10	00:30:00	59.7	60.0	59.0
11-Apr-10	00:35:00	59.9	60.5	59.0
11-Apr-10	00:40:00	59.9	60.0	59.0
11-Apr-10	00:45:00	59.9	60.5	59.0
11-Apr-10	00:50:00	60.0	60.5	59.5
11-Apr-10	00:55:00	60.2	60.5	59.5
11-Apr-10	01:00:00	60.0	60.5	59.5
11-Apr-10	01:05:00	60.2	60.5	59.5
11-Apr-10	01:10:00	60.1	60.5	59.5
11-Apr-10	01:15:00	60.1	60.5	59.5
11-Apr-10	01:20:00	59.8	60.0	59.0
11-Apr-10	01:25:00	60.0	60.5	59.5
11-Apr-10	01:30:00	60.1	60.5	59.5
11-Apr-10	01:35:00	60.3	60.5	59.5
11-Apr-10	01:40:00	59.9	60.5	59.5
11-Apr-10	01:45:00	59.9	60.0	59.5
11-Apr-10	01:50:00	59.8	60.0	59.0
11-Apr-10	01:55:00	59.9	60.0	59.5
11-Apr-10	02:00:00	59.8	60.0	59.0
11-Apr-10	02:05:00	59.4	60.0	58.5
11-Apr-10	02:10:00	58.4	59.0	57.5
11-Apr-10	02:15:00	58.4	58.5	58.0
11-Apr-10	02:20:00	58.4	58.5	58.0
11-Apr-10	02:25:00	58.7	59.0	58.0
11-Apr-10	02:30:00	58.6	59.0	58.0
11-Apr-10	02:35:00	58.4	58.5	58.0
11-Apr-10	02:40:00	58.6	59.0	58.0
11-Apr-10	02:45:00	58.5	58.5	58.0
11-Apr-10	02:50:00	58.5	59.0	58.0
11-Apr-10	02:55:00	58.6	59.0	58.0
11-Apr-10	03:00:00	58.6	59.0	58.0
11-Apr-10	03:05:00	58.5	58.5	58.0
11-Apr-10	03:10:00	58.7	59.0	58.0
11-Apr-10	03:15:00	58.4	58.5	58.0
11-Apr-10	03:20:00	58.4	58.5	58.0
11-Apr-10	03:25:00	58.3	58.5	57.5
11-Apr-10	03:30:00	58.7	59.0	58.0
11-Apr-10	03:35:00	59.0	59.0	58.5
11-Apr-10	03:40:00	59.0	59.5	58.5
11-Apr-10	03:45:00	58.7	59.0	58.0
11-Apr-10	03:50:00	59.0	59.5	58.5
11-Apr-10	03:55:00	58.8	59.5	58.0
11-Apr-10	04:00:00	57.9	58.0	57.5
11-Apr-10	04:05:00	57.8	58.0	57.0
11-Apr-10	04:10:00	57.3	57.5	56.5
11-Apr-10	04:15:00	57.1	57.5	56.5
11-Apr-10	04:20:00	57.5	58.0	57.0
11-Apr-10	04:25:00	57.7	58.0	57.0
11-Apr-10	04:30:00	57.8	58.0	57.0
11-Apr-10	04:35:00	58.1	58.5	57.5
11-Apr-10	04:40:00	57.9	58.0	57.5
11-Apr-10	04:45:00	57.8	58.0	57.5
11-Apr-10	04:50:00	57.9	58.0	57.5
11-Apr-10	04:55:00	58.2	58.5	57.5
11-Apr-10	05:00:00	58.4	58.5	58.0
11-Apr-10	05:05:00	58.4	58.5	58.0
11-Apr-10	05:10:00	58.3	58.5	58.0
11-Apr-10	05:15:00	58.4	58.5	58.0
11-Apr-10	05:20:00	58.5	59.0	58.0
11-Apr-10	05:25:00	58.4	58.5	58.0
11-Apr-10	05:30:00	58.3	58.5	58.0
11-Apr-10	05:35:00	58.7	59.0	58.0
11-Apr-10	05:40:00	59.5	60.0	58.0
11-Apr-10	05:45:00	59.1	59.5	58.5
11-Apr-10	05:50:00	60.9	60.0	58.5
11-Apr-10	05:55:00	58.9	59.5	58.0
11-Apr-10	06:00:00	60.2	62.1	58.0
11-Apr-10	06:05:00	59.1	60.0	58.0
11-Apr-10	06:10:00	58.6	59.5	58.0
11-Apr-10	06:15:00	59.1	59.5	58.0
11-Apr-10	06:20:00	59.2	60.0	58.0
11-Apr-10	06:25:00	58.2	58.5	57.5
11-Apr-10	06:30:00	58.1	59.0	57.0
11-Apr-10	06:35:00	58.1	58.5	57.0
11-Apr-10	06:40:00	59.0	60.5	57.5
11-Apr-10	06:45:00	58.3	59.0	57.5
11-Apr-10	06:50:00	58.4	59.0	57.5
11-Apr-10	06:55:00	58.6	59.5	57.5
11-Apr-10	23:00:00	58.9	59.0	58.5
11-Apr-10	23:05:00	58.8	59.0	58.0
11-Apr-10	23:10:00	59.3	59.5	58.5
11-Apr-10	23:15:00	59.0	59.5	58.5
11-Apr-10	23:20:00	58.8	59.0	58.0
11-Apr-10	23:25:00	58.2	58.5	57.5
11-Apr-10	23:30:00	58.1	58.5	57.5
11-Apr-10	23:35:00	58.3	58.5	57.5
11-Apr-10	23:40:00	58.4	59.0	57.5
11-Apr-10	23:45:00	58.6	59.0	58.0
11-Apr-10	23:50:00	58.7	59.0	58.0
11-Apr-10	23:55:00	58.7	59.0	58.0
	Mean	59.0	59.3	58.2
	Maximum	60.9	62.1	59.5
	Minimum	57.1	57.5	56.5

Appendix B4

Night Time (23:00-07:00hrs) Baseline Noise Level at NM1 (Government Staff Quarters)

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
12-Apr-10	00:00:00	59.4	59.5	58.5
12-Apr-10	00:05:00	59.6	60.0	59.0
12-Apr-10	00:10:00	59.7	60.0	59.0
12-Apr-10	00:15:00	59.5	60.0	59.0
12-Apr-10	00:20:00	59.4	60.0	59.0
12-Apr-10	00:25:00	59.2	59.5	58.5
12-Apr-10	00:30:00	59.1	59.5	58.5
12-Apr-10	00:35:00	59.2	59.5	58.5
12-Apr-10	00:40:00	59.0	59.5	58.5
12-Apr-10	00:45:00	59.1	59.5	58.0
12-Apr-10	00:50:00	58.1	58.5	57.5
12-Apr-10	00:55:00	58.3	58.5	57.5
12-Apr-10	01:00:00	58.3	58.5	57.5
12-Apr-10	01:05:00	58.5	59.0	58.0
12-Apr-10	01:10:00	58.3	58.5	57.5
12-Apr-10	01:15:00	58.6	59.0	58.0
12-Apr-10	01:20:00	58.7	59.5	58.0
12-Apr-10	01:25:00	58.4	58.5	58.0
12-Apr-10	01:30:00	58.4	58.5	58.0
12-Apr-10	01:35:00	58.7	59.0	58.0
12-Apr-10	01:40:00	58.2	58.5	57.5
12-Apr-10	01:45:00	57.8	58.0	57.5
12-Apr-10	01:50:00	58.5	59.0	57.5
12-Apr-10	01:55:00	62.7	60.5	57.5
12-Apr-10	02:00:00	58.1	58.5	57.5
12-Apr-10	02:05:00	58.1	58.5	57.5
12-Apr-10	02:10:00	62.3	59.5	57.0
12-Apr-10	02:15:00	57.6	58.0	57.0
12-Apr-10	02:20:00	57.6	58.0	57.0
12-Apr-10	02:25:00	57.3	57.5	57.0
12-Apr-10	02:30:00	57.5	58.0	57.0
12-Apr-10	02:35:00	57.7	58.0	57.0
12-Apr-10	02:40:00	58.2	58.5	57.5
12-Apr-10	02:45:00	58.8	59.5	58.0
12-Apr-10	02:50:00	58.3	59.0	57.5
12-Apr-10	02:55:00	58.0	58.0	57.5
12-Apr-10	03:00:00	58.4	58.5	57.5
12-Apr-10	03:05:00	58.7	59.0	58.0
12-Apr-10	03:10:00	58.7	59.0	58.0
12-Apr-10	03:15:00	58.6	59.0	58.0
12-Apr-10	03:20:00	58.8	59.0	58.0
12-Apr-10	03:25:00	58.1	58.5	57.5
12-Apr-10	03:30:00	58.5	59.0	58.0
12-Apr-10	03:35:00	58.7	59.0	58.0
12-Apr-10	03:40:00	58.5	59.0	58.0
12-Apr-10	03:45:00	58.4	59.0	57.5
12-Apr-10	03:50:00	58.5	59.0	58.0
12-Apr-10	03:55:00	58.0	58.5	57.5
12-Apr-10	04:00:00	58.0	58.0	57.5
12-Apr-10	04:05:00	58.4	59.0	58.0
12-Apr-10	04:10:00	58.5	59.0	57.5
12-Apr-10	04:15:00	58.8	59.5	58.0
12-Apr-10	04:20:00	58.2	58.5	57.5
12-Apr-10	04:25:00	58.2	58.5	57.5
12-Apr-10	04:30:00	58.2	58.5	57.5
12-Apr-10	04:35:00	58.5	59.0	57.5
12-Apr-10	04:40:00	57.8	58.0	57.0
12-Apr-10	04:45:00	57.8	58.0	57.0
12-Apr-10	04:50:00	57.9	58.5	57.5
12-Apr-10	04:55:00	57.8	58.0	57.0
12-Apr-10	05:00:00	58.2	58.5	57.5
12-Apr-10	05:05:00	58.1	58.5	57.5
12-Apr-10	05:10:00	58.0	58.5	57.5
12-Apr-10	05:15:00	58.0	58.5	57.5
12-Apr-10	05:20:00	58.3	58.5	57.5
12-Apr-10	05:25:00	58.4	59.0	58.0
12-Apr-10	05:30:00	58.7	59.5	57.5
12-Apr-10	05:35:00	58.0	58.5	57.5
12-Apr-10	05:40:00	58.4	59.0	57.5
12-Apr-10	05:45:00	58.8	59.5	58.0
12-Apr-10	05:50:00	58.9	59.5	58.0
12-Apr-10	05:55:00	58.7	59.5	58.0
12-Apr-10	06:00:00	58.6	59.0	57.5
12-Apr-10	06:05:00	59.8	61.0	58.0
12-Apr-10	06:10:00	60.3	62.1	58.5
12-Apr-10	06:15:00	59.2	60.5	58.0
12-Apr-10	06:20:00	59.1	59.5	58.5
12-Apr-10	06:25:00	59.1	59.5	58.0
12-Apr-10	06:30:00	58.8	59.0	58.0
12-Apr-10	06:35:00	58.7	59.5	58.0
12-Apr-10	06:40:00	58.4	59.0	57.5
12-Apr-10	06:45:00	58.8	59.5	57.5
12-Apr-10	06:50:00	60.5	60.5	57.5
12-Apr-10	06:55:00	58.7	59.0	57.5
12-Apr-10	23:00:00	59.3	59.5	58.5
12-Apr-10	23:05:00	59.3	59.5	58.5
12-Apr-10	23:10:00	59.1	59.5	58.5
12-Apr-10	23:15:00	59.3	59.5	58.5
12-Apr-10	23:20:00	59.0	59.5	58.5
12-Apr-10	23:25:00	59.2	59.5	58.5
12-Apr-10	23:30:00	59.0	59.5	58.5
12-Apr-10	23:35:00	59.0	59.5	58.5
12-Apr-10	23:40:00	59.2	59.5	58.5
12-Apr-10	23:45:00	59.4	60.0	58.5
12-Apr-10	23:50:00	59.4	59.5	58.5
12-Apr-10	23:55:00	59.2	59.5	58.5
	Mean	58.8	59.2	57.9
	Maximum	62.7	62.1	59.0
	Minimum	57.3	57.5	57.0

Appendix B4

Night Time (23:00-07:00hrs) Baseline Noise Level at NM1 (Government Staff Quarters)

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
13-Apr-10	00:00:00	60.7	61.5	59.5
13-Apr-10	00:05:00	60.6	61.5	59.5
13-Apr-10	00:10:00	60.1	61.0	59.0
13-Apr-10	00:15:00	59.4	60.0	58.5
13-Apr-10	00:20:00	59.4	60.0	58.5
13-Apr-10	00:25:00	59.4	60.0	58.5
13-Apr-10	00:30:00	59.5	60.0	58.5
13-Apr-10	00:35:00	59.1	59.5	58.5
13-Apr-10	00:40:00	59.4	60.0	58.5
13-Apr-10	00:45:00	59.8	60.0	59.0
13-Apr-10	00:50:00	59.6	60.0	58.5
13-Apr-10	00:55:00	59.3	59.5	58.5
13-Apr-10	01:00:00	59.6	60.0	58.5
13-Apr-10	01:05:00	59.0	59.5	58.5
13-Apr-10	01:10:00	59.2	59.5	58.5
13-Apr-10	01:15:00	59.0	59.5	58.5
13-Apr-10	01:20:00	59.3	59.5	58.5
13-Apr-10	01:25:00	59.4	60.0	59.0
13-Apr-10	01:30:00	59.5	59.5	59.0
13-Apr-10	01:35:00	58.9	59.5	58.0
13-Apr-10	01:40:00	58.7	59.0	58.0
13-Apr-10	01:45:00	58.6	59.0	58.0
13-Apr-10	01:50:00	58.6	59.0	58.0
13-Apr-10	01:55:00	58.6	59.0	58.0
13-Apr-10	02:00:00	58.5	58.5	58.0
13-Apr-10	02:05:00	58.5	59.0	58.0
13-Apr-10	02:10:00	58.6	59.0	58.0
13-Apr-10	02:15:00	58.7	59.0	58.0
13-Apr-10	02:20:00	58.7	59.0	58.0
13-Apr-10	02:25:00	58.7	59.0	58.0
13-Apr-10	02:30:00	58.8	59.0	58.0
13-Apr-10	02:35:00	59.1	59.5	58.5
13-Apr-10	02:40:00	59.0	59.5	58.5
13-Apr-10	02:45:00	58.8	59.0	58.0
13-Apr-10	02:50:00	58.8	59.0	58.0
13-Apr-10	02:55:00	58.6	59.0	58.0
13-Apr-10	03:00:00	58.8	59.0	58.0
13-Apr-10	03:05:00	58.9	59.0	58.5
13-Apr-10	03:10:00	58.9	59.0	58.5
13-Apr-10	03:15:00	58.8	59.0	58.0
13-Apr-10	03:20:00	59.1	59.5	58.5
13-Apr-10	03:25:00	58.8	59.0	58.0
13-Apr-10	03:30:00	58.8	59.0	58.0
13-Apr-10	03:35:00	58.7	59.0	58.0
13-Apr-10	03:40:00	58.6	59.0	58.0
13-Apr-10	03:45:00	58.6	59.0	58.0
13-Apr-10	03:50:00	58.5	58.5	58.0
13-Apr-10	03:55:00	58.5	58.5	58.0
13-Apr-10	04:00:00	58.0	58.5	57.5
13-Apr-10	04:05:00	57.8	58.0	57.5
13-Apr-10	04:10:00	57.9	58.0	57.5
13-Apr-10	04:15:00	58.0	58.5	57.5
13-Apr-10	04:20:00	58.1	58.5	57.5
13-Apr-10	04:25:00	57.9	58.0	57.5
13-Apr-10	04:30:00	58.0	58.5	57.5
13-Apr-10	04:35:00	57.2	58.0	56.5
13-Apr-10	04:40:00	57.8	58.0	57.0
13-Apr-10	04:45:00	57.6	58.0	57.0
13-Apr-10	04:50:00	57.5	58.0	57.0
13-Apr-10	04:55:00	57.8	58.0	57.5
13-Apr-10	05:00:00	57.8	58.0	57.0
13-Apr-10	05:05:00	57.9	58.0	57.5
13-Apr-10	05:10:00	58.0	58.5	57.5
13-Apr-10	05:15:00	58.1	58.5	57.5
13-Apr-10	05:20:00	58.4	58.5	57.5
13-Apr-10	05:25:00	58.3	58.5	58.0
13-Apr-10	05:30:00	58.4	58.5	58.0
13-Apr-10	05:35:00	58.8	59.0	58.0
13-Apr-10	05:40:00	59.0	59.5	58.5
13-Apr-10	05:45:00	59.0	59.5	58.0
13-Apr-10	05:50:00	58.6	59.0	57.5
13-Apr-10	05:55:00	58.5	59.0	57.5
13-Apr-10	06:00:00	58.5	59.0	58.0
13-Apr-10	06:05:00	58.4	58.5	57.5
13-Apr-10	06:10:00	58.5	59.0	57.5
13-Apr-10	06:15:00	58.3	59.0	57.5
13-Apr-10	06:20:00	58.6	59.0	57.5
13-Apr-10	06:25:00	58.9	59.5	58.0
13-Apr-10	06:30:00	59.4	60.5	58.0
13-Apr-10	06:35:00	58.8	60.0	57.5
13-Apr-10	06:40:00	60.1	62.6	58.0
13-Apr-10	06:45:00	60.8	62.6	58.5
13-Apr-10	06:50:00	61.2	63.1	58.5
13-Apr-10	06:55:00	63.2	66.1	58.5
13-Apr-10	23:00:00	59.5	60.0	59.0
13-Apr-10	23:05:00	59.7	60.0	59.0
13-Apr-10	23:10:00	59.9	60.5	58.5
13-Apr-10	23:15:00	59.2	60.0	58.5
13-Apr-10	23:20:00	59.4	60.0	58.5
13-Apr-10	23:25:00	59.3	59.5	58.5
13-Apr-10	23:30:00	59.2	59.5	58.5
13-Apr-10	23:35:00	59.4	60.0	58.5
13-Apr-10	23:40:00	60.0	60.5	59.5
13-Apr-10	23:45:00	59.7	60.0	59.0
13-Apr-10	23:50:00	59.5	60.0	59.0
13-Apr-10	23:55:00	59.1	59.5	58.5
	Mean	59.0	59.6	58.2
	Maximum	63.2	66.1	59.5
	Minimum	57.2	58.0	56.5

Appendix B4

Night Time (23:00-07:00hrs) Baseline Noise Level at NM1 (Government Staff Quarters)

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
14-Apr-10	00:00:00	59.0	59.5	58.0
14-Apr-10	00:05:00	58.9	59.0	58.5
14-Apr-10	00:10:00	58.9	59.0	58.0
14-Apr-10	00:15:00	58.8	59.0	58.0
14-Apr-10	00:20:00	59.0	59.5	58.5
14-Apr-10	00:25:00	58.7	59.0	58.0
14-Apr-10	00:30:00	58.8	59.0	58.0
14-Apr-10	00:35:00	58.8	59.0	58.0
14-Apr-10	00:40:00	58.8	59.0	58.0
14-Apr-10	00:45:00	58.7	59.0	58.0
14-Apr-10	00:50:00	59.1	59.5	58.5
14-Apr-10	00:55:00	58.8	59.0	58.0
14-Apr-10	01:00:00	58.8	59.0	58.0
14-Apr-10	01:05:00	58.7	59.0	58.0
14-Apr-10	01:10:00	58.9	59.5	58.0
14-Apr-10	01:15:00	58.8	59.5	58.0
14-Apr-10	01:20:00	58.7	59.0	58.0
14-Apr-10	01:25:00	58.7	59.0	58.0
14-Apr-10	01:30:00	58.9	59.5	58.0
14-Apr-10	01:35:00	58.7	59.0	58.0
14-Apr-10	01:40:00	58.7	59.0	58.0
14-Apr-10	01:45:00	58.7	59.0	58.0
14-Apr-10	01:50:00	58.4	59.0	58.0
14-Apr-10	01:55:00	58.4	58.5	57.5
14-Apr-10	02:00:00	58.8	59.0	58.0
14-Apr-10	02:05:00	58.8	59.0	58.0
14-Apr-10	02:10:00	58.8	59.0	58.0
14-Apr-10	02:15:00	58.6	59.0	58.0
14-Apr-10	02:20:00	58.7	59.0	58.0
14-Apr-10	02:25:00	58.7	59.0	58.0
14-Apr-10	02:30:00	58.7	59.0	58.0
14-Apr-10	02:35:00	58.8	59.5	58.0
14-Apr-10	02:40:00	58.7	59.0	58.0
14-Apr-10	02:45:00	58.8	59.0	58.0
14-Apr-10	02:50:00	58.8	59.0	58.0
14-Apr-10	02:55:00	58.9	59.5	58.0
14-Apr-10	03:00:00	58.8	59.0	58.0
14-Apr-10	03:05:00	58.7	59.0	58.0
14-Apr-10	03:10:00	58.8	59.5	58.0
14-Apr-10	03:15:00	58.8	59.0	58.0
14-Apr-10	03:20:00	58.8	59.5	58.0
14-Apr-10	03:25:00	58.7	59.0	58.0
14-Apr-10	03:30:00	58.4	59.0	57.5
14-Apr-10	03:35:00	58.5	59.0	58.0
14-Apr-10	03:40:00	58.4	59.0	57.5
14-Apr-10	03:45:00	58.4	59.0	58.0
14-Apr-10	03:50:00	58.5	59.0	58.0
14-Apr-10	03:55:00	58.1	59.0	57.0
14-Apr-10	04:00:00	57.4	58.0	56.5
14-Apr-10	04:05:00	57.5	58.0	57.0
14-Apr-10	04:10:00	57.9	58.5	57.0
14-Apr-10	04:15:00	58.2	58.5	57.0
14-Apr-10	04:20:00	58.0	58.5	57.0
14-Apr-10	04:25:00	57.8	58.5	57.0
14-Apr-10	04:30:00	57.6	58.5	57.0
14-Apr-10	04:35:00	57.7	58.5	56.5
14-Apr-10	04:40:00	57.6	58.0	56.5
14-Apr-10	04:45:00	57.5	58.0	56.5
14-Apr-10	04:50:00	57.8	58.5	56.5
14-Apr-10	04:55:00	57.4	58.5	56.5
14-Apr-10	05:00:00	57.2	58.0	56.0
14-Apr-10	05:05:00	57.8	59.0	56.5
14-Apr-10	05:10:00	57.2	58.0	56.0
14-Apr-10	05:15:00	57.0	57.5	56.0
14-Apr-10	05:20:00	57.1	57.5	56.0
14-Apr-10	05:25:00	57.9	59.0	56.5
14-Apr-10	05:30:00	58.2	59.5	57.0
14-Apr-10	05:35:00	57.5	58.5	56.5
14-Apr-10	05:40:00	57.8	58.5	56.5
14-Apr-10	05:45:00	58.5	59.0	57.5
14-Apr-10	05:50:00	58.5	59.0	57.5
14-Apr-10	05:55:00	58.4	59.5	57.0
14-Apr-10	06:00:00	58.2	59.0	57.0
14-Apr-10	06:05:00	58.6	59.5	57.5
14-Apr-10	06:10:00	59.1	60.0	57.5
14-Apr-10	06:15:00	62.0	66.1	57.5
14-Apr-10	06:20:00	60.1	63.1	57.5
14-Apr-10	06:25:00	58.4	59.5	57.0
14-Apr-10	06:30:00	58.1	58.5	57.0
14-Apr-10	06:35:00	58.1	59.0	57.0
14-Apr-10	06:40:00	58.4	59.0	57.0
14-Apr-10	06:45:00	58.7	59.5	57.0
14-Apr-10	06:50:00	58.6	60.0	57.0
14-Apr-10	06:55:00	58.6	59.5	57.5
14-Apr-10	23:00:00	59.9	61.0	58.5
14-Apr-10	23:05:00	59.8	60.5	58.5
14-Apr-10	23:10:00	59.8	60.5	58.5
14-Apr-10	23:15:00	60.0	61.0	58.5
14-Apr-10	23:20:00	59.7	60.5	58.5
14-Apr-10	23:25:00	59.6	60.5	58.5
14-Apr-10	23:30:00	59.5	60.0	58.5
14-Apr-10	23:35:00	60.0	61.0	58.5
14-Apr-10	23:40:00	60.4	61.5	59.0
14-Apr-10	23:45:00	60.0	61.0	58.5
14-Apr-10	23:50:00	59.7	60.5	58.5
14-Apr-10	23:55:00	60.8	63.6	58.5
	Mean	58.7	59.5	57.7
	Maximum	62.0	66.1	59.0
	Minimum	57.0	57.5	56.0

Appendix B4

Night Time (23:00-07:00hrs) Baseline Noise Level at NM1 (Government Staff Quarters)

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
15-Apr-10	00:00:00	60.3	61.0	59.0
15-Apr-10	00:05:00	60.1	61.0	59.0
15-Apr-10	00:10:00	60.2	61.5	59.0
15-Apr-10	00:15:00	59.8	60.5	58.5
15-Apr-10	00:20:00	60.1	61.0	59.0
15-Apr-10	00:25:00	60.1	61.0	59.0
15-Apr-10	00:30:00	59.7	60.5	58.5
15-Apr-10	00:35:00	60.0	61.5	58.0
15-Apr-10	00:40:00	60.3	61.5	59.0
15-Apr-10	00:45:00	59.8	60.5	59.0
15-Apr-10	00:50:00	61.5	63.1	60.0
15-Apr-10	00:55:00	61.4	63.1	59.5
15-Apr-10	01:00:00	60.1	61.0	59.0
15-Apr-10	01:05:00	60.3	61.0	59.0
15-Apr-10	01:10:00	60.4	61.0	59.0
15-Apr-10	01:15:00	61.2	62.6	59.5
15-Apr-10	01:20:00	60.4	61.0	59.5
15-Apr-10	01:25:00	60.0	60.5	59.0
15-Apr-10	01:30:00	60.4	61.0	59.5
15-Apr-10	01:35:00	61.5	62.1	60.0
15-Apr-10	01:40:00	62.5	63.1	61.0
15-Apr-10	01:45:00	61.2	62.1	60.0
15-Apr-10	01:50:00	61.2	62.6	59.5
15-Apr-10	01:55:00	61.6	63.1	60.0
15-Apr-10	02:00:00	62.7	64.1	61.0
15-Apr-10	02:05:00	63.1	64.6	60.0
15-Apr-10	02:10:00	60.7	61.5	59.5
15-Apr-10	02:15:00	60.3	61.0	59.5
15-Apr-10	02:20:00	60.5	61.5	59.0
15-Apr-10	02:25:00	59.6	62.6	56.5
15-Apr-10	02:30:00	60.4	61.0	59.5
15-Apr-10	02:35:00	60.5	61.0	59.5
15-Apr-10	02:40:00	60.3	61.0	59.5
15-Apr-10	02:45:00	59.8	61.0	58.5
15-Apr-10	02:50:00	59.7	60.0	59.0
15-Apr-10	02:55:00	59.9	60.5	59.0
15-Apr-10	03:00:00	60.6	61.5	59.5
15-Apr-10	03:05:00	62.3	63.1	61.0
15-Apr-10	03:10:00	61.7	63.1	60.0
15-Apr-10	03:15:00	62.1	63.1	60.0
15-Apr-10	03:20:00	62.5	63.1	61.0
15-Apr-10	03:25:00	61.7	62.6	60.5
15-Apr-10	03:30:00	60.4	61.0	59.5
15-Apr-10	03:35:00	61.0	62.1	60.0
15-Apr-10	03:40:00	62.0	63.1	60.5
15-Apr-10	03:45:00	63.2	64.1	62.1
15-Apr-10	03:50:00	63.1	64.6	61.0
15-Apr-10	03:55:00	63.0	63.6	61.5
15-Apr-10	04:00:00	62.2	62.6	61.0
15-Apr-10	04:05:00	61.7	63.1	60.5
15-Apr-10	04:10:00	61.0	61.5	60.0
15-Apr-10	04:15:00	61.4	62.6	60.0
15-Apr-10	04:20:00	61.0	61.5	60.0
15-Apr-10	04:25:00	60.5	61.0	59.5
15-Apr-10	04:30:00	60.4	61.0	59.5
15-Apr-10	04:35:00	60.0	60.5	59.0
15-Apr-10	04:40:00	60.1	60.5	59.0
15-Apr-10	04:45:00	60.6	61.5	59.5
15-Apr-10	04:50:00	60.4	61.0	59.0
15-Apr-10	04:55:00	59.5	60.0	58.5
15-Apr-10	05:00:00	58.7	59.5	57.0
15-Apr-10	05:05:00	58.1	58.5	56.5
15-Apr-10	05:10:00	57.9	58.5	56.5
15-Apr-10	05:15:00	57.8	58.5	56.5
15-Apr-10	05:20:00	57.8	59.0	56.5
15-Apr-10	05:25:00	57.8	58.5	56.5
15-Apr-10	05:30:00	57.7	58.5	56.5
15-Apr-10	05:35:00	57.7	58.5	56.5
15-Apr-10	05:40:00	57.9	59.0	56.5
15-Apr-10	05:45:00	59.2	60.0	57.5
15-Apr-10	05:50:00	59.7	60.0	59.0
15-Apr-10	05:55:00	59.5	60.0	58.5
15-Apr-10	06:00:00	58.6	59.5	57.5
15-Apr-10	06:05:00	58.3	59.0	57.0
15-Apr-10	06:10:00	60.2	61.5	57.5
15-Apr-10	06:15:00	60.7	62.6	58.5
15-Apr-10	06:20:00	60.0	61.5	58.5
15-Apr-10	06:25:00	59.6	60.5	58.0
15-Apr-10	06:30:00	60.1	62.1	58.0
15-Apr-10	06:35:00	59.3	60.5	58.0
15-Apr-10	06:40:00	58.9	59.5	58.0
15-Apr-10	06:45:00	59.1	60.0	58.0
15-Apr-10	06:50:00	60.2	61.0	58.5
15-Apr-10	06:55:00	60.6	61.5	59.5
15-Apr-10	23:00:00	59.7	60.0	59.0
15-Apr-10	23:05:00	59.7	60.0	58.5
15-Apr-10	23:10:00	60.2	61.5	59.0
15-Apr-10	23:15:00	59.8	60.5	59.0
15-Apr-10	23:20:00	59.7	60.0	58.5
15-Apr-10	23:25:00	59.9	60.5	59.0
15-Apr-10	23:30:00	59.6	60.5	58.5
15-Apr-10	23:35:00	59.5	60.0	58.5
15-Apr-10	23:40:00	59.5	60.0	58.5
15-Apr-10	23:45:00	59.6	60.0	59.0
15-Apr-10	23:50:00	59.5	60.5	58.5
15-Apr-10	23:55:00	59.6	60.5	58.5
	Mean	60.5	61.4	59.2
	Maximum	63.2	64.6	62.1
	Minimum	57.7	58.5	56.5

Appendix B4

Night Time (23:00-07:00hrs) Baseline Noise Level at NM1 (Government Staff Quarters)

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
16-Apr-10	00:00:00	59.4	60.0	58.5
16-Apr-10	00:05:00	59.3	60.0	58.5
16-Apr-10	00:10:00	59.5	60.0	58.5
16-Apr-10	00:15:00	59.6	60.5	58.5
16-Apr-10	00:20:00	59.1	60.0	58.0
16-Apr-10	00:25:00	59.2	59.5	58.5
16-Apr-10	00:30:00	59.6	60.5	58.5
16-Apr-10	00:35:00	59.3	60.0	58.5
16-Apr-10	00:40:00	59.2	60.0	58.5
16-Apr-10	00:45:00	59.1	59.5	58.0
16-Apr-10	00:50:00	59.5	60.0	58.5
16-Apr-10	00:55:00	59.5	60.0	58.5
16-Apr-10	01:00:00	59.5	60.0	58.5
16-Apr-10	01:05:00	59.6	60.5	58.5
16-Apr-10	01:10:00	59.4	60.0	58.5
16-Apr-10	01:15:00	59.5	60.5	58.5
16-Apr-10	01:20:00	60.1	60.5	59.0
16-Apr-10	01:25:00	60.0	60.5	59.0
16-Apr-10	01:30:00	60.5	61.5	59.0
16-Apr-10	01:35:00	60.7	61.5	60.0
16-Apr-10	01:40:00	59.9	61.0	59.0
16-Apr-10	01:45:00	60.0	61.0	58.5
16-Apr-10	01:50:00	59.7	61.0	58.0
16-Apr-10	01:55:00	58.5	59.5	57.0
16-Apr-10	02:00:00	58.0	59.0	57.0
16-Apr-10	02:05:00	57.7	58.5	56.5
16-Apr-10	02:10:00	57.6	58.0	56.5
16-Apr-10	02:15:00	57.4	57.5	56.5
16-Apr-10	02:20:00	57.3	57.5	56.5
16-Apr-10	02:25:00	57.6	59.0	56.5
16-Apr-10	02:30:00	57.8	59.0	56.5
16-Apr-10	02:35:00	58.0	59.5	57.0
16-Apr-10	02:40:00	57.9	58.5	57.0
16-Apr-10	02:45:00	57.8	58.5	57.0
16-Apr-10	02:50:00	57.7	58.5	56.5
16-Apr-10	02:55:00	57.5	58.0	56.5
16-Apr-10	03:00:00	57.6	58.0	56.5
16-Apr-10	03:05:00	57.7	58.5	56.5
16-Apr-10	03:10:00	57.9	58.5	56.5
16-Apr-10	03:15:00	57.6	58.0	56.5
16-Apr-10	03:20:00	57.6	58.0	56.5
16-Apr-10	03:25:00	57.6	58.0	56.5
16-Apr-10	03:30:00	57.5	58.0	56.5
16-Apr-10	03:35:00	57.6	58.0	57.0
16-Apr-10	03:40:00	57.8	58.5	57.0
16-Apr-10	03:45:00	57.9	58.5	57.0
16-Apr-10	03:50:00	57.8	58.5	57.0
16-Apr-10	03:55:00	57.9	58.5	57.0
16-Apr-10	04:00:00	57.9	58.5	57.0
16-Apr-10	04:05:00	57.9	58.5	57.0
16-Apr-10	04:10:00	58.0	58.5	57.0
16-Apr-10	04:15:00	58.0	58.5	57.0
16-Apr-10	04:20:00	57.9	58.5	57.0
16-Apr-10	04:25:00	58.1	58.5	57.0
16-Apr-10	04:30:00	57.9	58.5	57.0
16-Apr-10	04:35:00	58.0	58.5	57.0
16-Apr-10	04:40:00	58.0	58.5	57.0
16-Apr-10	04:45:00	58.0	58.5	57.0
16-Apr-10	04:50:00	57.7	58.0	57.0
16-Apr-10	04:55:00	57.9	58.5	57.0
16-Apr-10	05:00:00	58.0	58.5	57.0
16-Apr-10	05:05:00	58.1	58.5	57.0
16-Apr-10	05:10:00	57.9	58.5	57.0
16-Apr-10	05:15:00	57.9	59.0	56.5
16-Apr-10	05:20:00	58.3	60.0	57.0
16-Apr-10	05:25:00	58.1	58.5	57.0
16-Apr-10	05:30:00	57.9	58.5	57.0
16-Apr-10	05:35:00	57.8	58.5	56.5
16-Apr-10	05:40:00	58.5	60.0	57.0
16-Apr-10	05:45:00	60.1	61.0	59.0
16-Apr-10	05:50:00	59.7	60.0	58.5
16-Apr-10	05:55:00	59.3	62.1	57.5
16-Apr-10	06:00:00	57.9	58.5	57.0
16-Apr-10	06:05:00	57.6	58.0	56.5
16-Apr-10	06:10:00	57.4	58.0	56.5
16-Apr-10	06:15:00	57.3	58.0	56.5
16-Apr-10	06:20:00	57.3	58.0	56.5
16-Apr-10	06:25:00	57.6	58.5	56.5
16-Apr-10	06:30:00	57.5	58.5	56.0
16-Apr-10	06:35:00	57.3	58.0	56.0
16-Apr-10	06:40:00	57.9	59.0	56.5
16-Apr-10	06:45:00	57.3	58.0	56.5
16-Apr-10	06:50:00	57.4	58.0	56.5
16-Apr-10	06:55:00	60.0	62.6	57.0
16-Apr-10	23:00:00	59.8	60.5	58.5
16-Apr-10	23:05:00	59.8	60.5	58.5
16-Apr-10	23:10:00	60.0	61.0	58.5
16-Apr-10	23:15:00	59.7	60.5	58.5
16-Apr-10	23:20:00	59.6	60.5	58.5
16-Apr-10	23:25:00	60.2	61.0	59.0
16-Apr-10	23:30:00	59.9	60.5	59.0
16-Apr-10	23:35:00	59.2	60.0	58.0
16-Apr-10	23:40:00	59.7	60.0	58.5
16-Apr-10	23:45:00	59.3	60.5	58.0
16-Apr-10	23:50:00	58.9	59.5	58.0
16-Apr-10	23:55:00	59.4	60.0	58.5
	Mean	58.7	59.5	57.6
	Maximum	60.7	62.6	60.0
	Minimum	57.3	57.5	56.0

Appendix B4

Night Time (23:00-07:00hrs) Baseline Noise Level at NM1 (Government Staff Quarters)

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
17-Apr-10	00:00:00	61.6	63.1	60.0
17-Apr-10	00:05:00	62.0	63.1	60.0
17-Apr-10	00:10:00	61.4	62.6	59.5
17-Apr-10	00:15:00	61.4	62.6	59.5
17-Apr-10	00:20:00	60.7	61.5	59.5
17-Apr-10	00:25:00	60.8	61.5	59.5
17-Apr-10	00:30:00	61.3	62.6	60.0
17-Apr-10	00:35:00	61.1	62.6	59.5
17-Apr-10	00:40:00	62.2	63.6	60.0
17-Apr-10	00:45:00	60.8	62.1	59.5
17-Apr-10	00:50:00	60.9	62.1	59.5
17-Apr-10	00:55:00	62.1	63.6	60.0
17-Apr-10	01:00:00	61.3	62.6	59.5
17-Apr-10	01:05:00	61.4	62.6	59.5
17-Apr-10	01:10:00	60.4	61.5	59.0
17-Apr-10	01:15:00	62.7	63.6	61.5
17-Apr-10	01:20:00	61.3	63.6	59.5
17-Apr-10	01:25:00	62.6	63.6	61.0
17-Apr-10	01:30:00	61.9	63.1	60.0
17-Apr-10	01:35:00	61.0	62.6	59.0
17-Apr-10	01:40:00	60.1	61.0	59.0
17-Apr-10	01:45:00	60.3	61.5	59.0
17-Apr-10	01:50:00	60.4	61.0	59.5
17-Apr-10	01:55:00	60.0	60.5	59.0
17-Apr-10	02:00:00	60.4	61.0	59.5
17-Apr-10	02:05:00	61.5	62.1	60.0
17-Apr-10	02:10:00	62.5	63.1	61.0
17-Apr-10	02:15:00	61.2	62.1	60.0
17-Apr-10	02:20:00	61.2	62.6	59.5
17-Apr-10	02:25:00	61.6	63.1	60.0
17-Apr-10	02:30:00	62.7	64.1	61.0
17-Apr-10	02:35:00	63.1	64.6	60.0
17-Apr-10	02:40:00	60.7	61.5	59.5
17-Apr-10	02:45:00	60.3	61.0	59.5
17-Apr-10	02:50:00	60.5	61.5	59.0
17-Apr-10	02:55:00	59.6	62.6	56.5
17-Apr-10	03:00:00	60.3	63.6	57.0
17-Apr-10	03:05:00	60.8	64.1	57.0
17-Apr-10	03:10:00	61.0	64.1	57.5
17-Apr-10	03:15:00	61.4	65.1	57.5
17-Apr-10	03:20:00	58.4	59.0	57.5
17-Apr-10	03:25:00	58.2	59.0	57.0
17-Apr-10	03:30:00	58.3	59.5	57.5
17-Apr-10	03:35:00	58.4	59.5	57.5
17-Apr-10	03:40:00	58.8	60.5	57.5
17-Apr-10	03:45:00	59.6	62.1	57.5
17-Apr-10	03:50:00	59.5	60.5	57.5
17-Apr-10	03:55:00	59.0	59.5	58.0
17-Apr-10	04:00:00	58.6	59.0	57.5
17-Apr-10	04:05:00	58.1	58.5	57.0
17-Apr-10	04:10:00	57.9	58.0	57.0

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
17-Apr-10	04:15:00	58.0	58.0	57.5
17-Apr-10	04:20:00	58.0	58.5	57.0
17-Apr-10	04:25:00	58.0	58.0	57.0
17-Apr-10	04:30:00	58.1	58.5	57.5
17-Apr-10	04:35:00	58.2	58.5	57.5
17-Apr-10	04:40:00	58.2	58.5	57.5
17-Apr-10	04:45:00	58.3	58.5	57.5
17-Apr-10	04:50:00	58.3	58.5	57.5
17-Apr-10	04:55:00	58.2	59.0	57.5
17-Apr-10	05:00:00	58.3	59.0	57.5
17-Apr-10	05:05:00	58.1	58.5	57.5
17-Apr-10	05:10:00	58.0	58.5	57.5
17-Apr-10	05:15:00	58.6	61.0	57.5
17-Apr-10	05:20:00	58.7	60.0	57.5
17-Apr-10	05:25:00	58.1	58.5	57.0
17-Apr-10	05:30:00	58.0	58.5	57.0
17-Apr-10	05:35:00	58.1	58.5	57.5
17-Apr-10	05:40:00	58.2	58.5	57.5
17-Apr-10	05:45:00	59.3	61.0	58.0
17-Apr-10	05:50:00	59.5	60.5	58.0
17-Apr-10	05:55:00	60.8	62.1	59.0
17-Apr-10	06:00:00	59.7	60.5	58.5
17-Apr-10	06:05:00	60.1	61.0	58.0
17-Apr-10	06:10:00	59.2	60.0	57.5
17-Apr-10	06:15:00	59.1	60.0	57.5
17-Apr-10	06:20:00	59.0	60.0	57.0
17-Apr-10	06:25:00	58.1	59.0	57.0
17-Apr-10	06:30:00	58.2	59.0	57.0
17-Apr-10	06:35:00	59.9	62.1	57.0
17-Apr-10	06:40:00	58.6	60.0	57.0
17-Apr-10	06:45:00	59.6	61.5	57.0
17-Apr-10	06:50:00	61.0	64.1	58.0
17-Apr-10	06:55:00	61.0	62.6	58.5
17-Apr-10	23:00:00	58.8	59.0	58.0
17-Apr-10	23:05:00	59.0	59.5	58.0
17-Apr-10	23:10:00	58.9	59.5	58.0
17-Apr-10	23:15:00	58.9	60.0	58.0
17-Apr-10	23:20:00	59.5	60.5	58.0
17-Apr-10	23:25:00	59.5	60.0	58.5
17-Apr-10	23:30:00	59.3	60.0	58.5
17-Apr-10	23:35:00	60.1	61.0	58.5
17-Apr-10	23:40:00	58.7	59.5	57.5
17-Apr-10	23:45:00	58.9	59.5	58.0
17-Apr-10	23:50:00	58.6	59.5	57.5
17-Apr-10	23:55:00	59.0	60.0	58.0
	Mean	60.1	61.3	58.5
	Maximum	63.1	65.1	61.5
	Minimum	57.9	58.0	56.5

Appendix B4

Night Time (23:00-07:00hrs) Baseline Noise Level at NM1 (Government Staff Quarters)

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
18-Apr-10	00:00:00	60.2	61.5	58.5
18-Apr-10	00:05:00	61.9	62.6	60.5
18-Apr-10	00:10:00	60.2	62.1	58.5
18-Apr-10	00:15:00	61.7	62.6	60.0
18-Apr-10	00:20:00	62.4	63.1	61.0
18-Apr-10	00:25:00	61.6	62.6	59.5
18-Apr-10	00:30:00	60.4	61.0	59.0
18-Apr-10	00:35:00	60.8	61.5	59.5
18-Apr-10	00:40:00	61.1	62.1	60.0
18-Apr-10	00:45:00	61.0	62.1	59.0
18-Apr-10	00:50:00	59.6	60.5	58.0
18-Apr-10	00:55:00	58.6	59.0	57.5
18-Apr-10	01:00:00	57.5	58.0	56.5
18-Apr-10	01:05:00	57.4	58.0	56.5
18-Apr-10	01:10:00	57.5	58.0	56.5
18-Apr-10	01:15:00	57.4	58.0	56.5
18-Apr-10	01:20:00	57.4	58.0	56.5
18-Apr-10	01:25:00	57.7	58.0	56.5
18-Apr-10	01:30:00	57.7	58.0	57.0
18-Apr-10	01:35:00	57.5	58.0	56.5
18-Apr-10	01:40:00	57.5	58.0	56.5
18-Apr-10	01:45:00	57.3	58.0	56.5
18-Apr-10	01:50:00	57.2	57.5	56.0
18-Apr-10	01:55:00	57.3	58.0	56.5
18-Apr-10	02:00:00	56.9	57.0	56.0
18-Apr-10	02:05:00	56.6	56.5	56.0
18-Apr-10	02:10:00	57.0	57.0	56.0
18-Apr-10	02:15:00	57.6	58.0	57.0
18-Apr-10	02:20:00	57.5	58.0	56.5
18-Apr-10	02:25:00	57.6	58.0	56.5
18-Apr-10	02:30:00	57.6	58.0	56.5
18-Apr-10	02:35:00	57.2	58.0	56.0
18-Apr-10	02:40:00	57.2	57.5	56.5
18-Apr-10	02:45:00	57.0	57.5	56.0
18-Apr-10	02:50:00	57.0	57.5	56.0
18-Apr-10	02:55:00	57.2	58.0	56.5
18-Apr-10	03:00:00	57.4	58.0	56.5
18-Apr-10	03:05:00	57.3	57.5	56.5
18-Apr-10	03:10:00	57.4	58.0	56.5
18-Apr-10	03:15:00	57.6	58.0	56.5
18-Apr-10	03:20:00	57.2	57.5	56.5
18-Apr-10	03:25:00	57.0	57.0	56.5
18-Apr-10	03:30:00	57.0	57.5	56.5
18-Apr-10	03:35:00	57.1	57.5	56.5
18-Apr-10	03:40:00	57.2	57.5	56.5
18-Apr-10	03:45:00	57.1	57.5	56.0
18-Apr-10	03:50:00	57.1	57.5	56.5
18-Apr-10	03:55:00	57.2	57.5	56.5
18-Apr-10	04:00:00	57.3	57.5	56.5
18-Apr-10	04:05:00	57.3	57.5	56.5
18-Apr-10	04:10:00	57.2	57.5	56.5
18-Apr-10	04:15:00	57.1	57.5	56.5
18-Apr-10	04:20:00	57.2	58.0	56.0
18-Apr-10	04:25:00	57.3	57.5	56.5
18-Apr-10	04:30:00	57.1	57.5	56.0
18-Apr-10	04:35:00	57.0	57.5	56.0
18-Apr-10	04:40:00	57.1	57.5	56.0
18-Apr-10	04:45:00	57.2	57.5	56.5
18-Apr-10	04:50:00	57.0	57.0	56.0
18-Apr-10	04:55:00	56.8	57.0	56.0
18-Apr-10	05:00:00	57.1	57.5	56.5
18-Apr-10	05:05:00	57.4	57.5	56.5
18-Apr-10	05:10:00	57.6	58.0	56.5
18-Apr-10	05:15:00	57.6	58.0	56.5
18-Apr-10	05:20:00	57.6	58.5	56.5
18-Apr-10	05:25:00	58.2	59.5	57.0
18-Apr-10	05:30:00	58.3	59.0	57.5
18-Apr-10	05:35:00	58.4	59.0	57.5
18-Apr-10	05:40:00	58.1	58.5	57.0
18-Apr-10	05:45:00	57.8	58.5	56.5
18-Apr-10	05:50:00	58.2	58.5	56.5
18-Apr-10	05:55:00	58.0	59.0	56.5
18-Apr-10	06:00:00	58.2	59.5	57.0
18-Apr-10	06:05:00	57.7	58.5	56.5
18-Apr-10	06:10:00	57.5	58.5	56.5
18-Apr-10	06:15:00	57.5	58.0	56.5
18-Apr-10	06:20:00	57.6	58.0	56.5
18-Apr-10	06:25:00	58.0	59.0	57.0
18-Apr-10	06:30:00	57.5	58.5	56.5
18-Apr-10	06:35:00	57.9	59.0	56.5
18-Apr-10	06:40:00	59.3	60.5	58.0
18-Apr-10	06:45:00	61.2	62.1	60.0
18-Apr-10	06:50:00	60.7	61.5	59.5
18-Apr-10	06:55:00	61.3	62.1	59.5
18-Apr-10	23:00:00	60.1	61.0	59.0
18-Apr-10	23:05:00	59.9	60.5	59.0
18-Apr-10	23:10:00	60.0	60.5	59.0
18-Apr-10	23:15:00	60.2	61.0	59.0
18-Apr-10	23:20:00	60.0	60.5	59.0
18-Apr-10	23:25:00	59.9	60.5	59.0
18-Apr-10	23:30:00	60.2	61.0	59.0
18-Apr-10	23:35:00	59.9	60.5	59.0
18-Apr-10	23:40:00	59.2	60.0	58.0
18-Apr-10	23:45:00	59.7	60.0	58.5
18-Apr-10	23:50:00	59.8	61.0	58.0
18-Apr-10	23:55:00	59.3	60.5	58.0
	Mean	58.6	59.2	57.4
	Maximum	62.4	63.1	61.0
	Minimum	56.6	56.5	56.0

Appendix B4

Night Time (23:00-07:00hrs) Baseline Noise Level at NM1 (Government Staff Quarters)

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
19-Apr-10	00:00:00	59.6	61.0	57.5
19-Apr-10	00:05:00	60.1	62.1	58.0
19-Apr-10	00:10:00	60.6	62.1	58.5
19-Apr-10	00:15:00	61.4	62.6	59.5
19-Apr-10	00:20:00	61.1	62.1	59.5
19-Apr-10	00:25:00	62.0	63.1	60.5
19-Apr-10	00:30:00	62.3	63.1	60.5
19-Apr-10	00:35:00	63.2	63.6	62.1
19-Apr-10	00:40:00	63.0	64.1	61.5
19-Apr-10	00:45:00	62.3	63.1	61.0
19-Apr-10	00:50:00	62.3	63.1	61.0
19-Apr-10	00:55:00	61.7	62.6	60.0
19-Apr-10	01:00:00	62.5	63.1	61.5
19-Apr-10	01:05:00	62.4	62.6	61.0
19-Apr-10	01:10:00	63.0	63.6	61.5
19-Apr-10	01:15:00	62.5	63.1	61.5
19-Apr-10	01:20:00	61.5	62.6	59.5
19-Apr-10	01:25:00	58.5	59.5	57.5
19-Apr-10	01:30:00	58.3	59.0	57.5
19-Apr-10	01:35:00	58.4	59.0	57.5
19-Apr-10	01:40:00	58.2	58.5	57.5
19-Apr-10	01:45:00	58.0	58.5	57.5
19-Apr-10	01:50:00	58.1	58.5	57.5
19-Apr-10	01:55:00	57.7	58.0	57.0
19-Apr-10	02:00:00	57.7	58.0	57.0
19-Apr-10	02:05:00	57.5	58.0	56.5
19-Apr-10	02:10:00	57.2	58.0	56.0
19-Apr-10	02:15:00	57.3	58.0	56.5
19-Apr-10	02:20:00	57.5	58.0	56.5
19-Apr-10	02:25:00	58.0	59.5	56.5
19-Apr-10	02:30:00	57.4	58.0	56.5
19-Apr-10	02:35:00	57.4	58.0	56.5
19-Apr-10	02:40:00	57.4	58.0	56.5
19-Apr-10	02:45:00	57.2	58.0	56.0
19-Apr-10	02:50:00	57.2	58.0	56.0
19-Apr-10	02:55:00	57.3	58.0	56.5
19-Apr-10	03:00:00	57.4	58.0	56.5
19-Apr-10	03:05:00	57.2	57.5	56.5
19-Apr-10	03:10:00	56.9	57.0	56.0
19-Apr-10	03:15:00	57.3	57.5	56.5
19-Apr-10	03:20:00	57.3	58.0	56.5
19-Apr-10	03:25:00	57.3	57.5	56.5
19-Apr-10	03:30:00	57.3	58.0	56.5
19-Apr-10	03:35:00	57.4	58.0	56.5
19-Apr-10	03:40:00	57.5	58.0	56.5
19-Apr-10	03:45:00	57.3	58.0	56.5
19-Apr-10	03:50:00	57.4	58.5	56.5
19-Apr-10	03:55:00	57.4	58.0	56.5
19-Apr-10	04:00:00	57.5	58.0	56.5
19-Apr-10	04:05:00	57.6	58.0	56.5
19-Apr-10	04:10:00	58.0	59.0	57.0
19-Apr-10	04:15:00	57.7	58.0	57.0
19-Apr-10	04:20:00	57.7	58.0	56.5
19-Apr-10	04:25:00	57.7	58.0	57.0
19-Apr-10	04:30:00	58.0	58.0	57.0
19-Apr-10	04:35:00	58.0	58.5	57.0
19-Apr-10	04:40:00	58.1	58.5	57.0
19-Apr-10	04:45:00	58.0	58.5	57.0
19-Apr-10	04:50:00	58.1	58.5	57.0
19-Apr-10	04:55:00	58.3	58.5	57.5
19-Apr-10	05:00:00	58.3	59.0	57.0
19-Apr-10	05:05:00	57.7	58.0	57.0
19-Apr-10	05:10:00	57.8	58.5	57.0
19-Apr-10	05:15:00	57.9	58.5	57.0
19-Apr-10	05:20:00	58.1	58.5	57.0
19-Apr-10	05:25:00	58.4	59.5	57.0
19-Apr-10	05:30:00	60.3	61.0	58.0
19-Apr-10	05:35:00	61.1	61.5	60.5
19-Apr-10	05:40:00	60.8	61.0	60.0
19-Apr-10	05:45:00	58.6	59.5	57.5
19-Apr-10	05:50:00	58.1	59.0	57.0
19-Apr-10	05:55:00	58.0	58.5	57.0
19-Apr-10	06:00:00	58.0	59.0	57.0
19-Apr-10	06:05:00	57.9	59.0	56.5
19-Apr-10	06:10:00	57.8	59.0	56.5
19-Apr-10	06:15:00	57.7	58.5	56.5
19-Apr-10	06:20:00	58.1	59.5	56.5
19-Apr-10	06:25:00	57.8	58.5	56.5
19-Apr-10	06:30:00	58.0	59.0	56.5
19-Apr-10	06:35:00	59.4	61.0	57.0
19-Apr-10	06:40:00	59.2	60.0	58.0
19-Apr-10	06:45:00	59.3	60.5	58.0
19-Apr-10	06:50:00	59.9	61.0	58.5
19-Apr-10	06:55:00	62.2	66.1	58.5
19-Apr-10	23:00:00	59.2	60.0	58.0
19-Apr-10	23:05:00	59.3	60.0	58.0
19-Apr-10	23:10:00	59.0	59.5	58.0
19-Apr-10	23:15:00	59.0	59.5	58.0
19-Apr-10	23:20:00	59.2	59.5	58.0
19-Apr-10	23:25:00	58.7	59.5	57.5
19-Apr-10	23:30:00	59.4	60.5	58.5
19-Apr-10	23:35:00	59.2	60.0	58.0
19-Apr-10	23:40:00	59.0	59.5	58.0
19-Apr-10	23:45:00	59.3	60.5	58.0
19-Apr-10	23:50:00	58.9	59.5	58.0
19-Apr-10	23:55:00	59.4	60.0	58.5
	Mean	59.2	60.1	58.0
	Maximum	63.2	66.1	62.1
	Minimum	56.9	57.0	56.0

Appendix B4

Night Time (23:00-07:00hrs) Baseline Noise Level at NM1 (Government Staff Quarters)

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
20-Apr-10	00:00:00	59.1	60.0	58.0
20-Apr-10	00:05:00	59.0	59.5	58.0
20-Apr-10	00:10:00	58.5	59.0	57.5
20-Apr-10	00:15:00	59.7	61.0	58.0
20-Apr-10	00:20:00	59.7	60.5	58.5
20-Apr-10	00:25:00	59.9	60.5	58.5
20-Apr-10	00:30:00	59.5	60.0	58.5
20-Apr-10	00:35:00	60.3	61.0	59.5
20-Apr-10	00:40:00	59.5	60.5	58.5
20-Apr-10	00:45:00	59.7	60.5	58.5
20-Apr-10	00:50:00	59.6	60.5	58.5
20-Apr-10	00:55:00	59.2	59.5	58.0
20-Apr-10	01:00:00	59.2	60.0	58.0
20-Apr-10	01:05:00	59.3	60.0	58.0
20-Apr-10	01:10:00	60.1	61.0	59.0
20-Apr-10	01:15:00	60.1	61.0	59.0
20-Apr-10	01:20:00	60.4	61.0	59.0
20-Apr-10	01:25:00	59.6	60.5	58.0
20-Apr-10	01:30:00	59.7	60.5	58.5
20-Apr-10	01:35:00	59.7	60.5	58.5
20-Apr-10	01:40:00	59.0	59.5	58.0
20-Apr-10	01:45:00	58.2	59.0	57.0
20-Apr-10	01:50:00	57.8	58.5	57.0
20-Apr-10	01:55:00	57.9	58.5	57.0
20-Apr-10	02:00:00	58.4	60.0	57.0
20-Apr-10	02:05:00	57.7	58.0	56.5
20-Apr-10	02:10:00	57.3	57.5	56.5
20-Apr-10	02:15:00	56.6	57.0	55.5
20-Apr-10	02:20:00	56.8	57.0	55.5
20-Apr-10	02:25:00	57.0	57.5	56.0
20-Apr-10	02:30:00	57.3	58.0	56.5
20-Apr-10	02:35:00	56.4	57.0	55.5
20-Apr-10	02:40:00	56.7	57.5	55.5
20-Apr-10	02:45:00	57.0	57.5	55.5
20-Apr-10	02:50:00	57.2	58.0	56.0
20-Apr-10	02:55:00	57.4	58.0	56.5
20-Apr-10	03:00:00	57.5	58.0	56.5
20-Apr-10	03:05:00	57.2	57.5	56.0
20-Apr-10	03:10:00	57.4	58.0	56.5
20-Apr-10	03:15:00	57.6	58.0	56.5
20-Apr-10	03:20:00	57.8	58.0	57.0
20-Apr-10	03:25:00	57.7	58.5	57.0
20-Apr-10	03:30:00	57.6	58.0	57.0
20-Apr-10	03:35:00	57.6	57.5	57.0
20-Apr-10	03:40:00	57.2	57.5	56.5
20-Apr-10	03:45:00	57.8	58.0	57.0
20-Apr-10	03:50:00	57.4	58.0	56.5
20-Apr-10	03:55:00	57.2	57.5	56.5
20-Apr-10	04:00:00	57.6	58.0	56.5
20-Apr-10	04:05:00	57.5	58.0	56.5
20-Apr-10	04:10:00	57.7	58.0	57.0
20-Apr-10	04:15:00	57.7	58.0	57.0
20-Apr-10	04:20:00	58.0	58.5	57.0
20-Apr-10	04:25:00	57.7	58.0	57.0
20-Apr-10	04:30:00	57.8	58.5	57.0
20-Apr-10	04:35:00	57.8	58.0	57.0
20-Apr-10	04:40:00	57.8	58.0	57.0
20-Apr-10	04:45:00	58.0	58.5	57.0
20-Apr-10	04:50:00	58.5	59.0	57.5
20-Apr-10	04:55:00	57.7	58.5	56.5
20-Apr-10	05:00:00	58.3	58.5	57.0
20-Apr-10	05:05:00	58.1	58.5	57.0
20-Apr-10	05:10:00	58.0	58.5	57.0
20-Apr-10	05:15:00	58.3	58.5	57.5
20-Apr-10	05:20:00	58.3	58.5	57.0
20-Apr-10	05:25:00	58.4	58.5	57.5
20-Apr-10	05:30:00	58.5	59.0	57.5
20-Apr-10	05:35:00	58.6	59.0	57.5
20-Apr-10	05:40:00	58.9	59.0	57.5
20-Apr-10	05:45:00	58.8	59.0	58.0
20-Apr-10	05:50:00	58.9	59.0	58.0
20-Apr-10	05:55:00	59.3	59.5	58.0
20-Apr-10	06:00:00	59.7	60.5	58.0
20-Apr-10	06:05:00	61.1	63.1	58.0
20-Apr-10	06:10:00	61.9	64.1	58.0
20-Apr-10	06:15:00	64.5	65.6	58.5
20-Apr-10	06:20:00	59.9	61.5	58.0
20-Apr-10	06:25:00	60.4	62.1	58.0
20-Apr-10	06:30:00	60.3	60.5	58.5
20-Apr-10	06:35:00	59.6	60.5	58.0
20-Apr-10	06:40:00	59.7	60.0	58.0
20-Apr-10	06:45:00	64.4	62.6	58.0
20-Apr-10	06:50:00	59.8	60.5	58.0
20-Apr-10	06:55:00	60.5	61.0	58.0
20-Apr-10	23:00:00	58.5	59.5	57.5
20-Apr-10	23:05:00	58.4	59.5	57.5
20-Apr-10	23:10:00	58.6	59.5	57.5
20-Apr-10	23:15:00	58.4	59.5	57.5
20-Apr-10	23:20:00	58.5	59.5	57.5
20-Apr-10	23:25:00	58.4	59.0	57.5
20-Apr-10	23:30:00	58.4	59.0	57.5
20-Apr-10	23:35:00	58.5	59.5	57.5
20-Apr-10	23:40:00	58.7	60.0	57.5
20-Apr-10	23:45:00	58.3	59.5	57.5
20-Apr-10	23:50:00	59.1	60.5	57.0
20-Apr-10	23:55:00	59.2	60.5	57.5
	Mean	58.9	59.6	57.5
	Maximum	64.5	65.6	59.5
	Minimum	56.4	57.0	55.5

Appendix B4

Night Time (23:00-07:00hrs) Baseline Noise Level at NM1 (Government Staff Quarters)

	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
21-Apr-10	00:00:00	60.3	61.5	58.5
21-Apr-10	00:05:00	60.0	60.5	59.0
21-Apr-10	00:10:00	60.4	61.5	59.0
21-Apr-10	00:15:00	60.0	61.0	59.0
21-Apr-10	00:20:00	61.4	62.6	59.5
21-Apr-10	00:25:00	59.0	60.5	57.5
21-Apr-10	00:30:00	58.3	59.5	57.0
21-Apr-10	00:35:00	57.5	58.0	56.5
21-Apr-10	00:40:00	57.8	58.5	57.0
21-Apr-10	00:45:00	57.7	58.5	57.0
21-Apr-10	00:50:00	57.9	58.5	57.0
21-Apr-10	00:55:00	58.2	59.5	57.0
21-Apr-10	01:00:00	58.0	59.0	57.0
21-Apr-10	01:05:00	58.1	59.0	57.0
21-Apr-10	01:10:00	58.0	58.5	57.0
21-Apr-10	01:15:00	57.8	58.0	57.0
21-Apr-10	01:20:00	57.5	57.5	57.0
21-Apr-10	01:25:00	57.4	57.5	56.5
21-Apr-10	01:30:00	57.7	58.0	57.0
21-Apr-10	01:35:00	57.6	58.0	56.5
21-Apr-10	01:40:00	57.9	58.5	57.0
21-Apr-10	01:45:00	58.0	58.5	57.0
21-Apr-10	01:50:00	57.6	58.0	56.5
21-Apr-10	01:55:00	57.3	58.0	56.5
21-Apr-10	02:00:00	57.3	58.0	56.5
21-Apr-10	02:05:00	57.0	57.5	56.0
21-Apr-10	02:10:00	57.1	58.0	56.0
21-Apr-10	02:15:00	57.0	57.5	56.0
21-Apr-10	02:20:00	57.3	58.0	56.5
21-Apr-10	02:25:00	57.2	57.5	56.0
21-Apr-10	02:30:00	56.8	57.5	56.0
21-Apr-10	02:35:00	56.7	57.5	55.5
21-Apr-10	02:40:00	56.6	57.0	55.5
21-Apr-10	02:45:00	56.7	57.0	56.0
21-Apr-10	02:50:00	56.9	57.0	56.0
21-Apr-10	02:55:00	57.2	58.0	56.0
21-Apr-10	03:00:00	57.3	58.0	56.5
21-Apr-10	03:05:00	57.3	58.0	56.5
21-Apr-10	03:10:00	57.2	57.5	56.0
21-Apr-10	03:15:00	57.2	58.0	56.5
21-Apr-10	03:20:00	57.2	58.0	56.5
21-Apr-10	03:25:00	57.2	58.0	56.5
21-Apr-10	03:30:00	57.5	58.5	56.5
21-Apr-10	03:35:00	57.6	58.0	56.5
21-Apr-10	03:40:00	57.5	58.0	56.5
21-Apr-10	03:45:00	57.5	58.0	56.5
21-Apr-10	03:50:00	57.6	58.0	57.0
21-Apr-10	03:55:00	57.6	58.0	57.0
21-Apr-10	04:00:00	57.3	57.5	56.5
21-Apr-10	04:05:00	57.2	57.5	56.5
21-Apr-10	04:10:00	57.3	58.0	56.5
21-Apr-10	04:15:00	57.1	57.5	56.5
21-Apr-10	04:20:00	57.4	58.0	56.5
21-Apr-10	04:25:00	57.7	58.5	57.0
21-Apr-10	04:30:00	57.6	58.0	57.0
21-Apr-10	04:35:00	57.7	58.0	57.0
21-Apr-10	04:40:00	57.5	58.0	56.5
21-Apr-10	04:45:00	57.7	58.5	56.5
21-Apr-10	04:50:00	57.2	58.0	56.0
21-Apr-10	04:55:00	57.4	58.0	56.5
21-Apr-10	05:00:00	57.7	58.0	57.0
21-Apr-10	05:05:00	57.4	58.0	56.5
21-Apr-10	05:10:00	57.5	57.5	56.5
21-Apr-10	05:15:00	57.4	57.5	56.5
21-Apr-10	05:20:00	60.7	59.5	57.0
21-Apr-10	05:25:00	57.6	58.0	56.5
21-Apr-10	05:30:00	58.0	59.0	57.0
21-Apr-10	05:35:00	57.9	58.5	57.0
21-Apr-10	05:40:00	58.2	58.5	57.5
21-Apr-10	05:45:00	57.9	58.5	57.0
21-Apr-10	05:50:00	57.7	58.5	57.0
21-Apr-10	05:55:00	58.2	59.5	57.0
21-Apr-10	06:00:00	57.9	59.0	57.0
21-Apr-10	06:05:00	57.9	59.0	57.0
21-Apr-10	06:10:00	58.0	59.0	57.0
21-Apr-10	06:15:00	57.8	59.0	56.5
21-Apr-10	06:20:00	57.6	59.0	56.5
21-Apr-10	06:25:00	58.2	59.5	56.5
21-Apr-10	06:30:00	57.6	58.0	56.5
21-Apr-10	06:35:00	58.0	58.5	57.0
21-Apr-10	06:40:00	58.1	59.0	57.0
21-Apr-10	06:45:00	58.2	59.5	57.0
21-Apr-10	06:50:00	58.4	60.0	57.0
21-Apr-10	06:55:00	58.4	59.5	57.0
21-Apr-10	23:00:00	58.6	59.0	58.0
21-Apr-10	23:05:00	57.9	58.5	57.5
21-Apr-10	23:10:00	58.1	58.5	57.5
21-Apr-10	23:15:00	57.8	58.0	57.0
21-Apr-10	23:20:00	58.3	58.5	57.5
21-Apr-10	23:25:00	58.5	59.0	57.5
21-Apr-10	23:30:00	57.9	58.0	57.0
21-Apr-10	23:35:00	58.0	58.5	57.5
21-Apr-10	23:40:00	58.2	58.5	57.5
21-Apr-10	23:45:00	58.3	58.5	57.5
21-Apr-10	23:50:00	58.0	58.5	57.0
21-Apr-10	23:55:00	58.1	58.5	57.5
	Mean	57.9	58.6	56.9
	Maximum	61.4	62.6	59.5
	Minimum	56.6	57.0	55.5

Appendix B4

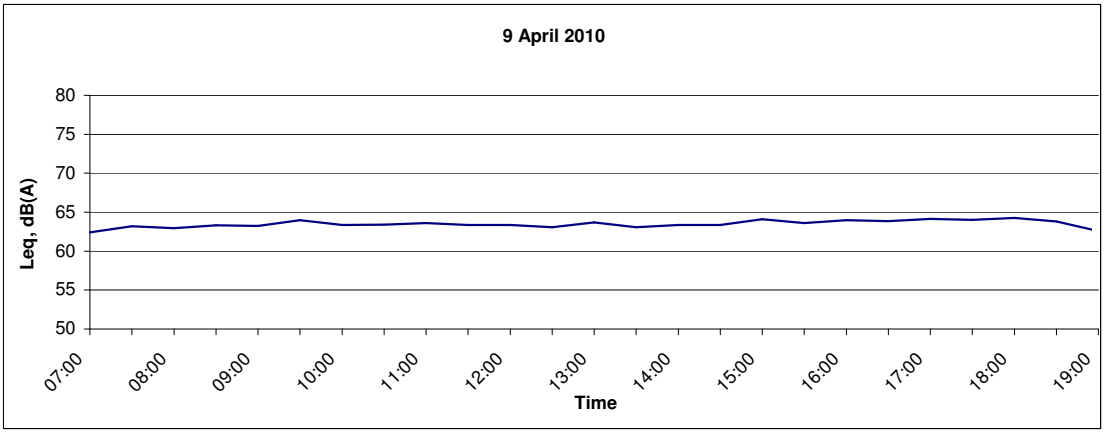
Night Time (23:00-07:00hrs) Baseline Noise Level at NM1 (Government Staff Quarters)

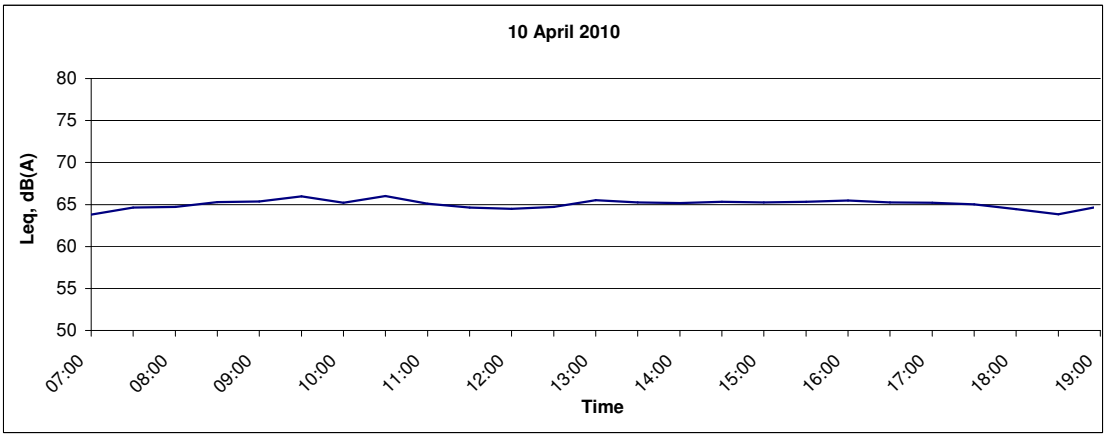
	Noise Level for 5-min, dB(A)			
Date	Time	Leq	L10	L90
22-Apr-10	00:00:00	57.9	58.0	57.0
22-Apr-10	00:05:00	57.7	58.0	57.0
22-Apr-10	00:10:00	58.0	58.5	57.0
22-Apr-10	00:15:00	57.7	58.5	57.0
22-Apr-10	00:20:00	58.0	58.5	57.5
22-Apr-10	00:25:00	57.9	58.0	57.0
22-Apr-10	00:30:00	57.5	58.0	57.0
22-Apr-10	00:35:00	57.3	58.0	56.5
22-Apr-10	00:40:00	56.8	57.0	56.0
22-Apr-10	00:45:00	56.9	57.0	56.5
22-Apr-10	00:50:00	57.2	58.0	56.5
22-Apr-10	00:55:00	57.2	58.0	56.5
22-Apr-10	01:00:00	56.8	57.0	56.0
22-Apr-10	01:05:00	56.9	57.5	56.0
22-Apr-10	01:10:00	56.8	57.0	56.0
22-Apr-10	01:15:00	57.0	57.5	56.5
22-Apr-10	01:20:00	56.9	57.0	56.5
22-Apr-10	01:25:00	57.0	57.5	56.5
22-Apr-10	01:30:00	57.0	57.5	56.5
22-Apr-10	01:35:00	56.9	57.0	56.5
22-Apr-10	01:40:00	57.0	57.5	56.5
22-Apr-10	01:45:00	57.0	57.5	56.0
22-Apr-10	01:50:00	57.0	57.5	56.0
22-Apr-10	01:55:00	57.1	57.0	56.5
22-Apr-10	02:00:00	57.4	58.0	56.5
22-Apr-10	02:05:00	57.1	57.5	56.5
22-Apr-10	02:10:00	56.4	57.0	55.5
22-Apr-10	02:15:00	56.7	57.0	56.0
22-Apr-10	02:20:00	56.3	56.5	55.5
22-Apr-10	02:25:00	56.8	57.0	56.0
22-Apr-10	02:30:00	56.9	57.0	56.0
22-Apr-10	02:35:00	57.8	58.5	55.5
22-Apr-10	02:40:00	58.5	59.0	56.0
22-Apr-10	02:45:00	56.8	57.0	55.5
22-Apr-10	02:50:00	56.8	57.0	56.0
22-Apr-10	02:55:00	57.1	57.5	56.5
22-Apr-10	03:00:00	57.2	57.5	56.5
22-Apr-10	03:05:00	57.1	57.5	56.5
22-Apr-10	03:10:00	57.1	57.5	56.5
22-Apr-10	03:15:00	57.2	57.5	56.5
22-Apr-10	03:20:00	57.6	58.0	57.0
22-Apr-10	03:25:00	57.6	58.0	57.0
22-Apr-10	03:30:00	57.3	57.5	56.5
22-Apr-10	03:35:00	57.3	57.5	57.0
22-Apr-10	03:40:00	57.1	57.5	56.5
22-Apr-10	03:45:00	56.8	57.0	56.0
22-Apr-10	03:50:00	56.8	57.5	56.0
22-Apr-10	03:55:00	56.6	57.0	56.0
22-Apr-10	04:00:00	56.4	56.5	55.5
22-Apr-10	04:05:00	56.5	57.0	56.0
22-Apr-10	04:10:00	56.6	57.0	56.0
22-Apr-10	04:15:00	57.0	57.0	56.5
22-Apr-10	04:20:00	57.4	57.5	56.5
22-Apr-10	04:25:00	57.2	57.5	56.5
22-Apr-10	04:30:00	57.0	57.5	56.5
22-Apr-10	04:35:00	57.1	57.5	56.5
22-Apr-10	04:40:00	56.7	57.0	56.0
22-Apr-10	04:45:00	56.6	57.0	56.0
22-Apr-10	04:50:00	57.0	57.5	56.5
22-Apr-10	04:55:00	56.9	57.0	56.5
22-Apr-10	05:00:00	56.9	57.0	56.5
22-Apr-10	05:05:00	57.4	58.0	57.0
22-Apr-10	05:10:00	57.7	58.0	56.5
22-Apr-10	05:15:00	56.9	57.0	56.5
22-Apr-10	05:20:00	57.1	57.5	56.5
22-Apr-10	05:25:00	57.3	57.5	56.5
22-Apr-10	05:30:00	57.7	58.0	57.0
22-Apr-10	05:35:00	57.9	58.5	57.0
22-Apr-10	05:40:00	57.9	58.5	57.0
22-Apr-10	05:45:00	58.0	59.0	57.0
22-Apr-10	05:50:00	58.1	58.5	57.0
22-Apr-10	05:55:00	57.7	58.0	57.0
22-Apr-10	06:00:00	58.0	59.0	57.0
22-Apr-10	06:05:00	57.6	58.0	57.0
22-Apr-10	06:10:00	57.9	58.5	57.0
22-Apr-10	06:15:00	58.3	59.0	57.0
22-Apr-10	06:20:00	58.1	58.5	57.0
22-Apr-10	06:25:00	58.4	59.0	57.0
22-Apr-10	06:30:00	58.2	58.5	57.0
22-Apr-10	06:35:00	58.2	59.0	57.0
22-Apr-10	06:40:00	58.5	59.5	57.0
22-Apr-10	06:45:00	58.6	60.0	57.0
22-Apr-10	06:50:00	59.2	59.5	58.0
22-Apr-10	06:55:00	59.0	59.5	58.0
22-Apr-10	23:00:00	58.2	58.5	57.5
22-Apr-10	23:05:00	57.6	58.0	57.0
22-Apr-10	23:10:00	57.8	58.0	57.0
22-Apr-10	23:15:00	58.4	58.0	57.0
22-Apr-10	23:20:00	57.5	58.0	56.5
22-Apr-10	23:25:00	57.9	58.0	57.0
22-Apr-10	23:30:00	57.7	58.0	57.0
22-Apr-10	23:35:00	57.5	58.0	56.5
22-Apr-10	23:40:00	57.2	57.5	56.5
22-Apr-10	23:45:00	57.3	57.5	56.5
22-Apr-10	23:50:00	57.6	58.0	57.0
22-Apr-10	23:55:00	57.7	58.0	56.5
	Mean	57.4	57.9	56.6
	Maximum	59.2	60.0	58.0
	Minimum	56.3	56.5	55.5

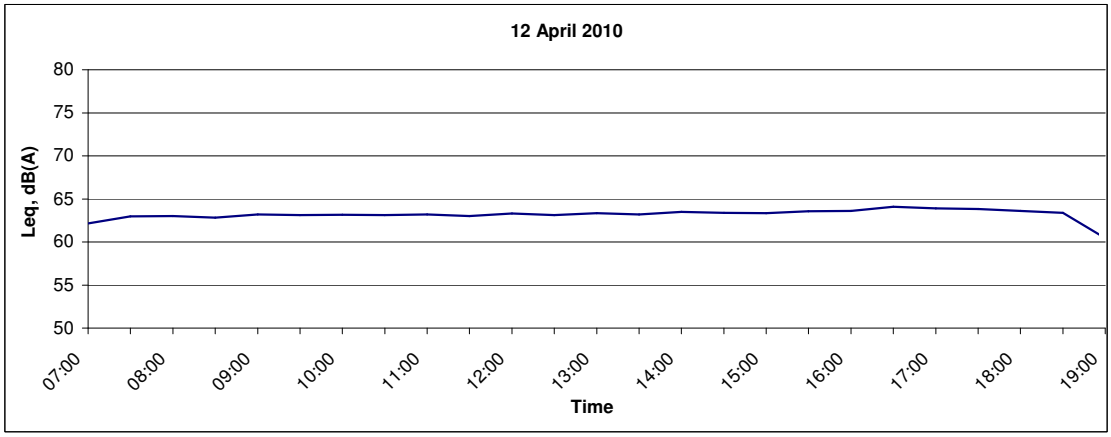
Summary of Night Time Noise Level at NM1 (Government Staff Quarters)			
	Leq	L10	L90
Mean	58.9	59.6	57.8
Max	64.5	67.1	62.1
Min	55.8	56.5	54.5

APPENDIX B5
GRAPHICAL PRESENTATION OF BASELINE NOISE LEVELS

Daytime (0700-1900) Noise Level at NM1 (Government Staff Quarters)

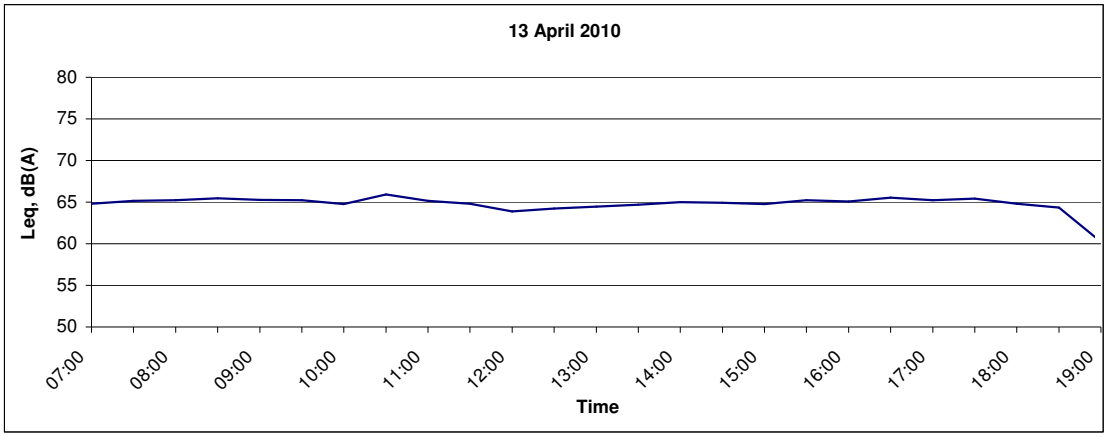


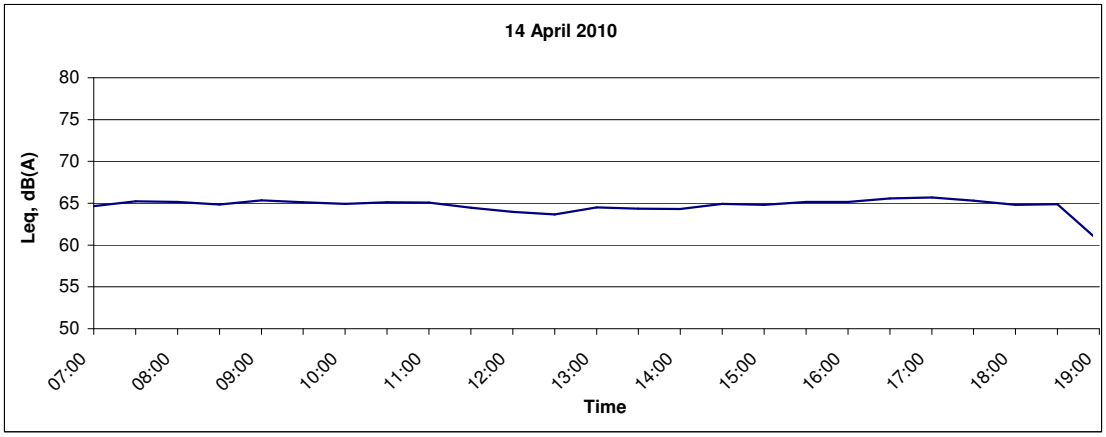


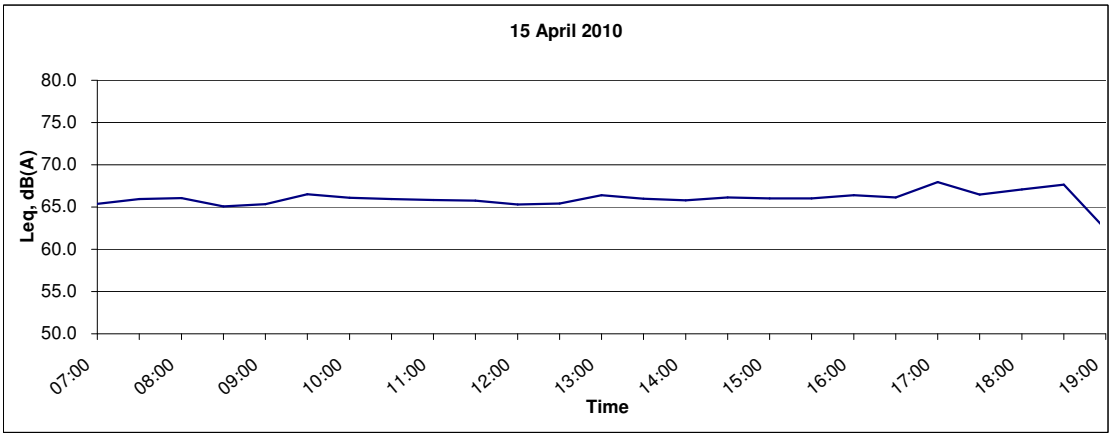


Title		Scale	Project No.	
	Contract No. DE/2009/09 Tai Po Sewage Treatment Works, Stage V, Phase IIB	N.T.S	MA10069	CINOTECH
	Graphical Presentation of Baseline Noise Levels at NM1 (Government Staff Quarters)	Date: April 10	Appendix: B5	

Daytime (0700-1900) Noise Level at NM1 (Government Staff Quarters)

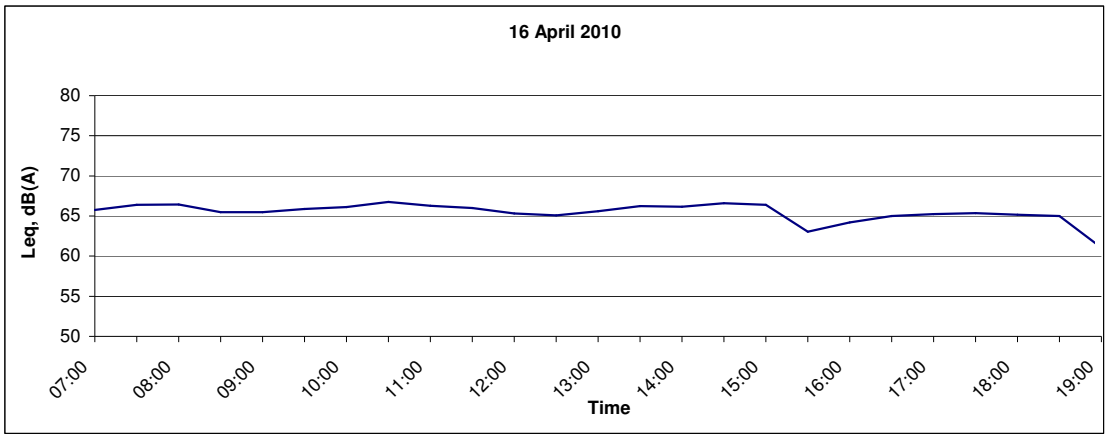


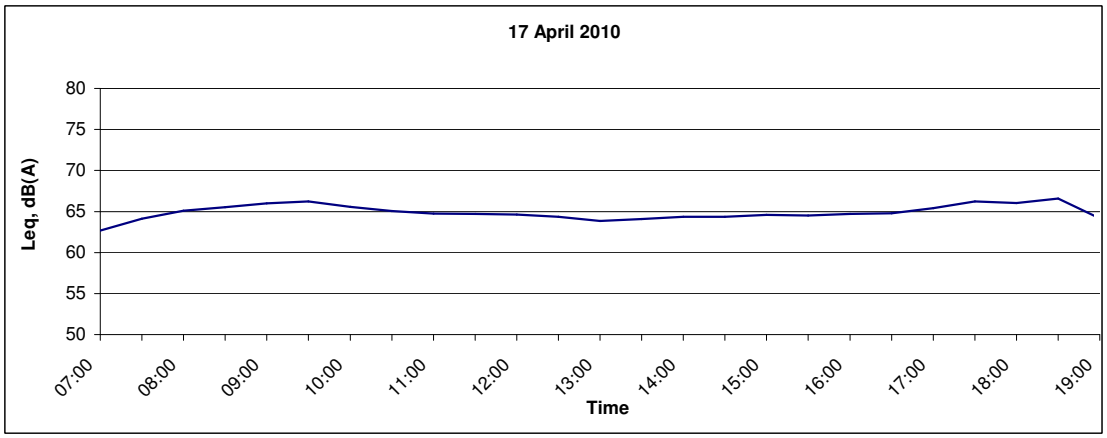


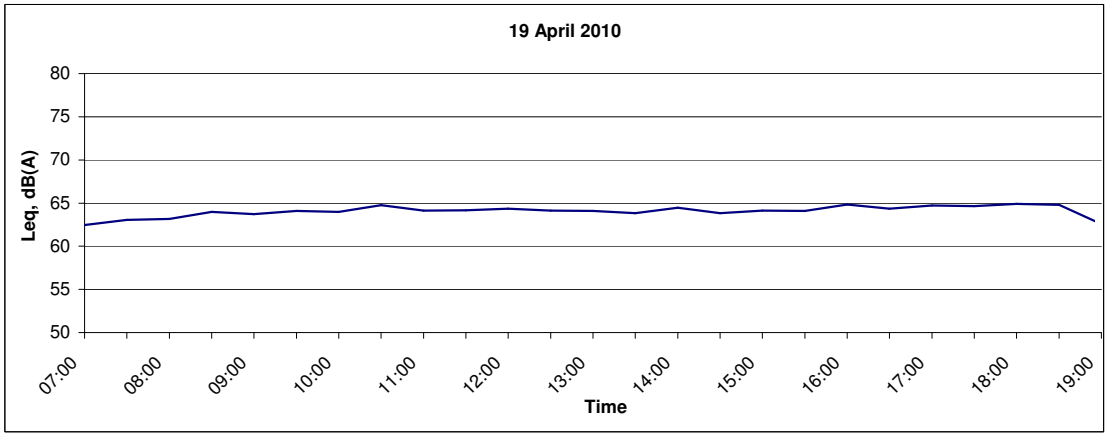


Title	Contract No. DE/2009/09 Tai Po Sewage Treatment Works, Stage V, Phase IIB Graphical Presentation of Baseline Noise Levels at NM1 (Government Staff Quarters)	Scale: N.T.S	Project No.: MA10069	CINOTECH
		Date: April 10	Appendix: B5	

Daytime (0700-1900) Noise Level at NM1 (Government Staff Quarters)

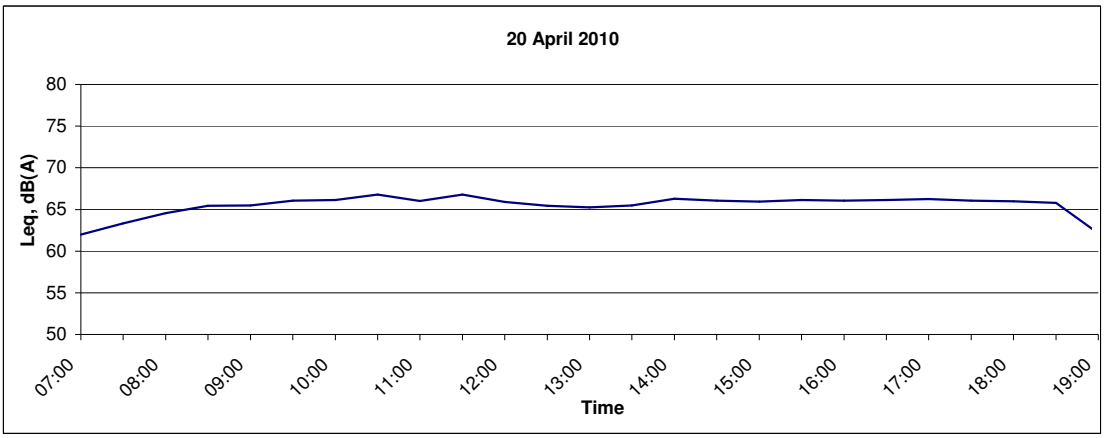


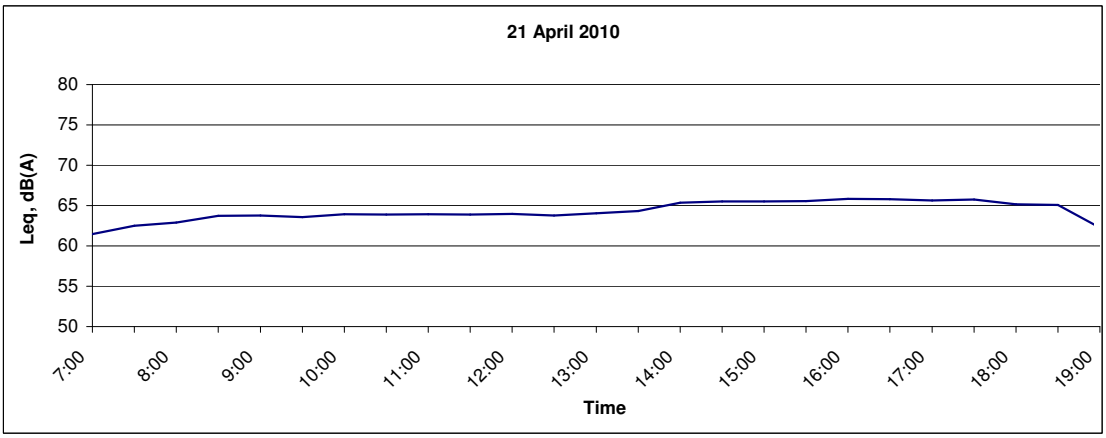


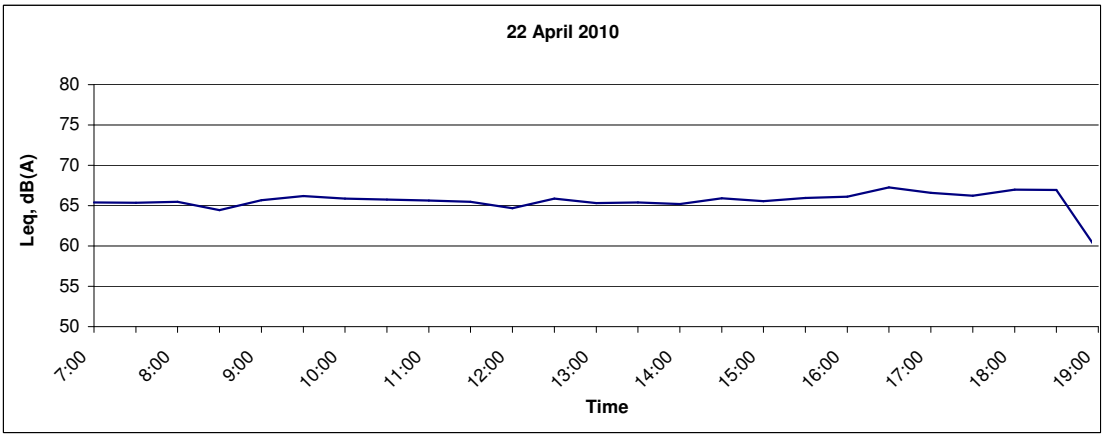


Title		Scale	Project No.	
	Contract No. DE/2009/09 Tai Po Sewage Treatment Works, Stage V, Phase IIB	N.T.S	MA10069	CINOTECH
	Graphical Presentation of Baseline Noise Levels at NM1 (Government Staff Quarters)	Date: April 10	Appendix: B5	

Daytime (0700-1900) Noise Level at NM1 (Government Staff Quarters)

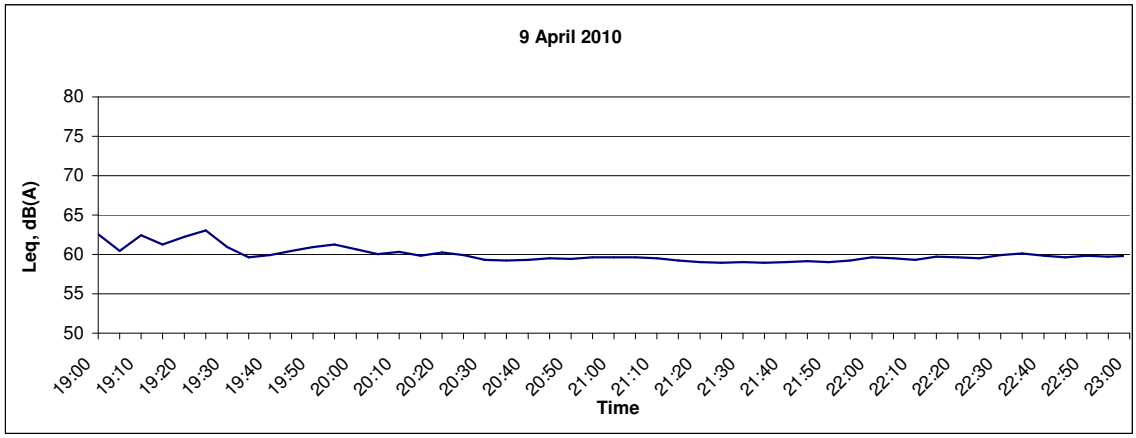


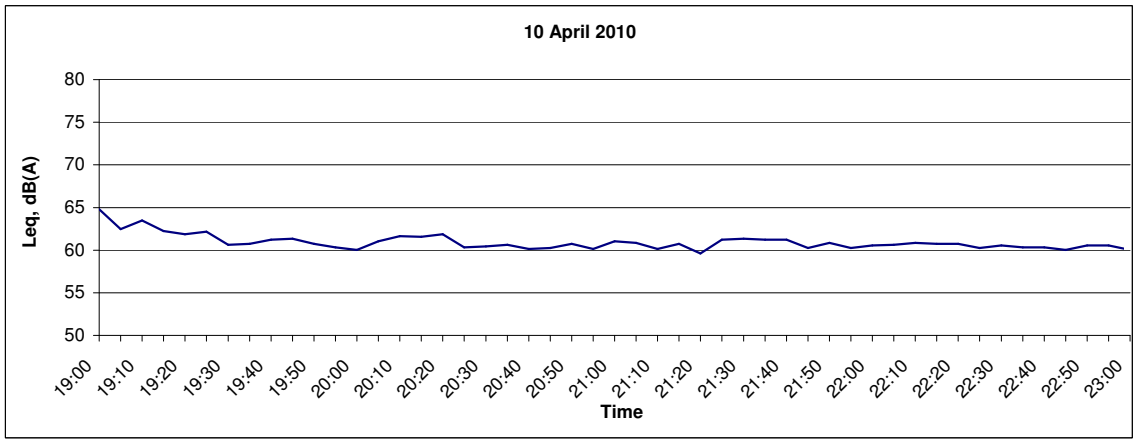


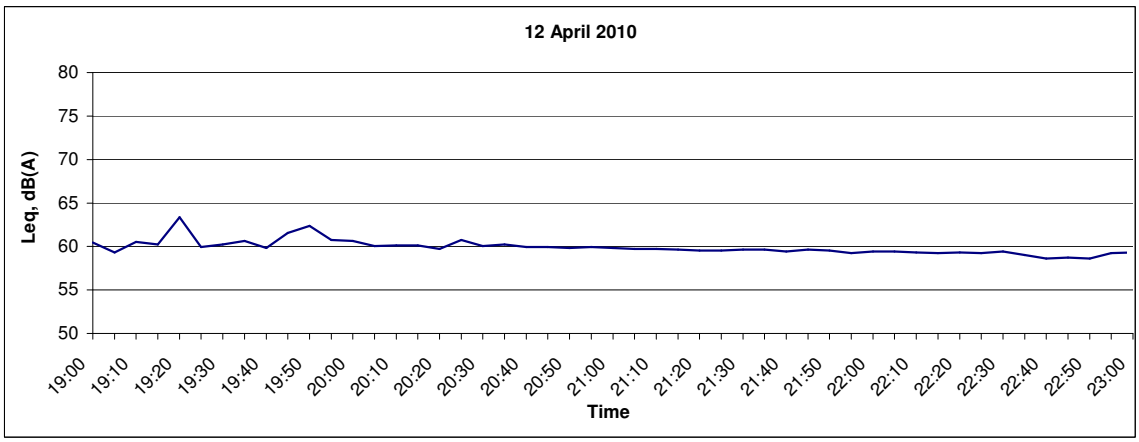


Title	Contract No. DE/2009/09 Tai Po Sewage Treatment Works, Stage V, Phase IIB Graphical Presentation of Baseline Noise Levels at NM1 (Government Staff Quarters)	Scale N.T.S	Project No. MA10069	CINOTECH
		Date April 10	Appendix B5	

Evening-time (1900-2300) Noise Level at NM1 (Government Staff Quarters)

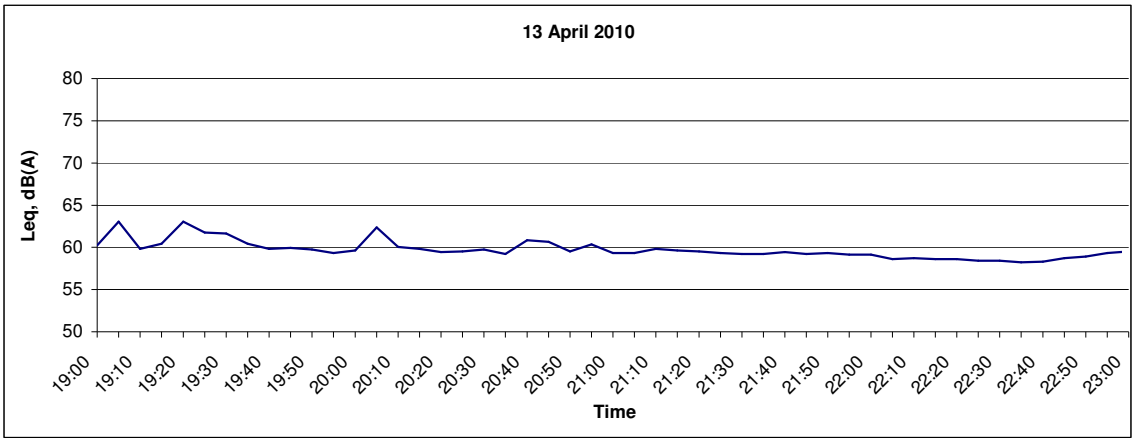


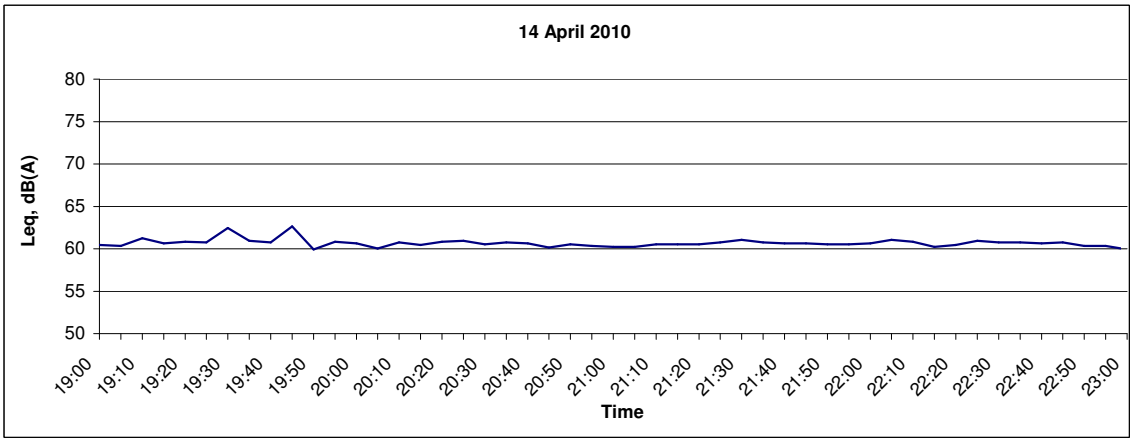


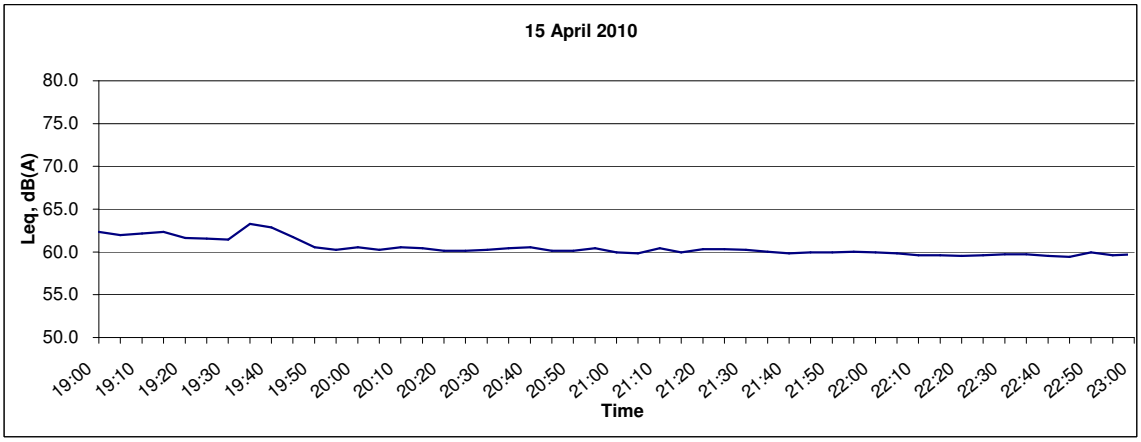


Title		Scale	Project No.	
	Contract No. DE/2009/09 Tai Po Sewage Treatment Works, Stage V, Phase IIB	N.T.S	MA10069	CINOTECH
	Graphical Presentation of Baseline Noise Levels at NM1 (Government Staff Quarters)	Date: April 10	Appendix: B5	

Evening-time (1900-2300) Noise Level at NM1 (Government Staff Quarters)

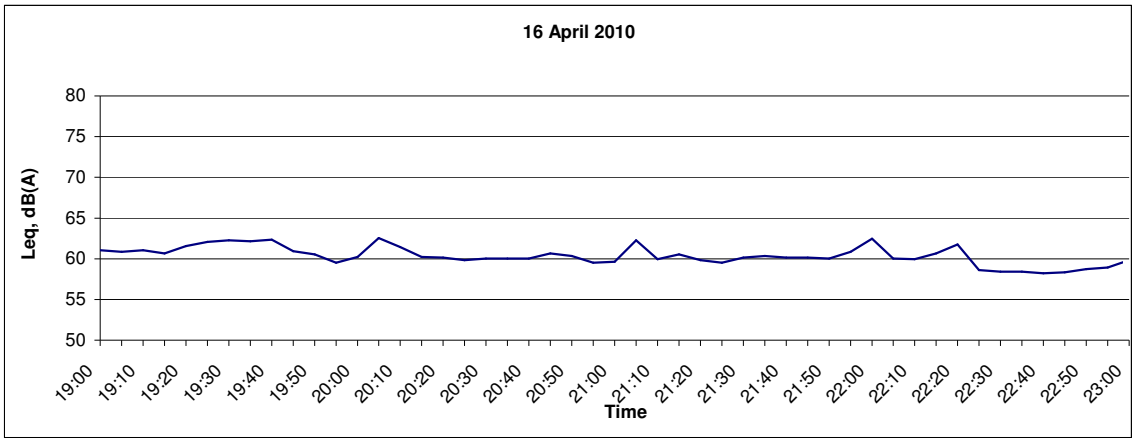


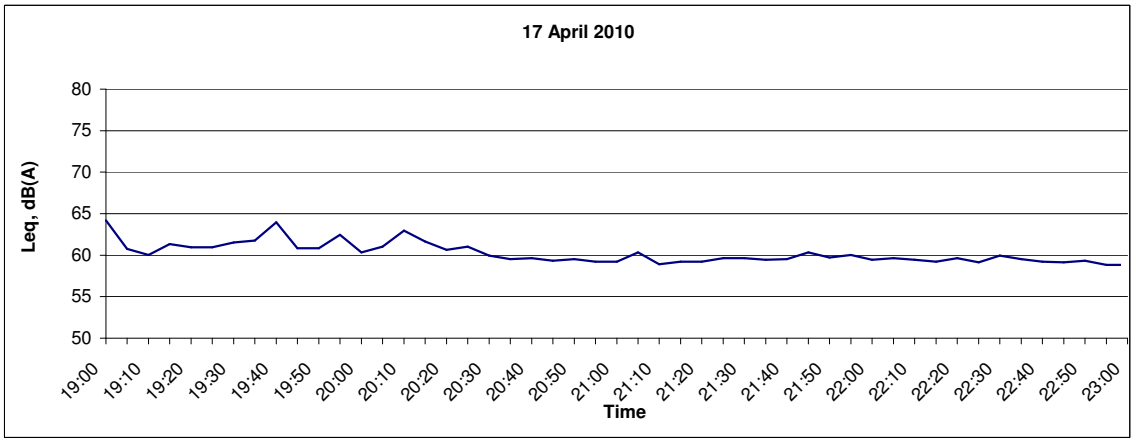


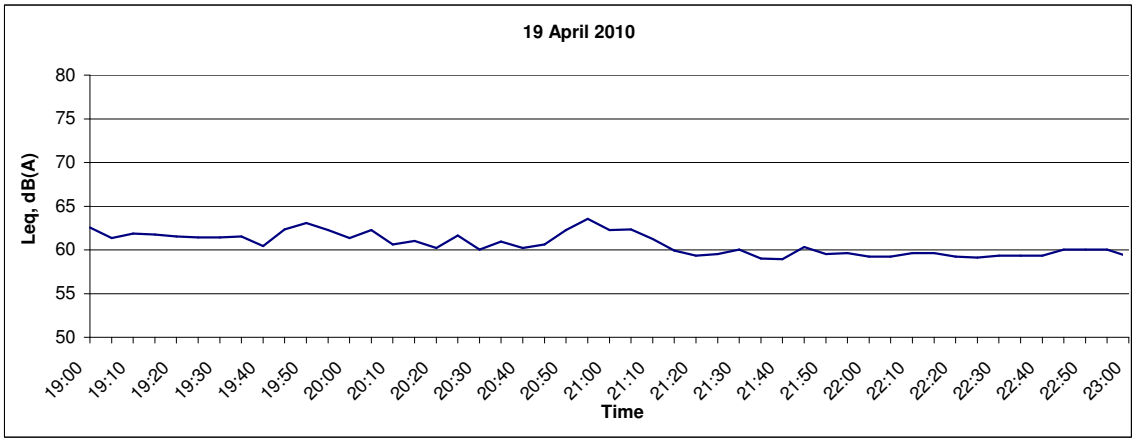


Title		Scale	Project No.	
	Contract No. DE/2009/09 Tai Po Sewage Treatment Works, Stage V, Phase IIB	N.T.S	MA10069	CINOTECH
	Graphical Presentation of Baseline Noise Levels at NM1 (Government Staff Quarters)	Date: April 10	Appendix: B5	

Evening-time (1900-2300) Noise Level at NM1 (Government Staff Quarters)

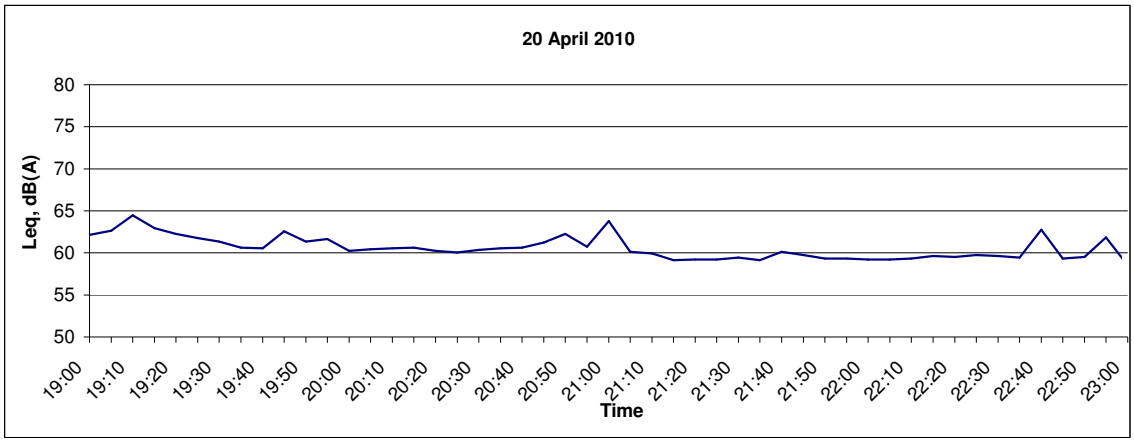


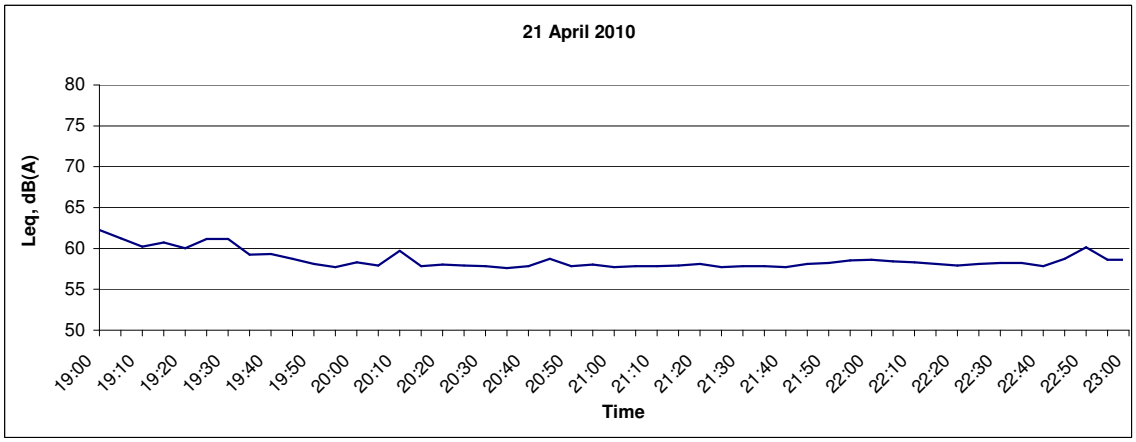


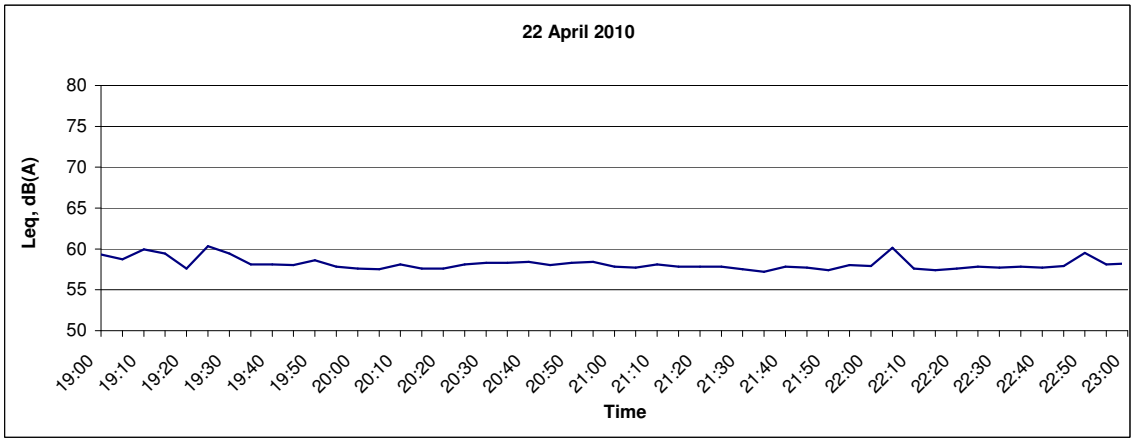


Title		Scale	Project No.	
	Contract No. DE/2009/09 Tai Po Sewage Treatment Works, Stage V, Phase IIB	N.T.S	MA10069	CINOTECH
	Graphical Presentation of Baseline Noise Levels at NM1 (Government Staff Quarters)	Date: April 10	Appendix: B5	

Evening-time (1900-2300) Noise Level at NM1 (Government Staff Quarters)

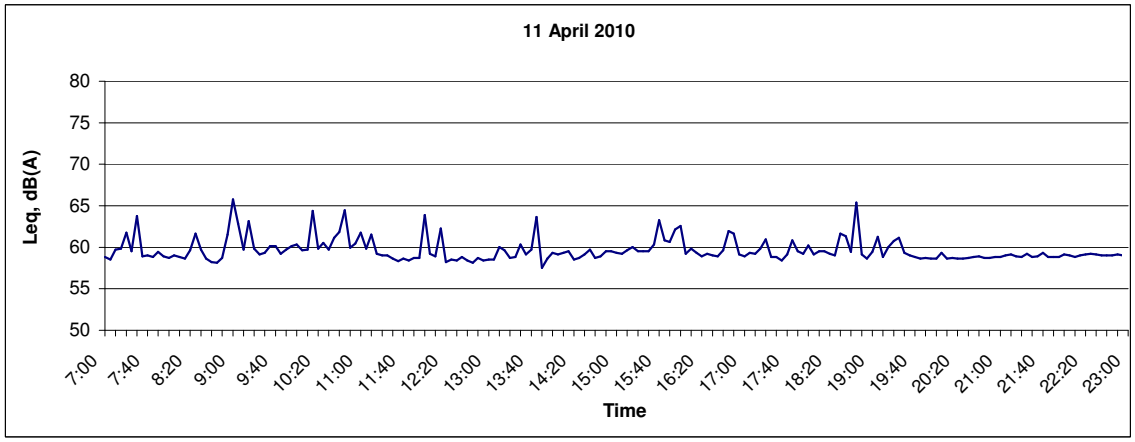


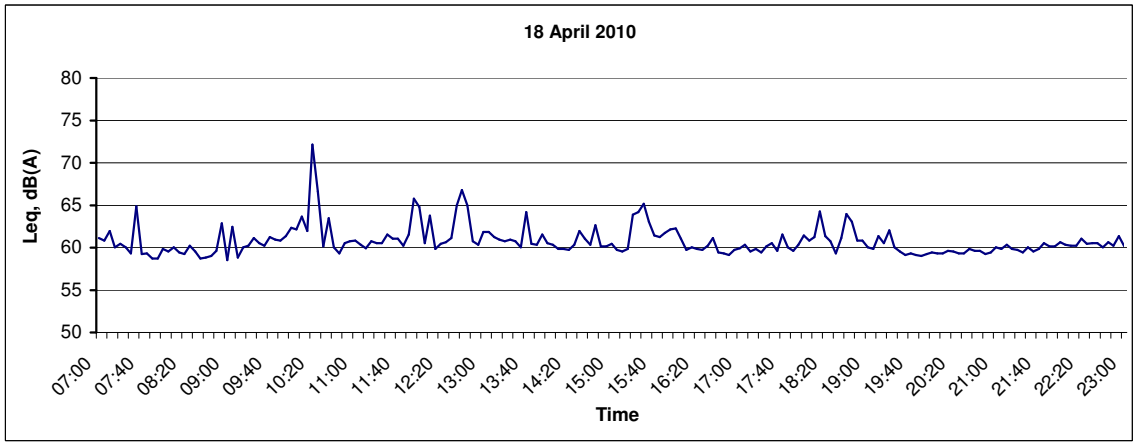




Title		Scale	Project No.	
	Contract No. DE/2009/09 Tai Po Sewage Treatment Works, Stage V, Phase IIB	N.T.S	MA10069	CINOTECH
	Graphical Presentation of Baseline Noise Levels at NM1 (Government Staff Quarters)	Date: April 10	Appendix: B5	

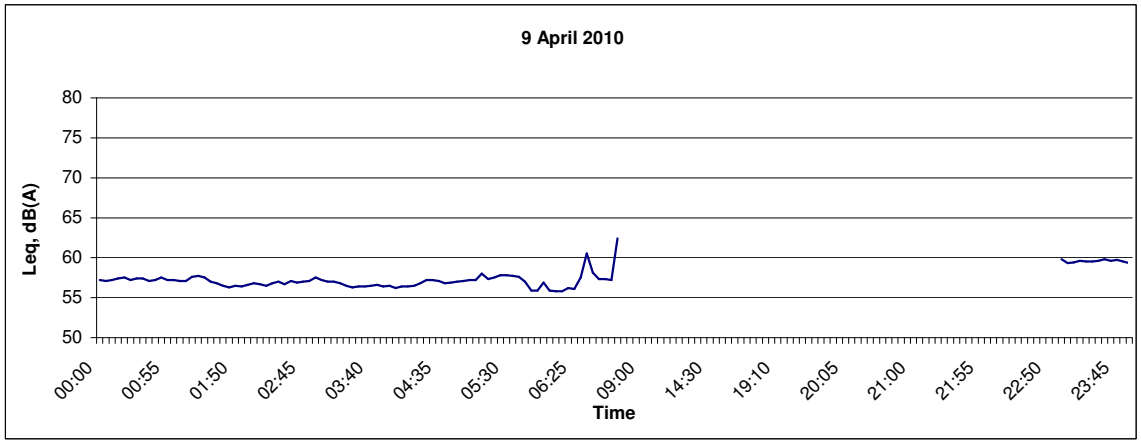
Holiday (0700-2300) Noise Level at NM1 (Government Staff Quarters)

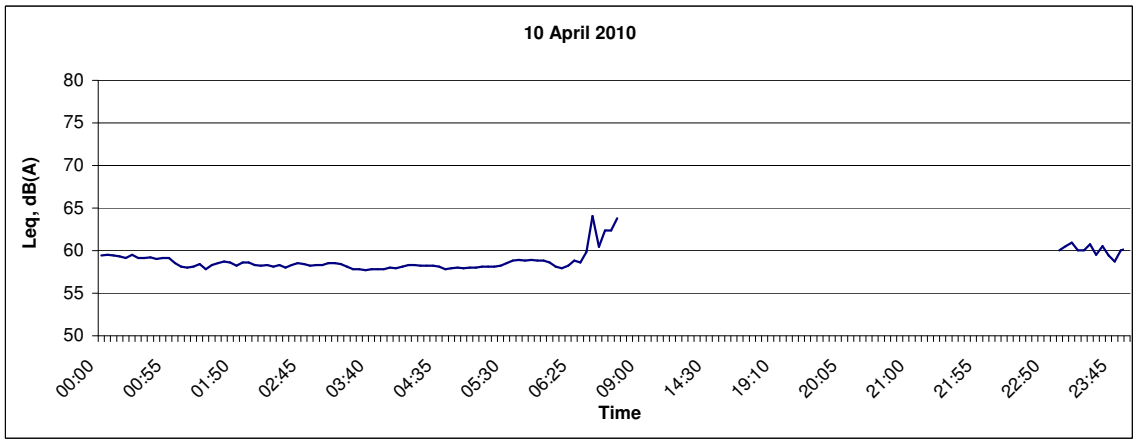


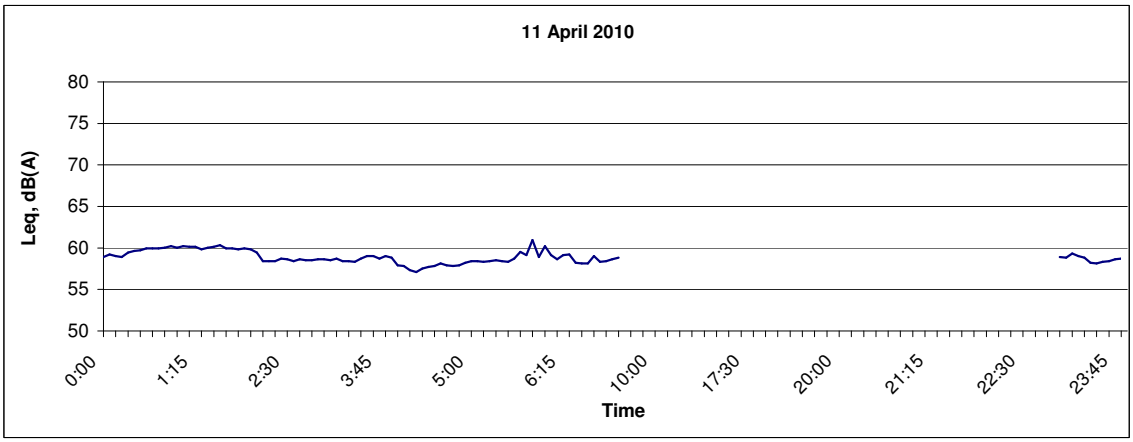


Title		Scale	Project No.	
	Contract No. DE/2009/09 Tai Po Sewage Treatment Works, Stage V, Phase IIB	N.T.S	MA10069	CINOTECH
	Graphical Presentation of Baseline Noise Levels at NM1 (Government Staff Quarters)	Date: April 10	Appendix: B5	

Night time (2300- 0700) Noise Level at NM1 (Government Staff Quarters)

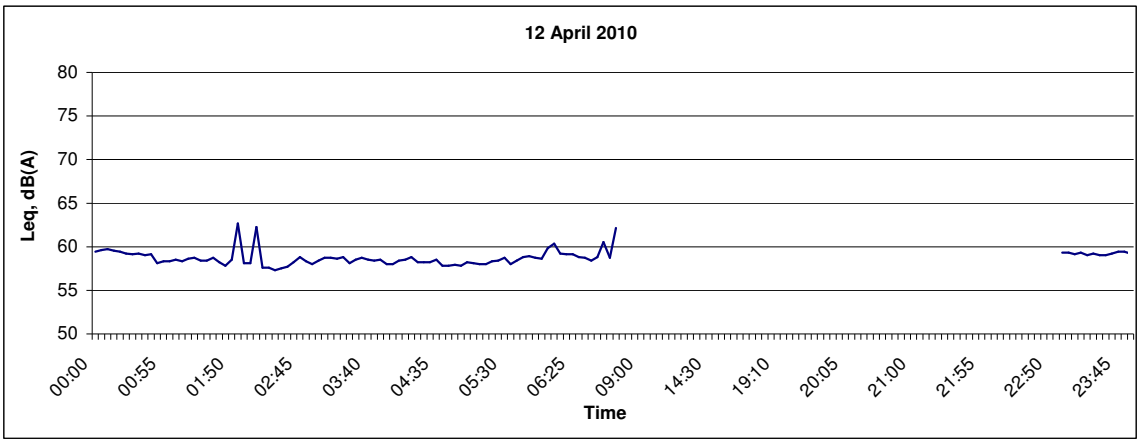


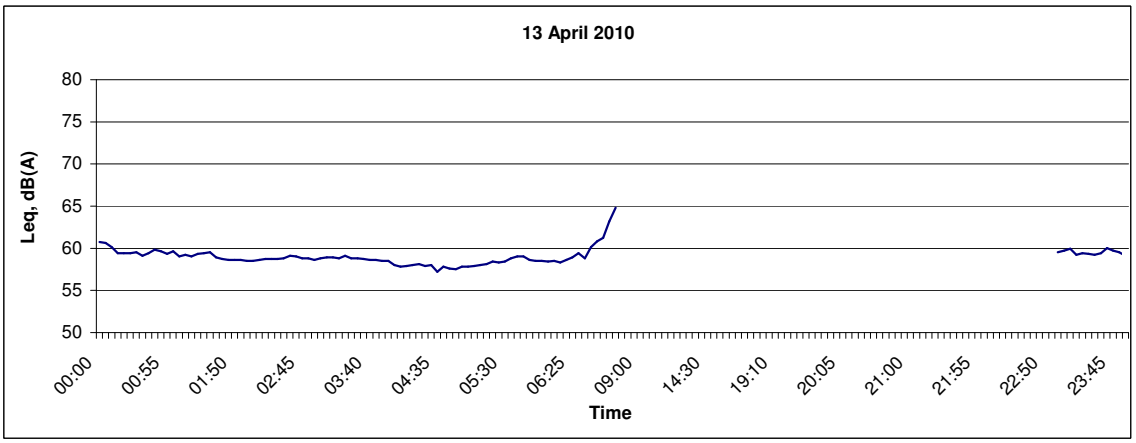


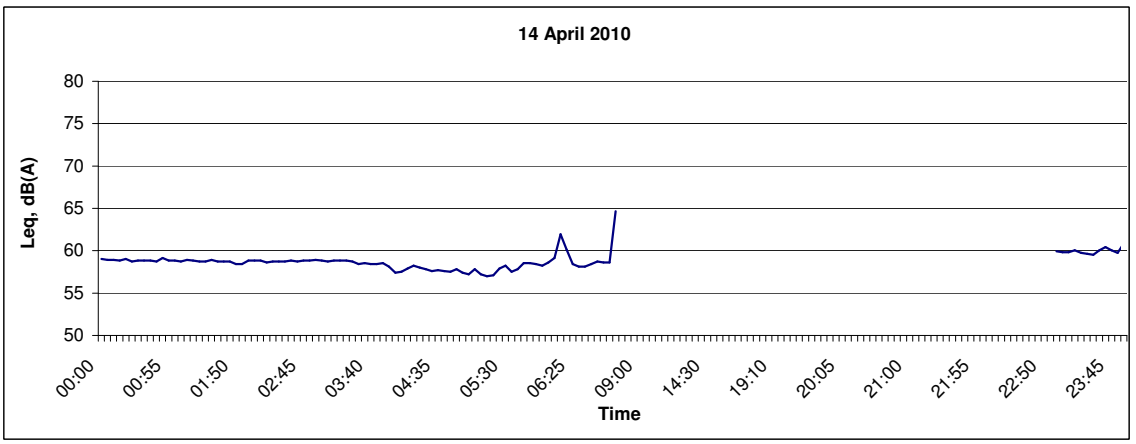


Title		Scale	Project No.	
	Contract No. DE/2009/09 Tai Po Sewage Treatment Works, Stage V, Phase IIB	N.T.S	MA10069	CINOTECH
	Graphical Presentation of Baseline Noise Levels at NM1 (Government Staff Quarters)	Date: April 10	Appendix: B5	

Night time (2300- 0700) Noise Level at NM1 (Government Staff Quarters)

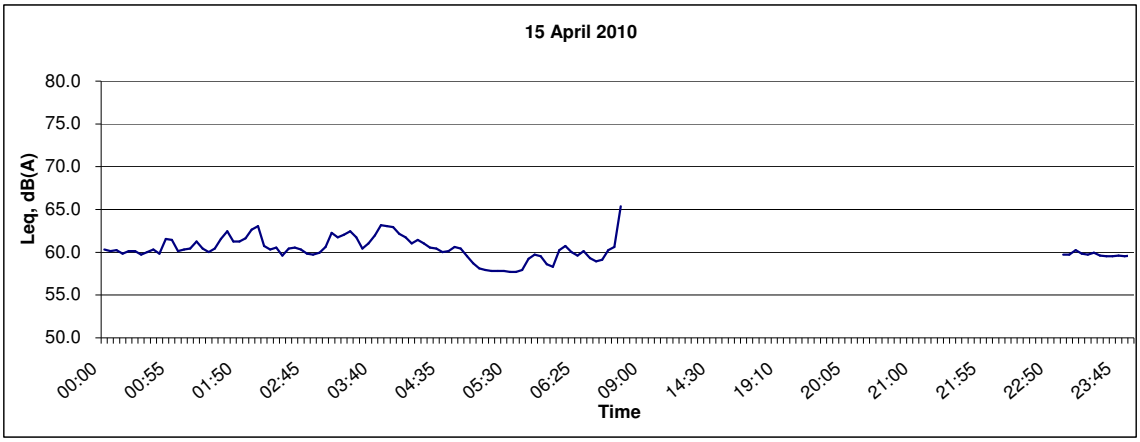


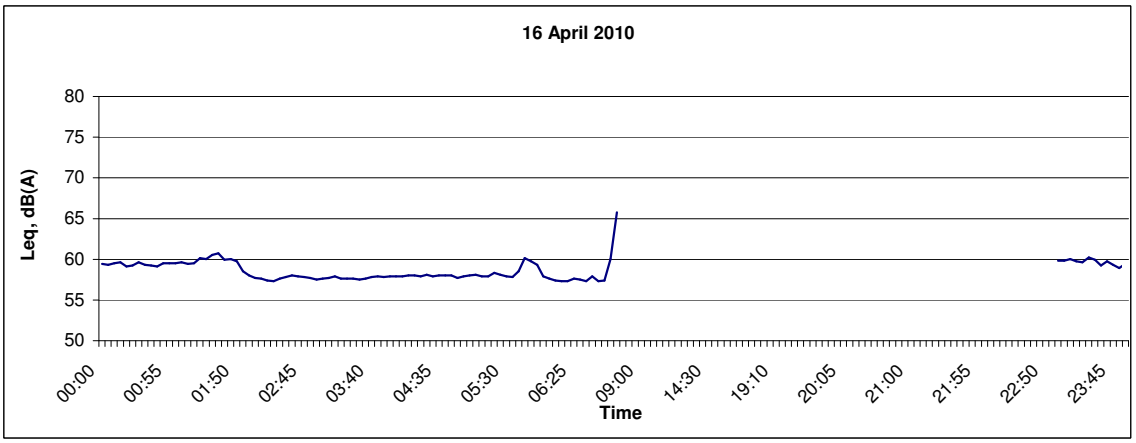


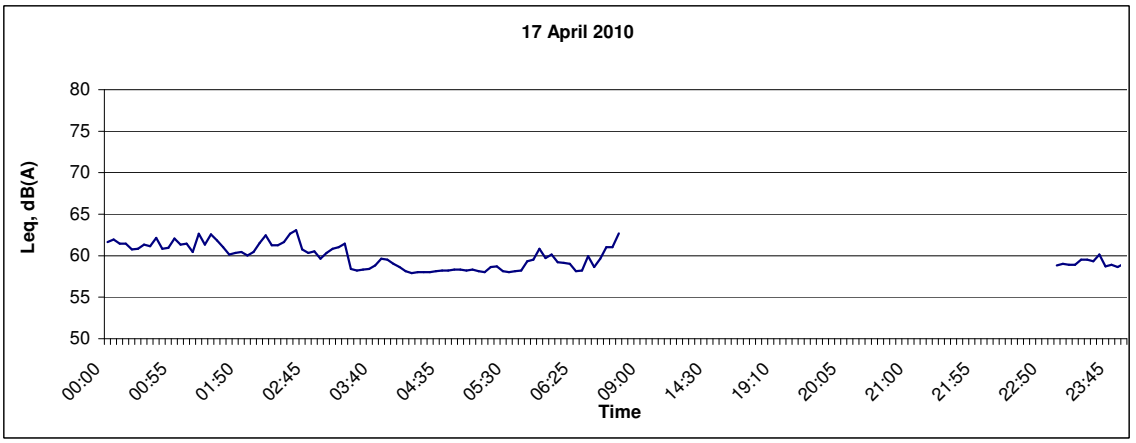


Title		Scale	Project No.	
	Contract No. DE/2009/09 Tai Po Sewage Treatment Works, Stage V, Phase IIB	N.T.S	MA10069	CINOTECH
	Graphical Presentation of Baseline Noise Levels at NM1 (Government Staff Quarters)	Date: April 10	Appendix: B5	

Night time (2300- 0700) Noise Level at NM1 (Government Staff Quarters)

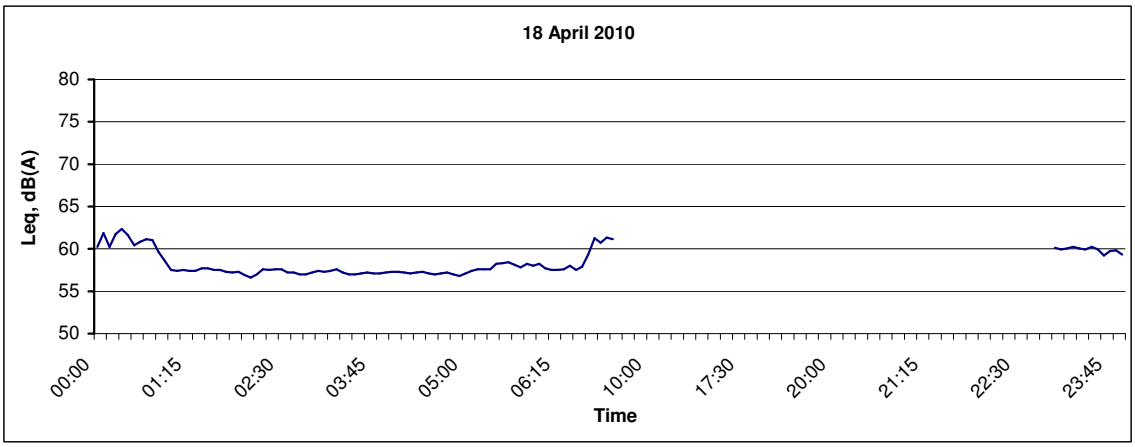


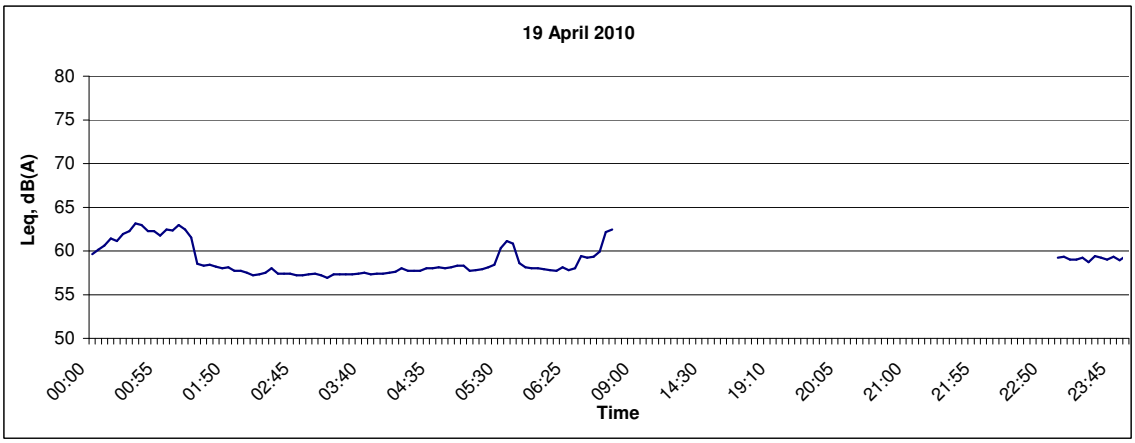


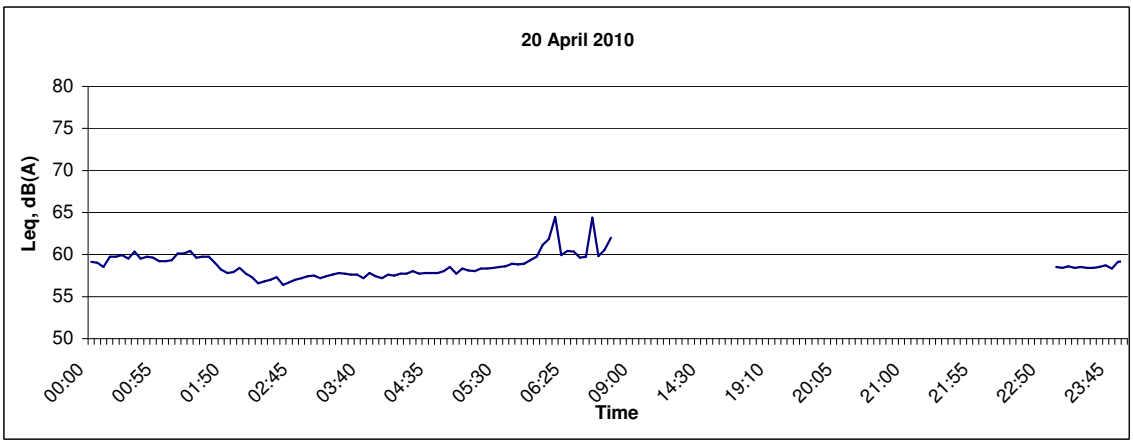


Title		Scale	Project No.	
	Contract No. DE/2009/09 Tai Po Sewage Treatment Works, Stage V, Phase IIB	N.T.S	MA10069	CINOTECH
	Graphical Presentation of Baseline Noise Levels at NM1 (Government Staff Quarters)	Date: April 10	Appendix: B5	

Night time (2300- 0700) Noise Level at NM1 (Government Staff Quarters)

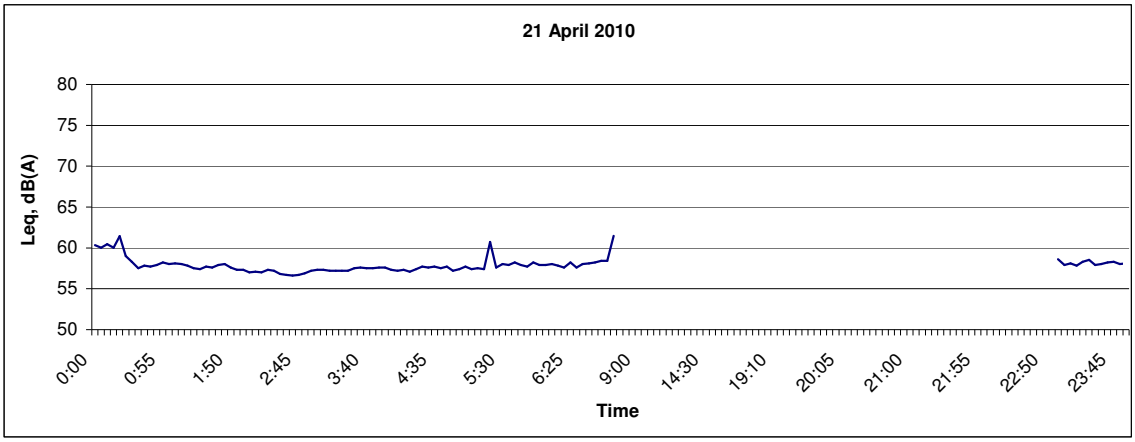


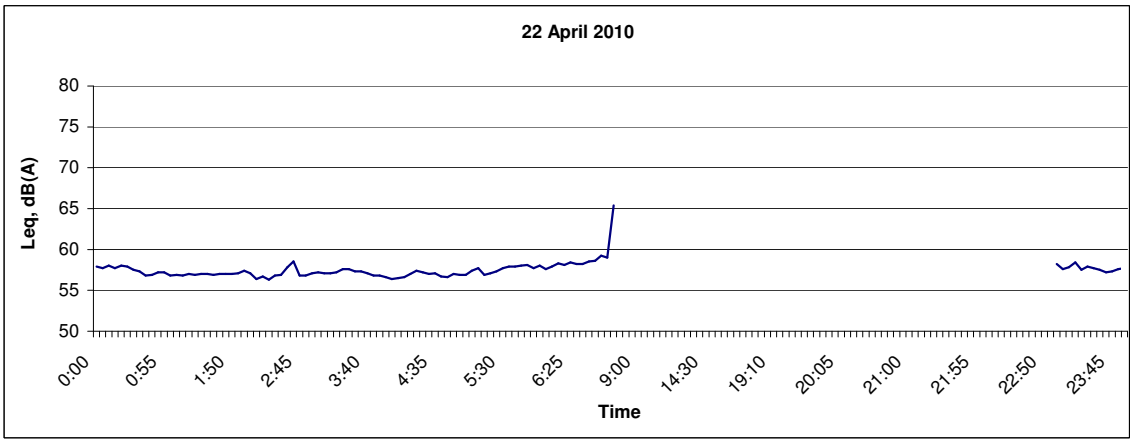




Title		Scale	Project No.	
	Contract No. DE/2009/09 Tai Po Sewage Treatment Works, Stage V, Phase IIB	N.T.S	MA10069	CINOTECH
	Graphical Presentation of Baseline Noise Levels at NM1 (Government Staff Quarters)	Date: April 10	Appendix: B5	

Night time (2300- 0700) Noise Level at NM1 (Government Staff Quarters)





Title	Contract No. DE/2009/09 Tai Po Sewage Treatment Works, Stage V, Phase IIB Graphical Presentation of Baseline Noise Levels at NM1 (Government Staff Quarters)	Scale N.T.S	Project No. MA10069	CINOTECH
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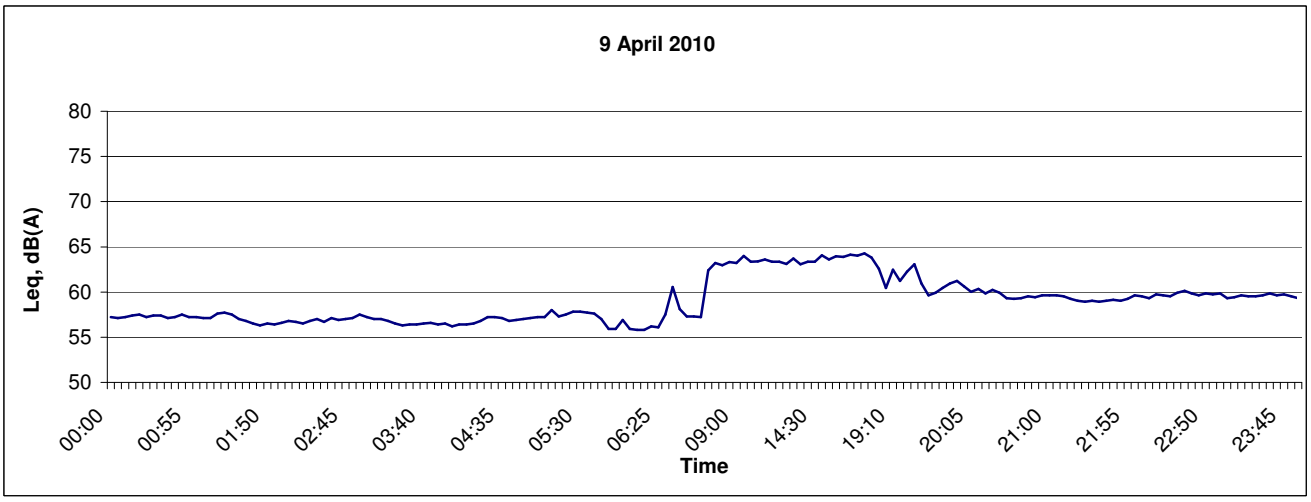
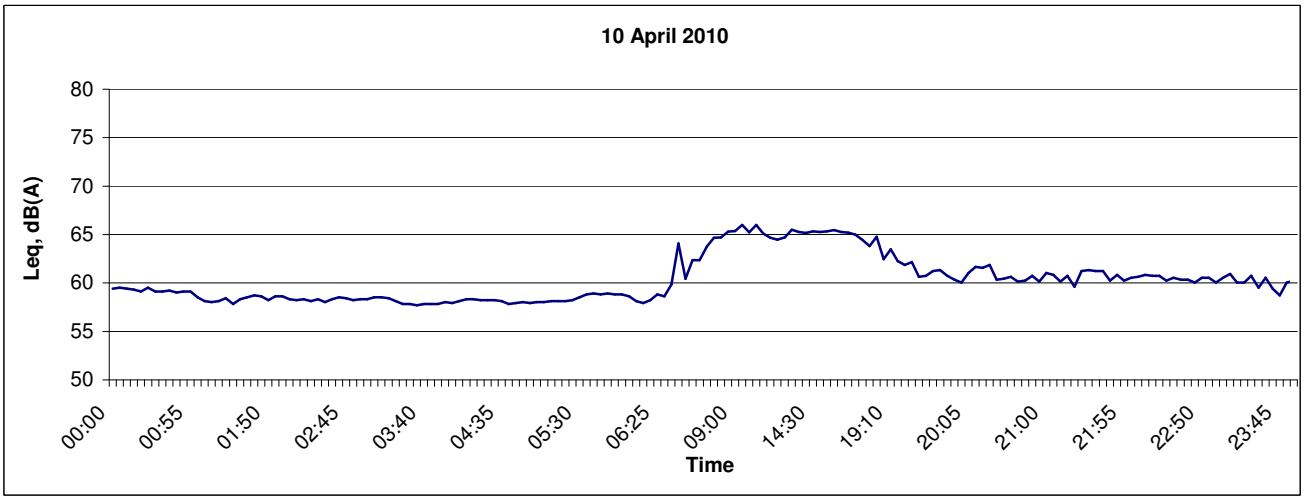
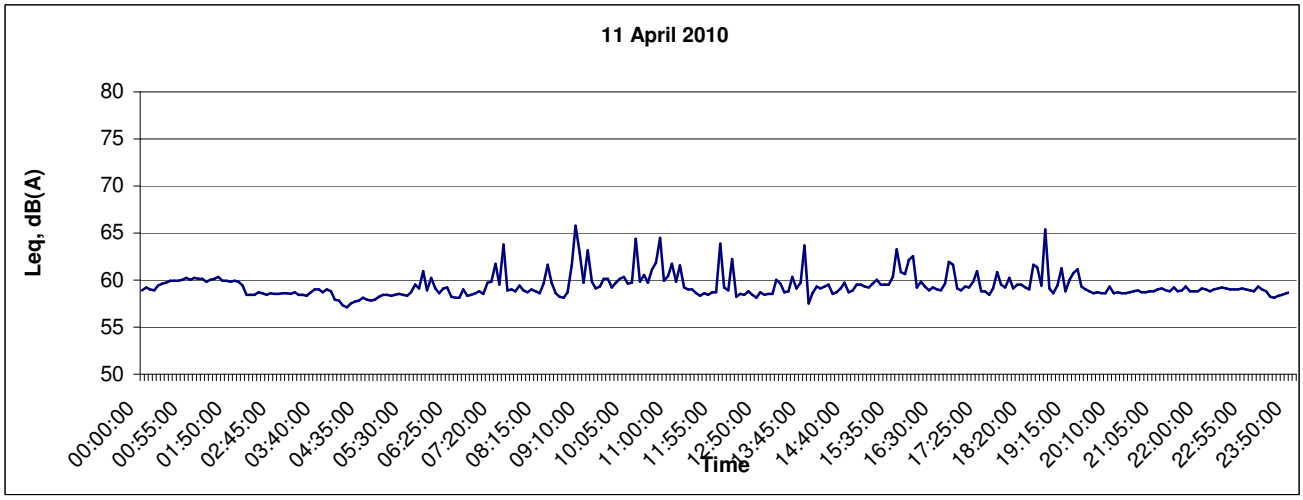
Noise Level at NM1 (Government Staff Quarters)







Title	Contract No. DE/2009/09 Tai Po Sewage Treatment Works, Stage V, Phase IIB Graphical Presentation of Baseline Noise Levels at NM1 (Government Staff Quarters)	Scale N.T.S	Project No. MA10069	CINOTECH
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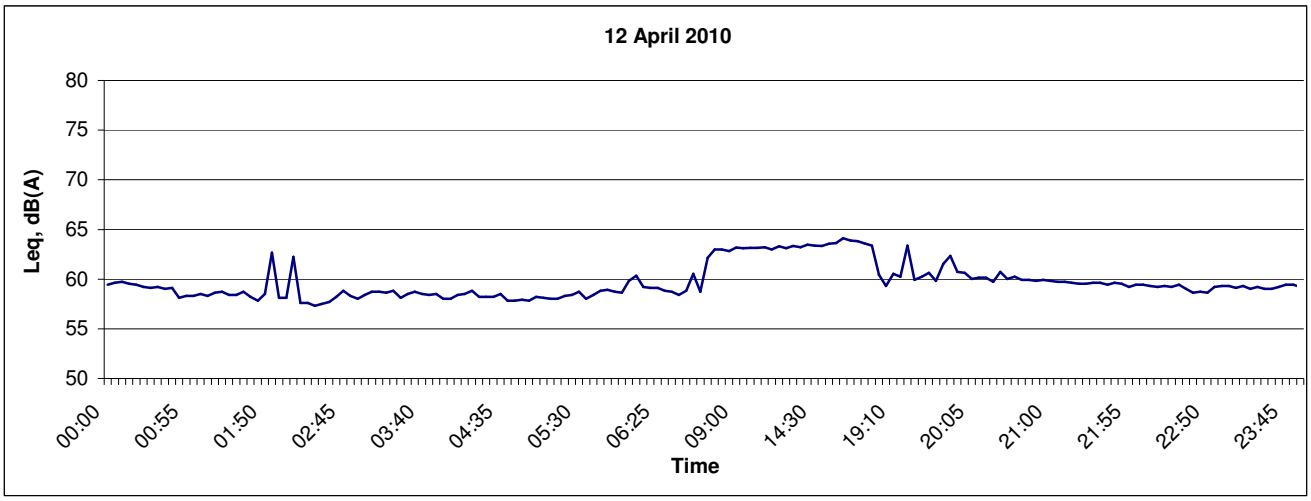
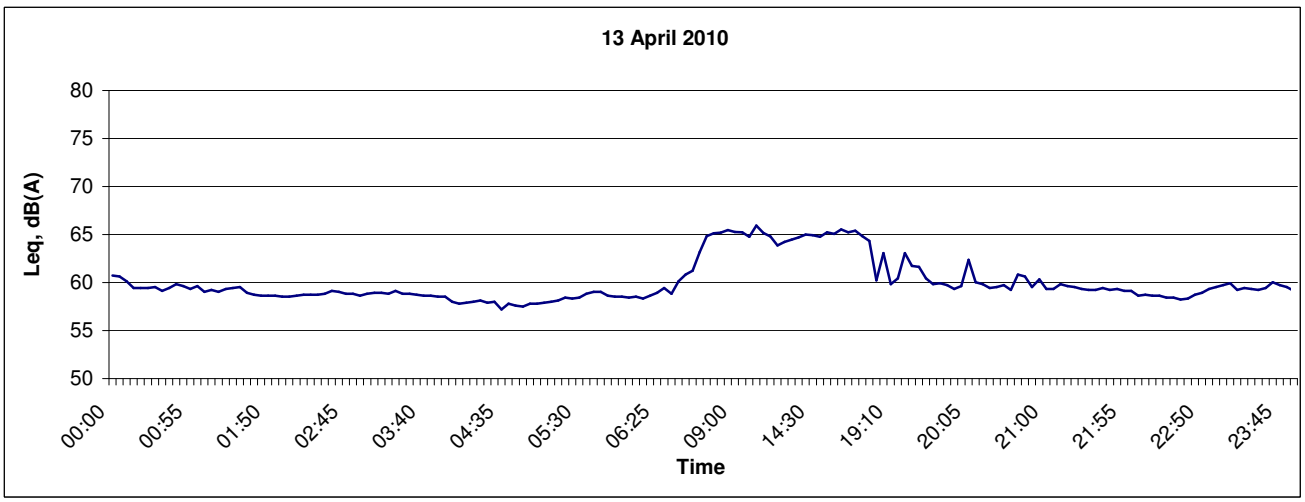
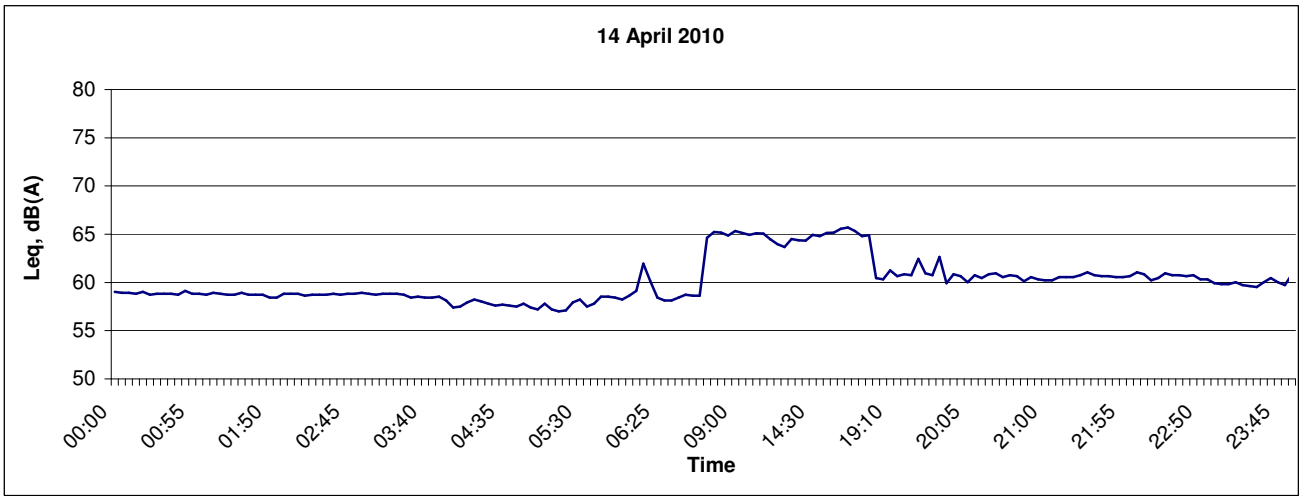
Noise Level at NM1 (Government Staff Quarters)

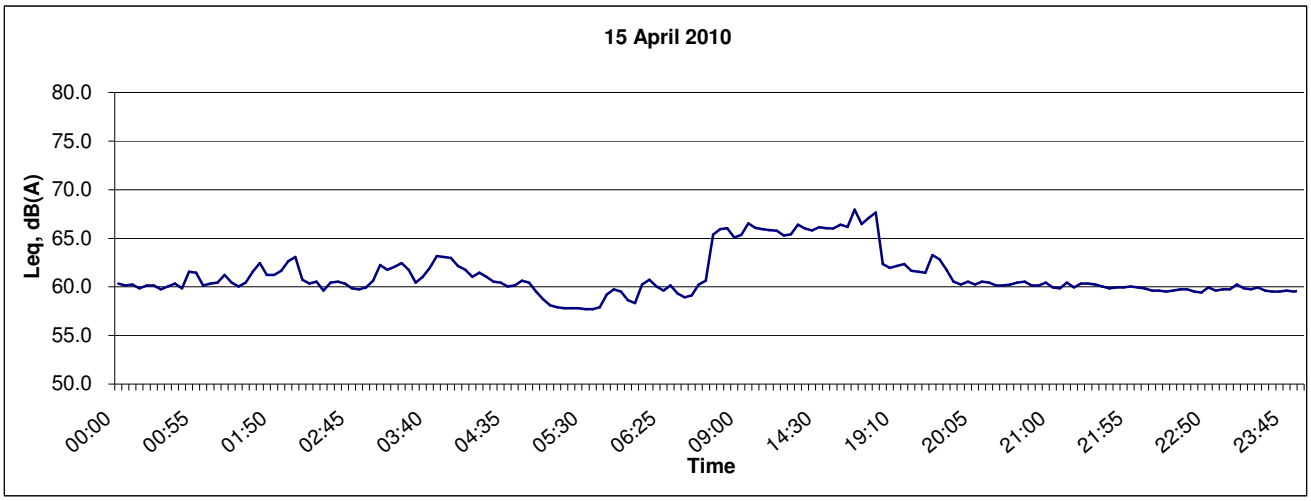


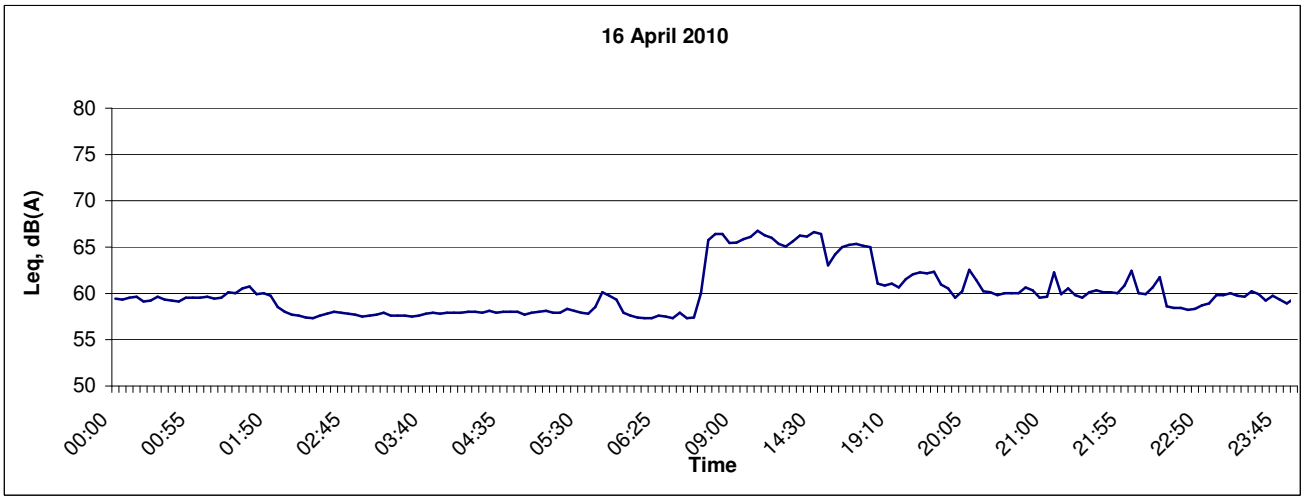


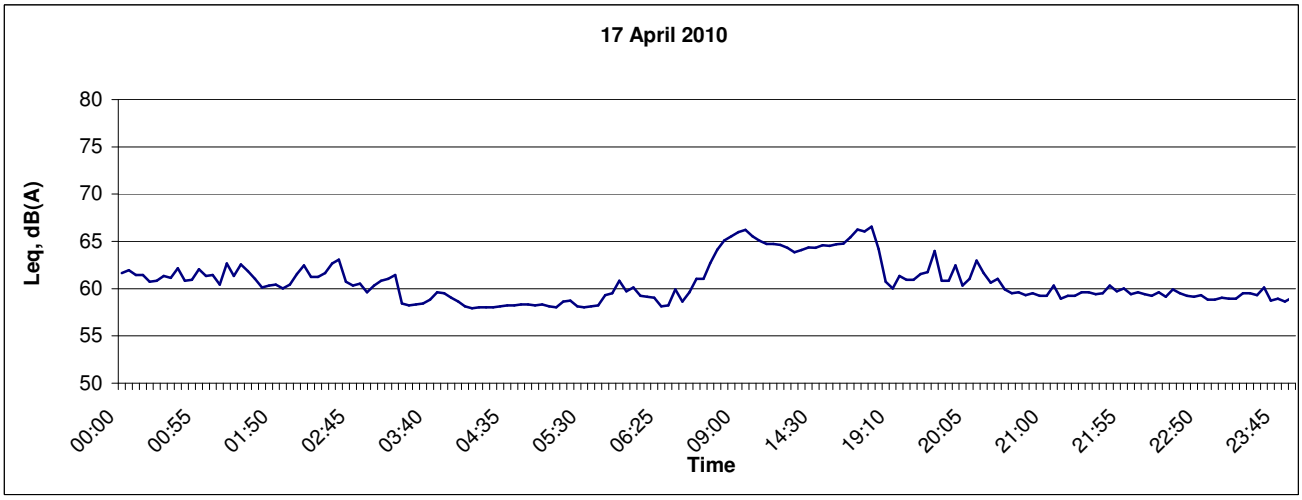


Title		Scale	Project No.	
	Contract No. DE/2009/09 Tai Po Sewage Treatment Works, Stage V, Phase IIB	N.T.S	MA10069	CINOTECH
	Graphical Presentation of Baseline Noise Levels at NM1 (Government Staff Quarters)	Date: April 10	Appendix: B5	

Noise Level at NM1 (Government Staff Quarters)

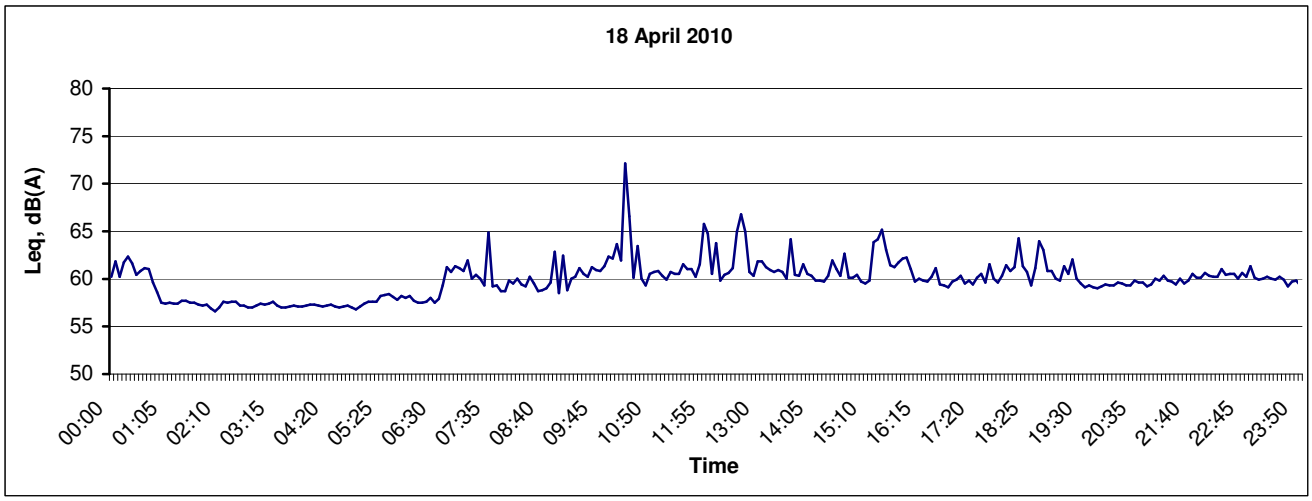


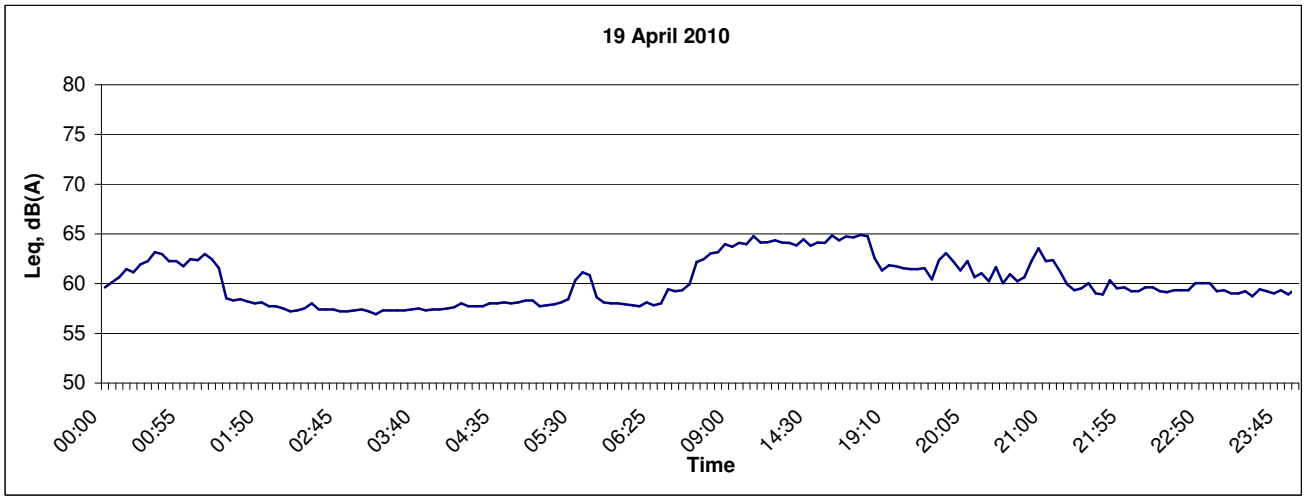


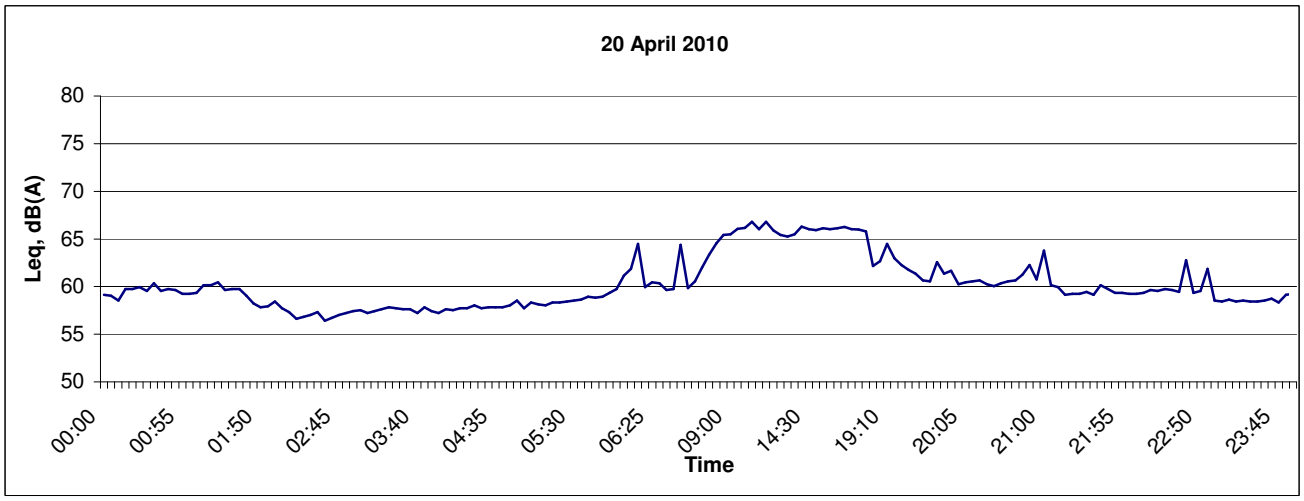


Title		Scale	Project No.	
	Contract No. DE/2009/09 Tai Po Sewage Treatment Works, Stage V, Phase IIB	N.T.S	MA10069	CINOTECH
	Graphical Presentation of Baseline Noise Levels at NM1 (Government Staff Quarters)	Date: April 10	Appendix: B5	

Noise Level at NM1 (Government Staff Quarters)

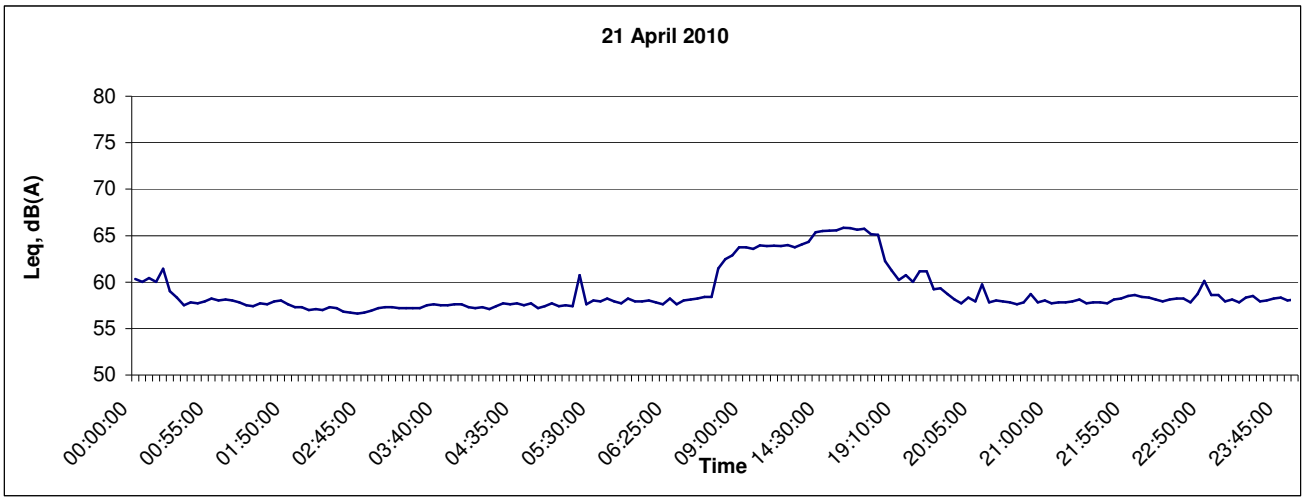


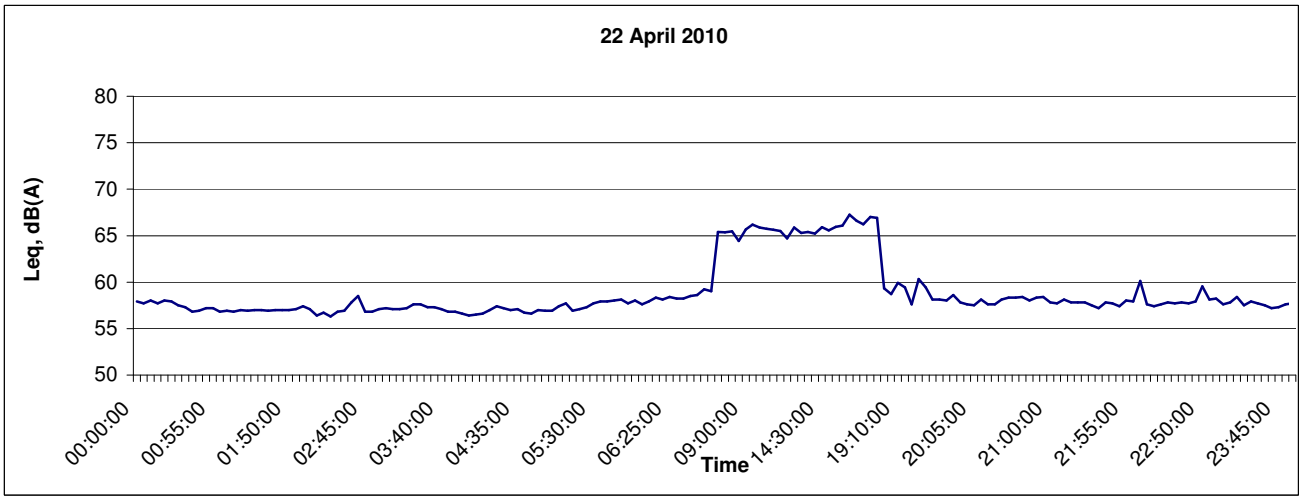




Title	Contract No. DE/2009/09 Tai Po Sewage Treatment Works, Stage V, Phase IIB Graphical Presentation of Baseline Noise Levels at NM1 (Government Staff Quarters)	Scale N.T.S Date April 10	Project No. MA10069 Appendix B5	CINOTECH

Noise Level at NM1 (Government Staff Quarters)





Title: Contract No. DE/2009/09 Tai Po Sewage Treatment Works, Stage V, Phase IIB Graphical Presentation of Baseline Noise Levels at NM1 (Government Staff Quarters)	Scale: N.T.S	Project No.: MA10069	CINOTECH
	Date: April 10	Appendix: B5	

APPENDIX C
WEATHER CONDITIONS DURING THE MONITORING PERIOD

APPENDIX C –
WEATHER CONDITIONS DURING THE MONITORING PERIOD

I. General Information

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)	Weather Condition
9 April 2010	21.0	88	0.0	Fine
10 April 2010	21.9	95	2.0	Cloudy
11 April 2010	25.8	90	0.5	Fine
12 April 2010	24.3	87	0.0	Sunny
13 April 2010	25.2	92	0.0	Cloudy
14 April 2010	18.8	89	0.0	Cloudy
15 April 2010	16.7	94	10.5	Cloudy
16 April 2010	13.7	82	0.0	Fine
17 April 2010	18.4	80	1.0	Cloudy
18 April 2010	18.8	92	3.5	Cloudy
19 April 2010	21.0	91	0.0	Cloudy
20 April 2010	21.9	95	0.0	Cloudy
21 April 2010	25.8	85	0.0	Sunny
22 April 2010	26.8	87	8.5	Cloudy

* Mean Relative Humidity was extracted from the daily weather summary by Hong Kong Observatory at Tai Po Weather Station (No measurement of humidity was made in Tai Mei Tuk Station). The Precipitation was extracted from Tai Mei Tuk Weather Station. Mean Temperature and weather conditions were recorded by field staff.

II. 10-Minute Mean Wind Speed and Wind Direction

Date	Time	Wind Speed m/s	Wind Direction
9-Apr-2010	00:00	2.1	NE
9-Apr-2010	01:00	2.2	NE
9-Apr-2010	02:00	1.9	NE
9-Apr-2010	03:00	2.5	ENE
9-Apr-2010	04:00	2.5	ENE
9-Apr-2010	05:00	2.7	NE
9-Apr-2010	06:00	3.1	E
9-Apr-2010	07:00	2.7	ENE
9-Apr-2010	08:00	2.8	E
9-Apr-2010	09:00	3.1	NE
9-Apr-2010	10:00	3.1	NE
9-Apr-2010	11:00	3.3	NE
9-Apr-2010	12:00	3.4	NNE
9-Apr-2010	13:00	2.7	NNE
9-Apr-2010	14:00	3.0	NNE
9-Apr-2010	15:00	3.3	NE
9-Apr-2010	16:00	2.2	NE
9-Apr-2010	17:00	2.5	NE
9-Apr-2010	18:00	1.9	ENE
9-Apr-2010	19:00	1.9	NNE
9-Apr-2010	20:00	1.3	NE
9-Apr-2010	21:00	1.2	NE
9-Apr-2010	22:00	1.2	NE
9-Apr-2010	23:00	1.2	NE
10-Apr-2010	00:00	1.2	NE
10-Apr-2010	01:00	1.3	NE
10-Apr-2010	02:00	1.3	NNE
10-Apr-2010	03:00	1.2	NE
10-Apr-2010	04:00	1.6	NE
10-Apr-2010	05:00	1.8	NE
10-Apr-2010	06:00	1.9	NE
10-Apr-2010	07:00	1.6	NNE
10-Apr-2010	08:00	2.1	NE
10-Apr-2010	09:00	1.9	NNE

Date	Time	Wind Speed m/s	Wind Direction
10-Apr-2010	10:00	2.7	NNE
10-Apr-2010	11:00	2.8	N
10-Apr-2010	12:00	3.3	N
10-Apr-2010	13:00	3.1	N
10-Apr-2010	14:00	1.9	NE
10-Apr-2010	15:00	1.9	NNE
10-Apr-2010	16:00	2.2	N
10-Apr-2010	17:00	2.4	N
10-Apr-2010	18:00	2.2	N
10-Apr-2010	19:00	1.9	NNE
10-Apr-2010	20:00	1.9	NNE
10-Apr-2010	21:00	1.9	N
10-Apr-2010	22:00	2.1	NNE
10-Apr-2010	23:00	2.7	NE
11-Apr-2010	00:00	2.8	ESE
11-Apr-2010	01:00	3.0	NE
11-Apr-2010	02:00	3.1	NE
11-Apr-2010	03:00	3.0	NE
11-Apr-2010	04:00	3.1	ESE
11-Apr-2010	05:00	3.0	E
11-Apr-2010	06:00	2.8	ESE
11-Apr-2010	07:00	3.3	NNE
11-Apr-2010	08:00	3.4	NNE
11-Apr-2010	09:00	3.3	N
11-Apr-2010	10:00	2.4	NNE
11-Apr-2010	11:00	3.0	N
11-Apr-2010	12:00	3.3	N
11-Apr-2010	13:00	3.0	NNE
11-Apr-2010	14:00	2.7	NNE
11-Apr-2010	15:00	2.8	NNE
11-Apr-2010	16:00	2.5	N
11-Apr-2010	17:00	2.7	NNE
11-Apr-2010	18:00	1.8	N
11-Apr-2010	19:00	1.5	N
11-Apr-2010	20:00	0.9	N
11-Apr-2010	21:00	0.4	NNE

Date	Time	Wind Speed m/s	Wind Direction
11-Apr-2010	22:00	0.6	NE
11-Apr-2010	23:00	0.7	NNE
12-Apr-2010	00:00	1.0	NNE
12-Apr-2010	01:00	1.2	NNE
12-Apr-2010	02:00	1.2	NNE
12-Apr-2010	03:00	2.2	NNE
12-Apr-2010	04:00	1.9	NNE
12-Apr-2010	05:00	1.8	NNE
12-Apr-2010	06:00	1.3	NNE
12-Apr-2010	07:00	1.5	NNE
12-Apr-2010	08:00	1.6	NNE
12-Apr-2010	09:00	1.5	NNE
12-Apr-2010	10:00	1.9	E
12-Apr-2010	11:00	1.6	ENE
12-Apr-2010	12:00	2.2	NE
12-Apr-2010	13:00	1.8	NNE
12-Apr-2010	14:00	2.2	NNE
12-Apr-2010	15:00	1.8	NE
12-Apr-2010	16:00	2.1	NE
12-Apr-2010	17:00	1.0	NE
12-Apr-2010	18:00	0.9	NE
12-Apr-2010	19:00	0.4	E
12-Apr-2010	20:00	0.4	E
12-Apr-2010	21:00	0.9	E
12-Apr-2010	22:00	0.9	E
12-Apr-2010	23:00	0.4	E
13-Apr-2010	00:00	0.6	E
13-Apr-2010	01:00	0.7	ENE
13-Apr-2010	02:00	0.1	ENE
13-Apr-2010	03:00	0.1	ENE
13-Apr-2010	04:00	0.4	ENE
13-Apr-2010	05:00	0.6	ENE
13-Apr-2010	06:00	0.4	E
13-Apr-2010	07:00	0.3	ENE
13-Apr-2010	08:00	0.6	N
13-Apr-2010	09:00	0.9	ENE

Date	Time	Wind Speed m/s	Wind Direction
13-Apr-2010	10:00	1.9	NE
13-Apr-2010	11:00	2.7	NE
13-Apr-2010	12:00	2.4	ENE
13-Apr-2010	13:00	2.2	NE
13-Apr-2010	14:00	2.7	NE
13-Apr-2010	15:00	1.8	ESE
13-Apr-2010	16:00	2.1	ESE
13-Apr-2010	17:00	1.9	ENE
13-Apr-2010	18:00	2.1	NNE
13-Apr-2010	19:00	1.9	NE
13-Apr-2010	20:00	0.7	NNE
13-Apr-2010	21:00	0.6	ESE
13-Apr-2010	22:00	0.6	NE
13-Apr-2010	23:00	0.7	NE
14-Apr-2010	00:00	0.9	NE
14-Apr-2010	01:00	1.3	E
14-Apr-2010	02:00	1.0	E
14-Apr-2010	03:00	1.0	E
14-Apr-2010	04:00	0.7	ENE
14-Apr-2010	05:00	0.6	E
14-Apr-2010	06:00	1.2	E
14-Apr-2010	07:00	1.0	E
14-Apr-2010	08:00	1.3	E
14-Apr-2010	09:00	1.8	E
14-Apr-2010	10:00	2.4	E
14-Apr-2010	11:00	2.8	E
14-Apr-2010	12:00	2.5	E
14-Apr-2010	13:00	2.7	NNE
14-Apr-2010	14:00	3.0	NE
14-Apr-2010	15:00	2.5	NE
14-Apr-2010	16:00	2.8	E
14-Apr-2010	17:00	3.3	ENE
14-Apr-2010	18:00	2.8	E
14-Apr-2010	19:00	2.8	ENE
14-Apr-2010	20:00	3.1	E
14-Apr-2010	21:00	3.1	E

Date	Time	Wind Speed m/s	Wind Direction
14-Apr-2010	22:00	3.1	E
14-Apr-2010	23:00	2.8	ENE
15-Apr-2010	00:00	2.7	ENE
15-Apr-2010	01:00	1.8	ENE
15-Apr-2010	02:00	2.1	ENE
15-Apr-2010	03:00	1.5	ENE
15-Apr-2010	04:00	0.0	---
15-Apr-2010	05:00	0.0	---
15-Apr-2010	06:00	0.0	---
15-Apr-2010	07:00	0.0	---
15-Apr-2010	08:00	0.0	---
15-Apr-2010	09:00	0.0	---
15-Apr-2010	10:00	0.0	---
15-Apr-2010	11:00	2.1	SSW
15-Apr-2010	12:00	2.2	SSW
15-Apr-2010	13:00	1.9	WSW
15-Apr-2010	14:00	1.8	WSW
15-Apr-2010	15:00	1.9	WSW
15-Apr-2010	16:00	2.1	WSW
15-Apr-2010	17:00	2.2	W
15-Apr-2010	18:00	1.9	SSW
15-Apr-2010	19:00	1.5	SSW
15-Apr-2010	20:00	0.9	SSW
15-Apr-2010	21:00	0.0	---
15-Apr-2010	22:00	0.0	---
15-Apr-2010	23:00	1.2	ENE
16-Apr-2010	00:00	1.0	ENE
16-Apr-2010	01:00	1.0	ENE
16-Apr-2010	02:00	0.0	---
16-Apr-2010	03:00	0.0	---
16-Apr-2010	04:00	0.0	---
16-Apr-2010	05:00	0.0	---
16-Apr-2010	06:00	0.9	NE
16-Apr-2010	07:00	0.7	ENE
16-Apr-2010	08:00	1.0	ENE
16-Apr-2010	09:00	2.5	ENE

Date	Time	Wind Speed m/s	Wind Direction
16-Apr-2010	10:00	2.5	ENE
16-Apr-2010	11:00	1.2	NNE
16-Apr-2010	12:00	1.8	N
16-Apr-2010	13:00	1.4	N
16-Apr-2010	14:00	2.5	N
16-Apr-2010	15:00	0.0	---
16-Apr-2010	16:00	0.8	NNE
16-Apr-2010	17:00	0.0	---
16-Apr-2010	18:00	2.5	ENE
16-Apr-2010	19:00	3.0	ENE
16-Apr-2010	20:00	2.1	ENE
16-Apr-2010	21:00	1.5	N
16-Apr-2010	22:00	1.8	NNE
16-Apr-2010	23:00	1.8	E
17-Apr-2010	00:00	2.1	E
17-Apr-2010	01:00	2.1	E
17-Apr-2010	02:00	2.1	ENE
17-Apr-2010	03:00	2.1	E
17-Apr-2010	04:00	3.0	E
17-Apr-2010	05:00	2.8	E
17-Apr-2010	06:00	2.2	E
17-Apr-2010	07:00	2.2	NNE
17-Apr-2010	08:00	2.1	E
17-Apr-2010	09:00	2.2	E
17-Apr-2010	10:00	3.1	E
17-Apr-2010	11:00	3.3	E
17-Apr-2010	12:00	3.4	NE
17-Apr-2010	13:00	3.6	NNE
17-Apr-2010	14:00	3.9	NNE
17-Apr-2010	15:00	3.7	NE
17-Apr-2010	16:00	3.4	NE
17-Apr-2010	17:00	2.2	ENE
17-Apr-2010	18:00	2.1	E
17-Apr-2010	19:00	1.8	ENE
17-Apr-2010	20:00	1.8	E
17-Apr-2010	21:00	1.3	E

Date	Time	Wind Speed m/s	Wind Direction
17-Apr-2010	22:00	0.9	E
17-Apr-2010	23:00	0.7	E
18-Apr-2010	00:00	1.2	E
18-Apr-2010	01:00	1.8	NE
18-Apr-2010	02:00	1.9	NNE
18-Apr-2010	03:00	1.3	NNE
18-Apr-2010	04:00	2.1	NE
18-Apr-2010	05:00	2.2	NE
18-Apr-2010	06:00	1.9	ENE
18-Apr-2010	07:00	2.2	E
18-Apr-2010	08:00	1.9	ENE
18-Apr-2010	09:00	2.7	E
18-Apr-2010	10:00	2.8	NNE
18-Apr-2010	11:00	2.5	ENE
18-Apr-2010	12:00	2.5	NNE
18-Apr-2010	13:00	2.5	E
18-Apr-2010	14:00	2.7	ESE
18-Apr-2010	15:00	2.7	WSW
18-Apr-2010	16:00	2.1	WSW
18-Apr-2010	17:00	1.8	WNW
18-Apr-2010	18:00	1.8	WSW
18-Apr-2010	19:00	1.3	WNW
18-Apr-2010	20:00	1.5	WSW
18-Apr-2010	21:00	1.6	WSW
18-Apr-2010	22:00	2.1	W
18-Apr-2010	23:00	1.9	WNW
19-Apr-2010	00:00	1.8	WNW
19-Apr-2010	01:00	1.5	WNW
19-Apr-2010	02:00	1.9	WNW
19-Apr-2010	03:00	2.1	WNW
19-Apr-2010	04:00	2.5	SW
19-Apr-2010	05:00	2.4	WSW
19-Apr-2010	06:00	2.8	WSW
19-Apr-2010	07:00	2.7	SW
19-Apr-2010	08:00	2.2	W
19-Apr-2010	09:00	2.5	W

Date	Time	Wind Speed m/s	Wind Direction
19-Apr-2010	10:00	2.7	SW
19-Apr-2010	11:00	2.8	SSW
19-Apr-2010	12:00	2.5	SSW
19-Apr-2010	13:00	3.0	WNW
19-Apr-2010	14:00	3.1	W
19-Apr-2010	15:00	3.3	WNW
19-Apr-2010	16:00	3.6	W
19-Apr-2010	17:00	2.7	W
19-Apr-2010	18:00	2.4	W
19-Apr-2010	19:00	1.8	WNW
19-Apr-2010	20:00	1.5	W
19-Apr-2010	21:00	1.3	WNW
19-Apr-2010	22:00	1.0	WNW
19-Apr-2010	23:00	1.2	ENE
20-Apr-2010	00:00	1.0	ENE
20-Apr-2010	01:00	1.0	ENE
20-Apr-2010	02:00	1.2	NNE
20-Apr-2010	03:00	1.2	ENE
20-Apr-2010	04:00	1.5	ENE
20-Apr-2010	05:00	0.6	ENE
20-Apr-2010	06:00	0.7	ENE
20-Apr-2010	07:00	1.2	ENE
20-Apr-2010	08:00	1.6	ENE
20-Apr-2010	09:00	2.5	NNE
20-Apr-2010	10:00	2.8	NNE
20-Apr-2010	11:00	2.2	NNE
20-Apr-2010	12:00	2.8	NE
20-Apr-2010	13:00	3.0	NNE
20-Apr-2010	14:00	2.5	NNE
20-Apr-2010	15:00	2.4	NE
20-Apr-2010	16:00	2.2	NNE
20-Apr-2010	17:00	1.5	ENE
20-Apr-2010	18:00	1.6	ESE
20-Apr-2010	19:00	1.5	ESE
20-Apr-2010	20:00	1.2	ESE
20-Apr-2010	21:00	1.0	SSE

Date	Time	Wind Speed m/s	Wind Direction
20-Apr-2010	22:00	0.7	ENE
20-Apr-2010	23:00	0.7	ENE
21-Apr-2010	00:00	0.6	ENE
21-Apr-2010	01:00	0.1	ENE
21-Apr-2010	02:00	0.9	NE
21-Apr-2010	03:00	0.4	NNE
21-Apr-2010	04:00	0.9	ESE
21-Apr-2010	05:00	1.0	NE
21-Apr-2010	06:00	0.6	SE
21-Apr-2010	07:00	0.7	SE
21-Apr-2010	08:00	1.0	SE
21-Apr-2010	09:00	1.5	SE
21-Apr-2010	10:00	1.8	NNE
21-Apr-2010	11:00	2.2	NE
21-Apr-2010	12:00	2.2	NNE
21-Apr-2010	13:00	2.2	NNE
21-Apr-2010	14:00	2.2	NNE
21-Apr-2010	15:00	2.1	NNE
21-Apr-2010	16:00	1.9	NNE
21-Apr-2010	17:00	1.5	NNE
21-Apr-2010	18:00	1.6	NNE
21-Apr-2010	19:00	0.7	NNE
21-Apr-2010	20:00	0.7	NE
21-Apr-2010	21:00	1.0	NNE
21-Apr-2010	22:00	0.7	NE
21-Apr-2010	23:00	0.7	ENE
22-Apr-2010	00:00	0.4	NNE
22-Apr-2010	01:00	0.6	NE
22-Apr-2010	02:00	1.3	NE
22-Apr-2010	03:00	1.3	N
22-Apr-2010	04:00	1.3	N
22-Apr-2010	05:00	1.9	N
22-Apr-2010	06:00	1.6	N
22-Apr-2010	07:00	1.3	N
22-Apr-2010	08:00	2.2	N
22-Apr-2010	09:00	2.1	N

Date	Time	Wind Speed m/s	Wind Direction
22-Apr-2010	10:00	2.4	N
22-Apr-2010	11:00	2.2	ENE
22-Apr-2010	12:00	2.1	NE
22-Apr-2010	13:00	2.2	NE
22-Apr-2010	14:00	1.9	SSE
22-Apr-2010	15:00	3.1	E
22-Apr-2010	16:00	2.5	ESE
22-Apr-2010	17:00	2.4	NNE
22-Apr-2010	18:00	2.2	E
22-Apr-2010	19:00	2.4	ENE
22-Apr-2010	20:00	2.1	NE
22-Apr-2010	21:00	2.2	NE
22-Apr-2010	22:00	1.5	E
22-Apr-2010	23:00	1.8	E

Remarks:

1. The above wind data was obtained by the HK Observatory at Tai Mei Tuk Weather Station. (Elevation of station : 55m above mean sea level; Height of Anemometer : 71m above mean sea level)

APPENDIX D
BASELINE MONITORING SCHEDULE

Construction of Tai Po Sewage Treatment Works - Stage 5 Phase 2B
Baseline Air Quality and Noise Monitoring Schedule

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Apr	**2-Apr**	**3-Apr**
4-Apr	**5-Apr**	**6-Apr**	7-Apr	8-Apr	9-Apr	10-Apr
					3 x 1hr TSP 24hr TSP Noise (Started at 07:00am)	3 x 1hr TSP 24hr TSP Noise
11-Apr	12-Apr	13-Apr	14-Apr	15-Apr	16-Apr	17-Apr
3 x 1hr TSP 24hr TSP Noise	3 x 1hr TSP 24hr TSP Noise	3 x 1hr TSP 24hr TSP Noise	3 x 1hr TSP 24hr TSP Noise	3 x 1hr TSP 24hr TSP Noise	3 x 1hr TSP 24hr TSP Noise	3 x 1hr TSP 24hr TSP Noise
18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr
3 x 1hr TSP 24hr TSP Noise	3 x 1hr TSP 24hr TSP Noise	3 x 1hr TSP 24hr TSP Noise	3 x 1hr TSP 24hr TSP Noise	3 x 1hr TSP 24hr TSP Noise	Noise (Ended at 07:00am)	
25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr	

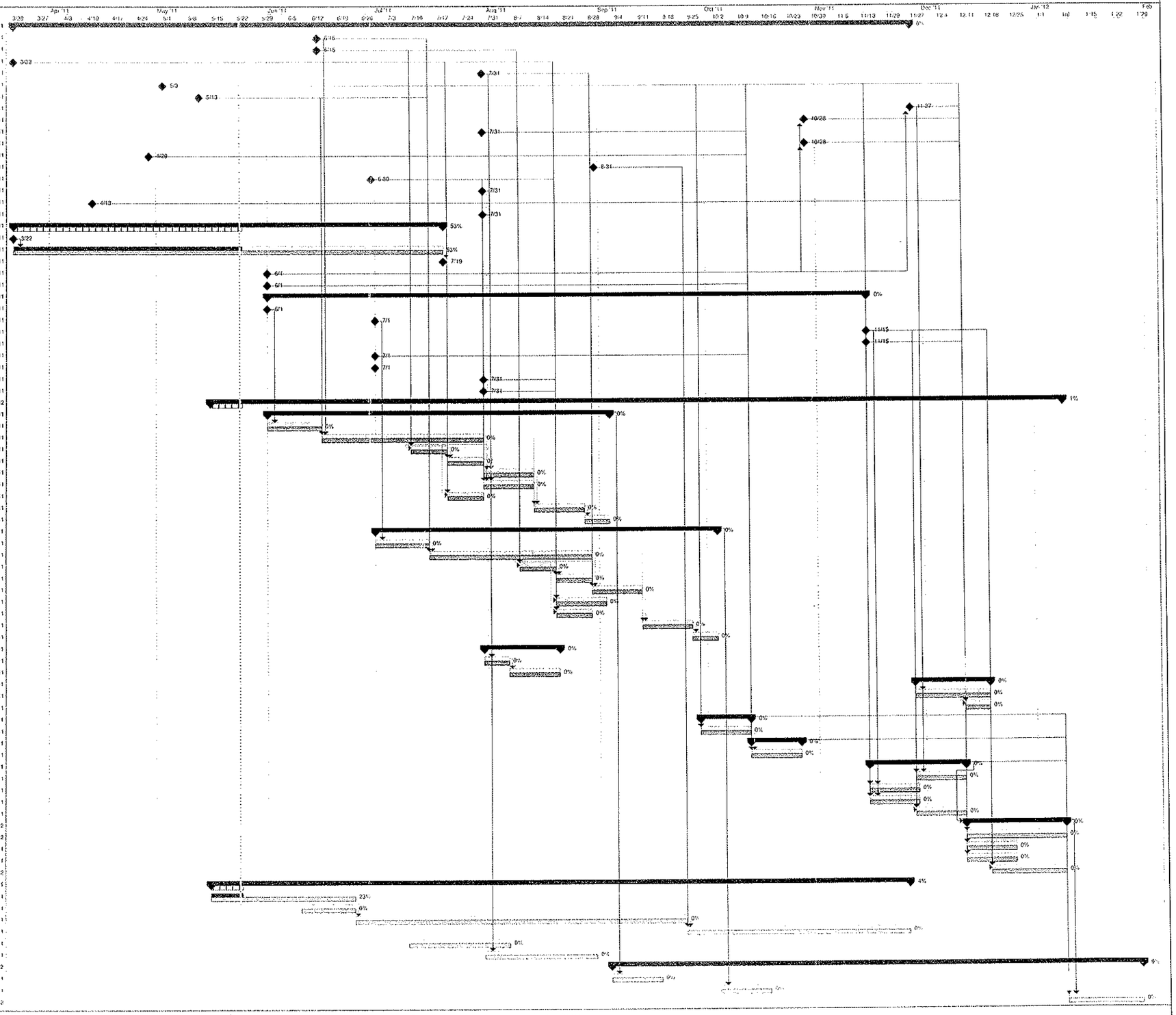
APPENDIX E
CONSTRUCTION PROGRAMME

Contract No. DE 2009-09

Supply and Installation of Electrical and Mechanical Equipment for Tai Po Sewage Treatment Works Stage 1 Phase 2B

Section I of the Works

ID	Task Name	Duration	Start	Finish
1	Equipment & Material Delivery to Site	251 days	Tue 3/22/11	Sun 11/27/11
2	Tripods, Bridges & Scrapers	0 days	Wed 6/15/11	Wed 6/15/11
3	Weir Plates	0 days	Wed 6/15/11	Wed 6/15/11
4	Density Current Baffles	0 days	Tue 3/22/11	Tue 3/22/11
5	FCW & FEDB	0 days	Sun 7/31/11	Sun 7/31/11
6	D.I. Pipes, Fittings & Accessories	0 days	Tue 5/3/11	Tue 5/3/11
7	Water Spray Pumps & Associated Pipework	0 days	Fri 5/13/11	Fri 5/13/11
8	Penstocks & Electric Actuators	0 days	Sun 11/27/11	Sun 11/27/11
9	Submersible Drain Pumps (V.O.)	0 days	Fri 10/28/11	Fri 10/28/11
10	Valves & Electric Actuators	0 days	Sun 7/31/11	Sun 7/31/11
11	Lifting Appliances (V.O.)	0 days	Fri 10/28/11	Fri 10/28/11
12	Instrumentation (Ultrasonic Level Sensors, EM Flowmeters & Sludge Blanket Sensors)	0 days	Fri 4/29/11	Fri 4/29/11
13	L.V. Switchboard (MCC4)	0 days	Wed 8/31/11	Wed 8/31/11
14	LCP for Scraper Bridges	0 days	Thu 6/30/11	Thu 6/30/11
15	Control Panels inside Pillar Box	0 days	Sun 7/31/11	Sun 7/31/11
16	Cables, Cable Trays & Accessories	0 days	Wed 4/13/11	Wed 4/13/11
17	B.S. & F.S. Equipment & Accessories	0 days	Sun 7/31/11	Sun 7/31/11
18	**Section I of the Works**	120 days	Tue 3/22/11	Tue 7/19/11
19	Contractual Commencement Date (Notified by the Engineer)	0 days	Tue 3/22/11	Tue 3/22/11
20	Section I of the Works	120 days	Tue 3/22/11	Tue 7/19/11
21	Contractual Completion Date	0 days	Tue 7/19/11	Tue 7/19/11
22	V.O. * Instruction for new arrangement of Sludge Draw-off Chamber No.3 & 4 (by DSD)	0 days	Wed 6/1/11	Wed 6/1/11
23	V.O. * Instruction for new arrangment of FMC1B & FMC2B (by DSD)	0 days	Wed 6/1/11	Wed 6/1/11
24	**Possession/Availability of Site**	167 days	Wed 6/1/11	Tue 11/15/11
25	FC11B	0 days	Wed 6/1/11	Wed 6/1/11
26	FC12B	0 days	Fri 7/1/11	Fri 7/1/11
27	Sludge Draw-off Chamber No.3 (Re-constructed)	0 days	Tue 11/15/11	Tue 11/15/11
28	Sludge Draw-off Chamber No.4 (Re-constructed)	0 days	Tue 11/15/11	Tue 11/15/11
29	FMC1B	0 days	Fri 7/1/11	Fri 7/1/11
30	FMC2B	0 days	Fri 7/1/11	Fri 7/1/11
31	Pillar Box for FC11B & 12B	0 days	Sun 7/31/11	Sun 7/31/11
32	Cable Drawpits and Ducts	0 days	Sun 7/31/11	Sun 7/31/11
33	**E&M Installation**	238 days	Mon 5/16/11	Sun 1/8/12
34	**FC11B**	95 days	Wed 6/1/11	Sat 9/3/11
35	Site Preparation Works	15 days	Wed 6/1/11	Wed 6/15/11
36	Tripods, Bridges & Scrapers	45 days	Thu 6/16/11	Sat 7/30/11
37	Weir Plates	10 days	Mon 7/11/11	Wed 7/20/11
38	Density Current Baffles	10 days	Thu 7/21/11	Sat 7/30/11
39	FCW & FEDB	14 days	Sun 7/31/11	Sat 8/13/11
40	LCP and Electrical Installation	14 days	Sun 7/31/11	Sat 8/13/11
41	Instrumentation	10 days	Thu 7/21/11	Sat 7/30/11
42	Final Screeding	14 days	Sun 8/14/11	Sat 8/27/11
43	Painting of Civil Structure (by Civil Contractor)	7 days	Sun 8/28/11	Sat 9/3/11
44	**FC12B**	95 days	Fri 7/1/11	Mon 10/3/11
45	Site Preparation Works	15 days	Fri 7/1/11	Fri 7/15/11
46	Tripods, Bridges & Scrapers	45 days	Sat 7/16/11	Mon 8/29/11
47	Weir Plates	10 days	Wed 8/10/11	Fri 8/19/11
48	Density Current Baffles	10 days	Sat 8/20/11	Mon 8/29/11
49	FCW & FEDB	14 days	Tue 8/30/11	Mon 9/12/11
50	LCP and Electrical Installation	14 days	Sat 8/20/11	Fri 9/2/11
51	Instrumentation	10 days	Sat 8/20/11	Mon 8/29/11
52	Final Screeding	14 days	Tue 9/13/11	Mon 9/26/11
53	Painting of Civil Structure (by Civil Contractor)	7 days	Tue 9/27/11	Mon 10/3/11
54	**Pillar Box for FC11B & 12B**	21 days	Sun 7/31/11	Sat 8/20/11
55	Control Panels	7 days	Sun 7/31/11	Sat 8/6/11
56	Electrical Installation	14 days	Sun 8/7/11	Sat 8/20/11
57	Existing Distribution Chamber	21 days	Mon 11/28/11	Sun 12/18/11
58	Penstock Installation	21 days	Mon 11/28/11	Sun 12/18/11
59	Electrical Installation	7 days	Mon 12/12/11	Sun 12/18/11
60	**FMC1B**	14 days	Thu 9/29/11	Wed 10/12/11
61	Pinch Valve, EM Flowmeter & Pipework Installation	14 days	Thu 9/29/11	Wed 10/12/11
62	**FMC2B**	14 days	Thu 10/13/11	Wed 10/26/11
63	Pinch Valve, EM Flowmeter & Pipework Installation	14 days	Thu 10/13/11	Wed 10/26/11
64	**Sludge Draw-off Chamber No.3 (Re-constructed)**	27 days	Tue 11/15/11	Sun 12/11/11
65	Penstock Installation	14 days	Mon 11/28/11	Sun 12/11/11
66	Submersible Drain Pumps and Pipework	14 days	Tue 11/15/11	Mon 11/28/11
67	Lifting Appliance	14 days	Tue 11/15/11	Mon 11/28/11
68	Instrumentation and Electrical Installation	14 days	Mon 11/28/11	Sun 12/11/11
69	**Sludge Draw-off Chamber No.4 (Re-constructed)**	28 days	Mon 12/12/11	Sun 1/8/12
70	Penstock Installation	28 days	Mon 12/12/11	Sun 1/8/12
71	Submersible Drain Pumps and Pipework	14 days	Mon 12/12/11	Sun 12/25/11
72	Lifting Appliance	14 days	Mon 12/12/11	Sun 12/25/11
73	Instrumentation and Electrical Installation	21 days	Mon 12/19/11	Sun 1/8/12
74	**Upgrade of L.V. Switchboard (MCC4) at Chemical House**	194 days	Mon 5/16/11	Fri 11/25/11
75	Temporary Control Panels for Existing MCC	40 days	Mon 5/16/11	Fri 6/24/11
76	Temporary NaOCl Dosing System	15 days	Fri 6/10/11	Fri 6/24/11
77	Modification of Chemical House (by Civil Contractor)	92 days	Sat 6/25/11	Sat 9/24/11
78	L.V. Switchboard (MCC4) Installation and Testing	62 days	Sun 9/25/11	Fri 11/25/11
79	Modification of Existing SCADA/PLC System at Aeration Tank Control Kiosk	28 days	Sun 7/10/11	Sat 8/6/11
80	B.S. & F.S. Installation	31 days	Sun 7/31/11	Tue 8/30/11
81	**Testing & Commissioning**	148 days	Sun 9/4/11	Sun 1/29/12
82	Functional Test of FC11B	14 days	Sun 9/4/11	Sat 9/17/11
83	Functional Test of FC12B	14 days	Tue 10/4/11	Mon 10/17/11
84	System Commissioning	21 days	Mon 1/9/12	Sun 1/29/12

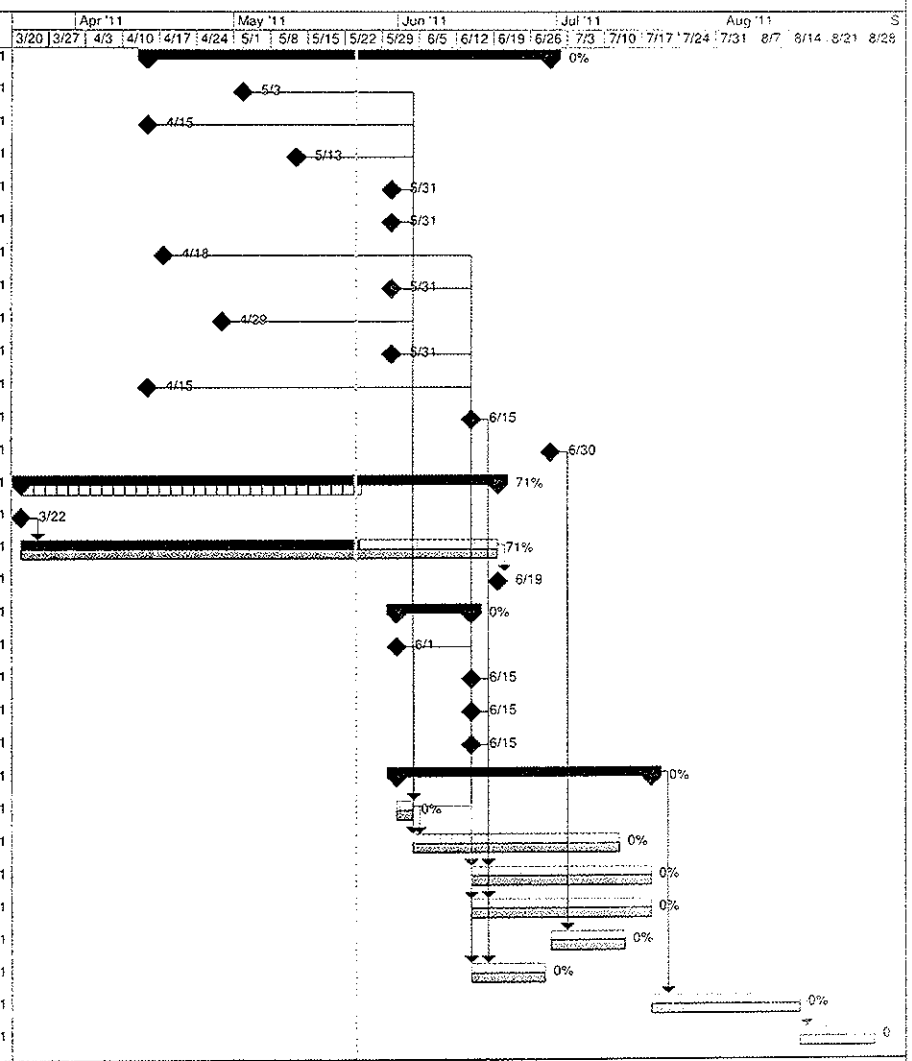


Revision B Date: 24 May 2011	Critical	Critical Progress	Split	Baseline	Baseline Milestones	Summary Progress	Project Summary	External Milestone
	Critical Split	Task	Task Progress	Baseline Split	Milestone	Summary	External Tasks	Deadline

Contract No. DE/2009/09
Supply and Installation of Electrical and Mechanical Equipment for Tai Po Sewage Treatment Works Stage 5 Phase 2B

Section IV of the Works

ID	Task Name	Duration	Start	Finish
1	**Equipment & Material Delivery to Site**	76 days	Fri 4/15/11	Thu 6/30/11
2	FeCl3 Storage Tanks	0 days	Tue 5/3/11	Tue 5/3/11
3	FeCl3 Dosing Pumps & Accessories	0 days	Fri 4/15/11	Fri 4/15/11
4	Chemical Sump Pump	0 days	Fri 5/13/11	Fri 5/13/11
5	PVC Pipes, Fittings & Accessories	0 days	Tue 5/31/11	Tue 5/31/11
6	PVC Ball Valves & Check Valves	0 days	Tue 5/31/11	Tue 5/31/11
7	Double Containment Pipes, Fittings & Accessories	0 days	Mon 4/18/11	Mon 4/18/11
8	PVC Motorized Ball Valves	0 days	Tue 5/31/11	Tue 5/31/11
9	Instrumentation (Ultrasonic Level Sensors & EM Flowmeters)	0 days	Fri 4/29/11	Fri 4/29/11
10	Local Control Panels	0 days	Tue 5/31/11	Tue 5/31/11
11	Cables, Cable Trays & Accessories	0 days	Fri 4/15/11	Fri 4/15/11
12	B.S. Equipment & Accessories	0 days	Wed 6/15/11	Wed 6/15/11
13	PLC Panel (System J)	0 days	Thu 6/30/11	Thu 6/30/11
14	**Section IV of the Works**	90 days	Tue 3/22/11	Sun 6/19/11
15	Contractual Commencement Date (Notified by the Engineer)	0 days	Tue 3/22/11	Tue 3/22/11
16	Section IV of the Works	90 days	Tue 3/22/11	Sun 6/19/11
17	Contractual Completion Date	0 days	Sun 6/19/11	Sun 6/19/11
18	**Possession/Availability of Site**	14 days	Wed 6/1/11	Wed 6/15/11
19	FeCl3 Dosing Compound	0 days	Wed 6/1/11	Wed 6/1/11
20	Permanent Pipe Trench	0 days	Wed 6/15/11	Wed 6/15/11
21	Cable Drawpits and Ducts	0 days	Wed 6/15/11	Wed 6/15/11
22	Wall Openings for Cable Run in Existing Pipe Gallery	0 days	Wed 6/15/11	Wed 6/15/11
23	**E&M Installation**	48 days	Wed 6/1/11	Mon 7/18/11
24	Site Preparation Works	3 days	Wed 6/1/11	Fri 6/3/11
25	FeCl3 Storage & Dosing Equipment Installation inside FeCl3 Dosing Compound	39 days	Sat 6/4/11	Tue 7/12/11
26	Pipework Installation at Pipe Trench, Service Tower Building and Existing Digestion Tanks	34 days	Wed 6/15/11	Mon 7/18/11
27	LCP & Electrical Installation	34 days	Wed 6/15/11	Mon 7/18/11
28	SCADA/PLC Panel (System J) Installation at CBC Control Room	14 days	Thu 6/30/11	Wed 7/13/11
29	B.S. Equipment Installation	14 days	Wed 6/15/11	Tue 6/28/11
30	Testing & Commissioning	28 days	Tue 7/19/11	Mon 8/15/11
31	Decommissioning of Existing FeCl3 Dosing System	14 days	Tue 8/16/11	Mon 8/29/11



Revision: B
Date: 24 May 2011

Critical
Critical Split
Critical Progress
Task
Split
Task Progress
Baseline
Baseline Split
Baseline Milestone
Milestone
Summary Progress
Summary
Project Summary
External Tasks
External Milestone
Deadline