



Territory Development Department
NT East Development Office

**SHA TIN NEW TOWN STAGE II
CONTRACT NO. ST 86/2000
CONSTRUCTION OF ROAD T7 IN MA ON SHAN
ENVIRONMENTAL MONITORING AND AUDIT**

QUARTERLY EM&A SUMMARY REPORT

JANUARY 2004 TO MARCH 2004

Prepared For:

Maunsell Consultants Asia Limited

By:

Ove Arup & Partners Hong Kong Ltd.

ARUP

Tel.: 2528 3031

Fax: 2865 6493

Report No.: 23156-Q13

Limitation of Use and Liability

This report has been prepared for only the purposes described in our instructions and the brief, and solely for the use of our client. No representation is made, or is to be implied as being made, to any third party and no liability to any third party is accepted. This report is copyright and may not be reproduced in whole or in part without prior written permission.

Job No 23156

**SHA TIN NEW TOWN STAGE II
CONTRACT NO. ST 86/2000
CONSTRUCTION OF ROAD T7 IN MA ON SHAN
ENVIRONMENTAL MONITORING AND AUDIT**

QUARTERLY EM&A SUMMARY REPORT FOR JANUARY 2004 TO MARCH 2004

Prepared by Sherry Tsang (BSc MHKWMA AMIEnvSc)

Signed

Date

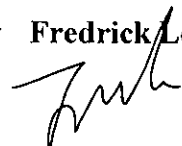


14 April 2004

Checked by Fredrick Leong (CBiol MIBiol MCIWEM FLS MRSC MHKIOEH FRSH)

Signed

Date



14 April 2004

Approved by Sam Tsoi (CEng FIOA MHKIE MIMechE MIEnvSc)

Signed

Date



14 April 2004

Revision record

Revision Number	Date	Description	Prepared	Checked	Approved

CONTENT

EXECUTIVE SUMMARY	1
1. INTRODUCTION	1-1
1.1 Purpose of the Report	1-1
1.2 Site Description	1-1
2. ENVIRONMENTAL STATUS	2-1
2.1 Construction Activities in the Quarter	2-1
2.2 Environmental Sensitive Receivers	2-1
3. SUMMARY OF EM&A REQUIREMENTS	3-1
3.1 Construction Noise Monitoring	3-1
3.1.1 Monitoring Parameters	3-1
3.1.2 Monitoring Frequency	3-1
3.1.3 Monitoring Locations	3-1
3.2 Air Quality Monitoring	3-2
3.2.1 Monitoring Parameters	3-2
3.2.2 Monitoring Frequency	3-2
3.2.3 Monitoring Locations	3-2
3.3 Performance Limits and Event-Action Plans	3-3
3.3.1 Construction Noise Impact	3-4
3.3.2 Air Quality	3-5
4. CONSTRUCTION NOISE MONITORING	4-1
4.1 Monitoring Results	4-1
5. AIR QUALITY MONITORING	5-1
5.1 24-hour TSP Monitoring Results	5-1
5.2 1-hour Monitoring Results	5-2
6. QUARTERLY SUMMARY, ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE RECORDS	6-1
6.1 Waste Disposal	6-1
6.2 EPD Site Inspection	6-2
6.3 Complaint Record	6-3
6.4 Non-compliance Record	6-5
7. REFERENCES	7-1

This page left blank intentionally

LIST OF APPENDICES

- Appendix 1 - Noise Impact Monitoring Details from January 2004 to March 2004
- Appendix 2 - 24-hour TSP Monitoring Details from January 2004 to March 2004
- Appendix 3 - 1-hour TSP Monitoring Details from January 2004 to March 2004
- Appendix 4 - Correspondences of the Public Complaints from January 2004 to March 2004

This page left blank intentionally

ABBREVIATIONS AND ACRONYMS

AQO	Air Quality Objectives
Arup	Ove Arup & Partners Hong Kong Ltd
ASR	Area Sensitive Rating
BOD ₅	Biochemical Oxygen Demand (5 days)
B&K	Brüel & Kjær
CFM	Cubic Feet per Minute
CHEC	China Harbour Engineering Company
CNP	Construction Noise Permit
CT	Contractor
EA	Environmental Auditor
EIA	Environmental Impact Assessment
EM&A	Environmental Monitoring and Audit
EP	Environmental Permit
EPD	Environmental Protection Department
ER	Engineer / Engineer's Representative
ET	Environmental Team
HKSAR	Hong Kong Special Administrative Region
HOKLAS	The Hong Kong Laboratory Accreditation Scheme
HVS	High Volume Sampler
IEC	International Electrotechnical Commission Publications
K	Degrees Kelvin
MCAL	Maunsell Consultants Asia Limited
NAMAS	National Measurement Accreditation Service
NSR	Noise Sensitive Receiver
TDD NTE	Territory Development Department New Territory East Office
TSP	Total Suspended Particulates

This page left blank intentionally

EXECUTIVE SUMMARY

This quarterly EM&A report summaries the site inspection findings, air quality and noise impact monitoring works for the period between January 2004 to March 2004.

For noise monitoring, $L_{eq(30min)}$ level was recorded once a week between the period of 0700 and 2300 at Ma On Shan Lutheran Primary School (NM2), Heng Shan House, Heng On Estate (NM3), Kam Yiu House, Kam Ying Court (NM4), Symphony Bay (NM6), Podium of block 15, Monte Vista (NM7) and Roof of block 15, Monte Vista (NM8).

Twelve measurements were taken at each location during 0700-1900 and twelve measurements were taken at NM3, NM4, NM6 and NM8 during 1900-2300 from January 2004 to March 2004. The recorded noise levels were in the range from 59.0 to 74.9 dB(A) during 0700-1900 and from 48.3 to 66.5 dB(A) during 1900-2300. All measurements were below the Limit Level of 70dB(A) at NM2 and 75dB(A) at other locations during 0700-1900, and below the Limited Level of 70 dB(A) during 1900-2300 for monitoring locations.

1-hour Total Suspended Particulate (TSP) was recorded three times per every six days between the period of 0700 and 1900, and 24-hour TSP was recorded once every six days from 0000 to 2400. Air quality monitoring was conducted at Ma On Shan Lutheran Primary School (AM2), Ma On Shan Joseph's Primary School (AM3), Villa Concerta, Symphony Bay (AM4) and Club House, Monte Vista (AM5) and Kam Yiu House, Kam Ying Court (AM6).

A total of sixteen 24-hour TSP monitoring were conducted at each location January 2004 to March 2004. The recorded 24-hour TSP levels were in the range from 19.5 to 287.6 $\mu\text{g}/\text{m}^3$. There was one exceedance on Limit Level recorded in the reporting period.

A total of forty-two 1-hour TSP monitoring were conducted at each location from January 2004 to March 2004. The recorded 1-hour TSP levels were in the range from 98.3 to 242.8 $\mu\text{g}/\text{m}^3$ and were below the Action and Limit Levels.

A total of 42 loads of Construction and Demolition Waste (C&D Waste) had been disposed of at NENT Landfill from January 2004 to March 2004. The total tonnage of the waste disposal from January 2004 to March 2004 was 220.1 tonnes.

A total of 4,187 loads of rocks ($\phi > 400\text{mm}$) have been disposed of at the follow government project sites from January 2004 to March 2004:

- *Contract No. CV/2001/01- Maintenance and Repairs to Seawalls, Piers and Other Port Works*
- *Tseung Kwan O Area 137 Public Filling Area*
- *Tuen Mun Area 38 public Filling Area*

The total quantity of the disposed rocks was 29,972.9 m^3 from January 2004 to March 2004.

A total of 1,277 loads of inert material have been disposed of at Public Filling Area from January 2004 to March 2004. The total quantity of the disposed inert materials was 5,712.0 m^3 from January 2004 to March 2004.

ET was informed by the CT that there was no EPD visit during the reporting period.

A total of five public complaints regarding construction noise were received on 02/01/04, 06/01/04, 07/01/04, 15/01/04 and 12/02/04 respectively through the EPD. All complaints had been resolved.

1. INTRODUCTION

Arup was commissioned by the Territory Development Department New Territory East Office (TDD NTE) via Maunsell Consultant Asia Limited (MCAL) to conduct the Environmental Monitoring and Audit (EM&A) for the project “*Shatin New Town, Stage II Contract No. ST 86/2000 Construction of Road 7 in Ma On Shan*” with the contract commencement on 10 January 2000.

Truck Road T7 in Ma On Shan is constructed as part of the development of the Sha Tin New Town, Stage II, which is managed by the TDD NTE. The project was commenced in January 2001 and anticipated to be completed by the January 2004. The trunk road will connect the existing Ma On Shan Road and Sai Sha Road, allowing traffic destined for north Ma On Shan, Lok Wo Sha and Sai Kung to by-pass the busy Ma On Shan Town Centre.

The Environmental Impact Assessment (EIA) Report^[1] has identified the environmental impacts during various stages of the construction and operational stages. These include construction noise and fugitive dust during the construction stage, and the traffic noise and tunnel air quality during the operational stage. The monitoring of these environmental issues is required during the construction and operational stages and in accordance with the Brief for Environmental Monitoring and Audit^[2].

The Environmental Permit (EP)^[3] has been issued for the Road T7 project under the EIA Ordinance. The EM&A programme has commenced from January 2001 and is anticipated to be completed by the February 2005.

1.1 Purpose of the Report

The purpose of the quarterly EM&A report is to summarise the monitoring and audit results of the environmental issues, air quality and noise impacts due to the captioned road construction project for the period January 2004 to March 2004.

1.2 Site Description

The site starts from the existing Ma On Shan Road (close to Heng On Estate), runs along the boundary of Ma On Shan Country Park, and terminates at Sai Sha Road (close to Symphony Bay). The site location plan is shown in Figure 1-1.

Figure 1-1 - Site location plan of construction of Road T7



2. ENVIRONMENTAL STATUS

2.1 Construction Activities in the Quarter

The main construction activities in the period from January 2004 to March 2004 were slope formation, construction of Bridge D, building of drainage channel and outfalls, construction of noise barriers and landscaping.

2.2 Environmental Sensitive Receivers

Several residential buildings and schools close to the site have been identified as environmental sensitive receivers in the EIA Report. They included:

- Ma On Shan Lutheran Primary School;
- Ma On Shan St. Joseph's Primary School;
- Heng On Estate;
- Kam Ying Court;
- Monte Vista; and
- Villa Concerto, Symphony Bay.

Detailed locations of the environmental sensitive receivers are shown in Figure 2-1.

Figure 2-1 - Locations of construction site and environmental sensitive receivers



This page left blank intentionally

3. SUMMARY OF EM&A REQUIREMENTS

Constructions noise and air quality were significant environmental impacts identified for the construction period of the project. In accordance with the Brief for EM&A, air quality and noise impact monitoring shall be performed by an ET at all specified monitoring locations during this stage.

3.1 Construction Noise Monitoring

3.1.1 Monitoring Parameters

Construction noise monitoring shall be measured in terms of the A-weighted equivalent continuous sound pressure level (L_{eq}). L_{10} and L_{90} will also be recorded as supplementary reference information for data auditing.

3.1.2 Monitoring Frequency

Construction noise measurements were required to be taken on a weekly basis according to the Brief for EM&A. The monitoring time periods, monitoring parameters and frequency are specified in Table 3-1.

Table 3-1 - Construction noise monitoring parameters and frequency requirements

Time Period (when construction activity is found)	Parameters	Monitoring Frequency	No. of measurements for each monitoring
Between 0700-1900 hours on normal weekdays	$L_{eq(30\text{ min})}$	Once per week	1
Between 1900-2300 hours on normal weekdays	$L_{eq(5\text{ min})}^*$		3 (consecutive)
Between 2300-0700 hours of next day			
Between 0700-1900 hours on holidays			

Remarks: * The $L_{eq(5\text{ min})}$ will only be measured if construction activities are conducted in holidays and between the period of 1900 and 0700 hours during normal weekdays.

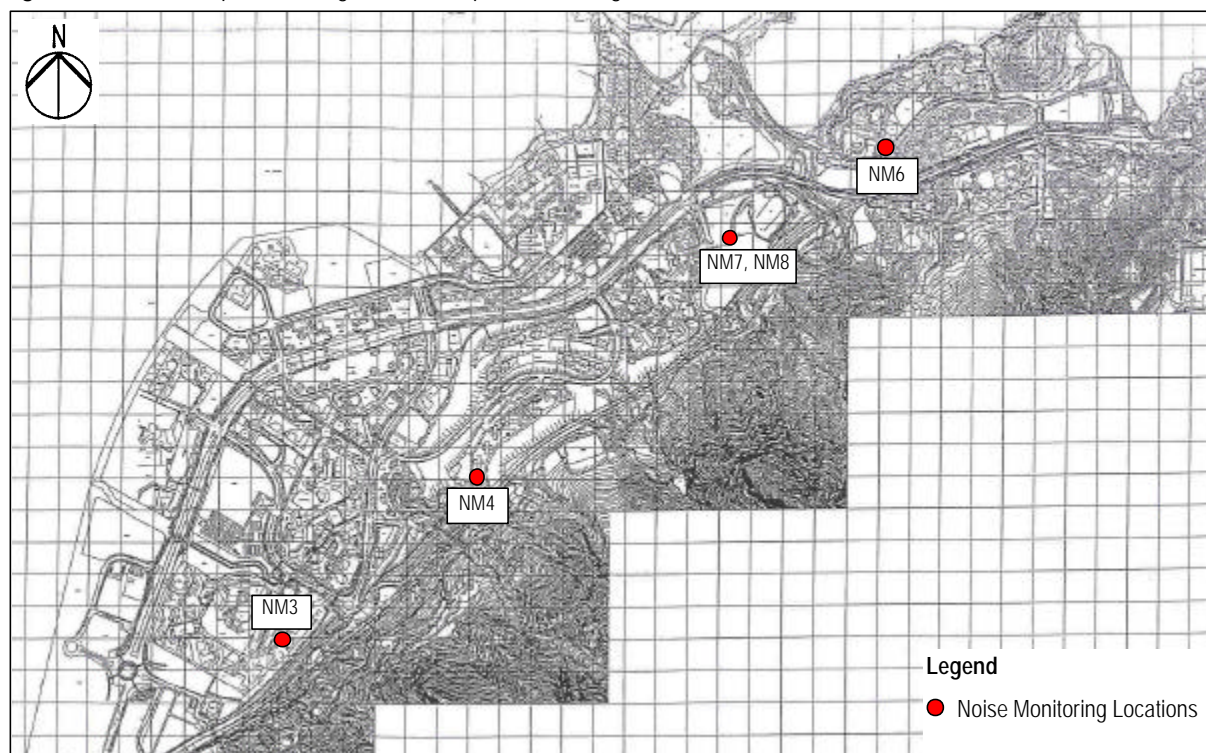
3.1.3 Monitoring Locations

A total of five monitoring locations were specified. They are given in Table 3-2 and shown in Figure 3-1. The measurements shall be taken away from any nearby reflective surface and at a position of 1.2m above ground. No façade correction is required.

Table 3-2 - Noise impact monitoring locations

NSR No.	Location	Monitoring Point
NM3	Heng Shan House, Heng On Estate	Podium floor of Heng Shan House
NM4	Kam Yiu House, Kam Ying Court	Roof-top of Kam Yiu House
NM6	Villa Concerto, Symphony Bay	Roof-top of Block 1
NM7	Monte Vista, Block 15	Podium floor of Block 15
NM8	Monte Vista, Block 15	Roof of Block 15

Figure 3-1 - Location plan showing the noise impact monitoring locations



3.2 Air Quality Monitoring

3.2.1 Monitoring Parameters

Air monitoring shall be measured in terms of the TSP levels for both 24-hour and 1-hour periods.

3.2.2 Monitoring Frequency

24-hour TSP and 1-hour TSP levels shall be monitored during the course of construction according to the Brief for EM&A. The monitoring parameters and frequencies are specific in Table 3-3.

Table 3-3 - TSP monitoring parameters and frequency

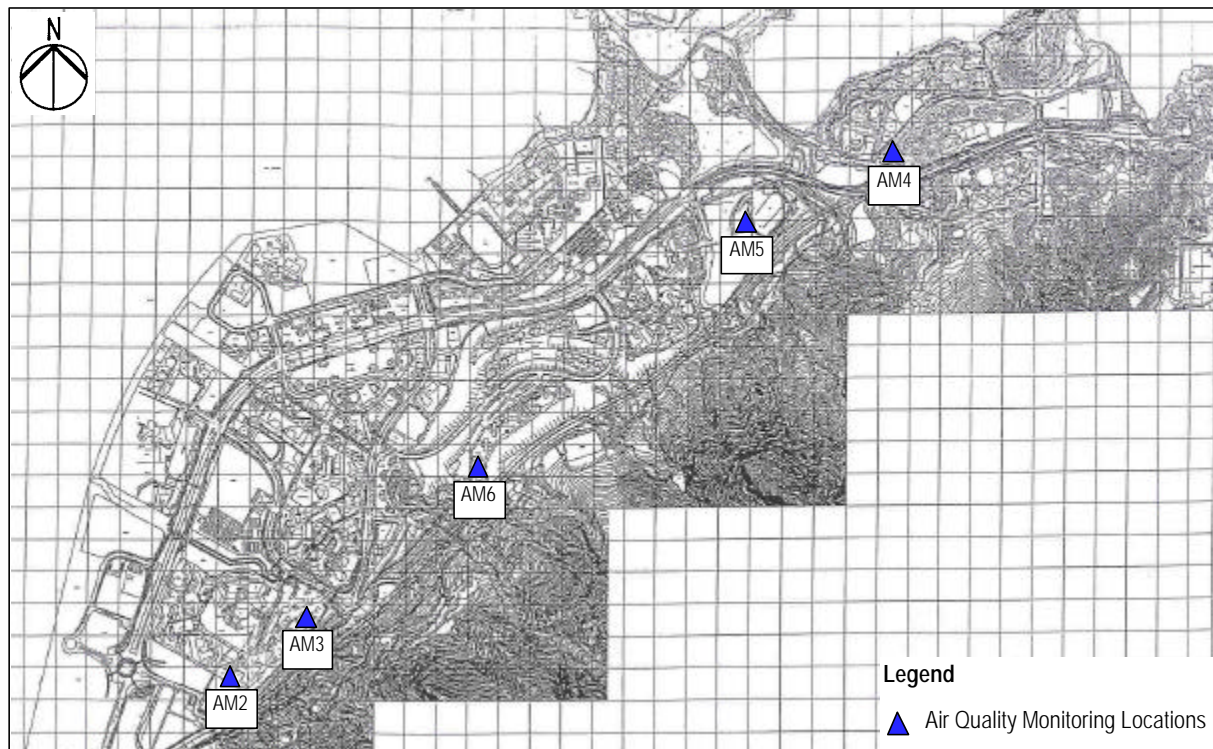
Parameters	Monitoring Frequency	Time Period	No. of measurement for each monitoring
24-hour TSP	Once every six days	0000 - 2400	1
1-hour TSP	Three times per every six days	0700 - 1900	1

3.2.3 Monitoring Locations

Five monitoring locations nearest to the construction site were specified. They are tabulated in Table 3-4 and shown in Figure 3-2.

Table 3-4 - Air quality monitoring locations

Sensitive Receptors No.	Location	Monitoring Point
AM2	Ma On Shan Lutheran Primary School	Roof-top of the school
AM3	Ma On Shan St. Joseph's Primary School	Roof-top of the school
AM4	Villa Concerto, Symphony Bay	Roof-top of Block 1
AM5	Monte Vista	Roof-top of Club House
AM6	Kam Ying Court	G/F. Kam Yiu House

Figure 3-2 - Location plan showing the air quality monitoring locations

3.3 Performance Limits and Event-Action Plans

The monitoring results shall be checked against appropriate standards and requirements. A two-tier system performance limits has been established in the Project Specific EM&A Manual^[4]. The “Action Level” and the “Limit Level” are established according to the EPD requirements. Corresponding actions will be taken by ET, ER and CT in accordance with the Event-Action Plans if the monitoring results exceed the performance limits.

3.3.1 Construction Noise Impact

The action and limit levels for the construction noise have been established in Project Specific EM&A Manual^[4] and are tabulated in Table 3-5.

Table 3-5 - Action and limit levels for construction noise

Time Period	Action Level	Limit Level dB(A)
0700 - 1900 hours on weekdays	When one documented complaint is received	75 *
0700 - 2300 hours on General Holidays; & 1900 - 2300 hours on all other days		50 or 55** (1) 65 or 70** (2)
2300 - 0700 hours of next day		55 or 40** (1) 50 or 55** (2)

Remarks: * reduced to 70dB(A) for schools and 65dB(A) during school examination periods.
 ** to be selected based on Area Sensitivity Rating
 (1) for the SPME and prescribed works
 (2) for non-SPME and prescribed works
 Note: If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

Table 3-6a and Table 3-6b detail the actions required to be carried out by different parties in the case of an exceedance of performance limits being detected.

Table 3-6a - Event-action plan for construction noise (Action Level)

Action		
ET	ER	CT
<ol style="list-style-type: none"> 1. Notify ER and CT 2. Carry out investigation 3. Report the result of investigation to ER 4. Increase monitoring frequency to check mitigation effectiveness 5. Review the proposed remedial measures by CT and advise ER accordingly 6. Suggest any improvement or other alternative mitigation measures should the CT's proposal be found ineffective 7. Supervise the implementation of remedial measures 8. If exceedance stops, cease additional monitoring 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing 2. Notify CT 3. Require CT to propose remedial measures for the noise exceedance 4. Ensure remedial measures are properly implemented 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to ET 2. Implement noise mitigation proposals

Table 3-6b - Event-action plan for construction noise (Limit Level)

Action		
ET	ER	CT
<ol style="list-style-type: none"> 1. Notify ER and EPD 2. Identify source 3. Repeat measurement to confirm findings 4. Increase monitoring frequency 5. Discuss amongst ER and CT on the potential remedial actions 6. Review CT's remedial actions whenever necessary to assure their effectiveness and advise ER accordingly 7. Suggest any improvement or other alternative mitigation measures should the CT's proposal be found ineffective 8. Supervise the implementation of remedial measures 9. Inform ER and EPD of the causes for the exceedance 10. Assess effectiveness of CT's remedial actions and keep EPD and ER informed of the results 11. If exceedance stops, cease additional monitoring 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing 2. Notify CT 3. Require CT to propose remedial measures for the noise exceedance 4. Ensure remedial measures are properly implemented 5. If exceedance continues, consider what portion of the work is responsible and instruct CT to stop that portion of work until the exceedance is abated 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance. 2. Inform ET, ER and EPD of the actions taken for the exceedance. 3. Submit proposals for remedial actions to ET within 3 working days of notification 4. Implement the agreed proposals 5. Resubmit proposals if problem still not under control 6. Stop the relevant portion of works as determined by the ER until the exceedance is abated

3.3.2 Air Quality

The action and limit levels for air quality have been established in the Project Specific EM&A Manual^[4] and are tabulated in Table 3-7.

Table 3-7 - Action and limit levels for air quality

Parameters	Action Level	Limit Level
24 Hour TSP Level in $\mu\text{g}/\text{m}^3$	<ul style="list-style-type: none"> • For baseline level < $108\mu\text{g}/\text{m}^3$, Action Level = average of baseline level plus 30% and Limit Level • For $108\mu\text{g}/\text{m}^3$ < baseline level < $154\mu\text{g}/\text{m}^3$, Action Level = $200\mu\text{g}/\text{m}^3$ • For baseline level > $154\mu\text{g}/\text{m}^3$, Action Level = 130% of baseline level 	260
1 Hour TSP Level in $\mu\text{g}/\text{m}^3$	<ul style="list-style-type: none"> • For baseline level < $154\mu\text{g}/\text{m}^3$, Action Level = average of baseline level plus 30% and Limit Level • For $154\mu\text{g}/\text{m}^3$ < baseline level < $269\mu\text{g}/\text{m}^3$, Action Level = $350\mu\text{g}/\text{m}^3$ • For baseline level > $269\mu\text{g}/\text{m}^3$, Action Level = 130% of baseline level 	500

The baseline checking was conducted in March 2004. There was no significant difference when comparing the baseline checking results previous baseline checking results. Therefore, the current A/L levels for 24-hour TSP and 1-hour TSP monitoring are still representative and valid. In accordance with the Baseline Monitoring Report^[5] and Baseline Checking Results in March 2002, the action and limit levels for 24-hour TSP and 1-hour TSP at different locations were established and are tabulated in Table 3-8 and Table 3-9 respectively.

Table 3-8 - Action and limit levels for 24-hour TSP

Monitoring Location	24-hour TSP Level in mg/m ³		
	Baseline Level *	Action Level	Limit Level
Ma On Shan Lutheran Primary School	66.0	173	260
Ma On Shan St. Joseph's Primary School	57.7	168	
Villa Concerto, Symphony Bay	60.8	170	
Club House, Monte Vista [#]	-	185	
Kam Yiu House, Kam Ying Court [#]	-	194	

Remarks: * Baseline levels were obtained from the Baseline Monitoring Report prepared by Manusell Consultant Asia Limited^[5].

No baseline monitoring was conducted for Monte Vista (AM5) and Kam Ying Court (AM6) as these two locations were established after the commencement of the construction works. The Action Levels of AM5 and AM6 are established in accordance with the baseline checking results in March 2002.

Table 3-9 - Action and limit levels for 1-hour TSP

Monitoring Location	1-hour TSP Level in mg/m ³		
	Baseline Level *	Action Level #	Limit Level
Ma On Shan Lutheran Primary School	274	350	500
Ma On Shan St. Joseph's Primary School	274	350	
Villa Concerto, Symphony Bay	273	347	
Club House, Monte Vista	-	350	
Kam Yiu House, Kam Ying Court	-	349	

Remarks: * Baseline levels were obtained from the Baseline Monitoring Report prepared by Maunsell Consultant Asia Limited^[5].

The Action Levels of AM2, AM3 and AM4 have been revised in accordance with the baseline checking results in March 2002.

No baseline monitoring was conducted for Monte Vista (AM5) and Kam Ying Court (AM6) as these two locations were established after the commencement of the construction works. The Action Level of AM5 and AM6 are established in accordance with the baseline checking results in March 2002.

Table 3-10a and Table 3-10b detail the actions required to be carried out by different parties in case of an exceedance of performance limits being detected.

Table 3-10a - Event-action plan for air quality (Action Level)

Action		
ET	ER	CT
Action Level 1 - Exceedance for one sample		
<ol style="list-style-type: none"> 1. Identify source 2. Inform ER 3. Repeat measurement to confirm findings 4. Review the proposed remedial measures by CT and advise ER accordingly 5. Suggest any improvement or other alternative mitigation measures should the CT's proposal be found ineffective 6. Supervise the implementation of remedial measures 7. Increase monitoring frequency to demonstrate efficacy of remedial measures 8. If exceedance stops, cease additional monitoring 	<ol style="list-style-type: none"> 1. Notify CT 2. Check monitoring data and CT's working methods 	<ol style="list-style-type: none"> 1. Rectify any unacceptable practice 2. Amend working methods if appropriate
Action Level 2 - Exceedance for two or more consecutive samples		
<ol style="list-style-type: none"> 1. Identify source 2. Inform ER 3. Repeat measurement to confirm findings 4. Review the proposed remedial measures by CT and advise ER accordingly 5. Discuss with ER for remedial actions required 6. Suggest any improvement or other alternative mitigation measures should the CT's proposal be found ineffective 7. Supervise the implementation of remedial measures 8. Increase monitoring frequency to demonstrate efficacy of remedial measures 9. If exceedance continues, arrange meeting with ER 10. If exceedance stops, cease additional monitoring 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing 2. Notify CT 3. Check monitoring data and CT's working methods 4. Discuss with Environmental Supervisor and CT on potential remedial actions 5. Ensure remedial actions are properly implemented 	<ol style="list-style-type: none"> 1. Submit proposals for remedial actions to ER within 3 working days of notification 2. Implement the agreed proposals 3. Amend proposal if appropriate

Note: If source of exceedance is clearly identified as being not works related no further action is necessary by any party.

Table 3-10b - Event-action plan for air quality (Limit Level)

Action		
ET	ER	CT
Limit Level 1 - Exceedance for one sample		
<ol style="list-style-type: none"> 1. Identify source 2. Inform ER 3. Repeat measurement to confirm findings 4. Discuss with ER for remedial actions required 5. Suggest any improvement or other alternative mitigation measures should the CT's proposal be found ineffective 6. Supervise the implementation of remedial measures 7. Increase monitoring frequency to demonstrate efficacy of remedial measures 8. If exceedance stops, cease additional monitoring 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing 2. Notify CT 3. Check monitoring data and CT's working methods 4. Discuss with ET and CT on potential remedial actions 5. Ensure remedial actions are properly implemented 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance 2. Submit proposals for remedial actions to ER within 3 working days of notification 3. Implement the agreed proposals 4. Amend proposal if appropriate
Limit Level 2 - Exceedance for two or more consecutive samples		
<ol style="list-style-type: none"> 1. Identify source 2. Inform ER the causes and actions taken for the exceedance 3. Repeat measurement to confirm findings 4. Investigate the causes of exceedance 5. Arrange meeting with ER to discuss the remedial actions to be taken 6. Suggest any improvement or other alternative mitigation measures should the CT's proposal be found ineffective 7. Supervise the implementation of remedial measures 8. Increase monitoring frequency to demonstrate efficacy of remedial measures 9. If exceedance stops, cease additional monitoring 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing 2. Notify CT 3. Carry out analysis of CT's working procedures to determine possible mitigation to be implemented 4. Discuss amongst ET and CT on potential remedial actions 5. Review CT's remedial actions whenever necessary to assure their effectiveness 6. If exceedance continues, consider what portion of the work is responsible and instruct CT to stop that portion of work until the exceedance is abated 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance 2. Submit proposals for remedial actions to ER within 3 working days of notification 3. Implement the agreed proposals 4. Resubmit proposals if problem still not under control 5. Stop the relevant portion of works as determined by ER until the exceedance is abated

Note: If source of exceedance is clearly identified as being not works related no further action is necessary by any party.

4. CONSTRUCTION NOISE MONITORING

4.1 Monitoring Results

Twelve measurements were taken at each location during 0700-1900 and twelve measurements were taken at NM3, NM4, NM6 and NM8 respectively during 1900-2300 January 2004 to March 2004. All the noise measurements were taken between 0700-2300 hours on normal weekdays during which the construction site was under normal operation. The construction daytime and evening time noise monitoring results in the period January 2004 to March 2004 are tabulated in Table 4-1 and Table 4-2 respectively. Detailed weather conditions and the monitoring period are given in Appendix 1. The trend of the noise levels at each monitoring location were plotted and presented in Figure 4-1 and Figure 4-2.

Table 4-1 - Construction noise monitoring results from January 2004 to March 2004

Date of Monitoring	Monitoring Parameters	Monitoring Results, dB(A) (30 min)					
		NM2	NM3	NM4	NM6	NM7	NM8
08/01/04 (Thu)	L _{eq}	66.5	65.0	70.5	68.0	67.5	69.0
	L ₁₀	69.0	68.0	73.0	70.5	70.0	72.0
	L ₉₀	61.0	60.5	65.5	62.5	62.0	61.5
15/01/04 (Thu)	L _{eq}	67.5	65.5	70.0	67.7	69.5	70.5
	L ₁₀	70.0	69.0	74.5	71.5	72.5	73.5
	L ₉₀	61.5	61.0	64.0	62.0	62.0	63.0
21/01/04 (Wed)	L _{eq}	62.5	60.5	65.8	69.0	66.0	68.0
	L ₁₀	65.0	64.5	68.0	74.5	69.0	73.5
	L ₉₀	60.5	60.0	62.0	63.0	60.5	61.5
30/01/04 (Fri)	L _{eq}	64.0	62.0	67.0	68.5	71.0	70.4
	L ₁₀	66.5	63.8	71.5	73.5	74.5	75.0
	L ₉₀	60.8	60.0	62.5	64.0	64.2	63.0
02/02/04 (Mon)	L _{eq}	65.0	67.5	68.5	68.7	67.5	66.3
	L ₁₀	68.5	69.3	72.0	71.0	72.0	69.0
	L ₉₀	61.5	63.5	65.5	66.5	65.5	62.5
11/02/04 (Wed)	L _{eq}	63.0	65.0	68.5	66.5	65.8	66.5
	L ₁₀	67.5	67.8	72.0	69.8	69.5	69.5
	L ₉₀	61.0	62.0	66.5	61.5	61.0	63.5
19/02/04 (Thu)	L _{eq}	65.8	67.3	67.5	69.5	68.0	66.8
	L ₁₀	69.5	70.0	71.5	72.0	71.5	70.3
	L ₉₀	62.0	64.0	63.0	64.0	66.5	62.5
25/02/04 (Wed)	L _{eq}	65.8	66.7	68.5	67.5	68.5	66.5
	L ₁₀	69.0	69.3	72.5	70.3	70.8	69.5
	L ₉₀	62.5	62.8	63.0	63.0	64.5	62.0
02/03/04 (Tue)	L _{eq}	67.8	68.3	68.5	67.5	68.9	67.5
	L ₁₀	69.5	70.0	70.3	69.0	71.5	69.5
	L ₉₀	62.0	64.5	65.0	62.5	63.5	62.0

Date of Monitoring	Monitoring Parameters	Monitoring Results, dB(A) (30 min)					
		NM2	NM3	NM4	NM6	NM7	NM8
09/03/04 (Tue)	L _{eq}	69.5	63.5	71.9	64.0	64.0	68.7
	L ₁₀	67.0	64.5	76.5	66.0	68.5	74.5
	L ₉₀	60.5	59.0	59.5	58.5	53.5	59.0
15/03/04 (Mon)	L _{eq}	67.3	62.1	63.9	67.5	74.9	65.2
	L ₁₀	69.0	64.0	66.0	69.5	78.5	67.0
	L ₉₀	62.0	58.0	60.5	56.5	69.0	61.5
26/03/04 (Fri)	L _{eq}	61.3	61.9	65.8	64.5	60.7	59.0
	L ₁₀	63.0	62.0	67.5	66.5	62.0	61.3
	L ₉₀	58.5	57.5	63.0	60.5	56.0	56.5

Figure 4-1 - Trend of Noise Level for daytime monitoring from January 2004 to March 2004

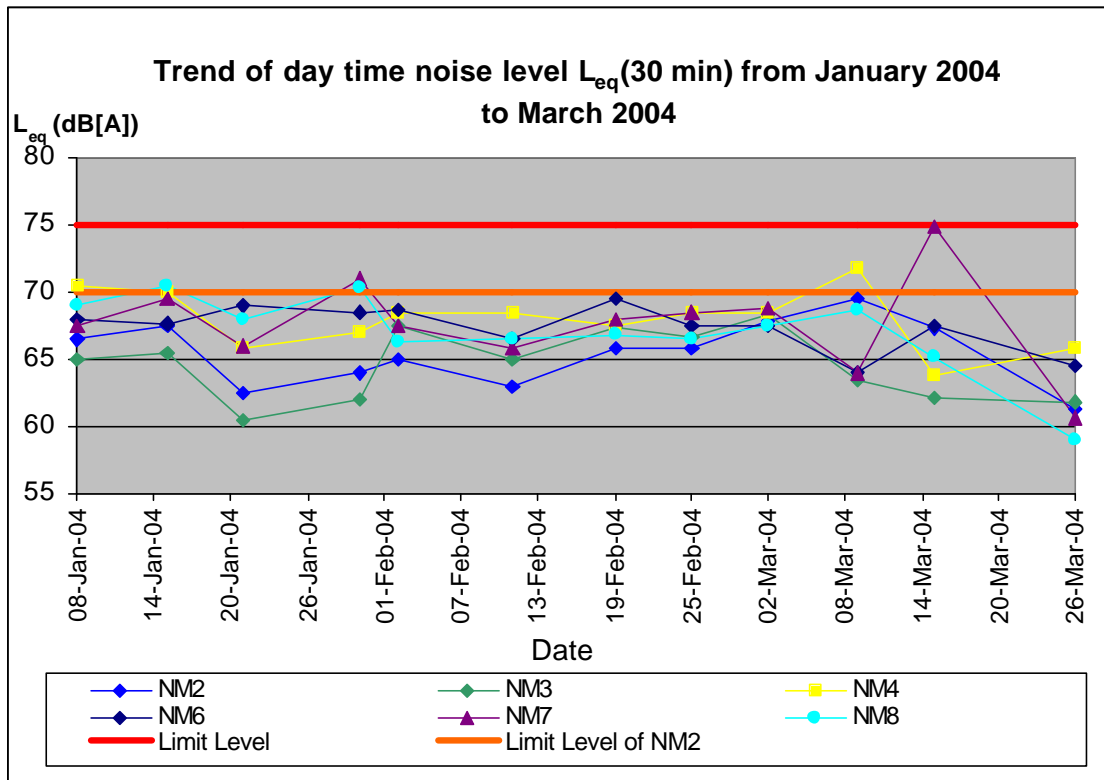
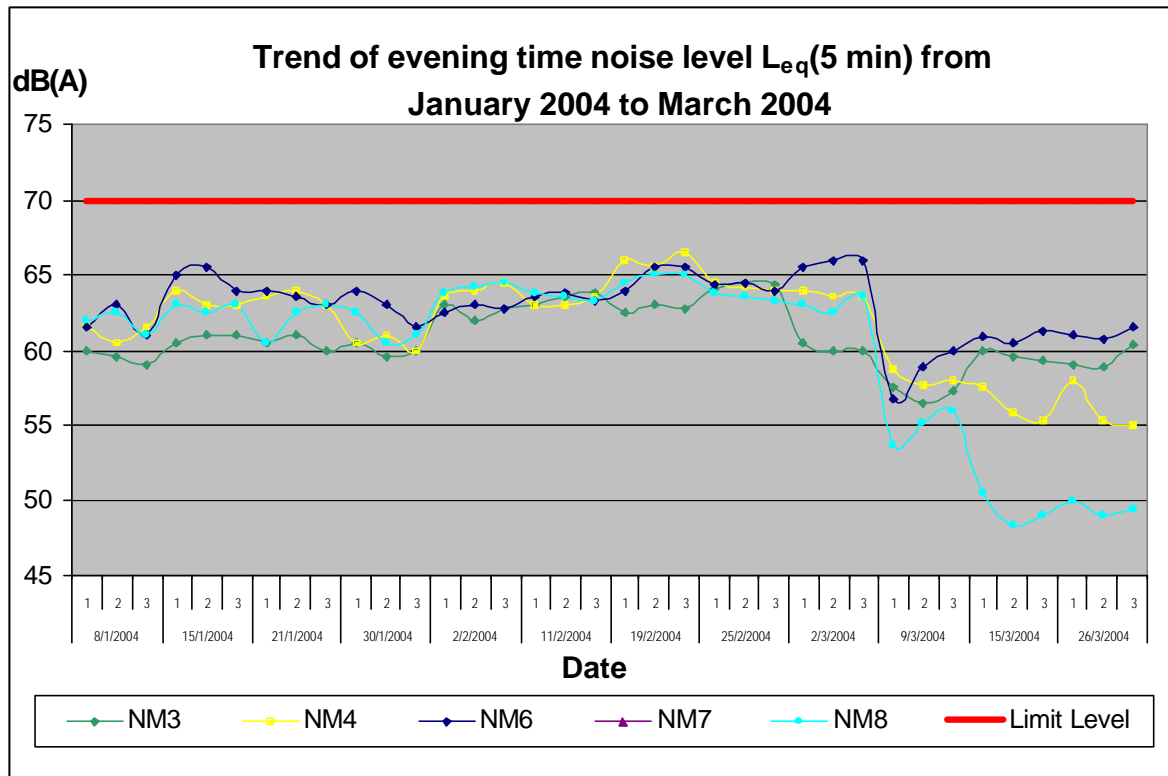


Table 4-2 - Construction evening time noise monitoring results from January 2004 to March 2004

Date of Monitoring	Monitoring Results, L_{eq} dB(A) (5 min)				
	NM3	NM4	NM6	NM7*	NM8
08/01/04 (Thu)	60.0	61.5	61.5	-	62.0
	59.5	60.5	63.0	-	62.5
	59.0	61.5	61.0	-	61.0
15/01/04 (Thu)	60.5	64.0	65.0	-	63.0
	61.0	63.0	65.5	-	62.5
	61.0	63.0	64.0	-	63.0
21/01/04 (Wed)	60.5	63.5	64.0	-	60.5
	61.0	64.0	63.5	-	62.5
	60.0	63.0	63.0	-	63.0
30/01/04 (Fri)	60.5	60.5	64.0	-	62.5
	59.5	61.0	63.0	-	60.5
	60.0	60.0	61.5	-	61.0
02/02/04 (Mon)	63.0	63.5	62.5	-	63.8
	62.0	64.0	63.0	-	64.2
	62.8	64.5	62.8	-	64.5
11/02/04 (Wed)	63.0	63.0	63.5	-	63.8
	63.5	63.0	63.8	-	63.5
	63.8	63.5	63.3	-	63.3
19/02/04 (Thu)	62.5	66.0	64.0	-	64.5
	63.0	65.5	65.5	-	65.0
	62.8	66.5	65.5	-	65.0
25/02/04 (Wed)	64.1	64.5	64.3	-	63.8
	64.5	64.2	64.5	-	63.5
	64.3	64.0	64.0	-	63.2
02/03/04 (Tue)	60.5	64.0	65.5	-	63.0
	60.0	63.5	66.0	-	62.5
	60.0	63.5	66.0	-	63.5
09/03/04 (Tue)	57.5	58.8	56.8	-	53.7
	56.5	57.7	58.9	-	55.1
	57.3	57.9	60.0	-	55.9
15/03/04 (Mon)	60.0	57.5	60.9	-	50.5
	59.5	55.8	60.5	-	48.3
	59.2	55.2	61.2	-	49.0
26/03/04 (Fri)	59.0	58.0	61.0	-	50.0
	58.9	55.3	60.8	-	49.0
	60.3	55.0	61.5	-	49.4

Noted: * Evening time noise monitoring is not required at monitoring station NM7 as no construction works was conducted near this station.

Figure 4-2 - Trend of evening time noise monitoring level from January 2004 to March 2004



5. AIR QUALITY MONITORING

5.1 24-hour TSP Monitoring Results

A total of sixteen 24-hour TSP monitoring were conducted at each location January 2004 to March 2004. The 24-hour TSP monitoring results are tabulated in Table 5-1. Detailed monitoring data are given in Appendix 2. The trend of the 24-hours TSP levels at each monitoring location were plotted and presented in Figure 5-1.

Table 5-1 - 24-hour TSP monitoring results for January 2004 to March 2004

Date of Monitoring	24-hour TSP Monitoring Results, ($\mu\text{g}/\text{m}^3$)				
	AM2	AM3	AM4	AM5	AM6
02/01/2004 (Fri)	179.9	207.8	199.7	123.8	214.6
07/01/2004 (Wed)	97.4	98.5	102.0	47.9	97.3
13/01/2004 (Tue)	79.1	77.7	72.8	40.7	74.1
19/01/2004 (Fri)	24.8	21.3	23.9	99.4	24.9
26/01/2004 (Fri)	73.4	68.4	71.6	49.7	72.1
31/01/2004 (Sat)	53.1	41.0	55.6	65.7	59.2
06/02/2004 (Fri)	59.4	56.7	57.0	69.0	65.7
12/02/2004 (Thu)	125.7	104.2	142.7	101.4	106.9
18/02/2004 (Wed)	63.3	65.1	44.3	50.4	83.2
24/02/2004 (Tue)	75.7	76.6	81.5	76.0	287.6
01/03/2004 (Mon)	66.0	80.4	64.8	27.3	97.3
06/03/2004 (Sat)	117.3	113.7	103.7	110.8	96.3
13/03/2004 (Sat)	62.3	65.1	58.4	45.8	86.6
19/03/2004 (Fri)	82.3	34.2	41.0	43.6	19.5
25/03/2004 (Thu)	66.2	60.9	51.2	49.4	43.9
31/03/2004 (Wed)	72.2	51.4	76.5	50.4	39.2

5.2 1-hour Monitoring Results

A total of forty-two 1-hour TSP monitoring were conducted at each location from January 2004 to March 2004. The 1-hour TSP monitoring results are tabulated in Table 5-2 and the detailed monitoring data are given in Appendix 3. The trend of the 1-hour TSP levels at each monitoring location were plotted and presented in Figure 5-2.

Table 5-2 - 1-hour TSP monitoring results for January 2004 to March 2004

Date of Monitoring	1-hour TSP Monitoring Results, ($\mu\text{g}/\text{m}^3$)				
	AM2	AM3	AM4	AM5	AM6
08/01/04 (Thu)	154.6	151.7	185.7	196.1	172.4
	155.7	150.5	166.5	180.0	172.0
	153.3	150.2	164.3	175.8	169.9
09/01/04 (Fri)	173.8	242.8	201.5	203.7	147.8
	167.9	216.5	179.2	212.1	147.9
	169.8	221.9	187.5	231.0	146.4
15/01/04 (Thu)	212.8	210.5	202.7	222.2	193.9
	210.0	218.9	204.6	211.7	199.6
	201.9	211.4	215.7	206.3	199.6
21/01/04 (Wed)	164.7	153.0	159.0	165.7	159.9
	155.4	148.5	158.0	164.5	156.4
	152.9	146.8	148.0	161.0	169.2
30/01/04 (Fri)	153.5	154.8	125.4	142.9	127.1
	154.7	156.4	129.9	145.5	131.4
	154.3	157.0	132.7	146.4	132.7
02/02/04 (Mon)	215.7	203.8	208.3	208.4	203.1
	229.8	207.1	210.8	215.7	205.3
	236.0	214.6	212.6	222.1	210.6
11/02/04 (Wed)	176.4	195.2	181.3	185.2	187.6
	179.1	195.5	186.6	195.9	192.5
	180.5	198.5	188.6	200.2	194.1
19/02/04 (Thu)	194.3	210.5	207.8	203.3	214.0
	188.8	205.5	204.3	199.3	207.8
	186.0	199.9	197.5	200.0	200.4
25/02/04 (Wed)	219.7	200.3	204.1	206.5	196.1
	209.2	200.2	206.6	204.5	199.3
	211.0	200.6	206.4	202.0	199.7
02/03/04 (Tue)	154.6	198.7	185.9	196.3	172.4
	154.2	200.7	185.6	193.0	172.0
	155.7	207.0	185.0	190.4	169.9

Date of Monitoring	1-hour TSP Monitoring Results, ($\mu\text{g}/\text{m}^3$)				
	AM2	AM3	AM4	AM5	AM6
04/03/04 (Thu)	173.2	182.5	190.2	192.0	187.4
	169.2	178.1	186.7	188.0	185.3
	173.2	180.0	186.8	188.9	184.8
09/03/04 (Tue)	183.2	210.2	214.3	192.5	238.2
	193.1	217.3	227.0	194.2	237.5
	181.1	207.3	215.8	194.8	236.1
15/03/04 (Mon)	188.0	188.5	177.5	195.3	201.2
	190.1	191.5	180.0	197.0	202.2
	191.3	192.0	180.8	196.8	200.7
26/03/04 (Fri)	116.2	117.6	98.3	133.3	150.3
	114.4	130.5	143.6	144.6	151.5
	140.2	174.5	160.4	161.5	170.6

Figure 5-1 - Trend of 24-hours TSP levels from January 2004 to March 2004

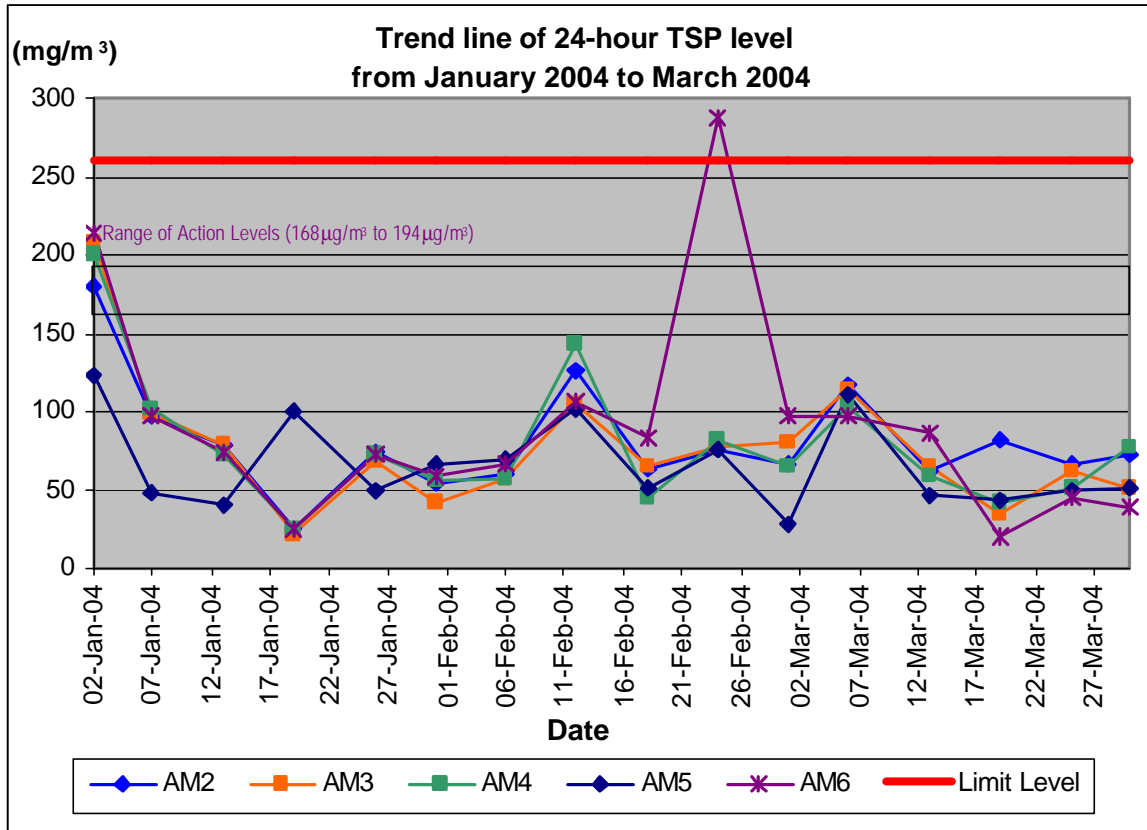
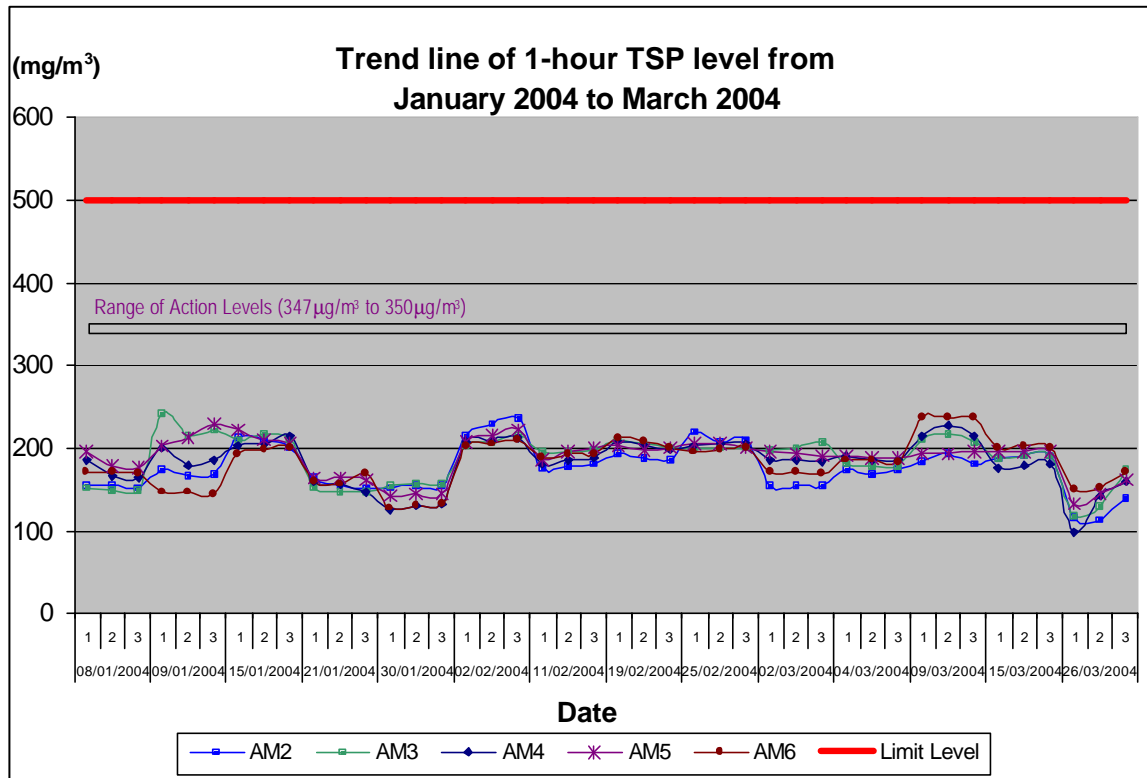


Figure 5-2 - Trend of 1-hour TSP levels from January 2004 to March 2004



6. QUARTERLY SUMMARY, ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE RECORDS

6.1 Waste Disposal

A total of 42 loads of Construction and Demolition Waste (C&D Waste) had been disposed of at NENT Landfill from January 2004 to March 2004. The total tonnage of the waste disposal from January 2004 to March 2004 was 220.1 tonnes.

A total of 4,187 loads of rocks ($\phi > 400\text{mm}$) have been disposed of at the follow government project sites from January 2004 to March 2004:

- *Contract No. CV/2001/01- Maintenance and Repairs to Seawalls, Piers and Other Port Works*
- *Tseung Kwan O Area 137 Public Filling Area*
- *Tuen Mun Area 38 public Filling Area*

The total quantity of the disposed rocks was 29,972.9 m³ from January 2004 to March 2004.

A total of 1,277 loads of inert material have been disposed of at Public Filling Area from January 2004 to March 2004. The total quantity of the disposed inert materials was 5,712.0 m³ from January 2004 to March 2004.

The total quantities of the waste disposal to Landfill and Public Fill are summarised in Table 6-1.

Table 6-1 - Waste Disposal Summary

Month	Number of Loads to NENT	Total Disposed Tonnage (tonnes)	Number of Loads to others Gov. designated project*	Total Disposed Quantity (m ³)	Number of Loads to Public Filling Area	Total Disposed Quantity (m ³)
May 2001	83	588.3	-	-	-	-
June 2001	48	326.1	-	-	-	-
July 2001	82	723.4	-	-	-	-
August 2001*	62	513.8	-	-	14	96.0
September 2001*	114	772.2	-	-	456	2,718.0
October 2001*	60	478.8	-	-	431	2,586.0
November 2001*	131	863.3	-	-	853	5,154.0
December 2001*	123	822.5	-	-	790	3,990.0
January 2002*	204	822.3	410	3,114.0	688	4,128.0
February 2002*	73	483.6	362	2,260.0	287	1,722.0
March 2002*	88	645.1	737	5,018.4	437	2,622.0
April 2002*	29	169.8	2,265	24,881.5	492	2,946.0
May 2002*	10	773.3	2,478	17,295.9	351	2,460.0
June 2002*	81	624.7	2,077	14,850.6	451	2,712.0
July 2002*	45	327.4	372	2,659.8	112	672.0
August 2002*	-	-	548	3,390.6	63	372.0
September 2002	42	225.6	3,732	22,719.8	9	54.0
October 2002	48	378.0	2,989	18,740.2	69	414.0

Month	Number of Loads to NENT	Total Disposed Tonnage (tonnes)	Number of Loads to others Gov. designated project [#]	Total Disposed Quantity (m ³)	Number of Loads to Public Filling Area	Total Disposed Quantity (m ³)
November 2002	94	725.0	1,232	7,565.7	80	480.0
December 2002	21	147.3	3,035	21,668.1	66	396.0
January 2003	7	45.5	2,351	16,809.7	150	900.0
February 2003	7	77.9	1,929	13,792.4	56	336.0
March 2003	39	267.5	740	5,291.0	49	294.0
April 2003	9	38.4	613	4,383.0	152	912.0
May 2003*	14	141.7	835	5,970.3	286	1,716.0
June 2003*	29	238.7	1,738	11,826.1	172	1,914.0
July 2003	30	184.8	1,563	11,175.5	114	684.0
August 2003	29	210.3	1,708	12,212.2	276	1,656.0
September 2003	16	133.8	2,015	14,407.3	1,292	7,752.0
October 2003	25	123.3	1,277	9,130.6	3,307	19,842.0
November 2003	25	159.0	1,521	10,875.2	591	3,546.0
December 2003	48	431.9	2,331	16,666.7	859	5,154.0
January 2004	15	76.6	2,059	14,721.9	280	1,680.0
February 2004	16	113.8	1,381	9,874.2	456	2,736.0
March 2004	11	29.7	747	5,376.8	541	2,976
Total	1,758	12,683.4	43,045	306,677.5	14,230	64,098

Note:

- # - TDD Contract No. YL 46/99 Tin Shui Wai Further Development - Road D3 and Constructed Wetland,
 - Contract No. FL 27/02 Completion of the Remaining River Training Works for Upper Indus between Man Kam To & San Wai
 - TDD Contract No. FL 26/01 River Training for Upper River Indus - Completion of the Remaining Works between Man Kam To Road and KCRC Bridges and
 - CED Contract No. CV/99/10 Pak Shek Kok Reclamation for Public Filling, Remaining Works.
 - HD Contract No. HY/2001/18 Sai Sha Road Widening between Kam Ying Road and Future Truck Road T7 Junction
 - Contract No. CV/2001/01- Maintenance and Repairs to Seawalls, Piers and Other Port Works
 - Tseung Kwan O Area 137 Public Filling Area
 - Tuen Mun Area 38 public Filling Area

* The updated waste disposal data was provided by CT in December 2003

6.2 EPD Site Inspection

ET was informed by the Contractor that there was no EPD site inspection in the reporting quarter.

6.3 Complaint Record

A total of five public complaints regarding construction noise were received on 02/01/04, 06/01/04, 07/01/04, 15/01/04 and 12/02/04 respectively through the EPD. All complaints had been resolved. The details of the complaint and the implemented mitigation measures are summarised in the memorandums of public complaints given in Appendix 4. A summary of the complaint record is tabulated in Table 6-2.

Table 6-2 - Compliant Record Summary

Date Received	Source of Complaint	Complaint Issue	Status
15/03/01	Public (Kam Ying Court)	Noise	Resolved
30/03/01	Public (Kam Ying Court)	Noise	Resolved
26/04/01	Public (Kam Ying Court)	Noise	Resolved
26,27,28 /04/01	Public (Kam Ying Court)	Noise	Resolved
21/06/01	Public (District Councillor for Shatin District Board)	Water	Resolved
12/07/01	Public (District Councillor for Shatin District Board)	Noise	Resolved
20/10/01	Public (Monte Vista)	Noise	Resolved
23/10/01	Public (Monte Vista)	Noise	Resolved
27/10/01	Public (Monte Vista)	Noise	Resolved
30/10/01	Public (Kam Ying Court)	Noise	Resolved
14/11/01	Public (Kam Ying Court)	Noise	Resolved
15/11/01	Public (Kam Ying Court)	Noise	Resolved
18/11/01	Public (Kam Ying Court)	Noise	Resolved
20/11/01	Public (Lee On Estate)	Noise	Resolved
26/11/01	Public (Monte Vista)	Dust	Resolved
02/12/01	Public (Kam Ying Court)	Noise	Resolved
03/12/01	Public (Kam Ying Court)	Dust, Noise	Resolved
07/12/01	Public (Heng On Estate)	Noise	Resolved
14/12/01	Public (Kam Ying Court)	Dust, Noise	Resolved
08/01/02	Public (Monte Vista, Kam Ying Court)	Dust, Noise	Resolved
09/01/02	Public (Kam Ying Court)	Noise	Resolved
10/01/02	Public (Monte Vista)	Noise	Resolved
16/01/02	Public (Kam Ying Court)	Noise	Resolved
22/01/02	Public (Lok Wo Sha)	Dust, Waste	Resolved
01/02/02	Public (Monte Vista)	Noise	Resolved
20/03/02	Public (Kam Ying Court)	Noise	Resolved
26/03/02	Public (Monte Vista)	Dust	Resolved
16/04/02	Public (Monte Vista)	Dust	Resolved
13/05/02	Public (Lee On Estate)	Water	Resolved

Date Received	Source of Complaint	Complaint Issue	Status
26/06/02	Public (Monte Vista)	Noise	Resolved
10/09/02	Public (Cheung Muk Tau Village)	Noise	Resolved
30/09/02	Public (Monte Vista)	Dust	Resolved
23/10/02	Public (Monte Vista)	Noise	Resolved
05/11/02	Public (Lee On Estate)	Noise	Resolved
23/11/02	Public (Heng On Estate)	Noise	Resolved
30/11/02	Public (Kam Ying Court)	Noise	Resolved
16/12/02	Public (Kam Ying Court)	Noise	Resolved
27/12/02	Public (Kam Ying Court)	Noise	Resolved
09/01/03	Public (Kam Ying Court)	Noise	Resolved
13/01/03	Public (Kam Ying Court)	Noise	Resolved
18/01/03	Public (Monte Vista)	Noise	Resolved
20/01/03	Public (Cheung Muk Tau Village)	Noise	Resolved
06/02/03	Public (Monte Vista)	Noise	Resolved
06/04/03	Public (Ridge Garden)	Noise	Resolved
24/04/03	Public (Monte Vista)	Noise	Resolved
30/05/03	Public (District Councillor for Shatin District Board)	Water	Resolved
16/06/03	Public (Monte Vista)	Noise	Resolved
23/06/03	Public (Monte Vista)	Noise	Resolved
23/06/03	Public (Monte Vista)	Dust, Noise	Resolved
27/06/03	Public (Lee On Estate)	Noise	Resolved
27/06/03	Public (Kam Ying Court)	Noise	Resolved
21/08/03	Monte Vista	Noise	Resolved
23/08/03	Kam Ying	Noise	Resolved
15/09/03	Monte Vista	Noise	Resolved
10/10/03	Kam Ying Court	Noise	Resolved
10/10/03	Kam Ying Court	Noise	Resolved
10/10/03	Kam Ying Court	Noise	Resolved
13/10/03	Monte Vista	Noise	Resolved
16/10/03	Kam Ying Court	Noise	Resolved
24/11/03	Monte Vista	Noise	Resolved
22/12/03	Monte Vista	Noise	Resolved
02/01/04	Monte Vista	Noise	Resolved
06/01/04	Kam Ying Court	Noise	Resolved
07/01/04	Monte Vista	Noise	Resolved
15/01/04	Monte Vista	Odour	Resolved
12/02/04	Monte Vista	Noise	Resolved

6.4 Non-compliance Record

There was one exceedance on 24-hours TSP recorded in the period from January 2004 to March 2004. The compliance percentage of noise, 24-hours TSP and 1-hour TSP monitoring are summarised in Table 6-3 to Table 6-5 respectively.

Table 6-3 - The Summary of Compliance Percentage of Noise Monitoring from February 2001 to March 2004

Period	Noise Monitoring		
	Number of Monitoring	Number of Compliance	Compliance Percentage (%)
February 2001	3	3	100
March 2002	5	5	100
April 2001	4	4	100
May 2001	5	5	100
June 2001	4	4	100
July 2001	5	5	100
August 2001	4	4	100
September 2001	4	4	100
October 2001	5	4	100
November 2001	4	4	100
December 2001	4	4	100
January 2002	5	5	100
February 2002	4	4	100
March 2002	4	4	100
April 2002	4	4	100
April 2003	5	5	100
June 2002	4	4	100
July 2002	5	5	100
August 2002	4	4	100
September 2002	5	5	100
October 2002	4	4	100
November 2002	4	4	100
December 2002	5	5	100
January 2003	4	4	100
February 2003	4	4	100
March 2003	4	4	100
April 2003	5	5	100
May 2003	4	4	100
June 2003	4	4	100
July 2003	5	5	100

Period	Noise Monitoring		
	Number of Monitoring	Number of Compliance	Compliance Percentage (%)
August 2003	4	4	100
September 2003	5	5	100
October 2003	4	4	100
November 2003	4	4	100
December 2003	5	5	100
January 2004	4	4	100
February 2004	4	4	100
March 2004	4	4	100

Table 6-4 - The Summary of Compliance Percentage of 24-hours TSP monitoring from February 2001 to March 2003

Period	24-hours TSP Monitoring		
	Number of Monitoring	Number of Compliance	Compliance Percentage (%)
February 2001	-	-	-
March 2002	5	5	100
April 2001	5	5	100
May 2001	5	5	100
June 2001	5	5	100
July 2001	5	5	100
August 2001	5	5	100
September 2001	5	5	100
October 2001	5	5	100
November 2001	5	5	100
December 2001	5	4*	80
January 2002	5	4*	80
February 2002	5	5	100
March 2002	5	5	100
April 2002	6	5*	83.3
April 2003	5	5	100
June 2002	5	5	100
July 2002	5	5	100
August 2002	5	5	100
September 2002	5	5	100
October 2002	5	5	100
November 2002	5	5	100
December 2002	5	5	100
January 2003	5	5	100

Period	24-hours TSP Monitoring		
	Number of Monitoring	Number of Compliance	Compliance Percentage (%)
February 2003	5	5	100
March 2003	5	5	100
April 2003	5	5	100
May 2003	6	6	100
June 2003	5	5	100
July 2003	5	5	100
August 2003	5	5	100
September 2003	5	5	100
October 2003	5	5	100
November 2003	5	4	80
December 2003	5	5	100
January 2004	6	6	100
February 2004	4	3	75
March 2004	6	6	100

Note: The 24-hours TSP monitoring was commenced in March 2001.

* The exceedances of 24-hour TSP level at AM2 in December 2001, January 2002 and April 2002 were due to the waterproofing works at the roof level as confirmed by the Principal of Ma On Shan Lutheran Primary School.

Table 6-5 - The Summary of Compliance Percentage of 1-hour TSP monitoring from February 2001 to March 2003

Period	1-hour TSP Monitoring		
	Number of Monitoring	Number of Compliance	Compliance Percentage (%)
February 2001	-	-	-
March 2002	3	3	100
April 2001	15	15	100
May 2001	18	18	100
June 2001	15	15	100
July 2001	15	15	100
August 2001	15	15	100
September 2001	15	15	100
October 2001	15	15	100
November 2001	15	15	100
December 2001	15	15	100
January 2002	15	15	100
February 2002	15	15	100
March 2002	15	15	100
April 2002	15	15	100
April 2003	15	15	100

Period	1-hour TSP Monitoring		
	Number of Monitoring	Number of Compliance	Compliance Percentage (%)
June 2002	15	15	100
July 2002	18	18	100
August 2002	15	15	100
September 2002	15	15	100
October 2002	15	15	100
November 2002	15	15	100
December 2002	15	15	100
January 2003	15	15	100
February 2003	15	15	100
March 2003	15	15	100
April 2003	15	15	100
May 2003	15	15	100
June 2003	15	15	100
July 2003	18	18	100
August 2003	12	12	100
September 2003	18	18	100
October 2003	15	15	100
November 2003	12	12	100
December 2003	18	18	100
January 2004	15	15	100
February 2004	12	12	100
March 2004	15	15	100

Note: The 1-hour TSP monitoring was commenced in March 2001.

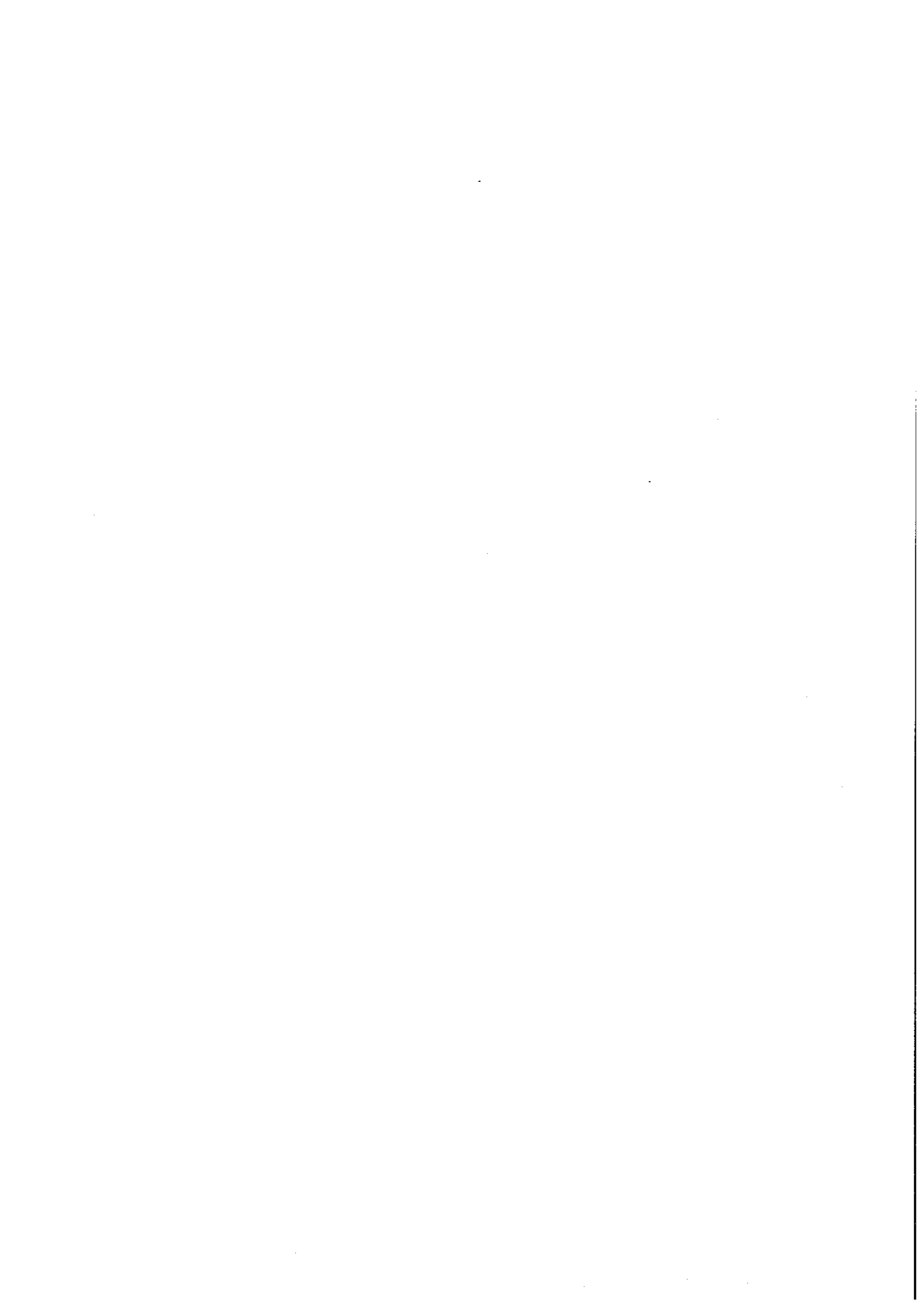
7. REFERENCES

- [1] Truck Road T7 in Ma On Shan - Environmental Impact Assessment Study, Final Assessment Report, Maunsell Consultants Asia Limited.
- [2] Brief for Environmental Monitoring and Audit for the Sha Tin New Town, stage II Contract No. ST 86/2000 Construction of Road T7 in Ma On Shan, Maunsell Consultants Asia Limited.
- [3] Environmental Permit No. EP-057/2000 for the Designated Project “Truck Road T7 in Ma On Shan”, Environmental Protection Department, HKSAR.
- [4] Trunk Road T7 in Ma On Shan - Environmental Monitoring and Audit Manual, Maunsell Consultant Asia Limited, HKSAR.
- [5] Sha Tin New Town, Stage II Contract No. ST 86/2000 Construction of Road T7 in Ma On Shan - Baseline Monitoring Report, Maunsell Consultants Asia Ltd.

This page left blank intentionally

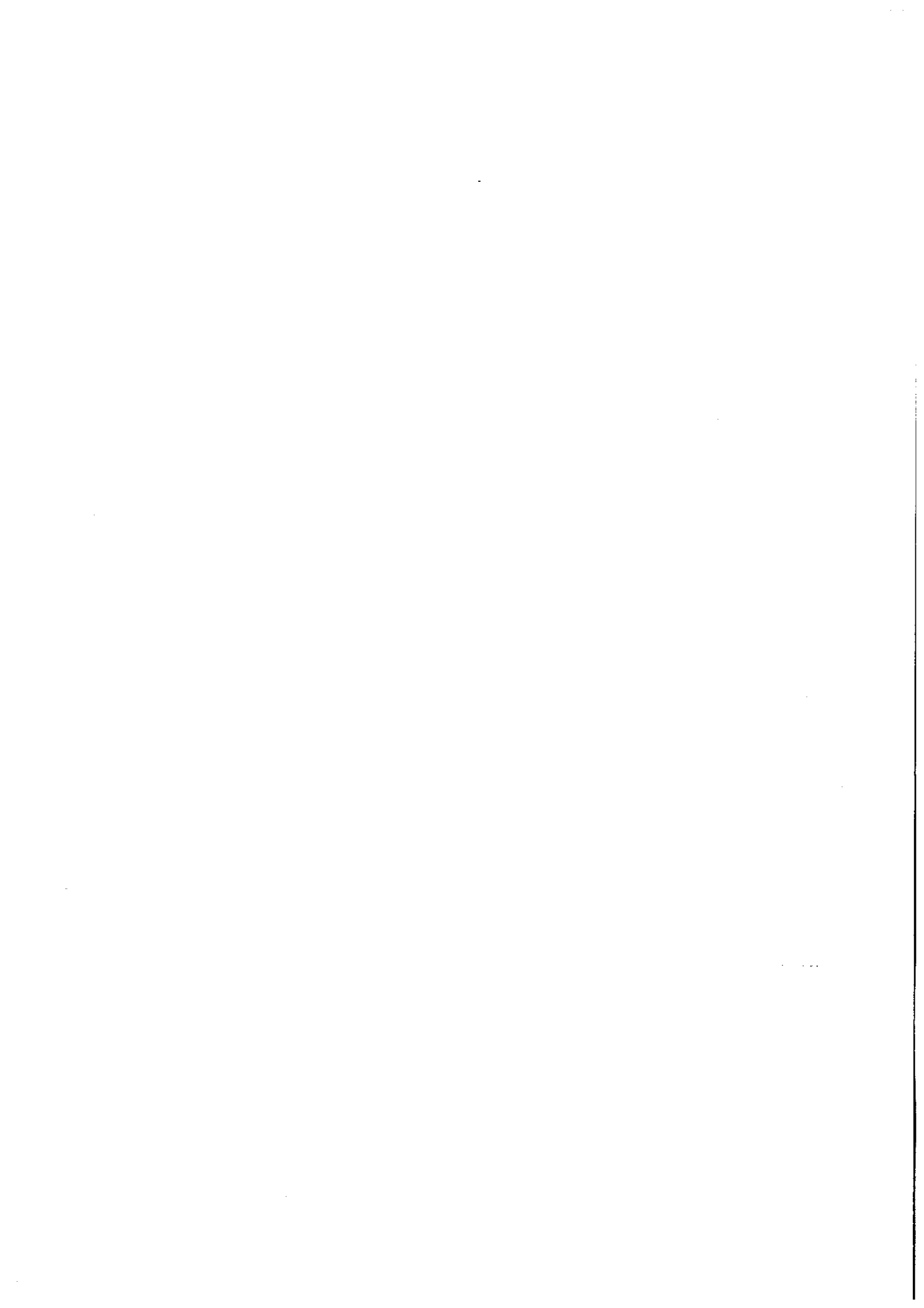
APPENDIX 1

Noise Impact Monitoring Results for January 2004 to March 2004



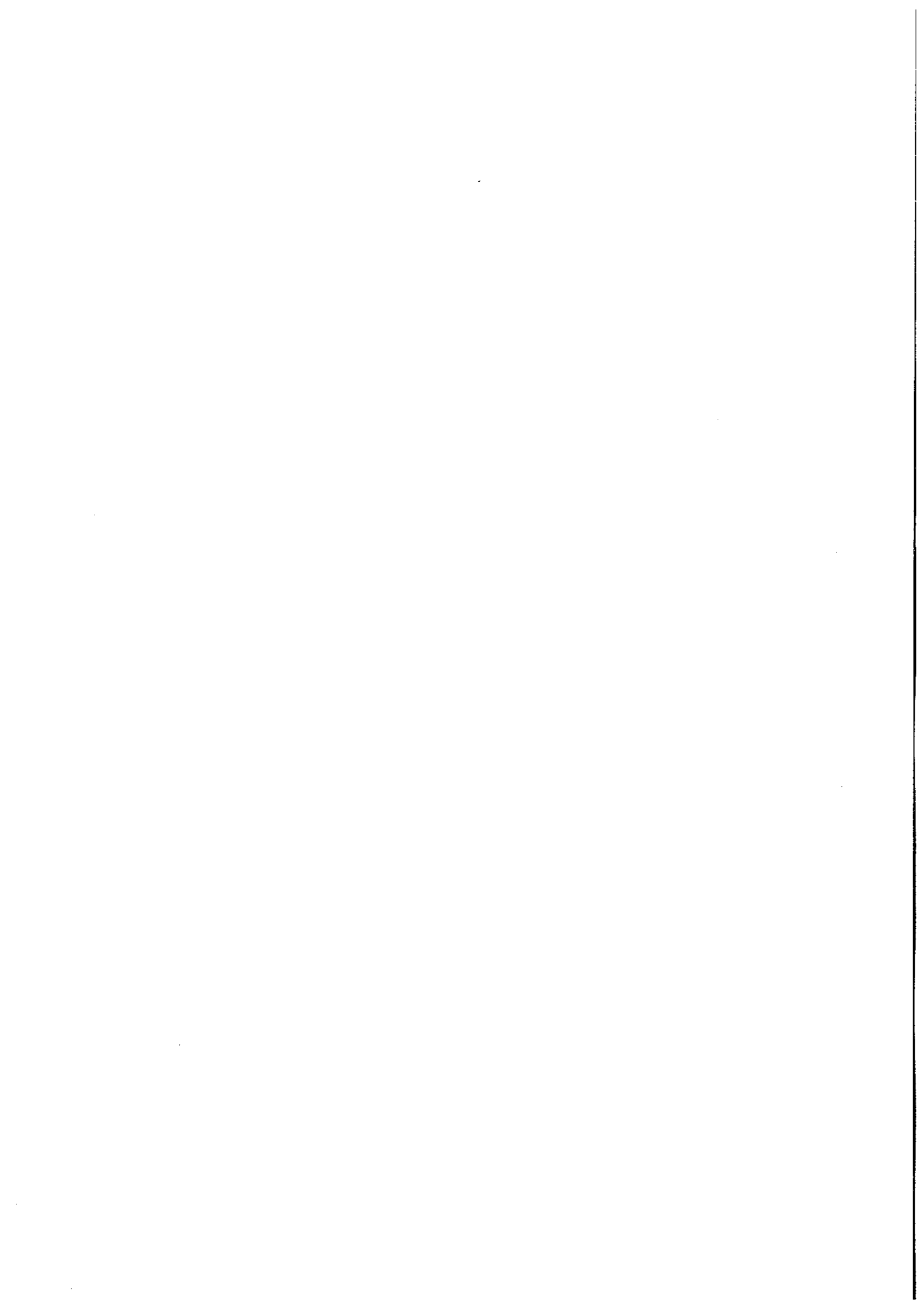
Details of Day Time Noise Impact Monitoring

Month	Date	NSR No.	Time periods		Weather condition	Avg. wind speed (m/s)	Noise Level dB(A)			Influencing factors/ Site condition
			Start	Finish			L ₉₀	L ₅₀	L ₁₀	
Jan-04	08-Jan-04	NM2	13:00	13:30	sunny	0.3	66.5	69.0	61.0	normal operation
Jan-04	08-Jan-04	NM3	9:10	9:40	sunny	0.3	65.0	68.0	60.5	normal operation
Jan-04	08-Jan-04	NM4	9:50	10:20	sunny	0.5	70.5	73.0	65.5	normal operation
Jan-04	08-Jan-04	NM6	10:20	10:50	sunny	0.6	68.0	70.5	62.5	Rock breaker and Excavator
Jan-04	08-Jan-04	NM7	10:55	11:25	sunny	0.5	67.5	70.0	62.0	Rock breaker and Excavator
Jan-04	08-Jan-04	NM8	11:30	12:00	sunny	0.4	69.0	72.0	61.5	normal operation
Jan-04	15-Jan-04	NM2	10:45	11:15	sunny	0.4	67.5	70.0	61.5	normal operation
Jan-04	15-Jan-04	NM3	11:25	11:55	sunny	0.3	65.5	69.0	61.0	normal operation
Jan-04	15-Jan-04	NM4	10:00	10:30	sunny	0.4	70.0	74.5	64.0	normal operation
Jan-04	15-Jan-04	NM6	13:00	13:30	sunny	0.5	67.7	71.5	62.0	Rock breaker and Excavator
Jan-04	15-Jan-04	NM7	9:20	9:50	sunny	0.5	69.5	72.5	62.0	Rock breaker and Excavator
Jan-04	15-Jan-04	NM8	8:50	9:20	sunny	0.5	70.5	73.5	63.0	normal operation
Jan-04	21-Jan-04	NM2	8:10	8:40	sunny	0.4	62.5	65.0	60.5	normal operation
Jan-04	21-Jan-04	NM3	9:10	9:40	sunny	0.5	60.5	64.5	60.0	normal operation
Jan-04	21-Jan-04	NM4	9:55	10:25	sunny	0.6	65.8	68.0	62.0	normal operation
Jan-04	21-Jan-04	NM6	10:50	11:20	sunny	0.7	69.0	74.5	63.0	Rock breaker and Excavator
Jan-04	21-Jan-04	NM7	13:20	13:50	sunny	0.6	66.0	69.0	60.5	Rock breaker and Excavator
Jan-04	21-Jan-04	NM8	13:55	14:25	sunny	0.8	68.0	73.5	61.5	normal operation
Jan-04	30-Jan-04	NM2	8:40	9:10	Sunny	0.4	64.0	66.5	60.8	normal operation
Jan-04	30-Jan-04	NM3	9:25	9:55	Sunny	0.3	62.0	63.8	60.0	normal operation
Jan-04	30-Jan-04	NM4	10:05	10:35	Sunny	0.5	67.0	71.5	62.5	normal operation
Jan-04	30-Jan-04	NM6	13:00	13:30	Sunny	0.6	68.5	73.5	64.0	Rock breaker and Excavator
Jan-04	30-Jan-04	NM7	10:50	11:20	Sunny	0.7	71.0	74.5	64.2	Rock breaker and Excavator
Jan-04	30-Jan-04	NM8	11:30	12:00	Sunny	0.6	70.4	75.0	63.0	normal operation
Feb-04	02-Feb-04	NM2	7:35	8:05	Fine	0.4	65.0	68.5	61.5	normal operation
Feb-04	02-Feb-04	NM3	8:25	8:55	Fine	0.5	67.5	69.3	63.5	normal operation
Feb-04	02-Feb-04	NM4	11:15	11:45	Fine	0.4	68.5	72.0	65.5	normal operation
Feb-04	02-Feb-04	NM6	9:10	9:40	Fine	0.5	68.7	71.0	66.5	Rock breaker and Excavator
Feb-04	02-Feb-04	NM7	9:55	10:25	Fine	0.4	67.5	72.0	65.5	Rock breaker and Excavator
Feb-04	02-Feb-04	NM8	10:30	11:00	Fine	0.5	66.3	69.0	62.5	normal operation
Feb-04	11-Feb-04	NM2	7:40	8:10	Sunny	0.4	63.0	67.5	61.0	normal operation
Feb-04	11-Feb-04	NM3	8:20	8:50	Sunny	0.5	65.0	67.8	62.0	normal operation
Feb-04	11-Feb-04	NM4	11:30	12:00	Sunny	0.3	68.5	72.0	66.5	normal operation
Feb-04	11-Feb-04	NM6	9:10	9:40	Sunny	0.4	66.5	69.8	61.5	Rock breaker and Excavator
Feb-04	11-Feb-04	NM7	9:50	10:20	Sunny	0.3	65.8	69.5	61.0	Rock breaker and Excavator
Feb-04	11-Feb-04	NM8	10:30	11:00	Sunny	0.4	66.5	69.5	63.5	normal operation
Feb-04	19-Feb-04	NM2	13:00	13:30	Sunny	0.4	65.8	69.5	62.0	normal operation
Feb-04	19-Feb-04	NM3	13:40	14:10	Sunny	0.4	67.3	70.0	64.0	normal operation
Feb-04	19-Feb-04	NM4	16:25	16:55	Sunny	0.5	67.5	71.5	63.0	normal operation
Feb-04	19-Feb-04	NM6	14:25	14:55	Sunny	0.4	69.5	72.0	64.0	Rock breaker and Excavator
Feb-04	19-Feb-04	NM7	15:10	15:40	Sunny	0.4	68.0	71.5	66.5	Rock breaker and Excavator
Feb-04	19-Feb-04	NM8	15:50	16:20	Sunny	0.5	66.8	70.3	62.5	normal operation
Feb-04	25-Feb-04	NM2	7:15	7:45	Sunny	0.4	65.8	69.0	62.5	normal operation
Feb-04	25-Feb-04	NM3	7:65	8:25	Sunny	0.5	66.7	69.3	62.8	normal operation
Feb-04	25-Feb-04	NM4	11:10	11:40	Sunny	0.4	68.5	72.5	63.0	normal operation
Feb-04	25-Feb-04	NM6	8:40	9:10	Sunny	0.3	67.5	70.3	63.0	Rock breaker and Excavator
Feb-04	25-Feb-04	NM7	9:30	10:00	Sunny	0.4	68.5	70.8	64.5	Rock breaker and Excavator
Feb-04	25-Feb-04	NM8	10:10	10:40	Sunny	0.3	66.5	69.5	62.0	normal operation
Mar-04	02-Mar-04	NM2	7:45	8:15	Cloudy	0.5	67.8	69.5	62.0	normal operation
Mar-04	02-Mar-04	NM3	8:25	8:55	Cloudy	0.8	68.3	70.0	64.5	normal operation
Mar-04	02-Mar-04	NM4	11:25	11:55	Cloudy	0.6	68.5	70.3	65.0	normal operation
Mar-04	02-Mar-04	NM6	9:05	9:35	Cloudy	0.5	67.5	69.0	62.5	Rock breaker and Excavator
Mar-04	02-Mar-04	NM7	9:50	10:20	Cloudy	0.6	68.9	71.5	63.5	Rock breaker and Excavator
Mar-04	02-Mar-04	NM8	10:30	11:00	Cloudy	0.5	67.5	69.5	62.0	normal operation
Mar-04	09-Mar-04	NM2	13:50	14:20	Sunny	0.5	69.5	67.0	60.5	normal operation
Mar-04	09-Mar-04	NM3	13:10	13:40	Sunny	0.5	63.5	64.5	59.0	normal operation
Mar-04	09-Mar-04	NM4	10:30	11:00	Sunny	0.5	71.9	76.5	59.5	normal operation
Mar-04	09-Mar-04	NM6	15:00	15:30	Sunny	0.5	64.0	66.0	58.5	normal operation
Mar-04	09-Mar-04	NM7	11:30	12:00	Sunny	0.5	64.0	68.5	53.5	normal operation
Mar-04	09-Mar-04	NM8	16:05	16:35	Sunny	0.5	66.7	74.5	59.0	normal operation
Mar-04	15-Mar-04	NM2	8:40	9:10	Sunny	0.5	67.3	69.0	62.0	normal operation
Mar-04	15-Mar-04	NM3	11:30	12:00	Sunny	0.8	62.1	64.0	58.0	normal operation
Mar-04	15-Mar-04	NM4	15:00	15:30	Sunny	0.6	63.9	66.0	60.5	normal operation
Mar-04	15-Mar-04	NM6	10:25	10:55	Sunny	0.5	67.5	69.5	56.5	normal operation
Mar-04	15-Mar-04	NM7	13:53	14:23	Sunny	0.6	74.9	78.5	69.0	normal operation
Mar-04	15-Mar-04	NM8	13:50	14:20	Sunny	0.5	65.2	67.0	61.5	normal operation
Mar-04	26-Mar-04	NM2	11:30	12:00	Cloudy	0.3	61.3	63.0	58.5	normal operation
Mar-04	26-Mar-04	NM3	10:50	11:20	Cloudy	0.3	61.9	62.0	57.5	normal operation
Mar-04	26-Mar-04	NM4	14:30	15:00	Cloudy	0.5	65.8	67.5	63.0	normal operation
Mar-04	26-Mar-04	NM6	16:00	16:30	Cloudy	0.5	64.5	66.5	60.5	normal operation
Mar-04	26-Mar-04	NM7	13:00	13:30	Cloudy	0.3	60.7	62.0	56.0	normal operation
Mar-04	26-Mar-04	NM8	13:45	14:15	Cloudy	0.3	59.0	61.3	56.5	normal operation



APPENDIX 2

24-hour TSP Monitoring Results for January 2004 to March 2004



Details of 24-Hour TSP Monitoring

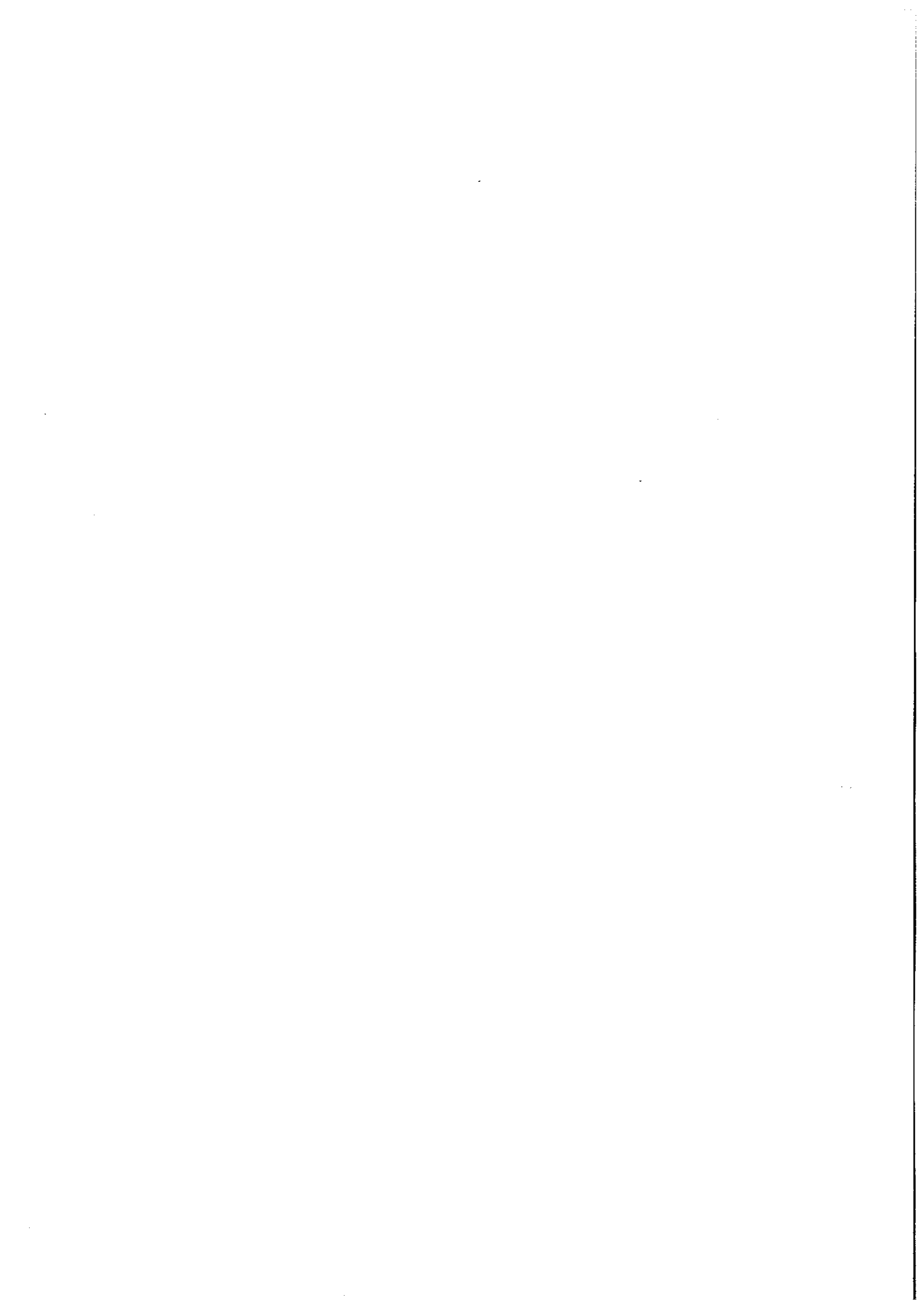
Month	Date	Receptor No.	Weather condition	Site condition	Filter Weight (g)		TSP weight (g)	Flow Rate (m ³ /min)		Average Flow Rate (m ³ /min)	Elapse Time		Sampling Time (mins.)	Total vol. (m ³)	24-hour TSP Level (µg/m ³)
					Initial	Final		Initial	Final		Start	Finish			
Jan-04	02-Jan-04	AM2	Sunny	normal operation	2.9051	3.2158	0.3107	1.1928	1.2055	1.1992	4443.64	4467.64	1440.00	1726.78	179.9
Jan-04	02-Jan-04	AM3	Sunny	normal operation	2.9080	3.2876	0.3796	1.2590	1.2786	1.2688	4388.89	4412.89	1440.00	1827.07	207.8
Jan-04	02-Jan-04	AM4	Sunny	normal operation	2.9032	3.3216	0.4184	1.4461	1.4637	1.4549	4417.46	4441.46	1440.00	2095.06	199.7
Jan-04	02-Jan-04	AM5	Sunny	normal operation	2.8753	3.0857	0.2104	1.1713	1.1897	1.1805	4128.86	4152.86	1440.00	1699.92	123.8
Jan-04	02-Jan-04	AM6	Sunny	normal operation	2.8748	3.2815	0.4067	1.3080	1.3247	1.3164	2560.48	2584.48	1440.00	1895.54	214.6
Jan-04	07-Jan-04	AM2	Sunny	normal operation	2.8913	3.0764	0.1851	1.3211	1.3176	1.3194	4467.64	4491.64	1440.00	1899.86	97.4
Jan-04	07-Jan-04	AM3	Sunny	normal operation	2.9096	3.0882	0.1786	1.2611	1.2562	1.2587	4412.89	4436.89	1440.00	1812.46	98.5
Jan-04	07-Jan-04	AM4	Sunny	normal operation	2.9349	3.1325	0.1976	1.3482	1.3431	1.3457	4441.46	4465.46	1440.00	1937.74	102.0
Jan-04	07-Jan-04	AM5	Sunny	normal operation	2.9931	3.1056	0.1125	1.6348	1.6271	1.6310	4152.86	4176.86	1440.00	2348.57	47.9
Jan-04	07-Jan-04	AM6	Sunny	normal operation	2.9130	3.0960	0.1830	1.3087	1.3044	1.3066	2584.48	2608.48	1440.00	1881.43	97.3
Jan-04	13-Jan-04	AM2	Sunny	normal operation	2.8065	2.9566	0.1501	1.3224	1.3139	1.3182	4491.64	4515.64	1440.00	1898.14	79.1
Jan-04	13-Jan-04	AM3	Sunny	normal operation	2.8116	2.9570	0.1454	1.3056	1.2940	1.2998	4436.89	4460.89	1440.00	1871.71	77.7
Jan-04	13-Jan-04	AM4	Sunny	normal operation	2.7910	2.9475	0.1565	1.5108	1.4746	1.4927	4465.46	4489.46	1440.00	2149.49	72.8
Jan-04	13-Jan-04	AM5	Sunny	normal operation	2.8282	2.9126	0.0844	1.4471	1.4339	1.4405	4200.87	4224.87	1440.00	2074.32	40.7
Jan-04	13-Jan-04	AM6	Sunny	normal operation	2.8133	2.9523	0.1390	1.3204	1.2846	1.3025	2632.45	2656.45	1440.00	1875.60	74.1
Jan-04	19-Jan-04	AM2	Sunny	normal operation	2.8146	2.8624	0.0478	1.3324	1.3449	1.3387	4515.65	4539.65	1440.00	1927.66	24.8
Jan-04	19-Jan-04	AM3	Sunny	normal operation	2.7991	2.8396	0.0405	1.3084	1.3263	1.3174	4460.89	4484.89	1440.00	1896.98	21.3
Jan-04	19-Jan-04	AM4	Sunny	normal operation	2.8029	2.8500	0.0471	1.3605	1.3787	1.3696	4489.47	4513.47	1440.00	1972.22	23.9
Jan-04	19-Jan-04	AM5	Sunny	normal operation	2.7656	3.0034	0.2378	1.6475	1.6748	1.6612	4224.87	4248.87	1440.00	2392.06	99.4
Jan-04	19-Jan-04	AM6	Sunny	normal operation	2.7806	2.8253	0.0447	1.2679	1.2276	1.2478	2656.45	2680.45	1440.00	1796.76	24.9
Jan-04	26-Jan-04	AM2	Sunny	normal operation	2.8668	3.0090	0.1422	1.3512	1.3386	1.3449	4539.65	4563.65	1440.00	1936.66	73.4
Jan-04	26-Jan-04	AM3	Sunny	normal operation	2.8769	2.9990	0.1221	1.2477	1.2318	1.2398	4484.89	4508.90	1440.60	1785.98	68.4
Jan-04	26-Jan-04	AM4	Sunny	normal operation	2.8805	3.0335	0.1530	1.4908	1.4757	1.4833	4513.47	4537.47	1440.00	2135.88	71.6
Jan-04	26-Jan-04	AM5	Sunny	normal operation	2.8317	2.9235	0.0918	1.3080	1.2909	1.2995	4248.87	4272.56	1421.40	1847.04	49.7
Jan-04	26-Jan-04	AM6	Sunny	normal operation	2.8802	3.0062	0.1260	1.2194	1.2070	1.2132	2680.45	2704.45	1440.00	1747.01	72.1
Jan-04	31-Jan-04	AM2	Sunny	normal operation	2.8534	2.9536	0.1002	1.3106	1.3091	1.3099	4563.65	4587.65	1440.00	1886.18	53.1
Jan-04	31-Jan-04	AM3	Sunny	normal operation	2.8322	2.9075	0.0753	1.2780	1.2758	1.2769	4508.90	4532.90	1440.00	1838.74	41.0
Jan-04	31-Jan-04	AM4	Sunny	normal operation	2.8350	2.9278	0.0928	1.1597	1.1579	1.1588	4537.47	4561.47	1440.00	1668.67	55.6
Jan-04	31-Jan-04	AM5	Sunny	normal operation	2.8351	2.9910	0.1559	1.6493	1.6459	1.6476	4272.56	4296.56	1440.00	2372.54	65.7
Jan-04	31-Jan-04	AM6	Sunny	normal operation	2.8368	2.9403	0.1035	1.2149	1.2132	1.2141	2718.89	2742.89	1440.00	1748.23	59.2

Details of 24-Hour TSP Monitoring

Month	Receptor No.	Weather condition	Site condition	Filter Weight (g)		TSP weight (g)	Flow Rate (m ³ /min)		Average Flow Rate (m ³ /min)	Elapse Time		Sampling Time (mins.)	Total vol. (m ³)	24-hour TSP Level (µg/m ³)
				Initial	Final		Initial	Final		Start	Finish			
Feb-04	AM2	Sunny	normal operation	2.8651	2.9779	0.1128	1.3131	1.3241	1.3186	4587.65	4611.65	1440.00	1898.78	59.4
Feb-04	AM3	Sunny	normal operation	2.8259	2.9320	0.1061	1.2929	1.3080	1.3005	4532.90	4556.90	1440.00	1872.65	56.7
Feb-04	AM4	Sunny	normal operation	2.8289	2.9461	0.1172	1.4226	1.4354	1.4290	4561.47	4585.47	1440.00	2057.76	57.0
Feb-04	AM5	Sunny	normal operation	2.8182	2.9355	0.1173	1.1735	1.1872	1.1804	4296.56	4320.56	1440.00	1699.70	69.0
Feb-04	AM6	Sunny	normal operation	2.8453	2.9623	0.1170	1.2315	1.2429	1.2372	3002.94	3026.94	1440.00	1781.57	65.7
Feb-04	AM2	Sunny	normal operation	2.8599	3.0984	0.2385	1.3192	1.3166	1.3179	4650.21	4674.21	1440.00	1897.78	125.7
Feb-04	AM3	Sunny	normal operation	2.8243	3.0416	0.2173	1.4500	1.4457	1.4479	4595.27	4619.27	1440.00	2084.90	104.2
Feb-04	AM4	Sunny	normal operation	2.8327	3.1028	0.2701	1.3163	1.3125	1.3144	4624.37	4648.37	1440.00	1892.74	142.7
Feb-04	AM5	Sunny	normal operation	2.8283	3.0715	0.2432	1.6687	1.6628	1.6658	4358.42	4382.42	1440.00	2398.68	101.4
Feb-04	AM6	Sunny	normal operation	2.8755	3.0722	0.1967	1.2792	1.2760	1.2776	3026.94	3050.94	1440.00	1839.74	106.9
Feb-04	AM2	Sunny	normal operation	2.8095	2.9241	0.1146	1.2811	1.2787	1.2799	4674.21	4697.77	1413.60	1809.27	63.3
Feb-04	AM3	Sunny	normal operation	2.7949	2.9073	0.1124	1.2257	1.2228	1.2243	4619.27	4642.79	1411.20	1727.66	65.1
Feb-04	AM4	Sunny	normal operation	2.8136	2.9228	0.1092	1.7293	1.6915	1.7104	4648.37	4672.37	1440.00	2462.98	44.3
Feb-04	AM5	Sunny	normal operation	2.8151	2.9172	0.1021	1.4094	1.4055	1.4075	4382.42	4406.42	1440.00	2026.73	50.4
Feb-04	AM6	Sunny	normal operation	2.8347	2.9669	0.1322	1.1060	1.1029	1.1045	3050.94	3074.91	1438.20	1588.42	83.2
Feb-04	AM2	Sunny	normal operation	2.8222	2.9569	0.1347	1.2352	1.2352	1.2352	4697.77	4721.77	1440.00	1778.69	75.7
Feb-04	AM3	Sunny	normal operation	2.8427	2.9718	0.1291	1.1711	1.1711	1.1711	4642.79	4666.79	1440.00	1686.38	76.6
Feb-04	AM4	Sunny	normal operation	2.8293	2.9852	0.1559	1.3292	1.3292	1.3292	4672.37	4696.37	1440.00	1914.05	81.5
Feb-04	AM5	Sunny	normal operation	2.8157	2.9610	0.1453	1.3503	1.3503	1.3503	4406.42	4430.02	1416.00	1912.02	76.0
Feb-04	AM6	Sunny	normal operation	2.8339	3.3290	0.4951	1.1954	1.1954	1.1954	3074.91	3098.91	1440.00	1721.38	287.6

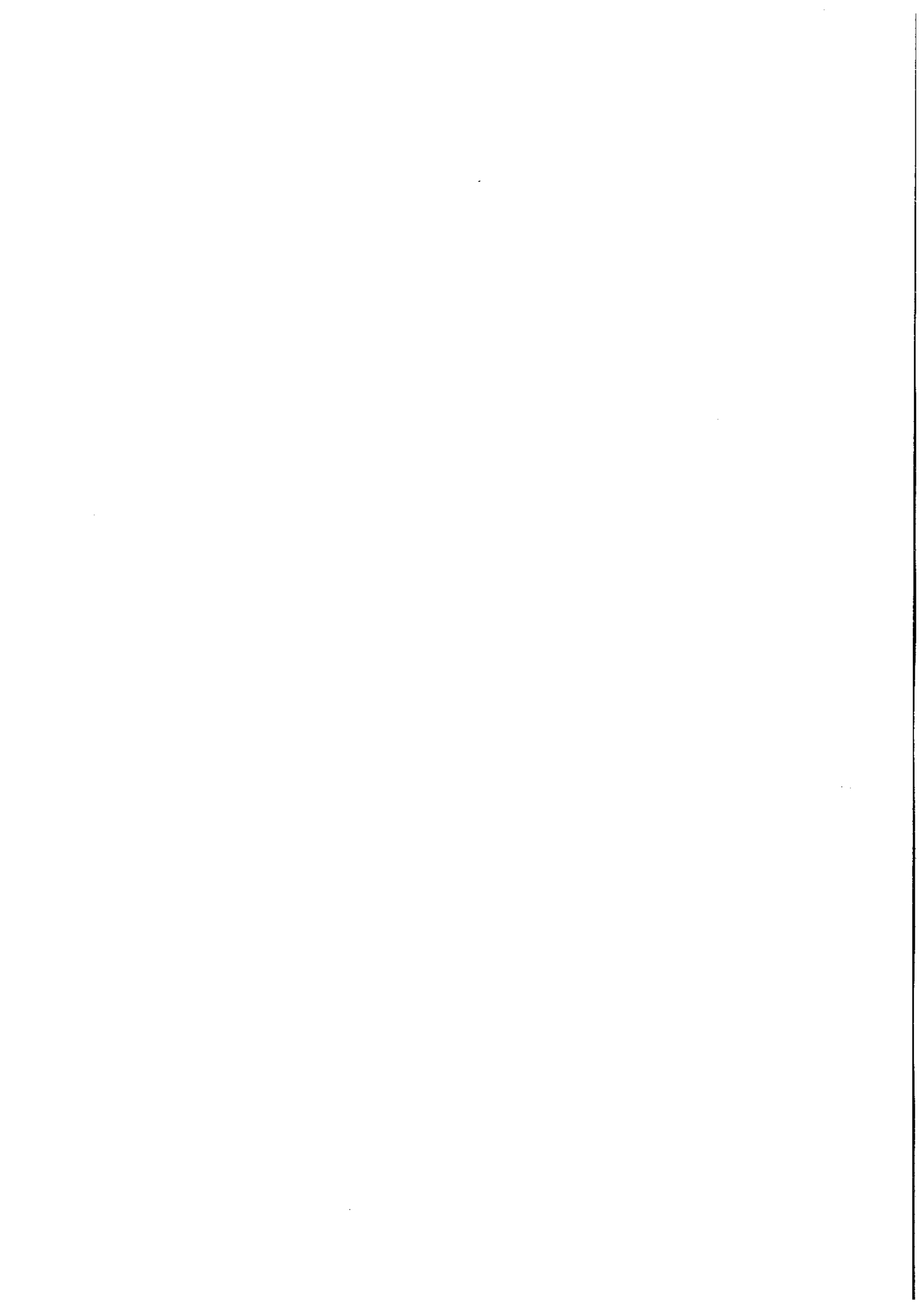
Details of 24-Hour TSP Monitoring

Month	Date	Receptor No.	Weather condition	Site condition	Filter Weight (g)		TSP weight (g)	Flow Rate (m ³ /min)		Average Flow Rate (m ³ /min)	Elapse Time		Sampling Time (mins.)	Total vol. (m ³)	24-hour TSP Level (µg/m ³)
					Initial	Final		Initial	Final		Start	Finish			
Mar-04	01-Mar-04	AM2	Cloudy	normal operation	2.8497	2.9743	0.1246	1.3780	1.3780	1.3780	4721.77	4744.62	1371.00	1889.24	66.0
Mar-04	01-Mar-04	AM3	Cloudy	normal operation	2.8317	2.9601	0.1284	1.1873	1.1873	1.1873	4666.79	4689.22	1345.80	1597.87	80.4
Mar-04	01-Mar-04	AM4	Cloudy	normal operation	2.8309	2.9559	0.1250	1.4144	1.3818	1.3981	4696.37	4719.37	1380.00	1929.38	64.8
Mar-04	01-Mar-04	AM5	Cloudy	normal operation	2.8709	2.9235	0.0526	1.3374	1.3374	1.3374	4430.02	4454.02	1440.00	1925.86	27.3
Mar-04	01-Mar-04	AM6	Cloudy	normal operation	2.8373	2.9947	0.1574	1.1230	1.1230	1.1230	3119.05	3143.05	1440.00	1617.12	97.3
Mar-04	06-Mar-04	AM2	Sunny	normal operation	2.8612	3.0740	0.2128	1.2601	1.2606	1.2604	4744.62	4768.62	1440.00	1814.90	117.3
Mar-04	06-Mar-04	AM3	Sunny	normal operation	2.8695	3.0704	0.2009	1.2267	1.2273	1.2270	4689.22	4713.22	1440.00	1766.88	113.7
Mar-04	06-Mar-04	AM4	Sunny	normal operation	2.8801	3.0991	0.2190	1.4665	1.4673	1.4669	4719.37	4743.37	1440.00	2112.34	103.7
Mar-04	06-Mar-04	AM5	Sunny	normal operation	2.8867	3.1119	0.2252	1.4108	1.4116	1.4112	4454.02	4478.02	1440.00	2032.13	110.8
Mar-04	06-Mar-04	AM6	Sunny	normal operation	2.8681	3.0260	0.1579	1.1380	1.1387	1.1384	3208.89	3232.89	1440.00	1639.22	96.3
Mar-04	13-Mar-04	AM2	Sunny	normal operation	2.8741	2.9847	0.1106	1.2337	1.2322	1.2330	4768.62	4792.62	1440.00	1775.45	62.3
Mar-04	13-Mar-04	AM3	Sunny	normal operation	2.8808	2.9904	0.1096	1.1694	1.1675	1.1685	4713.22	4737.22	1440.00	1682.57	55.1
Mar-04	13-Mar-04	AM4	Sunny	normal operation	2.8570	2.9740	0.1170	1.3927	1.3900	1.3914	4743.37	4767.37	1440.00	2003.54	58.4
Mar-04	13-Mar-04	AM5	Sunny	normal operation	2.8650	2.9502	0.0852	1.2928	1.2904	1.2916	4478.02	4502.02	1440.00	1859.90	45.8
Mar-04	13-Mar-04	AM6	Sunny	normal operation	2.8636	3.0085	0.1449	1.1626	1.1604	1.1615	3266.22	3290.22	1440.00	1672.56	86.6
Mar-04	19-Mar-04	AM2	Cloudy	normal operation	2.8667	3.0146	0.1479	1.2372	1.2372	1.2372	4792.62	4816.82	1452.00	1796.41	82.3
Mar-04	19-Mar-04	AM3	Cloudy	normal operation	2.8363	2.8966	0.0603	1.2254	1.2254	1.2254	4772.39	4796.39	1440.00	1764.58	34.2
Mar-04	19-Mar-04	AM4	Cloudy	normal operation	2.8099	2.8963	0.0864	1.4647	1.4647	1.4647	4807.44	4831.44	1440.00	2109.17	41.0
Mar-04	19-Mar-04	AM5	Cloudy	normal operation	2.8059	2.8926	0.0867	1.3814	1.3814	1.3814	4515.16	4539.16	1440.00	1989.22	43.6
Mar-04	19-Mar-04	AM6	Cloudy	normal operation	2.8249	2.8560	0.0311	1.1057	1.1057	1.1057	3328.26	3352.26	1440.00	1592.21	19.5
Mar-04	25-Mar-04	AM2	Cloudy	normal operation	2.8802	2.9972	0.1170	1.2377	1.2355	1.2366	4816.82	4840.63	1428.60	1766.61	66.2
Mar-04	25-Mar-04	AM3	Cloudy	normal operation	2.8617	2.9669	0.1052	1.2001	1.1974	1.1988	4796.39	4820.39	1440.00	1726.20	60.9
Mar-04	25-Mar-04	AM4	Cloudy	normal operation	2.8470	2.9451	0.0981	1.3333	1.3298	1.3316	4831.45	4855.45	1440.00	1917.43	51.2
Mar-04	25-Mar-04	AM5	Cloudy	normal operation	2.8343	2.9501	0.1158	1.6315	1.6270	1.6293	4563.16	4587.16	1440.00	2346.12	49.4
Mar-04	25-Mar-04	AM6	Cloudy	normal operation	2.8519	2.9305	0.0786	1.2610	1.2268	1.2439	3352.26	3376.27	1440.60	1791.96	43.9
Mar-04	31-Mar-04	AM2	Cloudy	normal operation	2.8508	2.9790	0.1282	1.2334	1.2334	1.2334	4840.63	4864.63	1440.00	1776.10	72.2
Mar-04	31-Mar-04	AM3	Cloudy	normal operation	2.8422	2.9287	0.0865	1.1690	1.1690	1.1690	4844.39	4868.39	1440.00	1683.36	51.4
Mar-04	31-Mar-04	AM4	Cloudy	normal operation	2.8544	3.0079	0.1535	1.3922	1.3922	1.3922	4855.45	4879.46	1440.60	2005.60	76.5
Mar-04	31-Mar-04	AM5	Cloudy	normal operation	2.8663	2.9800	0.1137	1.5678	1.5678	1.5678	4587.16	4611.16	1440.00	2257.63	50.4
Mar-04	31-Mar-04	AM6	Cloudy	normal operation	2.8595	2.9260	0.0665	1.2852	1.0899	1.1776	3376.27	3400.27	1440.00	1695.67	39.2



APPENDIX 3

1-hour TSP Monitoring Results for January 2004 to March 2004



Details of 1-Hour TSP Monitoring

Month	Date	Receptor No.	Set No.	Time periods		Weather condition	Site condition	Temp. (°C)	Pressure (mmHg)	1-hour TSP Level (µg/g ³)
				Start	Finish					
Jan-04	08-Jan-04	AM2	1	8:52	9:52	Sunny	normal operation	18.0	765.0	154.6
Jan-04	08-Jan-04	AM2	2	9:52	10:52	Sunny	normal operation	18.0	765.0	155.7
Jan-04	08-Jan-04	AM2	3	10:52	11:52	Sunny	normal operation	18.0	765.0	153.3
Jan-04	08-Jan-04	AM3	1	8:57	9:57	Sunny	normal operation	18.0	765.0	151.7
Jan-04	08-Jan-04	AM3	2	9:57	10:57	Sunny	normal operation	18.0	765.0	150.5
Jan-04	08-Jan-04	AM3	3	10:57	11:57	Sunny	normal operation	18.0	765.0	150.2
Jan-04	08-Jan-04	AM4	1	8:48	9:48	Sunny	normal operation	18.0	765.0	185.7
Jan-04	08-Jan-04	AM4	2	9:48	10:48	Sunny	normal operation	18.0	765.0	166.5
Jan-04	08-Jan-04	AM4	3	10:48	11:48	Sunny	normal operation	18.0	765.0	164.3
Jan-04	08-Jan-04	AM5	1	8:56	9:56	Sunny	normal operation	18.0	765.0	196.1
Jan-04	08-Jan-04	AM5	2	9:56	10:56	Sunny	normal operation	18.0	765.0	180.0
Jan-04	08-Jan-04	AM5	3	10:56	11:56	Sunny	normal operation	18.0	765.0	175.8
Jan-04	08-Jan-04	AM6	1	8:58	9:58	Sunny	normal operation	18.0	765.0	172.4
Jan-04	08-Jan-04	AM6	2	9:58	10:58	Sunny	normal operation	18.0	765.0	172.0
Jan-04	08-Jan-04	AM6	3	10:58	11:58	Sunny	normal operation	18.0	765.0	169.9
Jan-04	09-Jan-04	AM2	1	8:02	9:02	Sunny	normal operation	18.0	765.0	173.8
Jan-04	09-Jan-04	AM2	2	9:02	10:02	Sunny	normal operation	18.0	765.0	167.9
Jan-04	09-Jan-04	AM2	3	10:02	11:02	Sunny	normal operation	18.0	765.0	169.8
Jan-04	09-Jan-04	AM3	1	8:47	9:47	Sunny	normal operation	18.0	765.0	242.8
Jan-04	09-Jan-04	AM3	2	9:47	10:47	Sunny	normal operation	18.0	765.0	216.5
Jan-04	09-Jan-04	AM3	3	10:47	11:47	Sunny	normal operation	18.0	765.0	221.9
Jan-04	09-Jan-04	AM4	1	8:51	9:51	Sunny	normal operation	18.0	765.0	201.5
Jan-04	09-Jan-04	AM4	2	9:51	10:51	Sunny	normal operation	18.0	765.0	179.2
Jan-04	09-Jan-04	AM4	3	10:51	11:51	Sunny	normal operation	18.0	765.0	187.5
Jan-04	09-Jan-04	AM5	1	8:54	9:54	Sunny	normal operation	18.0	765.0	203.7
Jan-04	09-Jan-04	AM5	2	9:54	10:54	Sunny	normal operation	18.0	765.0	212.1
Jan-04	09-Jan-04	AM5	3	10:54	11:54	Sunny	normal operation	18.0	765.0	231.0
Jan-04	09-Jan-04	AM6	1	8:03	9:03	Sunny	normal operation	18.0	765.0	147.8
Jan-04	09-Jan-04	AM6	2	9:03	10:03	Sunny	normal operation	18.0	765.0	147.9
Jan-04	09-Jan-04	AM6	3	10:03	11:03	Sunny	normal operation	18.0	765.0	146.4
Jan-04	15-Jan-04	AM2	1	8:27	9:27	Sunny	normal operation	14.0	765.0	212.8
Jan-04	15-Jan-04	AM2	2	9:27	10:27	Sunny	normal operation	14.0	765.0	210.0
Jan-04	15-Jan-04	AM2	3	10:27	11:27	Sunny	normal operation	14.0	765.0	201.9
Jan-04	15-Jan-04	AM3	1	8:54	9:54	Sunny	normal operation	14.0	765.0	210.5
Jan-04	15-Jan-04	AM3	2	9:54	10:54	Sunny	normal operation	14.0	765.0	218.9
Jan-04	15-Jan-04	AM3	3	10:54	11:54	Sunny	normal operation	14.0	765.0	211.4
Jan-04	15-Jan-04	AM4	1	8:03	9:03	Sunny	normal operation	14.0	765.0	202.7
Jan-04	15-Jan-04	AM4	2	9:03	10:03	Sunny	normal operation	14.0	765.0	204.6
Jan-04	15-Jan-04	AM4	3	10:03	11:03	Sunny	normal operation	14.0	765.0	215.7
Jan-04	15-Jan-04	AM5	1	8:01	9:01	Sunny	normal operation	14.0	765.0	222.2
Jan-04	15-Jan-04	AM5	2	9:01	10:01	Sunny	normal operation	14.0	765.0	211.7
Jan-04	15-Jan-04	AM5	3	10:01	11:01	Sunny	normal operation	14.0	765.0	206.3
Jan-04	15-Jan-04	AM6	1	8:54	9:54	Sunny	normal operation	14.0	765.0	193.9
Jan-04	15-Jan-04	AM6	2	9:54	10:54	Sunny	normal operation	14.0	765.0	199.6
Jan-04	15-Jan-04	AM6	3	10:54	11:54	Sunny	normal operation	14.0	765.0	199.6
Jan-04	21-Jan-04	AM2	1	8:32	9:32	Sunny	normal operation	12.0	765.0	164.7
Jan-04	21-Jan-04	AM2	2	9:32	10:32	Sunny	normal operation	12.0	765.0	155.4
Jan-04	21-Jan-04	AM2	3	10:32	11:32	Sunny	normal operation	12.0	765.0	152.9
Jan-04	21-Jan-04	AM3	1	8:40	9:40	Sunny	normal operation	12.0	765.0	153.0
Jan-04	21-Jan-04	AM3	2	9:40	10:40	Sunny	normal operation	12.0	765.0	148.5
Jan-04	21-Jan-04	AM3	3	10:40	11:40	Sunny	normal operation	12.0	765.0	146.8
Jan-04	21-Jan-04	AM4	1	8:30	9:30	Sunny	normal operation	12.0	765.0	159.0
Jan-04	21-Jan-04	AM4	2	9:30	10:30	Sunny	normal operation	12.0	765.0	158.0
Jan-04	21-Jan-04	AM4	3	10:30	11:30	Sunny	normal operation	12.0	765.0	148.0
Jan-04	21-Jan-04	AM5	1	13:08	14:08	Sunny	normal operation	12.0	765.0	165.7
Jan-04	21-Jan-04	AM5	2	14:08	15:08	Sunny	normal operation	12.0	765.0	164.5
Jan-04	21-Jan-04	AM5	3	15:08	16:08	Sunny	normal operation	12.0	765.0	161.0
Jan-04	21-Jan-04	AM6	1	13:12	14:12	Sunny	normal operation	12.0	765.0	159.9
Jan-04	21-Jan-04	AM6	2	14:12	15:12	Sunny	normal operation	12.0	765.0	156.4
Jan-04	21-Jan-04	AM6	3	15:12	16:12	Sunny	normal operation	12.0	765.0	169.2

Details of 1-Hour TSP Monitoring

Month	Date	Receptor No.	Set No.	Time periods		Weather condition	Site condition	Temp. (°C)	Pressure (mmHg)	1-hour TSP Level (µg/g ³)
				Start	Finish					
Jan-04	30-Jan-04	AM2	1	8:33	9:33	Sunny	normal operation	12.0	765.0	153.5
Jan-04	30-Jan-04	AM2	2	9:33	10:33	Sunny	normal operation	12.0	765.0	154.7
Jan-04	30-Jan-04	AM2	3	10:33	11:33	Sunny	normal operation	12.0	765.0	154.3
Jan-04	30-Jan-04	AM3	1	8:33	9:33	Sunny	normal operation	12.0	765.0	154.8
Jan-04	30-Jan-04	AM3	2	9:33	10:33	Sunny	normal operation	12.0	765.0	156.4
Jan-04	30-Jan-04	AM3	3	10:33	11:33	Sunny	normal operation	12.0	765.0	157.0
Jan-04	30-Jan-04	AM4	1	8:15	9:15	Sunny	normal operation	12.0	765.0	125.4
Jan-04	30-Jan-04	AM4	2	9:15	10:15	Sunny	normal operation	12.0	765.0	129.9
Jan-04	30-Jan-04	AM4	3	10:15	11:15	Sunny	normal operation	12.0	765.0	132.7
Jan-04	30-Jan-04	AM5	1	8:13	9:13	Sunny	normal operation	12.0	765.0	142.9
Jan-04	30-Jan-04	AM5	2	9:13	10:13	Sunny	normal operation	12.0	765.0	145.5
Jan-04	30-Jan-04	AM5	3	10:13	11:13	Sunny	normal operation	12.0	765.0	146.4
Jan-04	30-Jan-04	AM6	1	8:27	9:27	Sunny	normal operation	12.0	765.0	127.1
Jan-04	30-Jan-04	AM6	2	9:27	10:27	Sunny	normal operation	12.0	765.0	131.4
Jan-04	30-Jan-04	AM6	3	10:27	11:27	Sunny	normal operation	12.0	765.0	132.7
Feb-04	02-Feb-04	AM2	1	13:06	14:06	Sunny	normal operation	16.0	765.0	215.7
Feb-04	02-Feb-04	AM2	2	14:06	15:06	Sunny	normal operation	16.0	765.0	229.8
Feb-04	02-Feb-04	AM2	3	15:06	16:06	Sunny	normal operation	16.0	765.0	236.0
Feb-04	02-Feb-04	AM3	1	13:11	14:11	Sunny	normal operation	16.0	765.0	203.8
Feb-04	02-Feb-04	AM3	2	14:11	15:11	Sunny	normal operation	16.0	765.0	207.1
Feb-04	02-Feb-04	AM3	3	15:11	16:11	Sunny	normal operation	16.0	765.0	214.6
Feb-04	02-Feb-04	AM4	1	13:16	14:16	Sunny	normal operation	16.0	765.0	208.3
Feb-04	02-Feb-04	AM4	2	14:16	15:16	Sunny	normal operation	16.0	765.0	210.8
Feb-04	02-Feb-04	AM4	3	15:16	16:16	Sunny	normal operation	16.0	765.0	212.6
Feb-04	02-Feb-04	AM5	1	13:19	14:19	Sunny	normal operation	16.0	765.0	208.4
Feb-04	02-Feb-04	AM5	2	14:19	15:19	Sunny	normal operation	16.0	765.0	215.7
Feb-04	02-Feb-04	AM5	3	15:19	16:19	Sunny	normal operation	16.0	765.0	222.1
Feb-04	02-Feb-04	AM6	1	13:23	14:23	Sunny	normal operation	16.0	765.0	203.1
Feb-04	02-Feb-04	AM6	2	14:23	15:23	Sunny	normal operation	16.0	765.0	205.3
Feb-04	02-Feb-04	AM6	3	15:23	16:23	Sunny	normal operation	16.0	765.0	210.6
Feb-04	11-Feb-04	AM2	1	8:55	9:55	Sunny	normal operation	18.0	765.0	176.4
Feb-04	11-Feb-04	AM2	2	9:55	10:55	Sunny	normal operation	18.0	765.0	179.1
Feb-04	11-Feb-04	AM2	3	10:55	11:55	Sunny	normal operation	18.0	765.0	180.5
Feb-04	11-Feb-04	AM3	1	8:59	9:59	Sunny	normal operation	18.0	765.0	195.2
Feb-04	11-Feb-04	AM3	2	9:59	10:59	Sunny	normal operation	18.0	765.0	195.5
Feb-04	11-Feb-04	AM3	3	10:59	11:59	Sunny	normal operation	18.0	765.0	198.5
Feb-04	11-Feb-04	AM4	1	8:53	9:53	Sunny	normal operation	18.0	765.0	181.3
Feb-04	11-Feb-04	AM4	2	9:53	10:53	Sunny	normal operation	18.0	765.0	186.6
Feb-04	11-Feb-04	AM4	3	10:53	11:53	Sunny	normal operation	18.0	765.0	188.6
Feb-04	11-Feb-04	AM5	1	8:14	9:14	Sunny	normal operation	18.0	765.0	185.2
Feb-04	11-Feb-04	AM5	2	9:14	10:14	Sunny	normal operation	18.0	765.0	195.9
Feb-04	11-Feb-04	AM5	3	10:14	11:14	Sunny	normal operation	18.0	765.0	200.2
Feb-04	11-Feb-04	AM6	1	8:20	9:20	Sunny	normal operation	18.0	765.0	187.6
Feb-04	11-Feb-04	AM6	2	9:20	10:20	Sunny	normal operation	18.0	765.0	192.5
Feb-04	11-Feb-04	AM6	3	10:20	11:20	Sunny	normal operation	18.0	765.0	194.1
Feb-04	19-Feb-04	AM2	1	8:14	9:14	Sunny	normal operation	20.0	766.0	194.3
Feb-04	19-Feb-04	AM2	2	9:14	10:14	Sunny	normal operation	20.0	766.0	188.8
Feb-04	19-Feb-04	AM2	3	10:14	11:14	Sunny	normal operation	20.0	766.0	186.0
Feb-04	19-Feb-04	AM3	1	8:44	9:44	Sunny	normal operation	20.0	766.0	210.5
Feb-04	19-Feb-04	AM3	2	9:44	10:44	Sunny	normal operation	20.0	766.0	205.5
Feb-04	19-Feb-04	AM3	3	10:44	11:44	Sunny	normal operation	20.0	766.0	199.9
Feb-04	19-Feb-04	AM4	1	8:50	9:50	Sunny	normal operation	20.0	766.0	207.8
Feb-04	19-Feb-04	AM4	2	9:50	10:50	Sunny	normal operation	20.0	766.0	204.3
Feb-04	19-Feb-04	AM4	3	10:50	11:50	Sunny	normal operation	20.0	766.0	197.5
Feb-04	19-Feb-04	AM5	1	8:31	9:31	Sunny	normal operation	20.0	766.0	203.3
Feb-04	19-Feb-04	AM5	2	9:31	10:31	Sunny	normal operation	20.0	766.0	199.3
Feb-04	19-Feb-04	AM5	3	10:31	11:31	Sunny	normal operation	20.0	766.0	200.0
Feb-04	19-Feb-04	AM6	1	8:20	9:20	Sunny	normal operation	20.0	766.0	214.0
Feb-04	19-Feb-04	AM6	2	9:20	10:20	Sunny	normal operation	20.0	766.0	207.8
Feb-04	19-Feb-04	AM6	3	10:20	11:20	Sunny	normal operation	20.0	766.0	200.4

Details of 1-Hour TSP Monitoring

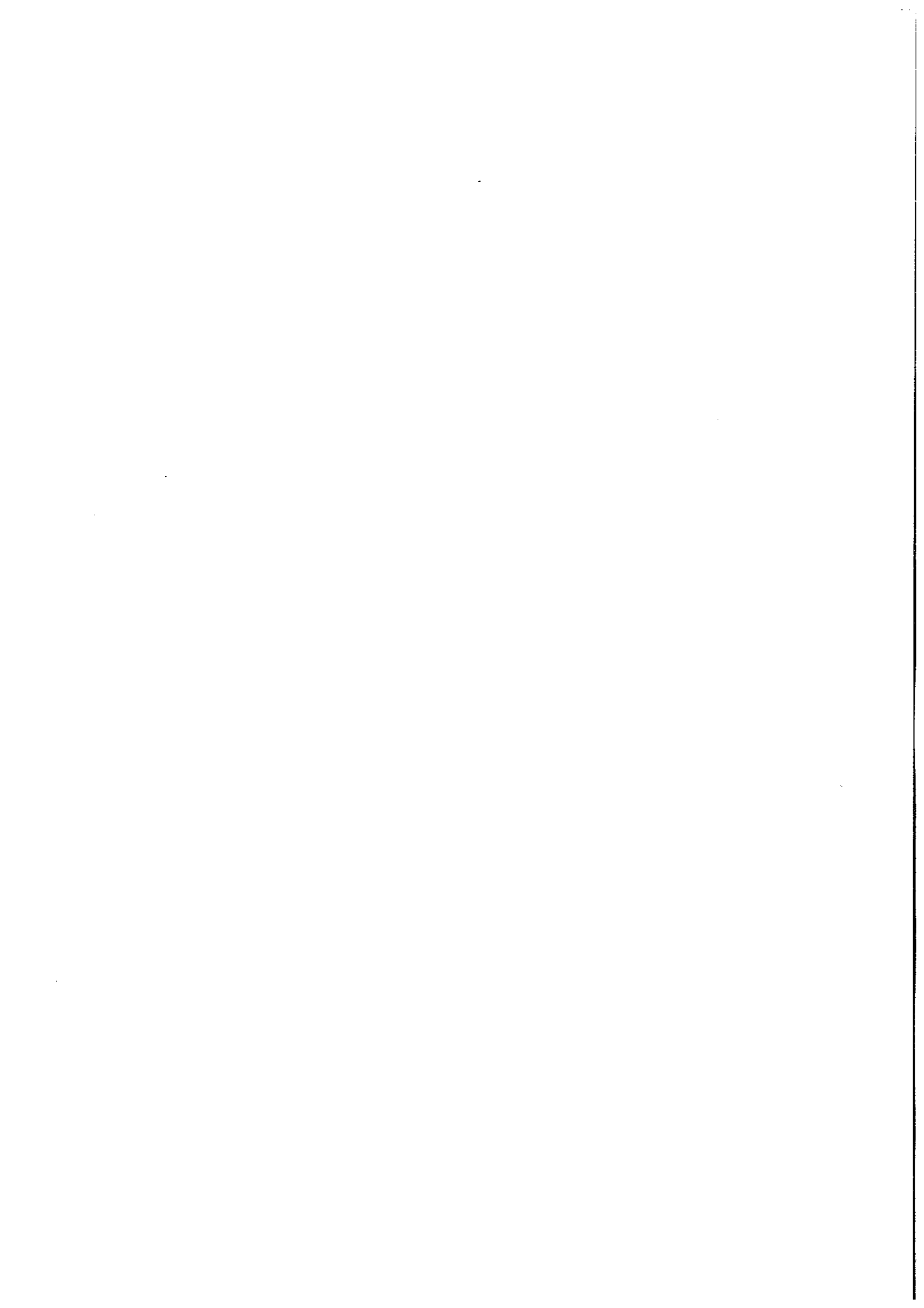
Month	Date	Receptor No.	Set No.	Time periods		Weather condition	Site condition	Temp. (°C)	Pressure (mmHg)	1-hour TSP Level (µg/g ³)
				Start	Finish					
Feb-04	25-Feb-04	AM2	1	8:52	9:52	Sunny	normal operation	24.0	766.0	219.7
Feb-04	25-Feb-04	AM2	2	9:52	10:52	Sunny	normal operation	24.0	766.0	209.2
Feb-04	25-Feb-04	AM2	3	10:52	11:52	Sunny	normal operation	24.0	766.0	211.0
Feb-04	25-Feb-04	AM3	1	8:51	9:51	Sunny	normal operation	24.0	766.0	200.3
Feb-04	25-Feb-04	AM3	2	9:51	10:51	Sunny	normal operation	24.0	766.0	200.2
Feb-04	25-Feb-04	AM3	3	10:51	11:51	Sunny	normal operation	24.0	766.0	200.6
Feb-04	25-Feb-04	AM4	1	8:46	9:46	Sunny	normal operation	24.0	766.0	204.1
Feb-04	25-Feb-04	AM4	2	9:46	10:46	Sunny	normal operation	24.0	766.0	206.6
Feb-04	25-Feb-04	AM4	3	10:46	11:46	Sunny	normal operation	24.0	766.0	206.4
Feb-04	25-Feb-04	AM5	1	8:48	9:48	Sunny	normal operation	24.0	766.0	206.5
Feb-04	25-Feb-04	AM5	2	9:48	10:48	Sunny	normal operation	24.0	766.0	204.5
Feb-04	25-Feb-04	AM5	3	10:48	11:48	Sunny	normal operation	24.0	766.0	202.0
Feb-04	25-Feb-04	AM6	1	8:50	9:50	Sunny	normal operation	24.0	766.0	196.1
Feb-04	25-Feb-04	AM6	2	9:50	10:50	Sunny	normal operation	24.0	766.0	199.3
Feb-04	25-Feb-04	AM6	3	10:50	11:50	Sunny	normal operation	24.0	766.0	199.7
Mar-04	02-Mar-04	AM2	1	8:57	9:57	cloudy	normal operation	16.0	765.0	154.6
Mar-04	02-Mar-04	AM2	2	9:57	10:57	cloudy	normal operation	16.0	765.0	154.2
Mar-04	02-Mar-04	AM2	3	10:57	11:57	cloudy	normal operation	16.0	765.0	155.7
Mar-04	02-Mar-04	AM3	1	8:21	9:21	cloudy	normal operation	16.0	765.0	198.7
Mar-04	02-Mar-04	AM3	2	9:21	10:21	cloudy	normal operation	16.0	765.0	200.7
Mar-04	02-Mar-04	AM3	3	10:21	11:21	cloudy	normal operation	16.0	765.0	207.0
Mar-04	02-Mar-04	AM4	1	8:53	9:53	cloudy	normal operation	16.0	765.0	185.9
Mar-04	02-Mar-04	AM4	2	9:53	10:53	cloudy	normal operation	16.0	765.0	185.6
Mar-04	02-Mar-04	AM4	3	10:53	11:53	cloudy	normal operation	16.0	765.0	185.0
Mar-04	02-Mar-04	AM5	1	8:21	9:21	cloudy	normal operation	16.0	765.0	196.3
Mar-04	02-Mar-04	AM5	2	9:21	10:21	cloudy	normal operation	16.0	765.0	193.0
Mar-04	02-Mar-04	AM5	3	10:21	11:21	cloudy	normal operation	16.0	765.0	190.4
Mar-04	02-Mar-04	AM6	1	8:58	9:58	cloudy	normal operation	16.0	765.0	172.4
Mar-04	02-Mar-04	AM6	2	9:58	10:58	cloudy	normal operation	16.0	765.0	172.0
Mar-04	02-Mar-04	AM6	3	10:58	11:58	cloudy	normal operation	16.0	765.0	169.9
Mar-04	04-Mar-04	AM2	1	8:07	9:07	Sunny	normal operation	20.0	765.0	173.2
Mar-04	04-Mar-04	AM2	2	9:07	10:07	Sunny	normal operation	20.0	765.0	169.2
Mar-04	04-Mar-04	AM2	3	10:07	11:07	Sunny	normal operation	20.0	765.0	173.2
Mar-04	04-Mar-04	AM3	1	13:00	14:00	Sunny	normal operation	18.0	765.0	182.5
Mar-04	04-Mar-04	AM3	2	14:00	15:00	Sunny	normal operation	18.0	765.0	178.1
Mar-04	04-Mar-04	AM3	3	15:00	16:00	Sunny	normal operation	18.0	765.0	180.0
Mar-04	04-Mar-04	AM4	1	13:06	14:06	Sunny	normal operation	18.0	765.0	190.2
Mar-04	04-Mar-04	AM4	2	14:06	15:06	Sunny	normal operation	18.0	765.0	186.7
Mar-04	04-Mar-04	AM4	3	15:06	16:06	Sunny	normal operation	18.0	765.0	186.8
Mar-04	04-Mar-04	AM5	1	13:21	14:21	Sunny	normal operation	18.0	765.0	192.0
Mar-04	04-Mar-04	AM5	2	14:21	15:21	Sunny	normal operation	18.0	765.0	188.0
Mar-04	04-Mar-04	AM5	3	15:21	16:21	Sunny	normal operation	18.0	765.0	188.9
Mar-04	04-Mar-04	AM6	1	13:28	14:28	Sunny	normal operation	18.0	765.0	187.4
Mar-04	04-Mar-04	AM6	2	14:28	15:28	Sunny	normal operation	18.0	765.0	185.3
Mar-04	04-Mar-04	AM6	3	15:28	16:28	Sunny	normal operation	18.0	765.0	184.8
Mar-04	09-Mar-04	AM2	1	9:42	10:42	Sunny	normal operation	20.0	765.0	183.2
Mar-04	09-Mar-04	AM2	2	10:42	11:42	Sunny	normal operation	20.0	765.0	193.1
Mar-04	09-Mar-04	AM2	3	13:32	14:32	Sunny	normal operation	20.0	765.0	181.1
Mar-04	09-Mar-04	AM3	1	9:30	10:30	Sunny	normal operation	20.0	765.0	210.2
Mar-04	09-Mar-04	AM3	2	10:30	11:30	Sunny	normal operation	20.0	765.0	217.3
Mar-04	09-Mar-04	AM3	3	13:30	14:30	Sunny	normal operation	20.0	765.0	207.3
Mar-04	09-Mar-04	AM4	1	9:34	10:34	Sunny	normal operation	20.0	765.0	214.3
Mar-04	09-Mar-04	AM4	2	10:34	11:34	Sunny	normal operation	20.0	765.0	227.0
Mar-04	09-Mar-04	AM4	3	13:34	14:34	Sunny	normal operation	20.0	765.0	215.8
Mar-04	09-Mar-04	AM5	1	15:36	16:36	Sunny	normal operation	20.0	765.0	192.5
Mar-04	09-Mar-04	AM5	2	16:36	17:36	Sunny	normal operation	20.0	765.0	194.2
Mar-04	09-Mar-04	AM5	3	17:36	18:36	Sunny	normal operation	20.0	765.0	194.8
Mar-04	09-Mar-04	AM6	1	13:09	14:09	Sunny	normal operation	20.0	765.0	238.2
Mar-04	09-Mar-04	AM6	2	14:09	15:09	Sunny	normal operation	20.0	765.0	237.5
Mar-04	09-Mar-04	AM6	3	15:09	16:09	Sunny	normal operation	20.0	765.0	236.1

Details of 1-Hour TSP Monitoring

Month	Date	Receptor No.	Set No.	Time periods		Weather condition	Site condition	Temp. (°C)	Pressure (mmHg)	1-hour TSP Level (µg/g ³)
				Start	Finish					
Mar-04	15-Mar-04	AM2	1	8:36	9:36	Sunny	normal operation	19.0	765.0	188.0
Mar-04	15-Mar-04	AM2	2	9:36	10:36	Sunny	normal operation	19.0	765.0	190.1
Mar-04	15-Mar-04	AM2	3	10:36	11:36	Sunny	normal operation	19.0	765.0	191.3
Mar-04	15-Mar-04	AM3	1	8:25	9:25	Sunny	normal operation	19.0	765.0	188.5
Mar-04	15-Mar-04	AM3	2	9:25	10:25	Sunny	normal operation	19.0	765.0	191.5
Mar-04	15-Mar-04	AM3	3	10:25	11:25	Sunny	normal operation	19.0	765.0	192.0
Mar-04	15-Mar-04	AM4	1	8:55	9:55	Sunny	normal operation	19.0	765.0	177.5
Mar-04	15-Mar-04	AM4	2	9:55	10:55	Sunny	normal operation	19.0	765.0	180.0
Mar-04	15-Mar-04	AM4	3	10:55	11:55	Sunny	normal operation	19.0	765.0	180.8
Mar-04	15-Mar-04	AM5	1	9:15	10:15	Sunny	normal operation	19.0	765.0	195.3
Mar-04	15-Mar-04	AM5	2	10:15	11:15	Sunny	normal operation	19.0	765.0	197.0
Mar-04	15-Mar-04	AM5	3	11:15	12:15	Sunny	normal operation	19.0	765.0	196.8
Mar-04	15-Mar-04	AM6	1	8:34	9:34	Sunny	normal operation	19.0	765.0	201.2
Mar-04	15-Mar-04	AM6	2	9:34	10:34	Sunny	normal operation	19.0	765.0	202.2
Mar-04	15-Mar-04	AM6	3	10:34	11:34	Sunny	normal operation	19.0	765.0	200.7
Mar-04	26-Mar-04	AM2	1	10:56	11:56	cloudy	normal operation	18.0	764.0	116.2
Mar-04	26-Mar-04	AM2	2	13:01	14:01	cloudy	normal operation	18.0	764.0	114.4
Mar-04	26-Mar-04	AM2	3	14:01	15:01	cloudy	normal operation	18.0	764.0	140.2
Mar-04	26-Mar-04	AM3	1	10:57	11:57	cloudy	normal operation	18.0	764.0	117.6
Mar-04	26-Mar-04	AM3	2	13:22	14:22	cloudy	normal operation	18.0	764.0	130.5
Mar-04	26-Mar-04	AM3	3	14:22	15:22	cloudy	normal operation	18.0	764.0	174.5
Mar-04	26-Mar-04	AM4	1	13:04	14:04	cloudy	normal operation	18.0	764.0	98.3
Mar-04	26-Mar-04	AM4	2	14:04	15:04	cloudy	normal operation	18.0	764.0	143.6
Mar-04	26-Mar-04	AM4	3	15:04	16:04	cloudy	normal operation	18.0	764.0	160.4
Mar-04	26-Mar-04	AM5	1	13:01	14:01	cloudy	normal operation	18.0	764.0	133.3
Mar-04	26-Mar-04	AM5	2	14:01	15:01	cloudy	normal operation	18.0	764.0	144.6
Mar-04	26-Mar-04	AM5	3	15:01	16:01	cloudy	normal operation	18.0	764.0	161.5
Mar-04	26-Mar-04	AM6	1	13:50	14:50	cloudy	normal operation	18.0	764.0	150.3
Mar-04	26-Mar-04	AM6	2	14:50	15:50	cloudy	normal operation	18.0	764.0	151.5
Mar-04	26-Mar-04	AM6	3	15:50	16:50	cloudy	normal operation	18.0	764.0	170.6

APPENDIX 4

Correspondences of the Public Complaints from January 2004 to March 2004



OUR REF: EP 580/E6/3/9
YOUR REF:
TEL NO: 2158 5823
FAX NO: 2685 1155
E-MAIL:
Homepage: <http://www.info.gov.hk/epd/>

Environmental Protection Department
Local Control Office/Territory North
10/F, Sha Tin Government Offices,
No. 1 Sheung Wo Che Road,
Sha Tin, New Territories,
Hong Kong.



環境保護署
污染管制辦事處
(新界北)
香港新界沙田
上水壩路一號
沙田政府合署 10 樓

2 January 2004

23156 Ove Arup & Partners Hong Kong Limited
Level 5 Festival Walk,
80 Tat Chee Avenue,
Kowloon Tong,
Kowloon,
Hong Kong
(Attn: Mr Sam Tsoi)

ST FL AC
ST FL AC

By Fax Only
(Fax : 2865 6493)
Total 2 pages

Dear Sir,

Sha Tin New Town Stage II Contract No. ST 86/2000
Construction of Road T7 in Ma On Shan
Public Complaint

I refer to the captioned project, for which you hold the position of Environmental Team Leader.

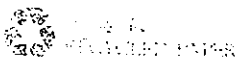
Enclosed please find some particulars of a public complaint made on the date shown in the enclosure. The Environmental Team and all relevant parties in the c.c. list below should take actions to rectify the situation. Please arrange additional noise monitoring at locations near the concerned construction site and report the outcome of the actions to us within 2 weeks.

Yours faithfully,

(Jack KAN)
Environmental Protection Officer
for Director of Environmental Protection

Encl.

c.c. (all w/e) TDD (Attn: Mr. Felix Yung Fax.: 2721 8630)
Maunsell (Attn: Mr. Albert Lam Fax.: 2643 3559)
CHEC (Attn: Mr. Chan Man Fax.: 2492 3701)



NOTICE OF COMPLAINT

Complaint Ref. : N01/TN/00000008-04

EPIC Ref:

EPIC URL:

CASE DETAILS

(1) Incident Date/Time: 02/01/2004

(2) Incident Location : Monte Vista,
Sha Tin

地址 : 翠擁华庭,

(3) TPU : 757

(4) Description : COMPLAINT OF DAY TIME CONSTRUCTION NOISE FROM A CONSTRUCTION SITE OF T7 AFFECTING THE RESIDENTS OF MONTE VISTA, SHA TIN

(5) Nature	(6) Affected Party	(7) Pollution Pattern
N80-Day time construction noise	DMS-Domestic Premises	C-Continuous, D-Day Time, W-Weekday

(8) Priority class : C - Routine i.e. substantive reply to be made on or before 23/01/2004

DETAILS OF THE SUSPECTED POLLUTER

(1) Premises Name : UNKNOWN

姓名 : 不知名

(2) Premises Address :

地址 :

(3) Business Type : 511 - Construction site except renovation

COMPLAINT CASE(S) NEAR INCIDENT LOCATION

<u>Complaint Ref.</u>	<u>Cpt. Received Date</u>	<u>Sub. Reply Date</u>	<u>Nature Code</u>	<u>Nature Description</u>
N01/TN/000			N66	
N01/TN/000			N66	
N01/TN/000			A42	
N01/TN/000			N79	

COMPLAINANT

(1) Name : Mr

(2) Tel. No. : Day :

Night :

Mobile:

(3) Address :

地址 :

(4) Email Address :

CHANNEL OF COMPLAINT

Source channel: 01 - Phone

Source code : P - Public

Remarks :

先生投訴T7公路的工程,發出很大的噪音,嚴重滋擾翠擁华庭的居民,要求地盤加建隔音的設備,以減低聲浪,要求環保署跟進

ACTION OFFICERS

	Nature Code	SEPO	EPO	CI
Coordinator	N80	S[TN]2		CI[TN]2

CASE INPUTTED BY

Name : HAUE3

Date : 02/01/2004

Time : 09:28

Maunsell Consultants Asia Ltd

茂盛(亞洲)工程顧問有限公司

0/F., Grand Central Plaza, Tower 2
138 Shatin Rural Committee Road
Sha Tin, N.T., Hong Kong
香港新界沙田鄉事會路138號
新城市中央廣場第2座8樓

Tel (852) 2605 6262
Fax (852) 2691 2649
www.maunsell.com.hk

Maunsell

Chief Resident Engineer's Office
Trunk Road T7
7 Lok Wo Sha Lanc, Ma On Shan
Telephone : 2643 9020
Fax : 2643 3559
E-mail : t7cso@netvigator.com

Your Ref.: EP 580/B6/3/9
Our Ref. : T7/(ST86/2000)/M05/412(269)

13 January 2004

Environmental Protection Department
Local Control Office/Territory North
10/F, Sha Tin Government Offices,
No. 1 Sheung Wo Che Road,
Sha Tin, N.T. Hong Kong.

Attn: Mr. Jack KAN

Dear Sirs,

Shatin New Town Stage II
Contract No. ST86/2000
Construction of Road T7 in Ma On Shan
Environmental Complaint EC-72
Public Complaint – Daytime Construction Noise

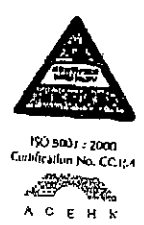
I refer to your letter of 2 January 2004 containing a complaint from a resident of Monte Vista on the daytime construction noise generated from the work under the captioned Contract.

Apparently, as measured under the EM&A programme, the construction noise levels have always been below the allowable level. However, the Contractor was willing to put up additional temporary noise barriers in the areas near Monte Vista. Also, sound absorbing material had been wrapped round the breakers in order to further reduce the noise impact during operation. A record of the noise measurement for the period between 03/01/2004 and 08/01/2004 is attached herewith for your reference. A photo showing the additional noise barrier is also attached for your information.

ARUP ACOUSTICS		File No.	23156
Master Ref.	EP-726	Project Ref.	
Reply Ref.			
Action Required			
Received 13 JAN 2004			
Init.	ST	FL	Je
Action			
Info.	ST	A	Je
Copy			

12...

CHAIRMAN: I S Y BONG, MANAGING DIRECTOR: D S LO, EXECUTIVE DIRECTORS: R D TAYLOR, M K C LAU, D C S HUI, C J ENDICOTT, C W Y WONG, E K H CHAN, F H Y NG, A K W LI, M C PEARSON, S A ROBINSON, K Y WONG, F S K YAN, K L WONG, S H K SHAM, H C PANG, D S SIU, A Y KWOK, L S CHAN, K K H TSANG
ASSOCIATES: P K YING, A S POON, P T ANSON, C A JOHNSON, W K H CHAN, C H T SO, J Y LING, C C W NG, T K S TANG, R J MICKLE, P M CHIEF, H C CHEUNG
OFFICES: AUSTRALIA, CANADA, CHINA, DENMARK, EGYPT, SAUDI ARABIA, GREECE, HONG KONG, INDIA, INDONESIA, ISRAEL, JAPAN, MALAYSIA, NETHERLANDS, OMAN, PHILIPPINES, POLAND, PUERTO RICO, ROMANIA, QATAR, SINGAPORE, SOUTH KOREA, THAILAND, UNITED ARAB EMIRATES, UNITED KINGDOM, UNITED STATES OF AMERICA, VIETNAM
MAUNSELL GROUP • HONG KONG / CHINA / SINGAPORE CHIEF EXECUTIVE: T C K SHUM



AN AECOM COMPANY

- 2 -

I trust that the complainant should be satisfied with the mitigation measures provided by the Contractor.

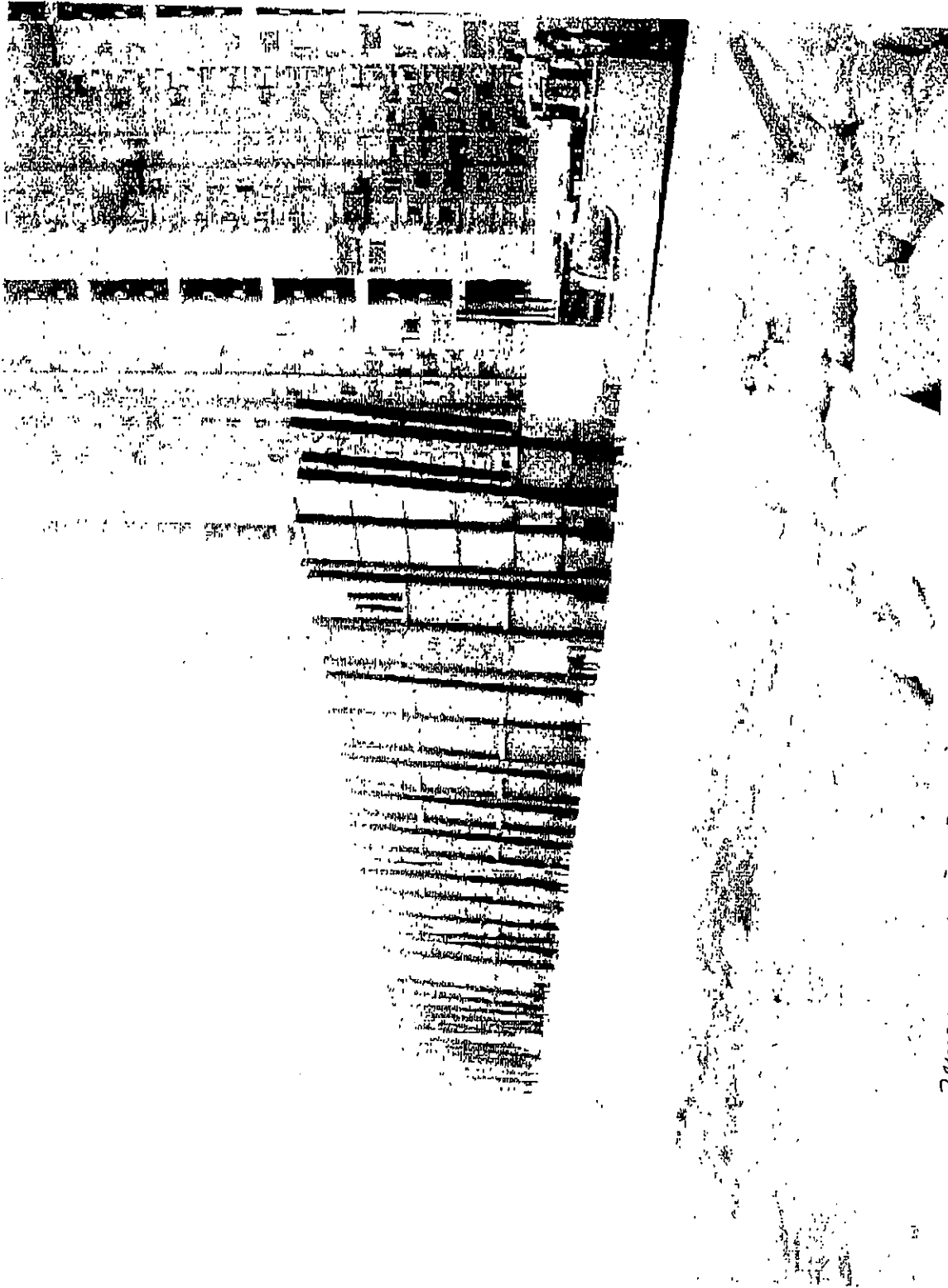
Yours faithfully,



Allan Poon
Senior Resident Engineer

AP:sci

cc : PM/NTE (Attn.: Mr. Felix Yung)
OAP (Attn.: Mr. Fredick Leong)
MCAL (Attn: Mr. Thomas Chan)
CHEC - HO



Temporary Noise Barrier around Monte Vista

本署編號
 OUR RFS: EP 580/E6/3/9
 來函編號
 YOUR REF:
 電話
 TEL NO.: 2158 5823
 圖文傳真
 FAX NO.: 2685 1155
 電子郵件
 E-MAIL:
 網址
 Homepage: <http://www.info.gov.hk/epd/>

Environmental Protection Department
Local Control Office/Territory North
 10/F, Sha Tin Government Offices,
 No. 1 Sheung Wo Che Road,
 Sha Tin, New Territories,
 Hong Kong.



環境保護署
 污染管制辦事處
 (新界北)
 香港新界沙田
 上禾輋路一號
 沙田政府合署 10 樓

6 January 2004

Ove Arup & Partners Hong Kong Limited
 Level 5 Festival Walk,
 80 Tat Chee Avenue,
 Kowloon Tong,
 Kowloon,
 Hong Kong

(Attn: Mr Sam Tso)

ARUP ACOUSTICS		File No. 23156
Master Ref. EP 7206	Project Ref.	Date
Reply Ref.		
Action Required.		
Received	- 7 JAN 2004	By Fax Only
		(Fax : 2865 6493)
inits.	ST FL AE	Total 2 pages
Action		
Info.	ST / A AE	
Copy		

Dear Sir,

Sha Tin New Town Stage II Contract No. ST 86/2000
 Construction of Road T7 in Ma On Shan
Public Complaint

I refer to the captioned project, for which you hold the position of Environmental Team Leader.

Enclosed please find some particulars of a public complaint made on the date shown in the enclosure. The Environmental Team and all relevant parties in the c.c. list below should take actions to rectify the situation. Please report the outcome of the actions to us within 2 weeks.

Yours faithfully,

(Jack KAN)
 Environmental Protection Officer
 for Director of Environmental Protection

Encl.

c.c. (all w/e) TDD
 Maunsell
 CHEC

(Attn: Mr. Felix Yung
 (Attn: Mr. Albert Lam
 (Attn: Mr. Chan Man

Fax.: 2721 8630
 Fax.: 2643 3559
 Fax.: 2492 3701



NOTICE OF COMPLAINT

Complaint Ref.: N01/TN00000315-04

EPIC Ref:

EPIC URL:

CASE DETAILS

(1) Incident Date/Time: 06/01/2004 09:06

(2) Incident Location: Monte Vista, Sha Tin

地址: 蒙提華庭

(3) TPU: 757

(4) Description: COMPLAINT OF SUNDAY CONSTRUCTION NOISE FROM THE T7 CONSTRUCTION SITE NEAR MONTE VISTA, SHA TIN

(5) Nature (6) Affected Party (7) Pollution Pattern

N66-General construction noise except renovation	DMS-Domestic Premises	
--	-----------------------	--

(8) Priority class: C - Routine i.e. substantive reply to be made on or before 27/01/2004

DETAILS OF THE SUSPECTED POLLUTER

(1) Premises Name: UNKNOWN

姓名: 不知名

(2) Premises Address:

地址:

(3) Business Type: 511 - Construction site except renovation

COMPLAINT CASE(S) NEAR INCIDENT LOCATION

Complaint Ref.	Cpt. Received Date	Sub. Reply Date	Nature Code	Nature Description
----------------	--------------------	-----------------	-------------	--------------------

COMPLAINANT

(1) Name:

(2) Tel. No.: Day:

Night:

Mobile:

(3) Address:

地址:

(4) Email Address:

CHANNEL OF COMPLAINT

Source channel: 01 - Phone

Source code: P - Public

Remarks: 投訴上址T7公路的地盤, 週六於星期日, 早上8:00開始有工程進行, 產生強勁噪音, 擾民並沒有許可, 要求EPD儘快跟進!

ACTION OFFICERS

	Nature Code	SEPO	EPO	CI
Coordinator	N66	S(TN)2		CI(TN)2

CASE INPUTTED BY Name: HAUEI

Date: 06/01/2004

Time: 09:26

As least from the complaint, he was annoyed by ^① noise from tractors and trailers, ^② hammering, and ^③ machine noise from T7 construction site.

Maunsell Consultants Asia Ltd
 茂盛(亞洲)工程顧問有限公司

Maunsell

Chief Resident Engineer's Office
 Trunk Road T7
 7 Lok Wo Sha Lane, Ma On Shan
 Telephone : 2643 9020
 Fax : 2643 3559

B/F., Grand Central Plaza, Tower 2
 138 Shatin Rural Committee Road
 Sha Tin, N.T., Hong Kong
 香港新界沙田鄉事會路138號
 新城市中央廣場第2座8樓

B-mail : t7cso@netvigator.com

Tel (852) 2605 6262
 Fax (852) 2691 2649
 www.maunsell.com.hk

Your Ref.: EP 580/E6/3/9
 Our Ref. : T7(ST86/2000)/M05/412(0267)

13 January 2004

Environmental Protection Department
Local Control Office/ Territory North
 10/F, Sha Tin Government Offices,
 No.1 Sheung Wo Che Road,
 Sha Tin, New Territories, Hong Kong.

By Fax & Post
(Fax: 2685 1155)

Attn: Mr. Jack KAN

Dear Sirs,

Shatin New Town Stage II
Contract No. ST86/2000
Construction of Road T7 in Ma On Shan
Environmental Complaint EC-73
Public Complaint – Construction Noise on Sunday

I refer to your letter of 6 January 2004 with a complaint from a resident of Monte Vista, regarding construction activities at 8 a.m. on Sundays and querying on the applicable Construction Noise Permit.

We note from the Contractor that, in the last few Sundays, work was carried out on Bridges TC5 and TC6 for the disassembly of parapet formwork; this included loosening formwork bolts with hand tools and chain blocks. The powered mechanical equipment used was a generator within an enclosure on Bridge TC4. These were allowed under Construction Noise Permit No. GW-TN0329-03. A copy of this Permit is attached herewith for your information.

In view of the complaint, we have advised the Contractor to instruct his workers to restrain from generating excessive noise that will be considered as a nuisance to the nearby residents.

LAND ACoustics		File No. 23156
Master Ref. <i>EP 580</i>	Project Ref.:	
Reply Ref.:	Date:	
Action Required:		
Received 13 JAN 2004		
Initis. <i>ST</i>	<i>FL</i>	<i>Ae</i>
Action		
Info.	<i>ST</i>	<i>FL</i>
Copy		<i>AE</i>

Yours faithfully,

Allan Poon
Allan Poon
 Senior Resident Engineer

AP:li
 Encl.

- cc : PM/NTE, TDD - Attn: Mr. Felix Yung
- OAP - Attn: Mr. Fredick Leong
- MCAL - Attn: Mr. Thomas Chan

CHAIRMAN : T S Y BONG, MANAGING DIRECTOR : D S LI, EXECUTIVE DIRECTORS : R D TAYLOR, M K C LAI, D C S ILL, J L ENDICOTT, C W I WONG, E K H CHAN, F H Y NG, A K W LI, M C PEARSON, S A ROBERTSON, F Y WONG, S K YAN, K L WONG, S H R SHAM, H C PANG, D S LU, A Y KWOK, L S L MA, K K H TSANG, CONSULTANTS : A HAMILTON, P K T FEUNG, J C M CHIU, ASSOCIATES : Y K YUNG, A S INOON, P C ANSON, C A JOHNSON, W K H CHAN, CH T SO, J Y LING, C C W HU, I K S IANG, R J MICKELL, P M CHEEK, N C CHUNG, OFFICES : AUSTRALIA, CANADA, CHINA, DENMARK, EGYPT, GAZA, GREECE, HONG KONG, INDIA, INDONESIA, IRELAND, ISRAEL, MALAYSIA, NETHERLANDS, OMAN, PHILIPPINES, POLAND, PUERTO RICO, ROMANIA, QATAR, SINGAPORE, SOUTH KOREA, THAILAND, UNITED ARAB EMIRATES, UNITED KINGDOM, UNITED STATES OF AMERICA, VIETNAM, MAUNSELL GROUP - HONG KONG / CHINA / SINGAPORE CHIEF EXECUTIVE: T C S SIU



NOISE CONTROL ORDINANCE

(Chapter 400)

SECTION 8(9)

**CONSTRUCTION NOISE PERMIT FOR THE USE OF POWERED
MECHANICAL EQUIPMENT FOR THE PURPOSE OF CARRYING OUT
CONSTRUCTION WORK OTHER THAN PERCUSSIVE PILING AND/OR
THE CARRYING OUT OF PRESCRIBED CONSTRUCTION WORK**

CONSTRUCTION NOISE PERMIT NO. GW-TN0329-03To: China Harbour Engineering Company (Group)

This construction noise permit is issued in accordance with section 8 of the Noise Control Ordinance. Permission is granted for the use of powered mechanical equipment for the purpose of carrying out construction work other than percussive piling and/or the carrying out of prescribed construction work, subject to the conditions set out below. The carrying out of construction work otherwise than in accordance with the conditions may result in the permit being cancelled and in a prosecution for an offence.

CONDITIONS

1. Construction site where the powered mechanical equipment and/or prescribed construction work may be employed :

Full address : Bridge TC3, TC4, TC5 and TC6 of Construction of Trunk Road T7, Ma On Shan, N.T.Lot No. -----

The site boundary, that is, the boundary of the area within which the powered mechanical equipment may be used and the prescribed construction work may be carried out is delineated on the attached plan which forms part of this construction noise permit.

2. *PART/
- ~~WHOLE~~
- of the site falls *
- ~~WITHIN/OUTSIDE~~
- a designated area

3. Powered Mechanical Equipment

- a. Items of powered mechanical equipment which may be used inside the site boundary :

<i>Identification code of item of powered mechanical equipment (if applicable)</i>	<i>Description of item of Powered mechanical equipment</i>	<i>No. of units</i>
	Refer to attached sheet	

- b. Validity of the construction noise permit for the use of the powered mechanical equipment:

Date and time of commencement : 24 September 2003 At 0700 hoursDays and hours : General holiday including Sunday between 0700 and 2300 hours and any day not being a general holiday including Sunday between 1900 and 2300 hours.This part of the permit expires on : 23 March 2004 At 2300 hours

- c. One photograph, endorsed by the Authority, of each item of powered mechanical equipment described in this construction noise permit is required to be kept on the construction site and made available for inspection by the Authority.

- d. Other conditions imposed on the use of the powered mechanical equipment:

Refer to attached sheet.

a. Type of prescribed construction work which may be carried out inside the site boundary:

Identification code of type of prescribed construction work	Description of type of Prescribed construction work
	NIL

b. Validity of the construction noise permit for the carrying out of the prescribed construction work:

Date and time of commencement: Not applicable at Not applicable

Days and hours: Not applicable

This part of the permit expires on: Not applicable at Not applicable

c. Site layout plan(s), endorsed by the Authority, may be attached with the permit to indicate the locations permitted for the carrying out of prescribed construction work described in this permit. The layout plan(s) is(are) required to be kept on the construction site and made available for inspection by the Authority.

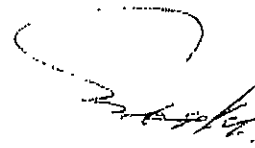
d. Other conditions imposed on the carrying out of the prescribed construction work:

Not applicable

5. This construction noise permit or a copy thereof must be displayed on the construction site at All vehicular site entrances and exits for public information at all times when the powered mechanical equipment covered by this permit are being used for carrying out construction work.

Dated this 22nd Day of September 2003

Signed: _____



(SZETO Wing-kwok)

For Authority

* Delete as necessary

Sheet Attached to Construction
Noise Permit No. GW-TN0329-03

3a. Items of powered mechanical equipment which may be used inside the site boundary:

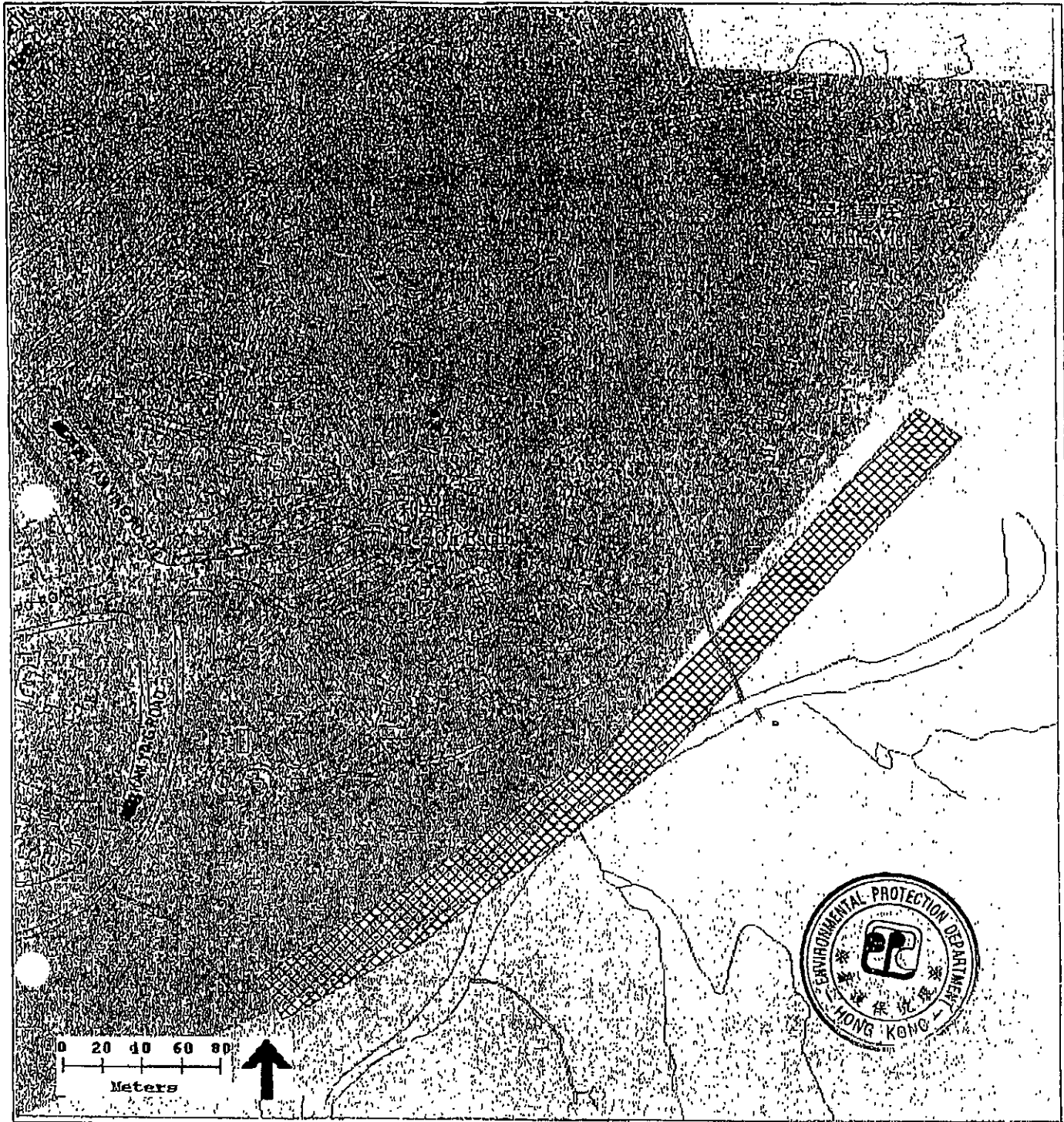
Identification code of Item of powered mechanical equipment (if applicable)		Description of item of Powered mechanical equipment	No. of units
Group A :	CNP 103	Generator, super silenced, 70 dB(A) at 7 m	One
	CNP 262	Winch (electric)	One
	_____	Air compressor, with noise emission label and Sound Power Level ≤ 97 dB(A)	One
Group B :	CNP 103	Generator, super silenced, 70 dB(A) at 7 m	One
	CNP 262	Winch (electric)	One
	_____	Water jetting unit (electric)	One

3d. Other conditions imposed on the use of the powered mechanical equipment :

- i. Only one group of the above powered mechanical equipment shall be allowed to be operated at any time.
- ii. Colour copies of two pages of A3 size notice showing "Key Information" of this construction Noise Permit shall be displayed at all times next to copies of this Construction Noise Permit.
- iii. The winch (electric) (CNP 262) shall only be operated for pulling traveler.
- iv. Air compressor, with noise emission label and Sound Power Level ≤ 97 dB(A) and Generator, super silenced, 70 dB(A) at 7 m (CNP 103) shall only be operated inside the transportable acoustic enclosure. The acoustic enclosure shall be composed of four side-panels and one top-panel. The panels shall be made of minimum 10mm thick plywood or 1mm thick steel outer skin and minimum 50mm thick sound absorbing lining.
- v. All care shall be taken to ensure that the construction work is carried out as quickly as possible with due regard for the potential noise intrusion which may result.



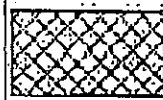
Signed : _____
(SZETO Wing-kwok)
for Authority



Environmental Protection Department
 Noise Control Authority
 環境保護署
 噪音管制監督

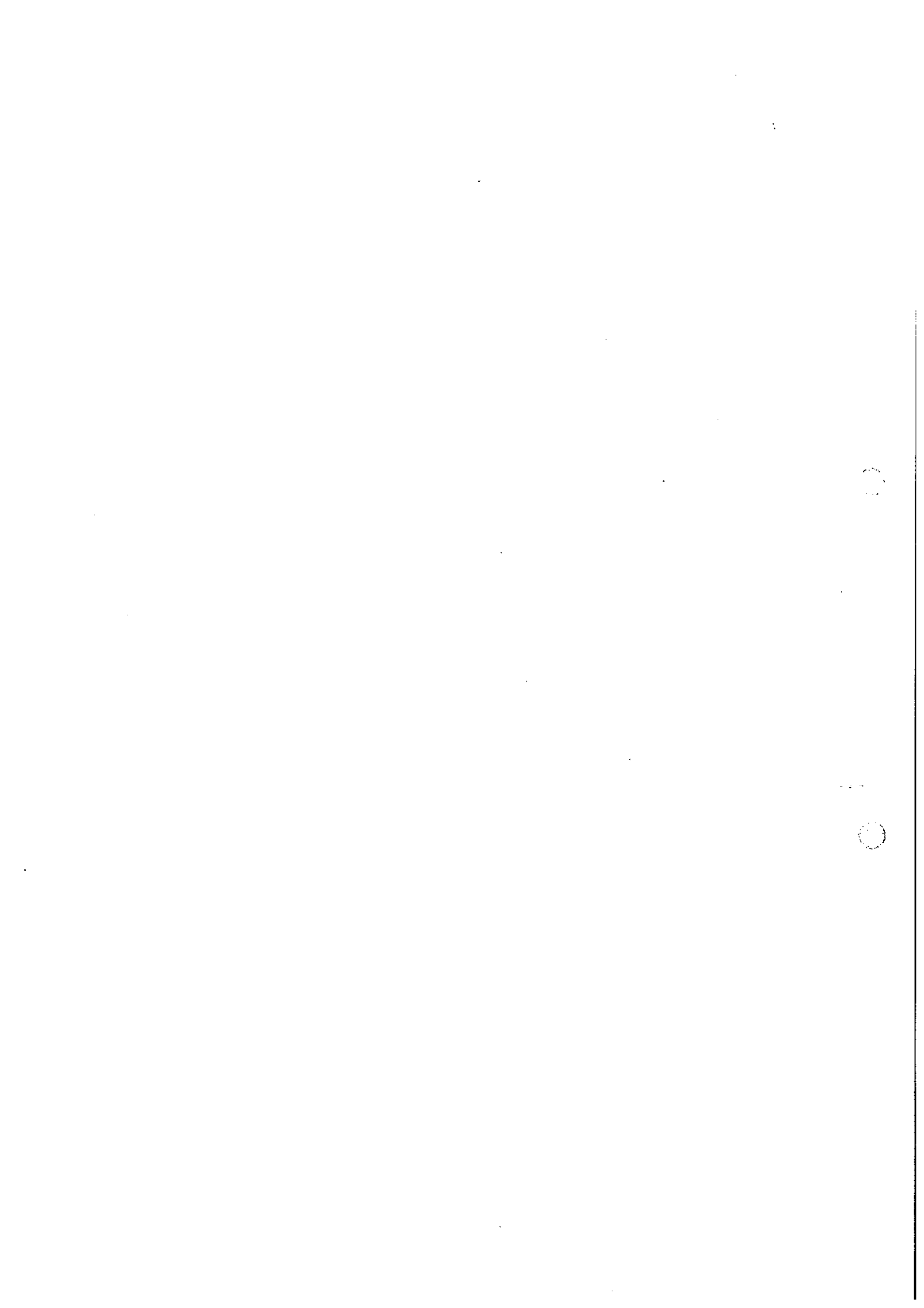
Scale
 比例
 1:3000

Legend 圖例



Construction Site
 建築地盤

Plan attached to Construction Noise Permit No. GW-TN0329-03
 建築噪音許可證編號 GW-TN0329-03 的附圖



本署編號 EP 580/E6/3/9

OUR REF:

來函編號

YOUR REF:

電話

TEL. NO.:

圖文傳真 2158 5823

FAX NO.: 2685 1155

電子郵件

E-MAIL:

網址

Homepage: <http://www.info.gov.hk/epd/>

**Environmental Protection Department
Local Control Office/Territory North**

10/F, Sha Tin Government Offices,
No. 1 Sheung Wo Che Road,
Sha Tin, New Territories,
Hong Kong.



環境保護署
污染管制辦事處
(新界北)
香港新界沙田
上禾輋路一號
沙田政府合署 10樓

7 January 2004

Arup Acoustics 23156

Master Ref	EP 580
Reply Ref	
Action Required	
Received	- 8 JAN 2004
Ints.	ST FL de
Action	
Info.	ST / A de
Copy	

Ove Arup & Partners Hong Kong Limited
Level 5 Festival Walk,
80 Tat Chee Avenue,
Kowloon Tong,
Kowloon,
Hong Kong

(Attn: Mr Sam Tsoi)

By Fax Only
(Fax : 2865 6493)
Total 2 pages

Dear Sir,

Sha Tin New Town Stage II Contract No. ST 86/2000
Construction of Road T7 in Ma On Shan
Public Complaint

I refer to the captioned project, for which you hold the position of Environmental Team Leader.

Enclosed please find some particulars of a public complaint made on the date shown in the enclosure. The Environmental Team and all relevant parties in the c.c. list below should take actions to rectify the situation. Please report the outcome of the actions to us within 2 weeks.

Yours faithfully,

(Jack KAN)
Environmental Protection Officer
for Director of Environmental Protection

Encl.

c.c. (all w/e)

TDD
Maunsell
CHEC

(Attn: Mr. Felix Yung
(Attn: Mr. Albert Lam
(Attn: Mr. Chan Man

Fax.: 2721 8630)
Fax.: 2643 3559)
Fax.: 2492 3701)

NOTICE OF COMPLAINT

Complaint Ref. : N01/TN/00000516-04

EPIC Ref:

EPIC URL:

CASE DETAILS

(1) Incident Date/Time: 07/01/2004

(2) Incident Location : BLOCK J, Kam Ying Court,
Sha Tin

地址 : 錦英苑, J 座,

(3) TPU : 757

(4) Description : COMPLAINT OF NOISE NUISANCE FROM AIR SAMPLER NEAR BLOCK J, KAM YING COURT, MA
ON SHAN, SHA TIN

(5) Nature

(6) Affected Party

(7) Pollution Pattern

N79-Other noise nuisance, please specify DMS-Domestic Premises
in "Remarks"

(8) Priority class : C - Routine

i.e. substantive reply to be made on or before 28/01/2004

DETAILS OF THE SUSPECTED POLLUTER

(1) Premises Name : UNKNOWN

姓名 : 不知名

(2) Premises Address :

地址 :

(3) Business Type : O18 - Other, please specify in "Remarks"

COMPLAINANT

(1) Name :

(2) Tel. No. : Day :

Night :

Mobile:

(3) Address : BLOCK J, Kam Ying Court,

地址 : 錦英苑, J 座,

(4) Email Address :

CHANNEL OF COMPLAINT

Source channel: 01 - Phone

Source code: P

- Public

Remarks : THE COMPLAINANT WAS AVAILABLE ONLY AFTER 12:00 NOON

ACTION OFFICERS

	Nature Code	SEPO	EPO	CI
Coordinator	N79	S[TN]2		CI[TN]2

本署編號 EP 580/E6/3/9
 OUR REF:
 來函編號
 YOUR REF:
 電話
 TEL. NO.: 2158 5823
 傳真
 FAX NO.: 2685 1155
 電子郵件
 E-MAIL:
 網址
 Homepage: <http://www.info.gov.hk/epd/>

Environmental Protection Department
Local Control Office/Territory North
 10/F, Sha Tin Government Offices,
 No. 1 Sheung Wo Che Road,
 Sha Tin, New Territories,
 Hong Kong.



環境保護署
 污染管制辦事處
 (新界北)
 香港新界沙田
 上禾輋路一號
 沙田政府合署 10 樓

16 January 2004

Ove Arup & Partners Hong Kong Limited
 Level 5 Festival Walk,
 80 Tat Chee Avenue,
 Kowloon Tong,
 Kowloon,
 Hong Kong

(Attn: Mr Sam Tsoi)

By Fax Only
 (Fax : 2865 6493)
 Total 2 pages

Dear Sir,

Sha Tin New Town Stage II Contract No. ST 86/2000
 Construction of Road T7 in Ma On Shan
Public Complaint

I refer to the captioned project, for which you hold the position of Environmental Team Leader.

Enclosed please find some particulars of a public complaint made on the date shown in the enclosure. The Environmental Team and all relevant parties in the c.c. list below should take actions to rectify the situation. Please report the outcome of the actions to us within 2 weeks.

ARUP Accusation #	23156
Master Ref	EP 580/E6/3/9
Reply Ref.	
Action Required	
Received	16 JAN 2004
Info.	ST FL K
Action	
Info.	SA / A K
Copy	

Yours faithfully,

(Jack KAN)

Environmental Protection Officer
 for Director of Environmental Protection

Encl.

c.c. (all w/e)	TDD	(Attn: Mr. Felix Yung	Fax.: 2721 8630)
	Maunsell	(Attn: Mr. Albert Lam	Fax.: 2643 3559)
	CHEC	(Attn: Mr. Chan Man	Fax.: 2492 3701)

NOTICE OF COMPLAINT

Complaint Ref. : N01/TN/00001127-04

EPIC Ref:

EPIC URL:

CASE DETAILS

(1) Incident Date/Time: 15/01/2004 16:07

(2) Incident Location : Monte Vista,
Sha Tin

地址 : 翠擁華庭,

(3) TPU : 757

(4) Description : COMPLAINT OF SUSPECTED MALODOUR FROM T7 ROAD WORKS. AFFECTING MONTE VISTA , SHA TIN

(5) Nature	(6) Affected Party	(7) Pollution Pattern
A49-Malodour	DMS-Domestic Premises	

(8) Priority class : C - Routine i.e. substantive reply to be made on or before 05/02/2004

DETAILS OF THE SUSPECTED POLLUTER

(1) Premises Name : UNKNOWN 姓名 : 不知名

(2) Premises Address : 地址 :

(3) Business Type : 511 - Construction site except renovation

COMPLAINANT

(1) Name : (2) Tel. No. : Day :
Night :
Mobilc:

(3) Address : 地址 :

(4) Email Address :

CHANNEL OF COMPLAINT

Source channel: 01 - Phone Source code: P - Public

Remarks : 翠擁華庭管理處的 懷疑T7公路的工程傳出臭味，影響居民，請跟進。

ACTION OFFICERS

	Nature Code	SEPO	EPO	CI
Coordinator	A49	S[TN]1		CI[TN]2

CASE INPUTTED BY Name : TNTELE Date : 15/01/2004 Time : 16:13

Chief Resident Engineer's Office
Trunk Road T7
7 Lok Wo Sha Lane, Ma On Shan
Telephone : 2643 9020
Fax : 2643 3559

8/F., Grand Central Plaza, Tower 2
138 Shatin Rural Committee Road
Sha Tin, N.T., Hong Kong
香港新界沙田鄉事委員會路138號
新城市廣場二期8樓

Tel (852) 2605 6262
Fax (852) 2691 2649
www.maunsell.com.hk

E-mail : t7cso@netvigator.com

Your Ref.: EP 580/E6/3/9
Our Ref. : T7(ST86/2000)/M05/412(0278)

30 January 2004

Environmental Protection Department
Local Control Office/ Territory North
10/F, Sha Tin Government Offices,
No.1 Sheung Wo Che Road,
Sha Tin, New Territories, Hong Kong.

By Fax & Post
(Fax: 2685 1155)

Attn: Mr. Jack KAN

Dear Sirs,

Shatin New Town Stage II
Contract No. ST86/2000
Construction of Road T7 in Ma On Shan
Environmental Complaint EC-76

Public Complaint – Odour from Road T7 Contract Works

We refer to your letter of 16 January 2004, regarding a complaint from a resident of Monte Vista on the odour from Road T7 Contract works.

We found in our investigation that the odour was generated from the activity of spraying soil mix onto the rock slope for hydroseeding purpose. This was to provide the greening effect and landscape treatment on the slopes facing Monte Vista. We understand that the odour will only last for about 3 days after the spraying of each layer of soil mix. In order to contain the odour and reduce the nuisance to the nearby residents, the Contractor is willing to overlay the slope with tarpaulin sheets after the soil mix spraying. He will also expedite the follow up activity of hydroseeding to ensure a full cover to the slope in the shortest period of time.

As this is acceptable to the complainant.

AMP		ACUSTICS	
Master Ref.: E12345	Project Ref.: 28156	File No.:	
Reply Ref.:	By:	Date:	
Action Required:			
Received 5 - FEB 2004			
IN 10pm	ST	TL	AC
Initis.			
Action			
Info.			
Copy			

Yours faithfully,


Allan Poon
Senior Resident Engineer

AP:li

- cc : PM/NTE, TDD - Attn: Mr. Felix Yung
- MCAL - Attn: Mr. Thomas Lee
- OAP - Attn: Mr. Fredrick Leong
- CHEC-HO





本署編號 EP 580/E6/3/9

OUR REF:

來函編號

YOUR REF:

電話

TEL. NO.:

圖文傳真

FAX NO.:

電子郵件

E-MAIL:

網址

Homepage: <http://www.epd.gov.hk/>

**Environmental Protection Department
Local Control Office/Territory North**

10/F, Sha Tin Government Offices,
No. 1 Sheung Wo Che Road,
Sha Tin, New Territories,
Hong Kong.



環境保護署
污染管制辦事處
(新界北)

香港新界沙田
上禾輦路一號
沙田政府合署 10 樓

16 February 2004

Ove Arup & Partners Hong Kong Limited
Level 5 Festival Walk,
80 Tat Chee Avenue,
Kowloon Tong,
Kowloon,
Hong Kong

(Attn: Mr Sam Tsoi)

By Fax Only
(Fax : 2865 6493)
Total 3 pages

Dear Sir,

Sha Tin New Town Stage II Contract No. ST 86/2000
Construction of Road T7 in Ma On Shan
Public Complaint

I refer to the captioned project, for which you hold the position of Environmental Team Leader.

Enclosed please find some particulars of a public complaint made on the date shown in the enclosure. The Environmental Team and all relevant parties in the c.c. list below should take actions to rectify the situation. Please report the outcome of the actions to us within 2 weeks.

Arup Acoustics		Job No. 23156		
Master Ref.:	File No.	Project Ref.:		
Reply Ref.:	By:	Date		
Action Required:				
Received				
ON 16 FEB 2004				
Init.	ST	TZ	FL	AC
Action				
Info.				
Copy				

Yours faithfully,

(Jack KAN)

Environmental Protection Officer
for Director of Environmental Protection

Encl.

c.c. (all w/e)

TDD
Maunsell
CHEC

(Attn: Mr. Felix Yung
(Attn: Mr. Albert Lam
(Attn: Mr. Chan Man

Fax.: 2721 8630)
Fax.: 2643 3559)
Fax.: 2492 3701)

NOTICE OF COMPLAINT

Complaint Ref. : N01/TN/00002535-04

EPIC Ref:

EPIC URL:

CASE DETAILS

(1) Incident Date/Time: 12/02/2004

(2) Incident Location : Monte Vista,
Sha Tin

地址 : 翠擁华庭,

(Block 3)

(3) TPU : 757

(4) Description : COMPLAINT OF GENERAL CONSTRUCTION NOISE FROM T7 ROAD OPPOSITE TO MONTE VISTA, SHA TIN

(5) Nature

(6) Affected Party

(7) Pollution Pattern

N66-General construction noise except renovation	DMS-Domestic Premises	
--	-----------------------	--

(8) Priority class : C - Routine

i.e. substantive reply to be made on or before 04/03/2004

DETAILS OF THE SUSPECTED POLLUTER

(1) Premises Name : UNKNOWN

姓名 : 不知名

(2) Premises Address :

地址 :

(3) Business Type : 511 - Construction site except renovation

COMPLAINT CASE(S) NEAR INCIDENT LOCATION

<u>Complaint Ref.</u>	<u>Cpt. Received Date</u>	<u>Sub. Reply Date</u>	<u>Nature Code</u>	<u>Nature Description</u>
-----------------------	---------------------------	------------------------	--------------------	---------------------------

COMPLAINANT

(1) Name :

(2) Tel. No. : Day :

Night :

Mobile:

(3) Address :

地址 :

(4) Email Address :

CHANNEL OF COMPLAINT

Source channel: 06 - Internet

Source code : P - Public

Remarks :

ACTION OFFICERS

	Nature Code	SEPO	EPO	CI
Coordinator	N66	S[TN]2		CI[TN]2

**Letter / Memo to be faxed / passed to subject SEPO(s), EPO(s), CI(s).

CASE INPUTTED BY

Name : TNGELE

Date : 12/02/2004

Time : 11:33

HOTLINE_TN

2004/02/12 10:43 AM

To:
cc:
Subject: 噪音投訴
 Urgent Return Receipt

黃先生:

有關T7公路對正翠擁華庭地盤工程的噪音投訴

本署現正處理閣下於二零零四年二月十二日提出的上述投訴，並會盡快將有關調查結果通知你。如需查詢此事詳情或擬提供進一步資料時，可傳送電子郵件至 tn-hotline@epd.gov.hk，並請引述檔案編號EP3/N01/TN/00002535-04。

多謝你對環境事宜的關注。

污染投訴熱線
污染管制辦事處(新界北)
環境保護署

----- Forwarded by HOTLINE_TN/EPD/HKSARG on 2004/02/12 11:13 AM -----



complaint@epd.info.gov.hk To:
k cc:
2004/02/12 10:10 AM Subject:
 Urgent Return Receipt

From: ...
Reply-To: ...
Subject: Complain

Notices of Complaint Through Internet

Case Details

(1) Location : District : ShaTin
Street, Building : , 翠擁華庭
Name of block, floor, flat : , ,

(2) Nature : Noise Pollution of Piling Noise Construction Noise 足足施工近兩年，重型機器不停發出強烈、令人不能忍受的鑿地噪音，有時甚至晚上也施工(深夜也聽到有聲音)，嚴重影響本人精神狀態。承建商只作少量減聲措施，根本沒有履行環保責任，完全不明白為何如此擾民的工程也獲批准。此區晚上飛車噪音亦很嚴重，公路通車後情況更是令人擔心(到時想有訓好覺都難)敬希當局注視。

(3) Details of the location of the pollution
Business / Premises Name : T7公路對正翠擁華庭地盤
Flat / Room / House : No. Floor. Block.
Building / Estate / Village : 翠擁華庭
Street :

(4) Personal Particulars

Name : MR
Phone No : (Day) (Night)
Address : 馬鞍山翠擁華庭3座
E-mail Address :

