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 2003 TO MARCH 2003

Prepared For:

Maunsell Consultants Asia Limited

By:

Ove Arup & Partners H.K. Ltd.

ARUP

Tel.: 2528 3031
Fax: 2865 6493

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Prepared by Thomas Chan (MCIWEM MIEnvSc CBiol)

Signed
Date 13 April 2003

Checked by Sam Tsoi (CEng FIOA MHKIE MIMechE MIEnvSc)

Signed
Date 13 April 2003

Approved by Sam Tsoi (CEng FIOA MHKIE MIMechE MIEnvSc)

Signed
Date 13 April 2003

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LIST OF APPENDICES

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ABBREVIATIONS AND ACRONYMS

AQO	Air Quality Objectives
Arup	Ove Arup & Partners Hong Kong Limited
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

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EXECUTIVE SUMMARY

This quarterly EM&A report summaries the site inspection findings, air quality and noise impact monitoring works for the period between January 2003 to March 2003.

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 2003 to March 2003. The recorded noise levels were in the range from 60.9 to 74.7 dB(A) during 0700-1900 and from 50.2 to 64.8 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 fifteen 24-hour TSP monitoring were conducted at each location from January 2003 to March 2003. The recorded 24-hour TSP levels were in the range from 26.8 to 151.1 $\mu g/m^3$ and were below the Action and Limit Levels.

A total of forty-five 1-hour TSP monitoring were conducted at each location from January 2003 to March 2003. The recorded 1-hour TSP levels were in the range from 132.1 to 324.2 $\mu g/m^3$ and were below the Action and Limit Levels.

A total of 53 loads of waste from site clearance (i.e. felled trees) have been disposed of at NENT Landfill from January 2003 to March 2003. The total tonnage of the waste disposal from January 2003 to March 2003 was 390.9 tonnes.

A total of 5,020 loads of rocks (ϕ > 400mm) have been disposed of at the follow government project sites from January 2003 to March 2003:

- *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*
- *Contract No. FL27/02 Completion of the Remaining River Training Works for Upper Indus between Man Kam To & San Wai*

The total quantity of the disposed rocks was 35,893.1 m^3 from January 2003 to March 2003.

A total of 255 loads of inert material have been disposed of at Public Filling Area from January 2003 to March 2003. The total quantity of the disposed inert materials was 1,530.0 m^3 from January 2003 to March 2003.

ET was informed by the CT that EPD visited the site on 21/01/03, 25/01/03, 25/02/03, 03/03/03, 04/03/03, 13/03/03 and 27/03/03.

Five public complaints regarding construction noise were received on 09/01/03, 13/01/03, 18/01/03, 20/01/03 and 06/02/03 respectively through the Environmental Protection Department and Territory Development Department. All complaints had been resolved.

1. INTRODUCTION

OAP 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.

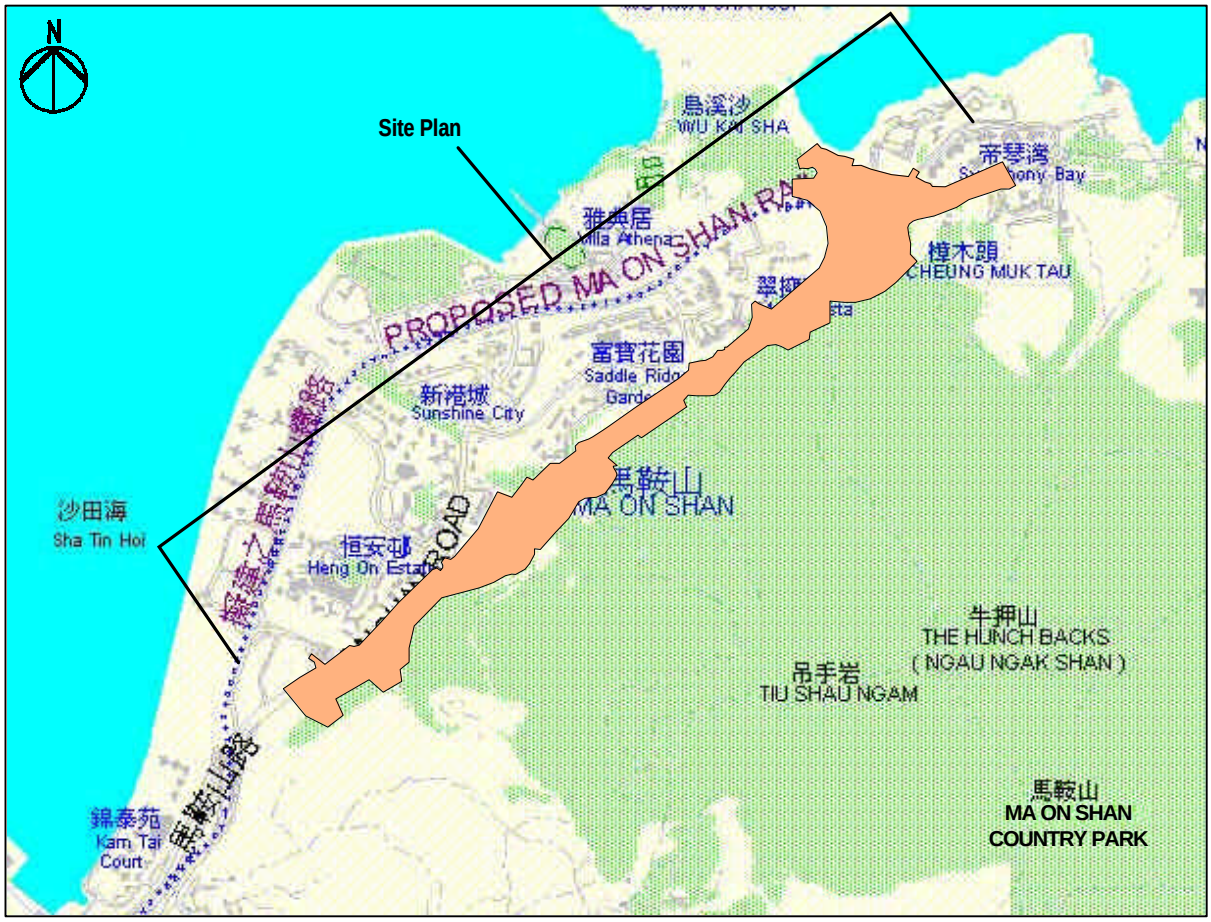
1.1 Purpose of the Report

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 from January 2003 to March 2003.

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.



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2. ENVIRONMENTAL STATUS

2.1 Construction Activities in the Quarter

The main construction activities from January 2003 to March 2003 were slope formation and bridge construction. Construction works for the retaining wall were carried out near the casting yard. The rock excavation was still in progress at the slope behind Monte Vista. Construction works of tunnel were in progress at Portal D area near Cheung Muk Tau Village. Bridge construction works were in progress at TB and TC bridge area.

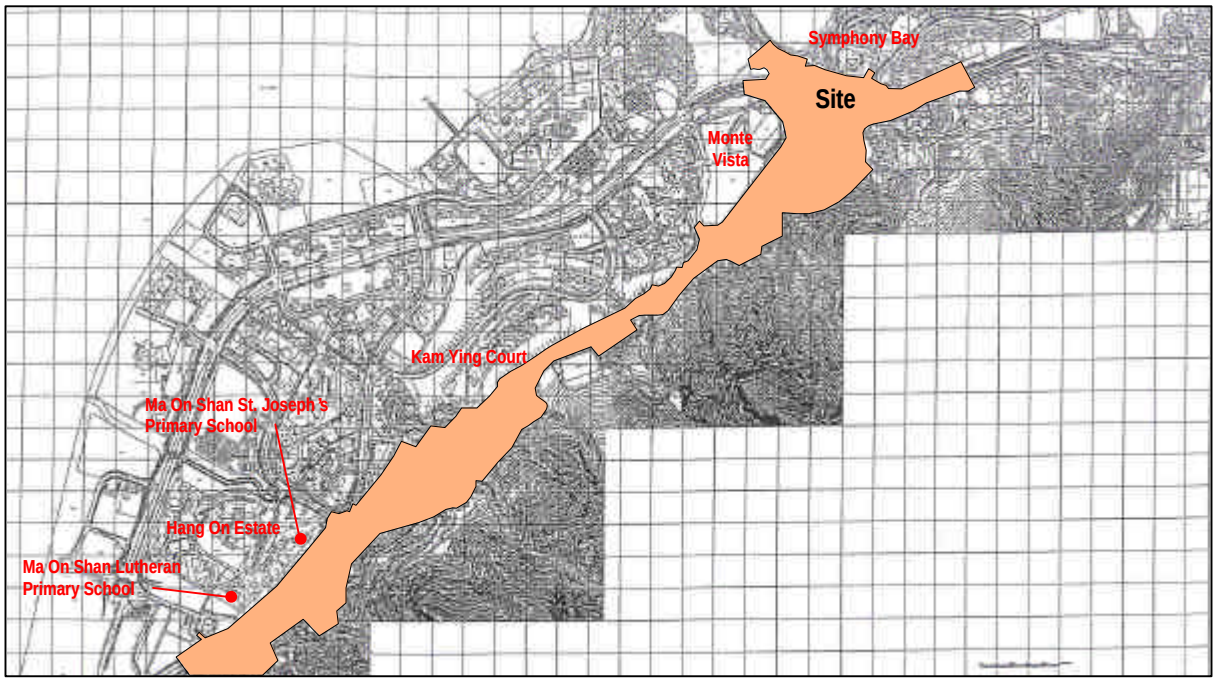
2.2 Environmental Sensitive Receivers

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.



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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	$L_{eq(30\ min)}$	Once per week	1
Between 1900-2300 hours on normal weekdays	$L_{eq(5\ min)}$*		3 (consecutive)
Between 2300-0700 hours of next day			
Between 0700-1900 hours on holidays			

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

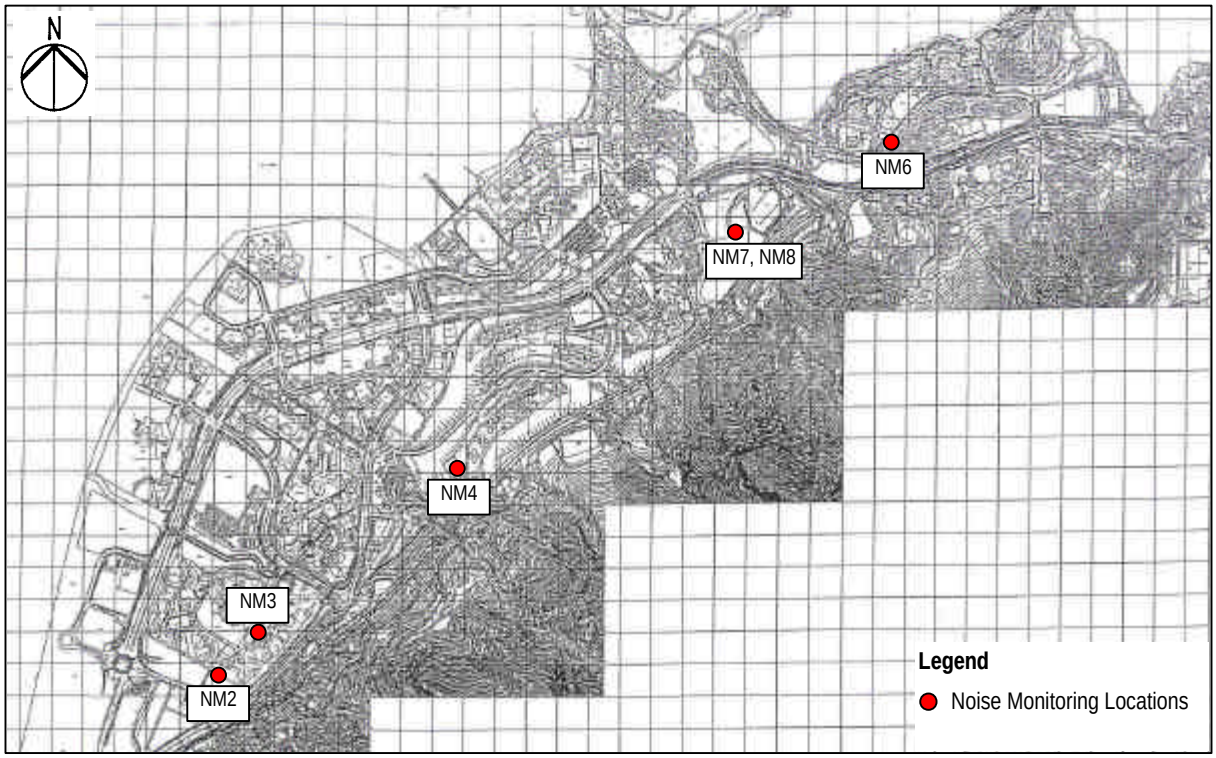
3.1.3 Monitoring Locations

A total of six 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
NM2	Ma On Shan Lutheran Primary School	Roof-top of the school
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

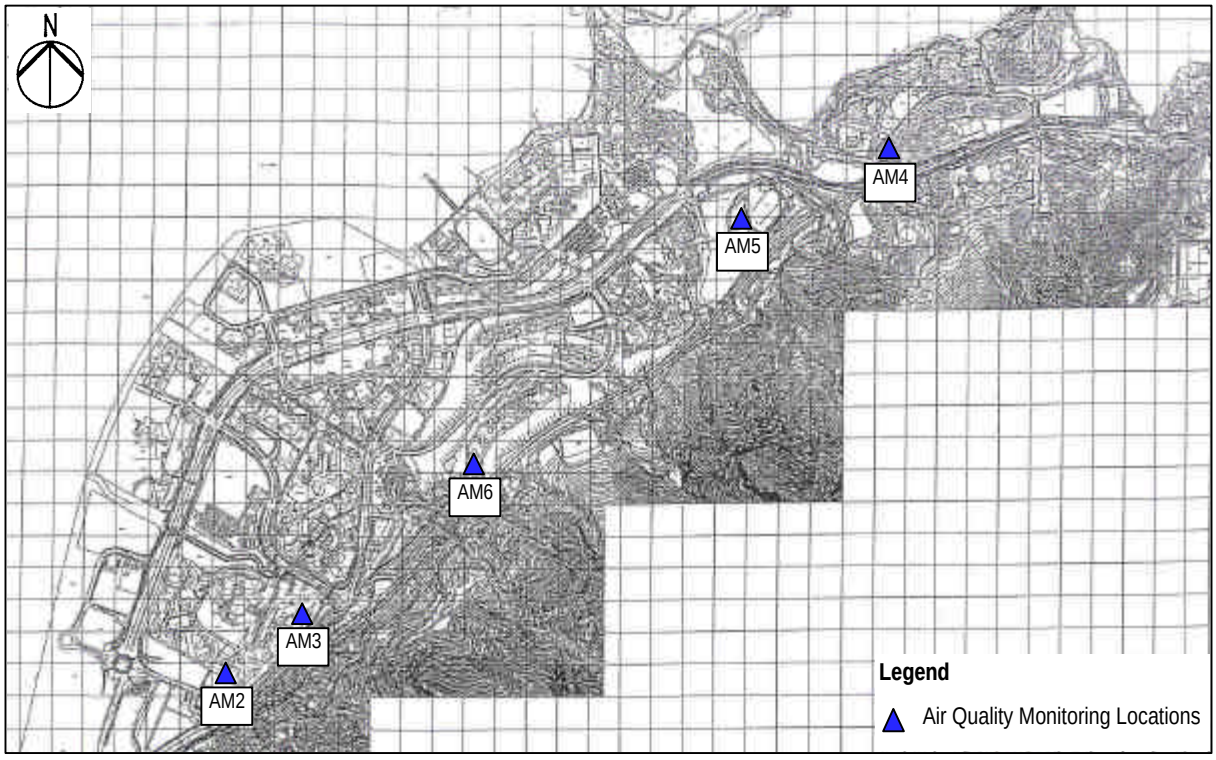
3.2.3 Monitoring Locations

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**
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	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	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**
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	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	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 μg/m³	• For baseline level < 108μg/m³, Action Level = average of baseline level plus 30% and Limit Level • For 108μg/m³ < baseline level < 154μg/m³, Action Level = 200μg/m³ • For baseline level > 154μg/m³, Action Level = 130% of baseline level	260
1 Hour TSP Level in μg/m³	• For baseline level < 154μg/m³, Action Level = average of baseline level plus 30% and Limit Level • For 154μg/m³ < baseline level < 269μg/m³, Action Level = 350μg/m³ • For baseline level > 269μg/m³, Action Level = 130% of baseline level	500

The baseline checking was conducted on 16 March 2003. There was no significant difference when comparing the baseline checking results of March 2003 with 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 $\mu g/m^3$		
	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 $\mu g/m^3$		
	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		
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	1. Notify CT 2. Check monitoring data and CT's working methods	1. Rectify any unacceptable practice 2. Amend working methods if appropriate
Action Level 2 –Exceedance for two or more consecutive samples		
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	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	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		
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	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	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		
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	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	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 from January 2003 to March 2003. 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 between January 2003 and March 2003 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 2003 to March 2003.

Date of Monitoring	Monitoring Parameters	Monitoring Results, dB(A) (30 min)					
		NM2	NM3	NM4	NM6	NM7	NM8
08/01/03 (Wed)	L_{eq}	65.0	65.5	70.5	72.0	70.5	71.5
	L_{10}	68.5	69.0	72.0	74.5	73.0	74.8
	L_{90}	60.0	61.0	62.5	63.5	62.0	62.0
16/01/03 (Thu)	L_{eq}	67.7	63.5	68.5	69.2	68.5	70.8
	L_{10}	69.5	66.4	70.8	71.5	72.5	74.5
	L_{90}	61.5	60.2	63.5	63.0	64.4	63.5
22/01/03 (Wed)	L_{eq}	64.9	63.0	64.6	65.2	64.0	67.9
	L_{10}	68.5	64.5	67.5	68.0	66.0	70.5
	L_{90}	60.5	59.0	59.0	61.0	60.5	64.5
29/01/03 (Wed)	L_{eq}	65.7	64.4	60.9	66.2	66.3	74.7
	L_{10}	67.5	66.5	62.5	68.0	68.5	77.0
	L_{90}	63.0	59.5	58.0	62.5	61.5	70.5
06/02/03 (Thu)	L_{eq}	65.0	62.5	62.0	67.5	67.0	70.0
	L_{10}	68.5	64.0	65.5	70.0	69.5	73.5
	L_{90}	62.5	60.0	60.5	63.0	61.5	67.5
12/02/03 (Wed)	L_{eq}	66.0	63.0	65.5	67.0	64.0	72.1
	L_{10}	68.5	65.0	69.0	69.5	67.5	75.0
	L_{90}	60.0	58.0	60.5	62.0	62.0	67.0
19/02/03 (Wed)	L_{eq}	64.5	63.0	63.5	65.8	67.0	71.5
	L_{10}	66.0	65.0	66.0	67.0	68.0	75.0
	L_{90}	60.0	59.0	60.5	60.0	62.5	66.0
26/02/03 (Wed)	L_{eq}	65.0	63.5	68.0	67.0	68.0	74.2
	L_{10}	68.0	66.0	73.5	70.5	70.5	76.5
	L_{90}	60.5	60.5	62.5	63.0	66.0	69.0
07/03/03 (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	57.5	62.5	64.0	64.2	63.0

Date of Monitoring	Monitoring Parameters	Monitoring Results, dB(A) (30 min)					
		NM2	NM3	NM4	NM6	NM7	NM8
12/03/03 (Wed)	L_{eq}	66.1	63.5	66.7	69.3	70.8	71.4
	L_{10}	70.0	66.5	67.5	72.5	71.0	71.0
	L_{90}	60.5	54.0	57.0	61.5	60.0	62.5
19/03/03 (Wed)	L_{eq}	65.7	66.1	70.7	66.3	73.0	66.5
	L_{10}	68.0	70.0	73.0	68.0	75.5	69.0
	L_{90}	60.0	51.0	63.0	58.0	61.5	58.5
27/03/03 (Thu)	L_{eq}	68.8	65.8	67.3	69.9	70.2	68.7
	L_{10}	71.0	67.5	70.5	72.0	73.0	71.5
	L_{90}	54.5	59.5	57.5	56.5	58.5	54.5

Figure 4-1 – Trend of Noise Level for daytime monitoring from December 2002 to March 2003.

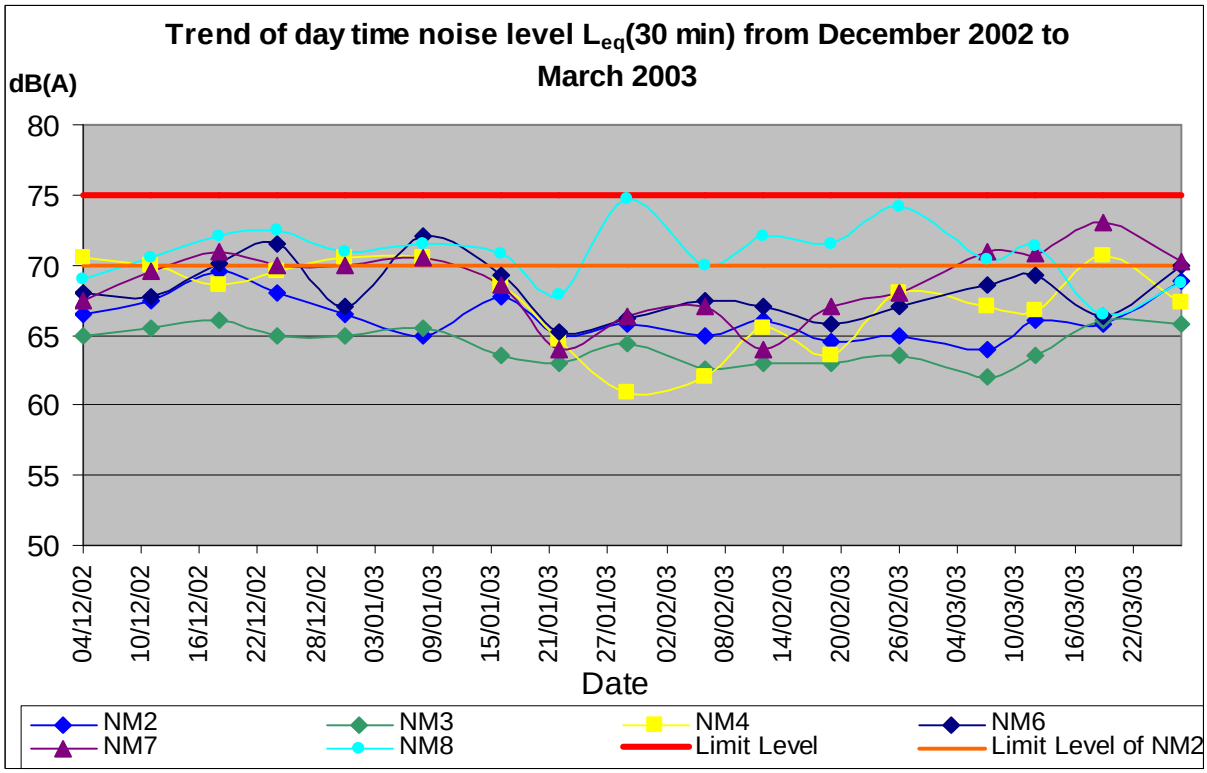
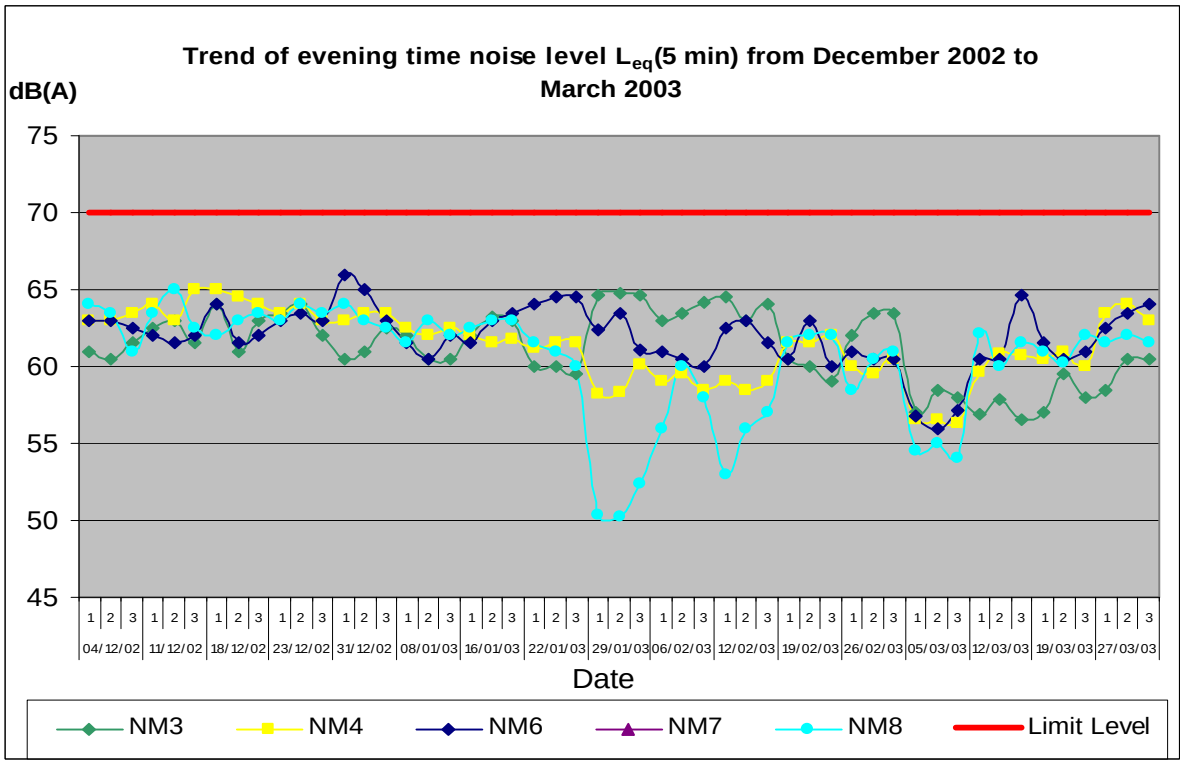


Table 4-2 - Construction evening time noise monitoring results from January 2003 to March 2003**.**

Date of Monitoring	Monitoring Results, L_{eq} dB(A) (5 min)				
	NM3	NM4	NM6	NM7*	NM8
08/01/03 (Wed)	62.0	62.5	61.5	-	61.5
	60.5	62.0	60.5	-	63.0
	60.5	62.5	62.0	-	62.0
16/01/03 (Thu)	62.0	62.0	61.5	-	62.5
	63.2	61.5	63.0	-	63.0
	63.0	61.8	63.5	-	63.0
22/01/03 (Wed)	60.0	61.2	64.0	-	61.5
	60.0	61.5	64.5	-	61.0
	59.5	61.5	64.5	-	60.0
29/01/03 (Wed)	64.7	58.2	62.4	-	50.4
	64.8	58.3	63.5	-	50.2
	64.7	60.1	61.1	-	52.4
06/02/03 (Thu)	63.0	59.0	61.0	-	56.0
	63.5	59.5	60.5	-	60.0
	64.2	58.5	60.0	-	58.0
12/02/03 (Wed)	64.5	59.0	62.5	-	53.0
	63.0	58.5	63.0	-	56.0
	64.0	59.0	61.5	-	57.0
19/02/03 (Wed)	60.5	61.5	60.5	-	61.5
	60.0	61.5	63.0	-	62.0
	59.0	62.0	60.0	-	62.0
26/02/03 (Wed)	62.0	60.0	61.0	-	58.5
	63.5	59.5	60.5	-	60.5
	63.5	60.5	60.5	-	61.0
07/03/03 (Fri)	57.0	56.5	56.8	-	54.5
	58.5	56.6	56.0	-	55.0
	58.0	56.3	57.2	-	54.0
12/03/03 (Wed)	56.9	59.7	60.5	-	62.2
	57.9	60.8	60.5	-	60.0
	56.6	60.7	64.7	-	61.6
19/03/03 (Wed)	57.0	60.5	61.5	-	61.0
	59.5	60.9	60.5	-	60.2
	58.0	60.0	61.0	-	62.0
27/03/03 (Thu)	58.5	63.5	62.5	-	61.5
	60.5	64.0	63.5	-	62.0
	60.5	63.0	64.0	-	61.5

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 December 2002 to March 2003.



5. AIR QUALITY MONITORING

5.1 24-hour TSP Monitoring Results

A total of fifteen 24-hour TSP monitoring were conducted at each location from January 2003 to March 2003. 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 2003 to March 2003.

Date of Monitoring	24-hour TSP Monitoring Results,(μg/m³)				
	AM2	AM3	AM4	AM5	AM6
02/01/03 (Thu)	90.6	77.0	97.2	78.0	60.7
07/01/03 (Tue)	46.6	46.8	41.6	39.5	38.7
13/01/03 (Mon)	109.7	109.6	91.2	115.7	95.1
18/01/03 (Sat)	-	77.8	64.0	65.2	56.4
22/01/03 (Wed)*	151.1	-	-	-	-
25/01/03 (Sat)	94.5	104.6	103.7	97.8	87.5
04/02/03 (Tue)	47.9	47.4	37.7	54.8	47.5
07/02/03 (Fri)	45.9	49.8	46.0	56.4	40.1
13/02/03 (Thu)	51.4	57.6	50.1	61.3	49.4
18/02/03 (Tue)	52.7	60.6	48.9	62.7	26.8
24/02/03 (Mon)	63.7	70.4	60.7	73.2	56.3
01/03/03 (Sat)	50.0	57.2	50.3	65.4	45.8
06/03/03 (Thu)	50.8	53.8	40.7	42.1	41.5
13/03/03 (Thu)	-	42.6	45.1	34.4	31.7
14/03/03 (Fri)#	49.0	-	-	-	-
20/03/03 (Thu)	37.9	39.7	43.1	39.2	40.4
26/03/03 (Wed)	77.9	72.3	70.0	79.5	62.6

Note: * The 24-hour TSP monitoring at AM2 was postponed from 18/01/03 to 22/01/03 due to equipment failure.

The 24-hour TSP monitoring at AM2 was postponed from 13/03/03 to 14/03/03 due to power supply shortage.

5.2 1-hour Monitoring Results

A total of forty-five 1-hour TSP monitoring were conducted at each location from January 2003 to March 2003. 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 2003 to March 2003**.**

Date of Monitoring	1-hour TSP Monitoring Results,(μg/m³)				
	AM2	AM3	AM4	AM5	AM6
03/01/03 (Fri)	144.1	177.6	174.5	142.4	148.2
	139.1	176.9	176.5	144.1	153.9
	148.7	188.3	184.9	142.3	162.0
08/01/03 (Wed)	205.5	205.9	176.3	177.8	178.6
	225.4	220.9	193.7	196.6	192.0
	187.0	183.5	141.0	157.2	188.5
16/01/03 (Thu)	199.6	225.9	139.5	156.0	157.5
	193.8	233.3	141.0	160.3	154.9
	239.4	206.2	147.9	158.6	157.3
22/01/03 (Wed)	280.8	275.4	324.2	294.9	255.3
	277.9	269.8	318.0	290.6	262.6
	260.7	254.8	301.8	273.9	242.6
29/01/03 (Wed)	200.6	188.2	173.0	217.2	216.4
	193.7	184.2	172.4	209.4	210.5
	181.6	163.2	168.8	203.2	200.1
06/02/03 (Thu)	240.7	202.0	204.1	213.3	236.6
	224.3	209.0	231.4	221.7	222.8
	215.0	228.2	217.8	226.0	223.2
12/02/03 (Wed)	157.4	192.8	157.4	176.6	185.0
	166.2	204.8	166.7	184.1	195.9
	164.8	200.0	164.1	177.5	191.5
14/02/03 (Fri)	190.3	211.4	212.2	182.5	181.1
	173.7	198.1	196.0	163.5	169.0
	191.9	211.7	208.4	181.1	181.7
19/02/03 (Wed)	238.1	223.3	249.0	230.3	262.0
	209.6	194.6	212.5	201.1	229.0
	197.0	195.8	211.2	195.0	227.7
26/02/03 (Wed)	229.3	203.1	208.2	211.1	194.5
	200.0	203.8	211.2	221.2	202.6
	221.9	198.9	205.5	216.5	197.5

Date of Monitoring	1-hour TSP Monitoring Results,(μg/m³)				
	AM2	AM3	AM4	AM5	AM6
07/03/03 (Fri)	177.0	203.4	172.8	156.9	180.1
	179.4	199.5	174.6	163.5	182.2
	174.9	195.2	173.3	167.1	183.9
12/03/03 (Wed)	156.9	188.4	175.8	149.9	153.1
	139.4	176.2	160.2	140.6	143.1
	132.1	180.5	163.5	173.7	132.7
19/03/03 (Wed)	173.6	159.5	189.6	146.0	148.2
	174.0	157.1	198.1	159.3	146.8
	176.0	168.2	208.8	170.3	148.5
21/03/03 (Fri)	181.2	189.5	184.7	210.8	216.8
	176.1	180.5	178.9	205.2	203.5
	155.4	150.2	155.3	183.5	206.8
27/03/03 (Thu)	202.4	203.2	231.1	233.5	203.2
	156.1	164.8	189.2	189.7	163.2
	158.6	173.8	188.3	184.9	144.4

Figure 5-1 - Trend of 24-hours TSP levels from December 2002 to March 2003.

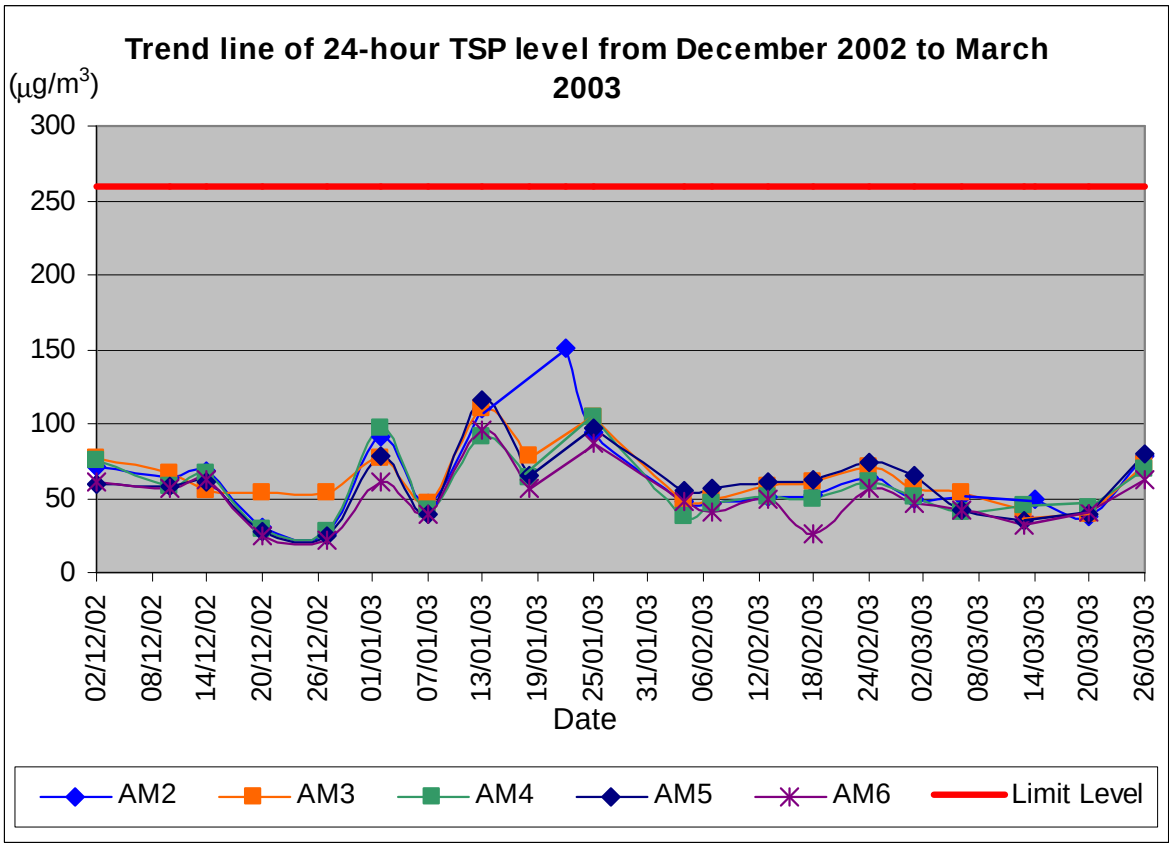
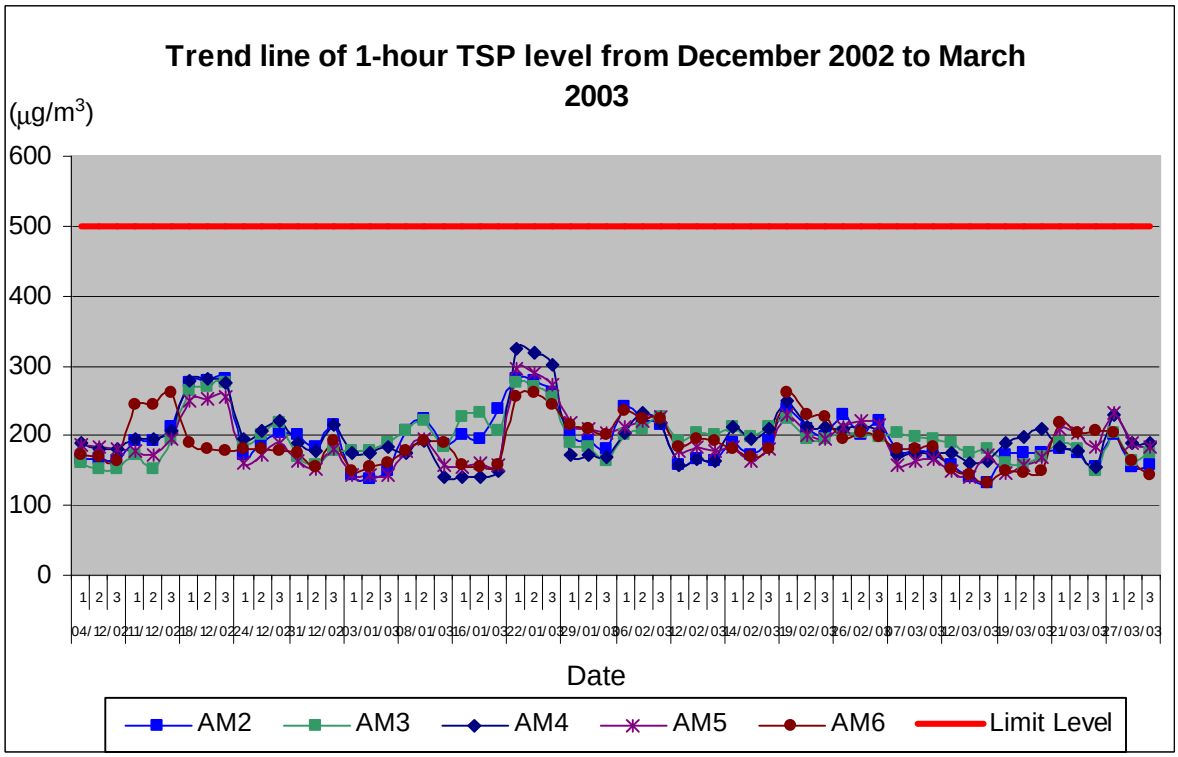


Figure 5-2 - Trend of 1-hour TSP levels from December 2002 to March 2003.



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

6.1 Waste Disposal

A total of 53 loads of waste from site clearance (i.e. felled trees) have been disposed of at NENT Landfill from January 2003 to March 2003. The total tonnage of the waste disposal from January 2003 to March 2003 was 390.9 tonnes.

A total of 5,020 loads of rocks (ϕ > 400mm) have been disposed of at the follow government project sites from January 2003 to March 2003:

- *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*
- *Contract No. FL27/02 Completion of the Remaining River Training Works for Upper Indus between Man Kam To & San Wai*

The total quantity of the disposed rocks was 35,893.1 m^3 from January 2003 to March 2003.

A total of 255 loads of inert material have been disposed of at Public Filling Area from January 2003 to March 2003. The total quantity of the disposed inert materials was 1,530.0 m^3 from January 2003 to March 2003.

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

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)
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
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
Total	1,491.0	10,801.4	25,257.0	180,057.7	5,904.0	35,052.0

Note: # **-**TDD Contract No. YL 46/99 Tin Shui Wai Further Development – Road D3 and Constructed Wetland,
-Contract No. FL27/02 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.
* The updated waste disposal data was provided by CT in March 2003

6.2 EPD Site Inspection

ET was informed by the CT that EPD visited the site on 21/01/03, 25/01/03, 25/02/03, 03/03/03, 04/03/03, 13/03/03 and 27/03/03.

6.3 Complaint Record

Five public complaints regarding construction noise were received on 09/01/03, 13/01/03, 18/01/03, 20/01/03 and 06/02/03 respectively through the EPD and TDD. 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

Date Received	Source of Complaint	Complaint Issue	Status
27/10/01	Public (Monte Vista)	Noise	Resolved
30/10/01	Public (Kam Ying Court)	Noise	Resolved
14/11/01	-	Noise	-
15/11/01	-	Noise	-
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
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

6.4 Non-compliance Record

There was no exceedance recorded in the period from January 2003 to March 2003. 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 2003.

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

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
February 2003	5	5	100
March 2003	5	5	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

Period	1-hour TSP Monitoring		
	Number of Monitoring	Number of Compliance	Compliance Percentage (%)
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
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

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.

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APPENDIX 1

Noise Impact Monitoring Results for January 2003 to March 2003

Details of Day Time Noise Impact Monitoring

Month	Date	NSR No.	Time periods		Weather condition	Avg. wind speed (m/s)	Noise Level dB(A)		
			Start	Finish			L_{eq}	L_{10}	L_{90}
Jan-03	08-Jan-03	NM2	9:50	10:20	Sunny	0.4	65.0	68.5	60.0
Jan-03	08-Jan-03	NM3	10:30	11:00	Sunny	0.3	65.5	69.0	61.0
Jan-03	08-Jan-03	NM4	11:10	11:40	Sunny	0.6	70.5	72.0	62.5
Jan-03	08-Jan-03	NM6	14:30	15:00	Sunny	0.6	72.0	74.5	63.5
Jan-03	08-Jan-03	NM7	13:00	13:30	Sunny	0.5	70.5	73.0	62.0
Jan-03	08-Jan-03	NM8	13:40	14:10	Sunny	0.5	71.5	74.8	62.0
Jan-03	16-Jan-03	NM2	13:00	13:30	sunny	0.4	67.7	69.5	61.5
Jan-03	16-Jan-03	NM3	13:35	14:05	sunny	0.4	63.5	66.4	60.2
Jan-03	16-Jan-03	NM4	14:15	14:45	sunny	0.6	68.5	70.8	63.5
Jan-03	16-Jan-03	NM6	16:20	16:50	sunny	0.7	69.2	71.5	63.0
Jan-03	16-Jan-03	NM7	15:35	16:05	sunny	0.6	68.5	72.5	64.4
Jan-03	16-Jan-03	NM8	14:55	15:25	sunny	0.7	70.8	74.5	63.5
Jan-03	22-Jan-03	NM2	13:00	13:30	sunny	0.3	64.9	68.5	60.5
Jan-03	22-Jan-03	NM3	13:40	14:10	sunny	0.2	63.0	64.5	59.0
Jan-03	22-Jan-03	NM4	14:30	15:00	sunny	0.3	64.6	67.5	59.0
Jan-03	22-Jan-03	NM6	10:55	11:25	sunny	0.2	65.2	68.0	61.0
Jan-03	22-Jan-03	NM7	10:15	10:45	sunny	0.2	64.0	66.0	60.5
Jan-03	22-Jan-03	NM8	9:40	10:10	sunny	0.3	67.9	70.5	64.5
Jan-03	29-Jan-03	NM2	9:30	10:00	Sunny	0.3	65.7	67.5	63.0
Jan-03	29-Jan-03	NM3	13:25	13:55	Sunny	0.4	64.4	66.5	59.5
Jan-03	29-Jan-03	NM4	13:15	13:45	Sunny	0.4	60.9	62.5	58.0
Jan-03	29-Jan-03	NM6	14:30	15:00	Sunny	0.3	66.2	68.0	62.5
Jan-03	29-Jan-03	NM7	14:25	14:55	Sunny	0.3	66.3	68.5	61.5
Jan-03	29-Jan-03	NM8	15:00	15:30	Sunny	0.4	74.7	77.0	70.5
Feb-03	06-Feb-03	NM2	13:10	13:40	sunny	0.4	65.0	68.5	62.5
Feb-03	06-Feb-03	NM3	13:45	14:15	sunny	0.3	62.5	64.0	60.0
Feb-03	06-Feb-03	NM4	14:25	14:55	sunny	0.4	62.0	65.5	60.5
Feb-03	06-Feb-03	NM6	16:15	16:45	sunny	0.5	67.5	70.0	63.0
Feb-03	06-Feb-03	NM7	15:00	15:30	sunny	0.5	67.0	69.5	61.5
Feb-03	06-Feb-03	NM8	15:35	16:05	sunny	0.5	70.0	73.5	67.5
Feb-03	12-Feb-03	NM2	13:00	13:30	sunny	0.3	66.0	68.5	60.0
Feb-03	12-Feb-03	NM3	13:45	14:15	sunny	0.3	63.0	65.0	58.0
Feb-03	12-Feb-03	NM4	14:40	15:10	sunny	0.5	65.5	69.0	60.5
Feb-03	12-Feb-03	NM6	9:30	10:00	sunny	0.3	67.0	69.5	62.0
Feb-03	12-Feb-03	NM7	11:00	11:30	sunny	0.4	64.0	67.5	62.0
Feb-03	12-Feb-03	NM8	10:20	10:50	sunny	0.5	72.1	75.0	67.0
Feb-03	19-Feb-03	NM2	13:00	13:30	sunny	0.4	64.5	66.0	60.0
Feb-03	19-Feb-03	NM3	13:40	14:10	sunny	0.3	63.0	65.0	59.0
Feb-03	19-Feb-03	NM4	11:30	12:00	sunny	0.4	63.5	66.0	60.5
Feb-03	19-Feb-03	NM6	10:50	11:20	sunny	0.4	65.8	67.0	60.0
Feb-03	19-Feb-03	NM7	10:00	10:30	sunny	0.4	67.0	68.0	62.5
Feb-03	19-Feb-03	NM8	9:25	9:55	sunny	0.6	71.5	75.0	66.0
Feb-03	26-Feb-03	NM2	13:00	13:30	Sunny	0.3	65.0	68.0	60.5
Feb-03	26-Feb-03	NM3	13:50	14:20	Sunny	0.4	63.5	66.0	60.5
Feb-03	26-Feb-03	NM4	9:15	9:45	Sunny	0.4	68.0	73.5	62.5
Feb-03	26-Feb-03	NM6	11:05	11:35	Sunny	0.5	67.0	70.5	63.0
Feb-03	26-Feb-03	NM7	14:30	15:00	Sunny	0.6	68.0	70.5	66.0
Feb-03	26-Feb-03	NM8	10:00	10:30	Sunny	0.5	74.2	76.5	69.0
Mar-03	07-Mar-03	NM2	8:40	9:10	Sunny	0.4	64.0	66.5	60.8
Mar-03	07-Mar-03	NM3	9:25	9:55	Sunny	0.3	62.0	63.8	57.5
Mar-03	07-Mar-03	NM4	10:05	10:35	Sunny	0.5	67.0	71.5	62.5
Mar-03	07-Mar-03	NM6	13:00	13:30	Sunny	0.6	68.5	73.5	64.0
Mar-03	07-Mar-03	NM7	11:30	12:00	Sunny	0.7	71.0	74.5	64.2
Mar-03	07-Mar-03	NM8	10:50	11:20	Sunny	0.6	70.4	75.0	63.0
Mar-03	12-Mar-03	NM2	14:10	14:40	Sunny	0.6	66.1	70.0	60.5
Mar-03	12-Mar-03	NM3	13:40	14:10	Sunny	0.4	63.5	66.5	54.0
Mar-03	12-Mar-03	NM4	11:20	11:50	Sunny	0.5	66.7	67.5	57.0
Mar-03	12-Mar-03	NM6	11:30	12:00	Sunny	0.6	69.3	72.5	61.5
Mar-03	12-Mar-03	NM7	10:45	11:15	Sunny	0.9	70.8	71.0	60.0
Mar-03	12-Mar-03	NM8	10:40	11:10	Sunny	0.7	71.4	71.0	62.5
Mar-03	19-Mar-03	NM2	13:05	13:35	Fine	0.5	65.7	68.0	60.0
Mar-03	19-Mar-03	NM3	11:25	11:55	Fine	0.4	66.1	70.0	51.0
Mar-03	19-Mar-03	NM4	10:40	11:10	Fine	0.5	70.7	73.0	63.0
Mar-03	19-Mar-03	NM6	9:50	10:20	Fine	0.4	66.3	68.0	58.0
Mar-03	19-Mar-03	NM7	8:20	8:50	Fine	0.5	73.0	75.5	61.5
Mar-03	19-Mar-03	NM8	9:05	9:35	Fine	0.4	66.5	69.0	58.5
Mar-03	27-Mar-03	NM2	11:30	12:00	sunny	0.5	68.8	71.0	54.5
Mar-03	27-Mar-03	NM3	13:15	13:45	sunny	0.3	65.8	67.5	59.5
Mar-03	27-Mar-03	NM4	9:00	9:30	sunny	0.4	67.3	70.5	57.5
Mar-03	27-Mar-03	NM6	11:25	11:55	sunny	0.5	69.9	72.0	56.5
Mar-03	27-Mar-03	NM7	10:00	10:30	sunny	0.6	70.2	73.0	58.5
Mar-03	27-Mar-03	NM8	10:10	10:40	sunny	0.4	68.7	71.5	54.5

Details of Evening time Noise Impact Monitoring

Month	Date	Set No.	NSR No.	Time periods		Weather condition	Avg. wind speed (m/s)	Noise Level dB(A)		
				Start	Finish			L_{eq}	L_{10}	L_{90}
Jan-03	08-Jan-03	1	NM3	19:00	19:05	fine	0.3	62.0	64.5	59.0
Jan-03	08-Jan-03	2	NM3	19:05	19:10	fine	0.3	60.5	62.0	58.5
Jan-03	08-Jan-03	3	NM3	19:10	19:15	fine	0.3	60.5	63.0	58.0
Jan-03	08-Jan-03	1	NM4	19:35	19:40	fine	0.4	62.5	65.0	59.0
Jan-03	08-Jan-03	2	NM4	19:40	19:45	fine	0.4	62.0	65.5	59.0
Jan-03	08-Jan-03	3	NM4	19:45	19:50	fine	0.4	62.5	65.5	59.0
Jan-03	08-Jan-03	1	NM6	20:30	20:35	fine	0.4	61.5	63.0	59.5
Jan-03	08-Jan-03	2	NM6	20:35	20:40	fine	0.4	60.5	62.0	58.0
Jan-03	08-Jan-03	3	NM6	20:40	20:45	fine	0.4	62.0	63.0	59.0
Jan-03	08-Jan-03	1	NM8	20:05	20:10	fine	0.4	61.5	63.0	59.0
Jan-03	08-Jan-03	2	NM8	20:10	20:15	fine	0.4	63.0	64.5	60.0
Jan-03	08-Jan-03	3	NM8	20:15	20:20	fine	0.4	62.0	65.0	60.0
Jan-03	16-Jan-03	1	NM3	20:20	20:25	fine	0.3	62.0	63.5	58.5
Jan-03	16-Jan-03	2	NM3	20:25	20:30	fine	0.3	63.2	64.0	59.0
Jan-03	16-Jan-03	3	NM3	20:30	20:35	fine	0.3	63.0	64.5	59.0
Jan-03	16-Jan-03	1	NM4	20:00	20:05	fine	0.4	62.0	63.5	59.5
Jan-03	16-Jan-03	2	NM4	20:05	20:10	fine	0.4	61.5	63.0	60.2
Jan-03	16-Jan-03	3	NM4	20:10	20:15	fine	0.4	61.8	63.0	60.0
Jan-03	16-Jan-03	1	NM6	19:30	19:35	fine	0.4	61.5	63.0	60.0
Jan-03	16-Jan-03	2	NM6	19:35	19:40	fine	0.4	63.0	64.5	60.5
Jan-03	16-Jan-03	3	NM6	19:40	19:45	fine	0.4	63.5	64.5	60.0
Jan-03	16-Jan-03	1	NM8	19:00	19:05	fine	0.3	62.5	65.0	58.5
Jan-03	16-Jan-03	2	NM8	19:05	19:10	fine	0.3	63.0	64.5	58.5
Jan-03	16-Jan-03	3	NM8	19:10	19:15	fine	0.3	63.0	65.0	59.0
Jan-03	22-Jan-03	1	NM3	20:15	20:20	fine	0.4	60.0	63.0	57.5
Jan-03	22-Jan-03	2	NM3	20:20	20:25	fine	0.4	60.0	63.0	59.6
Jan-03	22-Jan-03	3	NM3	20:25	20:30	fine	0.4	59.5	62.5	57.0
Jan-03	22-Jan-03	1	NM4	19:50	19:55	fine	0.3	61.2	63.0	58.0
Jan-03	22-Jan-03	2	NM4	19:55	20:00	fine	0.3	61.5	63.0	58.5
Jan-03	22-Jan-03	3	NM4	20:00	20:05	fine	0.3	61.5	62.5	58.0
Jan-03	22-Jan-03	1	NM6	19:25	19:30	fine	0.4	64.0	65.5	60.0
Jan-03	22-Jan-03	2	NM6	19:30	19:35	fine	0.4	64.5	66.0	60.5
Jan-03	22-Jan-03	3	NM6	19:35	19:40	fine	0.4	64.5	66.0	60.5
Jan-03	22-Jan-03	1	NM8	19:00	19:05	fine	0.3	61.5	63.8	58.0
Jan-03	22-Jan-03	2	NM8	19:05	19:10	fine	0.3	61.0	64.0	58.5
Jan-03	22-Jan-03	3	NM8	19:10	19:15	fine	0.3	60.0	63.5	58.0
Jan-03	29-Jan-03	1	NM3	19:10	19:15	fine	0.1	64.7	67.0	59.5
Jan-03	29-Jan-03	2	NM3	19:15	19:20	fine	0.1	64.8	67.0	61.0
Jan-03	29-Jan-03	3	NM3	19:20	19:25	fine	0.1	64.7	66.5	62.0
Jan-03	29-Jan-03	1	NM4	19:42	19:47	fine	1.2	58.2	61.5	52.5
Jan-03	29-Jan-03	2	NM4	19:47	19:52	fine	1.2	58.3	61.0	53.5
Jan-03	29-Jan-03	3	NM4	19:52	19:57	fine	1.2	60.1	63.0	64.5
Jan-03	29-Jan-03	1	NM6	20:40	20:45	fine	0.5	62.4	64.5	57.5
Jan-03	29-Jan-03	2	NM6	20:45	20:50	fine	0.5	63.5	65.5	59.0
Jan-03	29-Jan-03	3	NM6	20:50	20:55	fine	0.5	61.1	63.0	54.0
Jan-03	29-Jan-03	1	NM8	20:15	20:20	fine	0.8	50.4	51.5	48.5
Jan-03	29-Jan-03	2	NM8	20:20	20:25	fine	0.8	50.2	51.5	48.0
Jan-03	29-Jan-03	3	NM8	20:25	20:30	fine	0.8	52.4	54.5	49.0
Feb-03	06-Feb-03	1	NM3	20:30	20:35	fine	0.4	63.0	65.5	58.0
Feb-03	06-Feb-03	2	NM3	20:35	20:40	fine	0.4	63.5	66.0	59.5
Feb-03	06-Feb-03	3	NM3	20:40	20:45	fine	0.4	64.2	66.0	59.0
Feb-03	06-Feb-03	1	NM4	20:00	20:05	fine	0.4	59.0	62.0	61.5
Feb-03	06-Feb-03	2	NM4	20:05	20:10	fine	0.4	59.5	62.5	52.0
Feb-03	06-Feb-03	3	NM4	20:10	20:15	fine	0.4	58.5	62.0	51.0
Feb-03	06-Feb-03	1	NM6	19:35	19:40	fine	0.6	61.0	64.5	58.0
Feb-03	06-Feb-03	2	NM6	19:40	19:45	fine	0.6	60.5	64.0	58.5
Feb-03	06-Feb-03	3	NM6	19:45	19:50	fine	0.6	60.0	63.5	58.0
Feb-03	06-Feb-03	1	NM8	19:00	19:05	fine	0.6	56.0	58.5	52.0
Feb-03	06-Feb-03	2	NM8	19:05	19:10	fine	0.6	60.0	62.5	57.0
Feb-03	06-Feb-03	3	NM8	19:10	19:15	fine	0.6	58.0	60.5	53.5

Details of Evening time Noise Impact Monitoring

Month	Date	Set No.	NSR No.	Time periods		Weather condition	Avg. wind speed (m/s)	Noise Level dB(A)		
				Start	Finish			L_{eq}	L_{10}	L_{90}
Feb-03	12-Feb-03	1	NM3	20:30	20:35	fine	0.3	64.5	67.0	60.0
Feb-03	12-Feb-03	2	NM3	20:35	20:40	fine	0.3	63.0	66.0	58.0
Feb-03	12-Feb-03	3	NM3	20:40	20:45	fine	0.3	64.0	66.0	59.0
Feb-03	12-Feb-03	1	NM4	19:55	20:00	fine	0.3	59.0	61.5	53.5
Feb-03	12-Feb-03	2	NM4	20:00	20:05	fine	0.3	58.5	61.0	53.5
Feb-03	12-Feb-03	3	NM4	20:05	20:10	fine	0.3	59.0	61.5	53.0
Feb-03	12-Feb-03	1	NM6	19:30	19:35	fine	0.4	62.5	65.0	57.0
Feb-03	12-Feb-03	2	NM6	19:35	19:40	fine	0.4	63.0	65.5	58.0
Feb-03	12-Feb-03	3	NM6	19:40	19:45	fine	0.4	61.5	66.0	57.5
Feb-03	12-Feb-03	1	NM8	19:00	19:05	fine	0.3	53.0	57.5	50.0
Feb-03	12-Feb-03	2	NM8	19:05	19:10	fine	0.3	56.0	58.5	51.0
Feb-03	12-Feb-03	3	NM8	19:10	19:15	fine	0.3	57.0	60.0	51.0
Feb-03	19-Feb-03	1	NM3	20:25	20:30	fine	0.3	60.5	63.0	57.5
Feb-03	19-Feb-03	2	NM3	20:30	20:35	fine	0.3	60.0	62.0	57.0
Feb-03	19-Feb-03	3	NM3	20:35	20:40	fine	0.3	59.0	61.0	57.0
Feb-03	19-Feb-03	1	NM4	19:55	20:00	fine	0.4	61.5	63.0	58.0
Feb-03	19-Feb-03	2	NM4	20:00	20:05	fine	0.4	61.5	63.5	58.5
Feb-03	19-Feb-03	3	NM4	20:05	20:10	fine	0.4	62.0	63.5	58.5
Feb-03	19-Feb-03	1	NM6	19:00	19:05	fine	0.4	60.5	63.0	59.0
Feb-03	19-Feb-03	2	NM6	19:05	19:10	fine	0.4	63.0	65.0	60.0
Feb-03	19-Feb-03	3	NM6	19:10	19:15	fine	0.4	60.0	62.5	59.0
Feb-03	19-Feb-03	1	NM8	19:35	19:40	fine	0.5	61.5	63.5	58.0
Feb-03	19-Feb-03	2	NM8	19:40	19:45	fine	0.5	62.0	64.0	58.5
Feb-03	19-Feb-03	3	NM8	19:45	19:50	fine	0.5	62.0	63.5	58.0
Feb-03	26-Feb-03	1	NM3	20:40	20:45	fine	0.3	62.0	64.0	58.5
Feb-03	26-Feb-03	2	NM3	20:45	20:50	fine	0.3	63.5	65.5	59.0
Feb-03	26-Feb-03	3	NM3	20:50	20:55	fine	0.3	63.5	65.0	59.0
Feb-03	26-Feb-03	1	NM4	20:15	20:20	fine	0.4	60.0	62.0	58.5
Feb-03	26-Feb-03	2	NM4	20:20	20:25	fine	0.4	59.5	62.0	55.5
Feb-03	26-Feb-03	3	NM4	20:25	20:30	fine	0.4	60.5	63.0	58.0
Feb-03	26-Feb-03	1	NM6	19:40	19:45	fine	0.4	61.0	64.5	59.0
Feb-03	26-Feb-03	2	NM6	19:45	19:50	fine	0.4	60.5	64.5	58.5
Feb-03	26-Feb-03	3	NM6	19:50	19:55	fine	0.4	60.5	64.0	58.5
Feb-03	26-Feb-03	1	NM8	19:00	19:05	fine	0.3	58.5	61.0	57.0
Feb-03	26-Feb-03	2	NM8	19:05	19:10	fine	0.3	60.5	62.0	58.5
Feb-03	26-Feb-03	3	NM8	19:10	19:15	fine	0.3	61.0	62.5	58.5
Mar-03	05-Mar-03	1	NM3	20:50	20:55	fine	0.4	57.0	58.5	51.0
Mar-03	05-Mar-03	2	NM3	20:55	21:00	fine	0.4	58.5	60.0	53.0
Mar-03	05-Mar-03	3	NM3	21:00	21:05	fine	0.4	58.0	60.5	53.0
Mar-03	05-Mar-03	1	NM4	19:00	19:05	fine	0.3	56.5	58.0	56.0
Mar-03	05-Mar-03	2	NM4	19:05	19:10	fine	0.3	56.6	57.5	54.5
Mar-03	05-Mar-03	3	NM4	19:10	19:15	fine	0.3	56.3	59.0	50.0
Mar-03	05-Mar-03	1	NM6	20:10	20:15	fine	0.4	56.8	59.5	52.0
Mar-03	05-Mar-03	2	NM6	20:15	20:20	fine	0.4	56.0	59.8	51.0
Mar-03	05-Mar-03	3	NM6	20:20	20:25	fine	0.4	57.2	60.0	52.0
Mar-03	05-Mar-03	1	NM8	19:40	19:45	fine	0.5	54.5	55.5	51.5
Mar-03	05-Mar-03	2	NM8	19:45	19:50	fine	0.5	55.0	56.2	52.0
Mar-03	05-Mar-03	3	NM8	19:50	19:55	fine	0.5	54.0	56.0	51.0
Mar-03	12-Mar-03	1	NM3	19:30	19:35	fine	0.4	56.9	59.5	51.0
Mar-03	12-Mar-03	2	NM3	19:35	19:40	fine	0.4	57.9	60.0	51.5
Mar-03	12-Mar-03	3	NM3	19:40	19:45	fine	0.4	56.6	60.5	48.5
Mar-03	12-Mar-03	1	NM4	19:00	19:05	fine	0.5	59.7	62.5	54.5
Mar-03	12-Mar-03	2	NM4	19:05	19:10	fine	0.5	60.8	63.0	53.0
Mar-03	12-Mar-03	3	NM4	19:10	19:15	fine	0.5	60.7	63.0	53.0
Mar-03	12-Mar-03	1	NM6	20:00	20:05	fine	0.5	60.5	64.5	52.0
Mar-03	12-Mar-03	2	NM6	20:05	20:10	fine	0.5	60.5	63.5	53.0
Mar-03	12-Mar-03	3	NM6	20:10	20:15	fine	0.5	64.7	67.0	55.0
Mar-03	12-Mar-03	1	NM8	20:30	20:35	fine	0.5	62.2	65.5	53.5
Mar-03	12-Mar-03	2	NM8	20:35	20:40	fine	0.5	60.0	63.5	53.0
Mar-03	12-Mar-03	3	NM8	20:40	20:45	fine	0.5	61.6	65.5	52.0

Details of Evening time Noise Impact Monitoring

Month	Date	Set No.	NSR No.	Time periods		Weather condition	Avg. wind speed (m/s)	Noise Level dB(A)		
				Start	Finish			L_{eq}	L_{10}	L_{90}
Mar-03	19-Mar-03	1	NM3	19:00	19:05	fine	0.3	57.0	60.0	52.0
Mar-03	19-Mar-03	2	NM3	19:05	19:10	fine	0.3	59.5	61.5	53.0
Mar-03	19-Mar-03	3	NM3	19:10	19:15	fine	0.3	58.0	61.0	52.0
Mar-03	19-Mar-03	1	NM4	19:30	19:35	fine	0.4	60.5	67.0	58.0
Mar-03	19-Mar-03	2	NM4	19:35	19:40	fine	0.4	60.9	63.5	54.5
Mar-03	19-Mar-03	3	NM4	19:40	19:45	fine	0.4	60.0	63.0	56.0
Mar-03	19-Mar-03	1	NM6	19:55	20:00	fine	0.5	61.5	64.0	55.5
Mar-03	19-Mar-03	2	NM6	20:00	20:05	fine	0.5	60.5	65.0	56.0
Mar-03	19-Mar-03	3	NM6	20:05	20:10	fine	0.5	61.0	63.5	54.0
Mar-03	19-Mar-03	1	NM8	21:20	21:25	fine	0.5	61.0	63.5	54.0
Mar-03	19-Mar-03	2	NM8	21:25	21:30	fine	0.5	60.2	63.0	53.0
Mar-03	19-Mar-03	3	NM8	21:30	21:35	fine	0.5	62.0	65.0	55.5
Mar-03	27-Mar-03	1	NM3	19:00	19:05	fine	0.4	58.5	60.0	56.5
Mar-03	27-Mar-03	2	NM3	19:05	19:10	fine	0.4	60.5	62.5	58.5
Mar-03	27-Mar-03	3	NM3	19:10	19:15	fine	0.4	60.5	63.0	59.5
Mar-03	27-Mar-03	1	NM4	19:30	19:35	fine	0.3	63.5	66.0	60.6
Mar-03	27-Mar-03	2	NM4	19:35	19:40	fine	0.3	64.0	65.5	60.5
Mar-03	27-Mar-03	3	NM4	19:40	19:45	fine	0.3	63.0	65.0	60.5
Mar-03	27-Mar-03	1	NM6	20:35	20:40	fine	0.5	62.5	65.8	60.5
Mar-03	27-Mar-03	2	NM6	20:40	20:45	fine	0.5	63.5	66.5	61.0
Mar-03	27-Mar-03	3	NM6	20:45	20:50	fine	0.5	64.0	66.0	60.5
Mar-03	27-Mar-03	1	NM8	20:10	20:15	fine	0.4	61.5	65.0	58.5
Mar-03	27-Mar-03	2	NM8	20:15	20:20	fine	0.4	62.0	65.5	58.0
Mar-03	27-Mar-03	3	NM8	20:20	20:25	fine	0.4	61.5	66.0	59.0

APPENDIX 2

24-hour TSP Monitoring Results for January 2003 to March 2003

Details of 24-Hour TSP Monitoring

Filter No.	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 ($\mu g/m^3$)
						Initial	Final		Initial	Final		Start	Finish			
DQ73	Jan-03	02-Jan-03	AM2	Sunny	normal operation	3.7675	3.9531	0.1856	1.4685	1.3765	1.4225	2859.52	2883.52	1440.00	2048.40	90.6
DQ74	Jan-03	02-Jan-03	AM3	Sunny	normal operation	3.7565	3.8982	0.1417	1.2777	1.2767	1.2772	2790.93	2814.93	1440.00	1839.17	77.0
DQ76	Jan-03	02-Jan-03	AM4	Sunny	normal operation	3.6342	3.8326	0.1984	1.4748	1.3599	1.4174	2822.23	2846.22	1439.40	2040.13	97.2
DQ77	Jan-03	02-Jan-03	AM5	Sunny	normal operation	3.6312	3.8222	0.1910	1.7023	1.7005	1.7014	2386.91	2410.91	1440.00	2450.02	78.0
DQ78	Jan-03	02-Jan-03	AM6	Sunny	normal operation	3.6356	3.7568	0.1212	1.4423	1.3323	1.3873	960.31	984.31	1440.00	1997.71	60.7
DQ95	Jan-03	07-Jan-03	AM2	Sunny	normal operation	3.7356	3.8312	0.0956	1.4675	1.3848	1.4262	2883.52	2907.52	1440.00	2053.66	46.6
DQ96	Jan-03	07-Jan-03	AM3	Sunny	normal operation	3.7398	3.8262	0.0864	1.2767	1.2853	1.2810	2814.93	2838.93	1440.00	1844.64	46.8
DQ97	Jan-03	07-Jan-03	AM4	Sunny	normal operation	3.7263	3.8115	0.0852	1.4736	1.3697	1.4217	2846.22	2870.22	1440.00	2047.18	41.6
DQ98	Jan-03	07-Jan-03	AM5	Sunny	normal operation	3.7091	3.8085	0.0994	1.7374	1.7546	1.7460	2410.91	2434.91	1440.00	2514.24	39.5
DQ99	Jan-03	07-Jan-03	AM6	Sunny	normal operation	3.7131	3.7892	0.0761	1.3867	1.3417	1.3642	984.31	1008.31	1440.00	1964.45	38.7
DR29	Jan-03	13-Jan-03	AM2	Sunny	normal operation	3.8148	4.0382	0.2234	1.4420	1.3864	1.4142	2907.52	2931.52	1440.00	2036.45	109.7
DR30	Jan-03	13-Jan-03	AM3	Sunny	normal operation	3.8203	4.0202	0.1999	1.2720	1.2608	1.2664	2838.93	2862.93	1440.00	1823.62	109.6
DR31	Jan-03	13-Jan-03	AM4	Sunny	normal operation	3.8057	3.9984	0.1927	1.5139	1.4210	1.4675	2870.22	2894.22	1440.00	2113.13	91.2
DR32	Jan-03	13-Jan-03	AM5	Sunny	normal operation	3.7974	4.0464	0.2490	1.5177	1.4723	1.4950	2434.91	2458.91	1440.00	2152.80	115.7
DR33	Jan-03	13-Jan-03	AM6	Sunny	normal operation	3.7871	3.9587	0.1716	1.2842	1.2216	1.2529	1008.31	1032.31	1440.00	1804.18	95.1
SC53	Jan-03	22-Jan-03	AM2	Sunny	normal operation	3.5416	3.8521	0.3105	1.4781	1.3757	1.4269	2931.52	2955.52	1440.00	2054.74	151.1
SC54	Jan-03	18-Jan-03	AM3	Sunny	normal operation	3.5465	3.6840	0.1375	1.2608	1.1932	1.2270	2862.93	2886.93	1440.00	1766.88	77.8
SC55	Jan-03	18-Jan-03	AM4	Sunny	normal operation	3.5419	3.6637	0.1218	1.3402	1.3016	1.3209	2894.22	2918.22	1440.00	1902.10	64.0
SC56	Jan-03	18-Jan-03	AM5	Sunny	normal operation	3.5466	3.6785	0.1319	1.4134	1.3961	1.4048	2458.91	2482.91	1440.00	2022.84	65.2
SC57	Jan-03	18-Jan-03	AM6	Sunny	normal operation	3.5389	3.6419	0.1030	1.3267	1.2106	1.2687	1032.31	1056.31	1440.00	1826.86	56.4
DS57	Jan-03	25-Jan-03	AM2	Sunny	normal operation	3.5631	3.7557	0.1926	1.4662	1.3656	1.4159	2955.52	2979.52	1440.00	2038.90	94.5
DS58	Jan-03	25-Jan-03	AM3	Sunny	normal operation	3.5806	3.7656	0.1850	1.2478	1.2079	1.2279	2886.93	2910.93	1440.00	1768.10	104.6
DS59	Jan-03	25-Jan-03	AM4	Sunny	normal operation	3.5792	3.7786	0.1994	1.3282	1.3425	1.3354	2918.22	2942.22	1440.00	1922.90	103.7
DS60	Jan-03	25-Jan-03	AM5	Sunny	normal operation	3.5974	3.7912	0.1938	1.3670	1.3873	1.3772	2482.91	2506.90	1439.40	1982.27	97.8
DS61	Jan-03	25-Jan-03	AM6	Sunny	normal operation	3.6005	3.7604	0.1599	1.3144	1.2238	1.2691	1056.31	1080.31	1440.00	1827.50	87.5
DT08	Feb-03	04-Feb-03	AM2	Sunny	normal operation	3.5343	3.6366	0.1023	1.5265	1.4374	1.4820	2979.52	3003.52	1440.00	2134.01	47.9
DT09	Feb-03	04-Feb-03	AM3	Sunny	normal operation	3.5385	3.6173	0.0788	1.1525	1.1554	1.1540	2910.93	2934.93	1440.00	1661.69	47.4
DT10	Feb-03	04-Feb-03	AM4	Sunny	normal operation	3.5262	3.5830	0.0568	1.0724	1.0203	1.0464	2942.22	2966.22	1440.00	1506.74	37.7
DT11	Feb-03	04-Feb-03	AM5	Sunny	normal operation	3.5616	3.6713	0.1097	1.3873	1.3915	1.3894	2506.90	2530.91	1440.60	2001.57	54.8
DT12	Feb-03	04-Feb-03	AM6	Sunny	normal operation	3.5446	3.6311	0.0865	1.3028	1.2265	1.2647	1080.31	1104.31	1440.00	1821.10	47.5
DT47	Feb-03	07-Feb-03	AM2	Sunny	normal operation	3.6969	3.7910	0.0941	1.4835	1.3638	1.4237	3003.52	3027.52	1440.00	2050.06	45.9
DT48	Feb-03	07-Feb-03	AM3	Sunny	normal operation	3.7008	3.7915	0.0907	1.2667	1.2612	1.2640	2934.93	2958.93	1440.00	1820.09	49.8
DT49	Feb-03	07-Feb-03	AM4	Sunny	normal operation	3.7225	3.8142	0.0917	1.4540	1.3136	1.3838	2966.22	2990.22	1440.00	1992.67	46.0
DT51	Feb-03	07-Feb-03	AM5	Sunny	normal operation	3.7087	3.8214	0.1127	1.3915	1.3844	1.3880	2530.91	2554.91	1440.00	1998.65	56.4
DT52	Feb-03	07-Feb-03	AM6	Sunny	normal operation	3.5721	3.6443	0.0722	1.2794	1.2219	1.2507	1104.31	1128.31	1440.00	1800.94	40.1
DU03	Feb-03	13-Feb-03	AM2	Sunny	normal operation	3.7228	3.8278	0.1050	1.4785	1.3614	1.4200	3027.52	3051.52	1440.00	2044.73	51.4
DU04	Feb-03	13-Feb-03	AM3	Sunny	normal operation	3.7188	3.8164	0.0976	1.1505	1.2031	1.1768	2958.93	2982.93	1440.00	1694.59	57.6
DU05	Feb-03	13-Feb-03	AM4	Sunny	normal operation	3.7170	3.8146	0.0976	1.3944	1.3109	1.3527	2990.22	3014.22	1440.00	1947.82	50.1
DU06	Feb-03	13-Feb-03	AM5	Sunny	normal operation	3.7128	3.8374	0.1246	1.4139	1.4100	1.4120	2554.91	2578.91	1440.00	2033.21	61.3
DU07	Feb-03	13-Feb-03	AM6	Sunny	normal operation	3.7203	3.8109	0.0906	1.3271	1.2194	1.2733	1128.31	1152.32	1440.60	1834.24	49.4
DU13	Feb-03	18-Feb-03	AM2	Sunny	normal operation	3.7169	3.8241	0.1072	1.4757	1.3516	1.4137	3051.52	3075.52	1440.00	2035.66	52.7

Details of 24-Hour TSP Monitoring

Filter No.	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 ($\mu g/m^3$)
						Initial	Final		Initial	Final		Start	Finish			
DU14	Feb-03	18-Feb-03	AM3	Sunny	normal operation	3.7190	3.8283	0.1093	1.3134	1.1915	1.2525	2982.93	3006.93	1440.00	1803.53	60.6
DU15	Feb-03	18-Feb-03	AM4	Sunny	normal operation	3.7114	3.8080	0.0966	1.4453	1.3000	1.3727	3014.22	3038.22	1440.00	1976.62	48.9
DU16	Feb-03	18-Feb-03	AM5	Sunny	normal operation	3.5319	3.6558	0.1239	1.3806	1.3647	1.3727	2578.91	2602.91	1440.00	1976.62	62.7
DU17	Feb-03	18-Feb-03	AM6	Sunny	normal operation	3.5248	3.5667	0.0419	1.1670	1.0020	1.0845	1152.32	1176.32	1440.00	1561.68	26.8
DV03	Feb-03	24-Feb-03	AM2	Sunny	normal operation	3.6594	3.7866	0.1272	1.4193	1.3541	1.3867	3075.52	3099.52	1440.00	1996.85	63.7
DV04	Feb-03	24-Feb-03	AM3	Sunny	normal operation	3.6779	3.8016	0.1237	1.2460	1.1945	1.2203	3006.93	3030.93	1440.00	1757.16	70.4
DV05	Feb-03	24-Feb-03	AM4	Sunny	normal operation	3.6784	3.7956	0.1172	1.3797	1.3028	1.3413	3038.22	3062.22	1440.00	1931.40	60.7
DV06	Feb-03	24-Feb-03	AM5	Sunny	normal operation	3.6744	3.8184	0.1440	1.3647	1.3687	1.3667	2602.91	2626.91	1440.00	1968.05	73.2
DV07	Feb-03	24-Feb-03	AM6	Sunny	normal operation	3.6695	3.7719	0.1024	1.3127	1.2118	1.2623	1176.32	1200.32	1440.00	1817.64	56.3
DV60	Mar-03	01-Mar-03	AM2	Cloudy	normal operation	3.6749	3.7749	0.1000	1.4221	1.3542	1.3882	3099.52	3123.52	1440.00	1998.94	50.0
DV61	Mar-03	01-Mar-03	AM3	Cloudy	normal operation	3.6866	3.7872	0.1006	1.2218	1.2219	1.2219	3030.93	3054.93	1440.00	1759.46	57.2
DV62	Mar-03	01-Mar-03	AM4	Cloudy	normal operation	3.6935	3.7907	0.0972	1.3827	1.3029	1.3428	3062.22	3086.22	1440.00	1933.63	50.3
DV63	Mar-03	01-Mar-03	AM5	Cloudy	normal operation	3.6855	3.8143	0.1288	1.3687	1.3689	1.3688	2626.91	2650.90	1439.40	1970.25	65.4
DV64	Mar-03	01-Mar-03	AM6	Cloudy	normal operation	3.6827	3.7652	0.0825	1.2637	1.2378	1.2508	1200.32	1224.31	1439.40	1800.33	45.8
DV89	Mar-03	06-Mar-03	AM2	Sunny	normal operation	3.8007	3.9035	0.1028	1.4222	1.3900	1.4061	3123.52	3147.52	1440.00	2024.78	50.8
DV90	Mar-03	06-Mar-03	AM3	Sunny	normal operation	3.7882	3.8856	0.0974	1.2493	1.2652	1.2573	3054.93	3078.93	1440.00	1810.44	53.8
DV91	Mar-03	06-Mar-03	AM4	Sunny	normal operation	3.7936	3.8625	0.0689	1.1697	1.1818	1.1758	3086.22	3110.22	1440.00	1693.08	40.7
DV92	Mar-03	06-Mar-03	AM5	Sunny	normal operation	3.7984	3.8785	0.0801	1.3106	1.3304	1.3205	2650.90	2674.91	1440.60	1902.31	42.1
DV93	Mar-03	06-Mar-03	AM6	Sunny	normal operation	3.8056	3.8817	0.0761	1.2638	1.2781	1.2710	1224.31	1248.35	1442.40	1833.22	41.5
DW61	Mar-03	14-Mar-03	AM2	Sunny	normal operation	3.7622	3.8507	0.0885	1.2554	1.2523	1.2539	3171.51	3195.52	1440.60	1806.30	49.0
DW62	Mar-03	13-Mar-03	AM3	Sunny	normal operation	3.7597	3.8379	0.0782	1.2743	1.2726	1.2735	3102.93	3126.93	1440.00	1833.77	42.6
DW63	Mar-03	13-Mar-03	AM4	Sunny	normal operation	3.7534	3.8484	0.0950	1.4630	1.4609	1.4620	3134.23	3158.23	1440.00	2105.21	45.1
DW64	Mar-03	13-Mar-03	AM5	Sunny	normal operation	3.7549	3.8298	0.0749	1.4817	1.5415	1.5116	2698.91	2722.91	1440.00	2176.70	34.4
DW65	Mar-03	13-Mar-03	AM6	Sunny	normal operation	3.7684	3.8394	0.0710	1.5549	1.6429	1.5989	1272.38	1295.70	1399.20	2237.18	31.7
DY06	Mar-03	20-Mar-03	AM2	Sunny	normal operation	3.6450	3.7059	0.0609	1.1167	1.1126	1.1147	3219.52	3243.52	1440.00	1605.10	37.9
DY07	Mar-03	20-Mar-03	AM3	Sunny	normal operation	3.6421	3.7152	0.0731	1.2801	1.2741	1.2771	3150.93	3174.93	1440.00	1839.02	39.7
DY08	Mar-03	20-Mar-03	AM4	Sunny	normal operation	3.6402	3.7332	0.0930	1.4700	1.5250	1.4975	3182.23	3206.23	1440.00	2156.40	43.1
DY09	Mar-03	20-Mar-03	AM5	Sunny	normal operation	3.6568	3.7337	0.0769	1.3644	1.3568	1.3606	2746.59	2770.59	1440.00	1959.26	39.2
DY10	Mar-03	20-Mar-03	AM6	Sunny	normal operation	3.6540	3.7516	0.0976	1.6835	1.6751	1.6793	1319.70	1343.70	1440.00	2418.19	40.4
DY27	Mar-03	26-Mar-03	AM2	Sunny	normal operation	3.6565	3.7969	0.1404	1.2552	1.2477	1.2515	3243.52	3267.52	1440.00	1802.09	77.9
DY28	Mar-03	26-Mar-03	AM3	Sunny	normal operation	3.6519	3.7826	0.1307	1.2741	1.2367	1.2554	3174.93	3198.93	1440.00	1807.78	72.3
DY29	Mar-03	26-Mar-03	AM4	Sunny	normal operation	3.6410	3.7910	0.1500	1.4939	1.4827	1.4883	3206.23	3230.23	1440.00	2143.15	70.0
DY30	Mar-03	26-Mar-03	AM5	Sunny	normal operation	3.6469	3.8087	0.1618	1.4191	1.4071	1.4131	2770.59	2794.59	1440.00	2034.86	79.5
DY31	Mar-03	26-Mar-03	AM6	Sunny	normal operation	3.6299	3.7831	0.1532	1.7052	1.6923	1.6988	1343.70	1367.70	1440.00	2446.20	62.6

APPENDIX 3

1-hour TSP Monitoring Results for January 2003 to March 2003

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/g³)
				Start	Finish					
Jan-03	03-Jan-03	AM2	1	8:12	9:12	Sunny	normal operation	16.0	768.0	144.1
Jan-03	03-Jan-03	AM2	2	9:12	10:12	Sunny	normal operation	16.0	768.0	139.1
Jan-03	03-Jan-03	AM2	3	10:12	11:12	Sunny	normal operation	16.0	768.0	148.7
Jan-03	03-Jan-03	AM3	1	8:13	9:13	Sunny	normal operation	16.0	768.0	177.6
Jan-03	03-Jan-03	AM3	2	9:33	10:33	Sunny	normal operation	16.0	768.0	176.9
Jan-03	03-Jan-03	AM3	3	10:33	11:33	Sunny	normal operation	16.0	768.0	188.3
Jan-03	03-Jan-03	AM4	1	8:15	9:15	Sunny	normal operation	16.0	768.0	174.5
Jan-03	03-Jan-03	AM4	2	9:35	10:35	Sunny	normal operation	16.0	768.0	176.5
Jan-03	03-Jan-03	AM4	3	10:35	11:35	Sunny	normal operation	16.0	768.0	184.9
Jan-03	03-Jan-03	AM5	1	8:22	9:22	Sunny	normal operation	16.0	768.0	142.4
Jan-03	03-Jan-03	AM5	2	9:22	10:22	Sunny	normal operation	16.0	768.0	144.1
Jan-03	03-Jan-03	AM5	3	10:22	11:22	Sunny	normal operation	16.0	768.0	142.3
Jan-03	03-Jan-03	AM6	1	8:12	9:12	Sunny	normal operation	16.0	768.0	148.2
Jan-03	03-Jan-03	AM6	2	9:27	10:27	Sunny	normal operation	16.0	768.0	153.9
Jan-03	03-Jan-03	AM6	3	10:27	11:27	Sunny	normal operation	16.0	768.0	162.0
Jan-03	08-Jan-03	AM2	1	9:24	10:24	Sunny	normal operation	11.0	770.0	205.5
Jan-03	08-Jan-03	AM2	2	10:59	11:59	Sunny	normal operation	11.0	770.0	225.4
Jan-03	08-Jan-03	AM2	3	13:04	14:04	Sunny	normal operation	11.0	770.0	187.0
Jan-03	08-Jan-03	AM3	1	9:01	10:01	Sunny	normal operation	11.0	770.0	205.9
Jan-03	08-Jan-03	AM3	2	10:56	11:56	Sunny	normal operation	11.0	770.0	220.9
Jan-03	08-Jan-03	AM3	3	13:01	14:01	Sunny	normal operation	11.0	770.0	183.5
Jan-03	08-Jan-03	AM4	1	9:15	10:15	Sunny	normal operation	11.0	770.0	176.3
Jan-03	08-Jan-03	AM4	2	10:55	11:55	Sunny	normal operation	11.0	770.0	193.7
Jan-03	08-Jan-03	AM4	3	13:00	14:00	Sunny	normal operation	11.0	770.0	141.0
Jan-03	08-Jan-03	AM5	1	9:29	10:29	Sunny	normal operation	11.0	770.0	177.8
Jan-03	08-Jan-03	AM5	2	10:54	11:54	Sunny	normal operation	11.0	770.0	196.6
Jan-03	08-Jan-03	AM5	3	13:04	14:04	Sunny	normal operation	11.0	770.0	157.2
Jan-03	08-Jan-03	AM6	1	9:14	10:14	Sunny	normal operation	11.0	770.0	178.6
Jan-03	08-Jan-03	AM6	2	10:54	11:54	Sunny	normal operation	11.0	770.0	192.0
Jan-03	08-Jan-03	AM6	3	13:04	14:04	Sunny	normal operation	11.0	770.0	188.5
Jan-03	16-Jan-03	AM2	1	13:03	14:03	Sunny	normal operation	17.0	769.0	199.6
Jan-03	16-Jan-03	AM2	2	14:03	15:03	Sunny	normal operation	17.0	769.0	193.8
Jan-03	16-Jan-03	AM2	3	15:03	16:03	Sunny	normal operation	17.0	769.0	239.4
Jan-03	16-Jan-03	AM3	1	13:08	14:08	Sunny	normal operation	17.0	769.0	225.9
Jan-03	16-Jan-03	AM3	2	14:08	15:08	Sunny	normal operation	17.0	769.0	233.3
Jan-03	16-Jan-03	AM3	3	15:08	16:08	Sunny	normal operation	17.0	769.0	206.2
Jan-03	16-Jan-03	AM4	1	13:06	14:06	Sunny	normal operation	17.0	769.0	139.5
Jan-03	16-Jan-03	AM4	2	14:06	15:06	Sunny	normal operation	17.0	769.0	141.0
Jan-03	16-Jan-03	AM4	3	15:06	16:06	Sunny	normal operation	17.0	769.0	147.9
Jan-03	16-Jan-03	AM5	1	13:05	14:05	Sunny	normal operation	17.0	769.0	156.0
Jan-03	16-Jan-03	AM5	2	14:05	15:05	Sunny	normal operation	17.0	769.0	160.3
Jan-03	16-Jan-03	AM5	3	15:05	16:05	Sunny	normal operation	17.0	769.0	158.6
Jan-03	16-Jan-03	AM6	1	13:07	14:07	Sunny	normal operation	17.0	769.0	157.5
Jan-03	16-Jan-03	AM6	2	14:07	15:07	Sunny	normal operation	17.0	769.0	154.9
Jan-03	16-Jan-03	AM6	3	15:07	16:07	Sunny	normal operation	17.0	769.0	157.3
Jan-03	22-Jan-03	AM2	1	9:38	10:38	Sunny	normal operation	22.0	762.0	280.8
Jan-03	22-Jan-03	AM2	2	10:38	11:38	Sunny	normal operation	22.0	762.0	277.9
Jan-03	22-Jan-03	AM2	3	13:13	14:13	Sunny	normal operation	22.0	762.0	260.7
Jan-03	22-Jan-03	AM3	1	9:35	10:35	Sunny	normal operation	22.0	762.0	275.4
Jan-03	22-Jan-03	AM3	2	10:35	11:35	Sunny	normal operation	22.0	762.0	269.8
Jan-03	22-Jan-03	AM3	3	13:15	14:15	Sunny	normal operation	22.0	762.0	254.8
Jan-03	22-Jan-03	AM4	1	9:33	10:33	Sunny	normal operation	22.0	762.0	324.2
Jan-03	22-Jan-03	AM4	2	10:58	11:58	Sunny	normal operation	22.0	762.0	318.0
Jan-03	22-Jan-03	AM4	3	13:18	14:18	Sunny	normal operation	22.0	762.0	301.8
Jan-03	22-Jan-03	AM5	1	9:33	10:33	Sunny	normal operation	22.0	762.0	294.9
Jan-03	22-Jan-03	AM5	2	10:58	11:58	Sunny	normal operation	22.0	762.0	290.6
Jan-03	22-Jan-03	AM5	3	13:23	14:23	Sunny	normal operation	22.0	762.0	273.9
Jan-03	22-Jan-03	AM6	1	9:48	10:48	Sunny	normal operation	22.0	762.0	255.3
Jan-03	22-Jan-03	AM6	2	10:58	11:58	Sunny	normal operation	22.0	762.0	262.6
Jan-03	22-Jan-03	AM6	3	13:08	14:08	Sunny	normal operation	22.0	762.0	242.6

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-03	29-Jan-03	AM2	1	9:57	10:57	Sunny	normal operation	16.0	770.3	200.6
Jan-03	29-Jan-03	AM2	2	10:57	11:57	Sunny	normal operation	16.0	770.3	193.7
Jan-03	29-Jan-03	AM2	3	13:57	14:57	Sunny	normal operation	16.0	770.3	181.6
Jan-03	29-Jan-03	AM3	1	9:50	10:50	Sunny	normal operation	16.0	770.3	188.2
Jan-03	29-Jan-03	AM3	2	10:50	11:50	Sunny	normal operation	16.0	770.3	184.2
Jan-03	29-Jan-03	AM3	3	13:50	14:50	Sunny	normal operation	16.0	770.3	163.2
Jan-03	29-Jan-03	AM4	1	14:28	15:28	Sunny	normal operation	16.0	770.3	173.0
Jan-03	29-Jan-03	AM4	2	15:28	16:28	Sunny	normal operation	16.0	770.3	172.4
Jan-03	29-Jan-03	AM4	3	16:28	17:28	Sunny	normal operation	16.0	770.3	168.8
Jan-03	29-Jan-03	AM5	1	9:50	10:50	Sunny	normal operation	16.0	770.3	217.2
Jan-03	29-Jan-03	AM5	2	10:50	11:50	Sunny	normal operation	16.0	770.3	209.4
Jan-03	29-Jan-03	AM5	3	13:50	14:50	Sunny	normal operation	16.0	770.3	203.2
Jan-03	29-Jan-03	AM6	1	9:45	10:45	Sunny	normal operation	16.0	770.3	216.4
Jan-03	29-Jan-03	AM6	2	10:45	11:45	Sunny	normal operation	16.0	770.3	210.5
Jan-03	29-Jan-03	AM6	3	13:45	14:45	Sunny	normal operation	16.0	770.3	200.1
Feb-03	06-Feb-03	AM2	1	13:16	14:16	Sunny	normal operation	14.0	770.0	240.7
Feb-03	06-Feb-03	AM2	2	14:16	15:16	Sunny	normal operation	14.0	770.0	224.3
Feb-03	06-Feb-03	AM2	3	15:16	16:16	Sunny	normal operation	14.0	770.0	215.0
Feb-03	06-Feb-03	AM3	1	13:15	14:15	Sunny	normal operation	14.0	770.0	202.0
Feb-03	06-Feb-03	AM3	2	14:15	15:15	Sunny	normal operation	14.0	770.0	209.0
Feb-03	06-Feb-03	AM3	3	15:15	16:15	Sunny	normal operation	14.0	770.0	228.2
Feb-03	06-Feb-03	AM4	1	13:06	14:06	Sunny	normal operation	14.0	770.0	204.1
Feb-03	06-Feb-03	AM4	2	14:06	15:06	Sunny	normal operation	14.0	770.0	231.4
Feb-03	06-Feb-03	AM4	3	15:06	16:06	Sunny	normal operation	14.0	770.0	217.8
Feb-03	06-Feb-03	AM5	1	13:19	14:19	Sunny	normal operation	14.0	770.0	213.3
Feb-03	06-Feb-03	AM5	2	14:19	15:19	Sunny	normal operation	14.0	770.0	221.7
Feb-03	06-Feb-03	AM5	3	15:19	16:19	Sunny	normal operation	14.0	770.0	226.0
Feb-03	06-Feb-03	AM6	1	13:18	14:18	Sunny	normal operation	14.0	770.0	236.6
Feb-03	06-Feb-03	AM6	2	14:18	15:18	Sunny	normal operation	14.0	770.0	222.8
Feb-03	06-Feb-03	AM6	3	15:18	16:18	Sunny	normal operation	14.0	770.0	223.2
Feb-03	12-Feb-03	AM2	1	8:55	9:55	Sunny	normal operation	16.0	767.0	157.4
Feb-03	12-Feb-03	AM2	2	9:55	10:55	Sunny	normal operation	16.0	767.0	166.2
Feb-03	12-Feb-03	AM2	3	10:55	11:55	Sunny	normal operation	16.0	767.0	164.8
Feb-03	12-Feb-03	AM3	1	8:59	9:59	Sunny	normal operation	16.0	767.0	192.8
Feb-03	12-Feb-03	AM3	2	9:59	10:59	Sunny	normal operation	16.0	767.0	204.8
Feb-03	12-Feb-03	AM3	3	10:59	11:59	Sunny	normal operation	16.0	767.0	200.0
Feb-03	12-Feb-03	AM4	1	8:53	9:53	Sunny	normal operation	16.0	767.0	157.4
Feb-03	12-Feb-03	AM4	2	9:53	10:53	Sunny	normal operation	16.0	767.0	166.7
Feb-03	12-Feb-03	AM4	3	10:53	11:53	Sunny	normal operation	16.0	767.0	164.1
Feb-03	12-Feb-03	AM5	1	8:59	9:59	Sunny	normal operation	16.0	767.0	176.6
Feb-03	12-Feb-03	AM5	2	9:59	10:59	Sunny	normal operation	16.0	767.0	184.1
Feb-03	12-Feb-03	AM5	3	10:59	11:59	Sunny	normal operation	16.0	767.0	177.5
Feb-03	12-Feb-03	AM6	1	8:55	9:55	Sunny	normal operation	16.0	767.0	185.0
Feb-03	12-Feb-03	AM6	2	9:55	10:55	Sunny	normal operation	16.0	767.0	195.9
Feb-03	12-Feb-03	AM6	3	10:55	11:55	Sunny	normal operation	16.0	767.0	191.5
Feb-03	14-Feb-03	AM2	1	8:38	9:38	Sunny	normal operation	17.0	765.0	190.3
Feb-03	14-Feb-03	AM2	2	9:38	10:38	Sunny	normal operation	17.0	765.0	173.7
Feb-03	14-Feb-03	AM2	3	10:38	11:38	Sunny	normal operation	17.0	765.0	191.9
Feb-03	14-Feb-03	AM3	1	8:40	9:40	Sunny	normal operation	17.0	765.0	211.4
Feb-03	14-Feb-03	AM3	2	9:40	10:40	Sunny	normal operation	17.0	765.0	198.1
Feb-03	14-Feb-03	AM3	3	10:40	11:40	Sunny	normal operation	17.0	765.0	211.7
Feb-03	14-Feb-03	AM4	1	8:43	9:43	Sunny	normal operation	17.0	765.0	212.2
Feb-03	14-Feb-03	AM4	2	9:43	10:43	Sunny	normal operation	17.0	765.0	196.0
Feb-03	14-Feb-03	AM4	3	10:43	11:43	Sunny	normal operation	17.0	765.0	208.4
Feb-03	14-Feb-03	AM5	1	8:39	9:39	Sunny	normal operation	17.0	765.0	182.5
Feb-03	14-Feb-03	AM5	2	9:39	10:39	Sunny	normal operation	17.0	765.0	163.5
Feb-03	14-Feb-03	AM5	3	10:39	11:39	Sunny	normal operation	17.0	765.0	181.1
Feb-03	14-Feb-03	AM6	1	8:37	9:37	Sunny	normal operation	17.0	765.0	181.1
Feb-03	14-Feb-03	AM6	2	9:37	10:37	Sunny	normal operation	17.0	765.0	169.0
Feb-03	14-Feb-03	AM6	3	10:37	11:37	Sunny	normal operation	17.0	765.0	181.7

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/g³)
				Start	Finish					
Feb-03	19-Feb-03	AM2	1	8:59	9:59	Sunny	normal operation	24.0	764.3	238.1
Feb-03	19-Feb-03	AM2	2	9:59	10:59	Sunny	normal operation	24.0	764.3	209.6
Feb-03	19-Feb-03	AM2	3	10:59	11:59	Sunny	normal operation	24.0	764.3	197.0
Feb-03	19-Feb-03	AM3	1	8:44	9:44	Sunny	normal operation	24.0	764.3	223.3
Feb-03	19-Feb-03	AM3	2	9:44	10:44	Sunny	normal operation	24.0	764.3	194.6
Feb-03	19-Feb-03	AM3	3	10:44	11:44	Sunny	normal operation	24.0	764.3	195.8
Feb-03	19-Feb-03	AM4	1	8:40	9:40	Sunny	normal operation	24.0	764.3	249.0
Feb-03	19-Feb-03	AM4	2	9:40	10:40	Sunny	normal operation	24.0	764.3	212.5
Feb-03	19-Feb-03	AM4	3	10:40	11:40	Sunny	normal operation	24.0	764.3	211.2
Feb-03	19-Feb-03	AM5	1	8:56	9:56	Sunny	normal operation	24.0	764.3	230.3
Feb-03	19-Feb-03	AM5	2	9:56	10:56	Sunny	normal operation	24.0	764.3	201.1
Feb-03	19-Feb-03	AM5	3	10:56	11:56	Sunny	normal operation	24.0	764.3	195.0
Feb-03	19-Feb-03	AM6	1	8:50	9:50	Sunny	normal operation	24.0	764.3	262.0
Feb-03	19-Feb-03	AM6	2	9:50	10:50	Sunny	normal operation	24.0	764.3	229.0
Feb-03	19-Feb-03	AM6	3	10:50	11:50	Sunny	normal operation	24.0	764.3	227.7
Feb-03	26-Feb-03	AM2	1	8:47	9:47	Sunny	normal operation	22.0	764.0	229.3
Feb-03	26-Feb-03	AM2	2	9:47	10:47	Sunny	normal operation	22.0	764.0	200.0
Feb-03	26-Feb-03	AM2	3	10:47	11:47	Sunny	normal operation	22.0	764.0	221.9
Feb-03	26-Feb-03	AM3	1	8:46	9:46	Sunny	normal operation	22.0	764.0	203.1
Feb-03	26-Feb-03	AM3	2	10:51	11:51	Sunny	normal operation	22.0	764.0	203.8
Feb-03	26-Feb-03	AM3	3	13:06	14:06	Sunny	normal operation	22.0	764.0	198.9
Feb-03	26-Feb-03	AM4	1	8:46	9:46	Sunny	normal operation	22.0	764.0	208.2
Feb-03	26-Feb-03	AM4	2	10:51	11:51	Sunny	normal operation	22.0	764.0	211.2
Feb-03	26-Feb-03	AM4	3	13:06	14:06	Sunny	normal operation	22.0	764.0	205.5
Feb-03	26-Feb-03	AM5	1	8:48	9:48	Sunny	normal operation	22.0	764.0	211.1
Feb-03	26-Feb-03	AM5	2	9:53	10:53	Sunny	normal operation	22.0	764.0	221.2
Feb-03	26-Feb-03	AM5	3	13:03	14:03	Sunny	normal operation	22.0	764.0	216.5
Feb-03	26-Feb-03	AM6	1	8:57	9:57	Sunny	normal operation	22.0	764.0	194.5
Feb-03	26-Feb-03	AM6	2	10:57	11:57	Sunny	normal operation	22.0	764.0	202.6
Feb-03	26-Feb-03	AM6	3	13:07	14:07	Sunny	normal operation	22.0	764.0	197.5
Mar-03	07-Mar-03	AM2	1	8:45	9:45	Sunny	normal operation	13.0	765.0	177.0
Mar-03	07-Mar-03	AM2	2	9:45	10:45	Sunny	normal operation	13.0	765.0	179.4
Mar-03	07-Mar-03	AM2	3	10:50	11:50	Sunny	normal operation	13.0	765.0	174.9
Mar-03	07-Mar-03	AM3	1	8:40	9:40	Sunny	normal operation	13.0	765.0	203.4
Mar-03	07-Mar-03	AM3	2	9:45	10:45	Sunny	normal operation	13.0	765.0	199.5
Mar-03	07-Mar-03	AM3	3	10:55	11:55	Sunny	normal operation	13.0	765.0	195.2
Mar-03	07-Mar-03	AM4	1	8:43	9:43	Sunny	normal operation	13.0	765.0	172.8
Mar-03	07-Mar-03	AM4	2	9:43	10:43	Sunny	normal operation	13.0	765.0	174.6
Mar-03	07-Mar-03	AM4	3	10:58	11:58	Sunny	normal operation	13.0	765.0	173.3
Mar-03	07-Mar-03	AM5	1	8:48	9:48	Sunny	normal operation	13.0	765.0	156.9
Mar-03	07-Mar-03	AM5	2	9:48	10:48	Sunny	normal operation	13.0	765.0	163.5
Mar-03	07-Mar-03	AM5	3	10:58	11:58	Sunny	normal operation	13.0	765.0	167.1
Mar-03	07-Mar-03	AM6	1	8:34	9:34	Sunny	normal operation	13.0	765.0	180.1
Mar-03	07-Mar-03	AM6	2	9:39	10:39	Sunny	normal operation	13.0	765.0	182.2
Mar-03	07-Mar-03	AM6	3	10:59	11:59	Sunny	normal operation	13.0	765.0	183.9
Mar-03	12-Mar-03	AM2	1	9:49	10:49	Sunny	normal operation	19.0	768.0	156.9
Mar-03	12-Mar-03	AM2	2	10:59	11:59	Sunny	normal operation	19.0	768.0	139.4
Mar-03	12-Mar-03	AM2	3	13:04	14:04	Sunny	normal operation	19.0	768.0	132.1
Mar-03	12-Mar-03	AM3	1	9:53	10:53	Sunny	normal operation	19.0	768.0	188.4
Mar-03	12-Mar-03	AM3	2	10:58	11:58	Sunny	normal operation	19.0	768.0	176.2
Mar-03	12-Mar-03	AM3	3	13:03	14:03	Sunny	normal operation	19.0	768.0	180.5
Mar-03	12-Mar-03	AM4	1	9:43	10:43	Sunny	normal operation	19.0	768.0	175.8
Mar-03	12-Mar-03	AM4	2	10:58	11:58	Sunny	normal operation	19.0	768.0	160.2
Mar-03	12-Mar-03	AM4	3	13:58	14:58	Sunny	normal operation	19.0	768.0	163.5
Mar-03	12-Mar-03	AM5	1	10:05	11:05	Sunny	normal operation	19.0	768.0	149.9
Mar-03	12-Mar-03	AM5	2	13:05	14:05	Sunny	normal operation	19.0	768.0	140.6
Mar-03	12-Mar-03	AM5	3	14:10	15:10	Sunny	normal operation	19.0	768.0	173.7
Mar-03	12-Mar-03	AM6	1	10:04	11:04	Sunny	normal operation	19.0	768.0	153.1
Mar-03	12-Mar-03	AM6	2	11:04	12:04	Sunny	normal operation	19.0	768.0	143.1
Mar-03	12-Mar-03	AM6	3	13:04	14:04	Sunny	normal operation	19.0	768.0	132.7

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-03	19-Mar-03	AM2	1	8:18	9:18	Fine	normal operation	15.0	766.0	173.6
Mar-03	19-Mar-03	AM2	2	10:58	11:58	Fine	normal operation	15.0	766.0	174.0
Mar-03	19-Mar-03	AM2	3	13:03	14:03	Fine	normal operation	15.0	766.0	176.0
Mar-03	19-Mar-03	AM3	1	8:23	9:23	Fine	normal operation	15.0	766.0	159.5
Mar-03	19-Mar-03	AM3	2	9:58	10:58	Fine	normal operation	15.0	766.0	157.1
Mar-03	19-Mar-03	AM3	3	10:58	11:58	Fine	normal operation	15.0	766.0	168.2
Mar-03	19-Mar-03	AM4	1	9:31	10:31	Fine	normal operation	15.0	766.0	189.6
Mar-03	19-Mar-03	AM4	2	10:56	11:56	Fine	normal operation	15.0	766.0	198.1
Mar-03	19-Mar-03	AM4	3	13:51	14:51	Fine	normal operation	15.0	766.0	208.8
Mar-03	19-Mar-03	AM5	1	9:56	10:56	Fine	normal operation	15.0	766.0	146.0
Mar-03	19-Mar-03	AM5	2	10:56	11:56	Fine	normal operation	15.0	766.0	159.3
Mar-03	19-Mar-03	AM5	3	13:36	14:36	Fine	normal operation	15.0	766.0	170.3
Mar-03	19-Mar-03	AM6	1	8:26	9:26	Fine	normal operation	15.0	766.0	148.2
Mar-03	19-Mar-03	AM6	2	9:56	10:56	Fine	normal operation	15.0	766.0	146.8
Mar-03	19-Mar-03	AM6	3	10:56	11:56	Fine	normal operation	15.0	766.0	148.5
Mar-03	21-Mar-03	AM2	1	9:29	10:29	Sunny	normal operation	18.0	765.0	181.2
Mar-03	21-Mar-03	AM2	2	10:59	11:59	Sunny	normal operation	18.0	765.0	176.1
Mar-03	21-Mar-03	AM2	3	14:15	15:15	Sunny	normal operation	18.0	765.0	155.4
Mar-03	21-Mar-03	AM3	1	9:11	10:11	Sunny	normal operation	18.0	765.0	189.5
Mar-03	21-Mar-03	AM3	2	10:56	11:56	Sunny	normal operation	18.0	765.0	180.5
Mar-03	21-Mar-03	AM3	3	13:01	14:01	Sunny	normal operation	18.0	765.0	150.2
Mar-03	21-Mar-03	AM4	1	9:09	10:09	Sunny	normal operation	18.0	765.0	184.7
Mar-03	21-Mar-03	AM4	2	10:59	11:59	Sunny	normal operation	18.0	765.0	178.9
Mar-03	21-Mar-03	AM4	3	13:04	14:04	Sunny	normal operation	18.0	765.0	155.3
Mar-03	21-Mar-03	AM5	1	9:27	10:27	Sunny	normal operation	18.0	765.0	210.8
Mar-03	21-Mar-03	AM5	2	10:57	11:57	Sunny	normal operation	18.0	765.0	205.2
Mar-03	21-Mar-03	AM5	3	13:02	14:02	Sunny	normal operation	18.0	765.0	183.5
Mar-03	21-Mar-03	AM6	1	9:26	10:26	Sunny	normal operation	18.0	765.0	216.8
Mar-03	21-Mar-03	AM6	2	10:26	11:26	Sunny	normal operation	18.0	765.0	203.5
Mar-03	21-Mar-03	AM6	3	11:26	12:26	Sunny	normal operation	18.0	765.0	206.8
Mar-03	27-Mar-03	AM2	1	8:50	9:50	Sunny	normal operation	22.0	762.0	202.4
Mar-03	27-Mar-03	AM2	2	9:50	10:50	Sunny	normal operation	22.0	762.0	156.1
Mar-03	27-Mar-03	AM2	3	10:50	11:50	Sunny	normal operation	22.0	762.0	158.6
Mar-03	27-Mar-03	AM3	1	8:53	9:53	Sunny	normal operation	22.0	762.0	203.2
Mar-03	27-Mar-03	AM3	2	9:58	10:58	Sunny	normal operation	22.0	762.0	164.8
Mar-03	27-Mar-03	AM3	3	10:58	11:58	Sunny	normal operation	22.0	762.0	173.8
Mar-03	27-Mar-03	AM4	1	8:48	9:48	Sunny	normal operation	22.0	762.0	231.1
Mar-03	27-Mar-03	AM4	2	9:48	10:48	Sunny	normal operation	22.0	762.0	189.2
Mar-03	27-Mar-03	AM4	3	10:48	11:48	Sunny	normal operation	22.0	762.0	188.3
Mar-03	27-Mar-03	AM5	1	8:43	9:43	Sunny	normal operation	22.0	762.0	233.5
Mar-03	27-Mar-03	AM5	2	9:43	10:43	Sunny	normal operation	22.0	762.0	189.7
Mar-03	27-Mar-03	AM5	3	10:53	11:53	Sunny	normal operation	22.0	762.0	184.9
Mar-03	27-Mar-03	AM6	1	8:39	9:39	Sunny	normal operation	22.0	762.0	203.2
Mar-03	27-Mar-03	AM6	2	9:39	10:39	Sunny	normal operation	22.0	762.0	163.2
Mar-03	27-Mar-03	AM6	3	10:49	11:49	Sunny	normal operation	22.0	762.0	144.4

APPENDIX 4

Correspondences of the Public Complaints from January 2003 to March 2003

本署檔號
OUR REF: EP 580/E6/3/9
來函檔號
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

10 January 2003

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

(Attn: Mr Sam Tsoi)

Arup Acoustics File No. 23156
Received 13 JAN 2003

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
<u>Public Complaint</u>

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

Enclosed please find 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 action to us within 2 weeks.

Yours faithfully,

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

<u>Encl.</u>

c.c. (all w/e)	TDD	(Attn: Mr. George Mak	Fax.: 2721 8630)
	Maunsell	(Attn: Mr. Y H Fung	Fax.: 2643 3559)
	CHEC	(Attn: Mr Chan Man	Fax.: 2492 3701)

NOTICE OF COMPLAINT

Complaint Ref. : N01/TN/00000277-03

ICC Ref:

CASE DETAILS

(1) Incident 09/01/2003

(2) Incident Location : KAM YING COURT, 地址 :
N01 - SHA TIN

(3) TPU : 757

(4) Description : COMPLAINT OF GENERAL CONSTRUCTION NOISE EXCEPT RENOVATION FROM A SITE NEAR KAM YING COURT . SHA TIN

(5) Nature	(6) Affected Party	(7) Pollution Pattern
N66-General construction noise except renovation	DMS-Domestic Premises	C-Continuous, DE-Day & Evening, A-Daily

(8) Priority class : C - Routine i.e. substantive reply to be made on or before 30/01/2003

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 : 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 : 先生投訴在馬鞍山近錦英苑錦良閣對出的公路地盤,於平日07:00-23:00及公眾假期開工,發出很大的聲浪,要求跟進

ACTION OFFICERS

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

INFORMATION INPUTTED BY

Name : HAUE3 Date : 09/01/2003 - Time : 11:07

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

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 Lane, Ma On Shan
Telephone : 2643 9020
Fax : 2643 3559
E-mail : t7cso@netvigator.com

Your Ref.:
Our Ref. : T7/(ST86/2000)/M05/412(0153)

13 January 2003

The Agent
China Harbour Engineering Company (Group)
9 Lok Wo Sha Lane
Ma On Shan, N.T.

Dear Sir,

Sha Tin New Town Stage II
Contract No. ST 86/2000
Construction of Road T7 in Ma On Shan
Environmental Complaint EC-51
Noise Nuisance from Works near Kam Ying Court

I attach for your attention and necessary action a copy of EPD's letter ref. EP 580/E6/3/9 dated 10 January 2003 regarding the captioned on 9 January 2003.

Yours faithfully,

K H Cheng
Senior Resident Engineer

Encl.
KHC:cc

cc : MCAL
OAP – w/o encl. (by fax only)
CHEC – HO

本署檔號 OUR REF: EP 580/E6/3/9
來函檔號 YOUR REF:
電話 TEL. NO.:
圖文傳真 FAX NO.: 2158 5823
電子郵件 E-MAIL: 2685 1155
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 2003

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

(Attn: Mr Sam Tsoi)

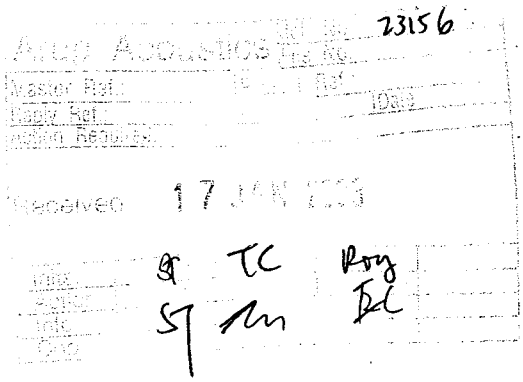
By Fax Only
(Fax : 2865 6493)
Total 2 pages

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 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 action 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. George Mak Fax.: 2721 8630)
Maunsell (Attn: Mr. Y H Fung Fax.: 2643 3559)
CHEC (Attn: Mr Chan Man Fax.: 2492 3701)

NOTICE OF COMPLAINT

Complaint Ref. : N01/TN/00000405-03

ICC Ref:

CASE DETAILS

(1) Incident 13/01/2003

(2) Incident Location : KAM YING COURT, 地址 :
N01 - SHA TIN

(3) TPU : 757

(4) Description : COMPLAINT OF SUNDAY CONSTRUCTION NOISE FROM THE CONSTRUCTION SITE OPPOSITE TO KAM YING COURT . 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 05/02/2003

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 : 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 : 先生投訴上址錦英苑對出,拓展署T7路地盤工程,於星期日開工,要求EPD儘快跟進.

ACTION OFFICERS

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

INFORMATION INPUTTED BY

Name : HAUE1 Date : 13/01/2003 Time : 11:38

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

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 Lane, Ma On Shan
Telephone : 2643 9020
Fax : 2643 3559
E-mail : t7cso@netvigator.com

Your Ref.:
Our Ref. : T7/(ST86/2000)/M05/412(0155)

20 January 2003

The Agent
China Harbour Engineering Company (Group)
9 Lok Wo Sha Lane
Ma On Shan, N.T.

Dear Sir,

Sha Tin New Town Stage II
Contract No. ST 86/2000
Construction of Road T7 in Ma On Shan
Environmental Complaint EC-52
Noise Nuisance from Works near Kam Ying Court on Sunday

I attach for your attention and necessary action a copy of EPD's letter ref. EP 580/E6/3/9 dated 16 January 2003 regarding the captioned on 12 January 2003.

Yours faithfully,

K H Cheng
Senior Resident Engineer

Arup Acoustics Job No. 23156
File No.
Master Ref. AA4410
Project Ref.
Reply Ref.
By
Date
Action Required
Received 20 JAN 2003
ST on sick leave

Inits	ST	FL	TC	Roy
Action				KL
Info.		FL	Tm	
Copy				

Encl.
KHC:cc

cc : MCAL
OAP – w/o encl. (by fax only)
CHEC – HO

15-JAN-2003 18:00 +852 2685 1155

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

本署檔號 OUR REF: EP 580/E6/3/9
來函檔號 YOUR REF:
話 TEL NO.:
圖文傳真 FAX NO.: 2158 5823
電子郵件 E-MAIL: 2685 1155
網 址 Homepage: http://www.info.gov.hk/epd/

16 January 2003

Contract No. ST86/20)		
IN	Trunk Road T7	
File No. :	M05/412	
Rec'd : 17 JAN 2003		
MCAL RSS	A/I	C
CRE		
SRE 1	I	
SRE 2	I	
SLS LS		
RE 1.2.3.6	I	
RE		
QS		
ARE		
ARE		
SIOW 1	I	✓
SIOW 2	I	✓
IOW		
...(C)		
...mitted :		

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 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 action 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. George Mak	Fax.: 2721 8630)
Maunsell	(Attn: Mr. Y H Fung	Fax.: 2643 3559)
CHEC	(Attn: Mr Chan Man	Fax.: 2492 3701)

NOTICE OF COMPLAINT

Complaint Ref. : N01/TN/00000405-03

ICC Ref:

CASE DETAILS

(1) Incident 13/01/2003

(2) Incident Location : KAM YING COURT, N01 - SHA TIN 地址 :

(3) TPU : 757

(4) Description : COMPLAINT OF SUNDAY CONSTRUCTION NOISE FROM THE CONSTRUCTION SITE OPPOSITE TO KAM YING COURT , 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 05/02/2003

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 : 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 : 先生投訴上址錦天苑對出,拓展署T7路地盤工程,於星期日開工,要求EPD盡快跟進.

ACTION OFFICERS

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

INFORMATION INPUTTED BY

Name : HAUE1 Date : 13/01/2003 Time : 11:38

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

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

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Sha Tin, N.T., Hong Kong
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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

CHINA HARBOUR ENG. CO. (GROUP)
Contract T 7 - Ma On Shan
22 JAN 2003
RECEIVED
Subject File : 01.01I
Serial No : 04350

Your Ref.:
Our Ref. : T7/(ST86/2000)/M05/412(0158)

21 January 2003

The Agent
China Harbour Engineering Company (Group)
9 Lok Wo Sha Lane
Ma On Shan, N.T.

Dear Sir,

Sha Tin New Town Stage II
Contract No. ST 86/2000
Construction of Road T7 in Ma On Shan
Environmental Complaint EC-53
Noise Nuisance in Night-time near Cheung Muk Tau

I attach herewith for your attention and necessary action a copy of ICC case ref. 1-20015209 dated 20 January 2003 regarding the captioned complaint.

Yours faithfully,

K H Cheng
Senior Resident Engineer

Encl.
KHC:cc

cc : MCAL
CHEC – HO

ICC CASE: 1-20015209

Request Type : Complaint
Channel : Phone
Case Creation Date : 2003-01-20 03:16:16

DUE DATE:

Acknowledgement : 2003-01-21 03:16:16
Interm Reply :
Final Reply :

ASSIGNMENT HISTORY:

[Date/Time]	[Status]	[Dept]	[Assigned To]
2003-01-20 03:16:17	Cancelled	ICC	Shirley WONG
2003-01-20 10:49:24	Open	TDD	TDD

EVENT DETAILS:

Event Date & Time : 2003-01-20 03:16

EVENT LOCATION:

Room :
Floor :
Block No. :
Building Name :
Estate : 輝木圍村
Street No. :
Street Name :
District : Ma On Shan (馬鞍山)
Region : NT

CONTACT INFORMATION:

Last Name : Ms. 楊
First Name : .
Alt Name :
Contact Address :
Daytime No. :
Nighttime No. :
Mobile : 90233946
Alt Tel No. :
Fax :
Email Address :

Case Source : General Public

CASE DETAILS:

Subject Matter : Territory Development Department - DQ

Description :

已電 TDD-NT EAST 23011393, 劉小姐表示如確定是TDD的工程便可立即轉介給她們跟進,傳真號碼: 27218630

========

已電27623938, hyd officer梁生表示該位置並非道路工程,應是拓展署進行高速公路建設工程,應轉介給拓展署跟進

========

楊小姐投訴, 樟木頭村村入口至該路被掘起進行西鐵工程. 現時有一輛泥頭車在運作, 發出噪音. 楊小姐表示不是第一次深夜時份工作, 要求部門跟進.

(她提供不到街道名, 工程位置對面是帝琴灣低座)

Specific Questions and Answers :

中國港灣建設(集團)總公司
香港代表： 振華工程有限公司
CHINA HARBOUR ENGINEERING COMPANY (GROUP)
HONG KONG REPRESENTATIVE: ZHEN HUA ENGINEERING CO., LTD.

Date : 21 January 2003
Our Ref: T7/01.01/O/05724

Arup Acoustics Job No. 23156
File No.
Master Ref: [illegible] Project Ref:
Reply Ref: By: Date
Action Required:
Received 22 JAN 2003
Inits ST TL Roy
Action
Info. ST Tm DL
Copy

Maunsell Consultants Asia Ltd.
7 Lok Wo Sha Lane,
Ma On Shan,

Attention: Mr. K H Cheng- SRE

Dear Sir,

Contract No. ST86/2000
Sha Tin New Town, Stage II
Construction of Road T7 in Ma On Shan
Environmental Complaint EC-51 & EC-52 – Noise nuisance from construction works near Kam Ying Court on 9 and 13 January 2003

We refer to your letter dated 13 and 20 January 2003 regarding the captioned complaint involving the carrying out of construction works near Kam Ying Court.

To suit the progress of the works, we have obtained two Construction Noise Permits from EPD of no.: GW-TN0522-2002 and GW-TN0294-2002 to conduct construction works from 07:00 to 23:00 (from Monday to Sunday, including general holiday). For your information, we have already reduced the amount of prescribed construction works to a minimal as practical as possible in order to reduce the noise nuisance arising from works near Kam Leung House.

Noise measurements have been conducted on 10, 18, 19 and 20 January 2003 at the rooftop of Kam Leung House and Kam Yiu House at Kam Ying Court (witnessed by staff from Maunsell Consultant Asia Limited). The results showed that the construction noise levels were below the limit level as stated. Similar types of noise monitoring will be continued in the coming future.

Thank you very much for your kind attention.

Yours faithfully,
For and on behalf of
China Harbour Engineering Co. (Group)

Chan Man
Project Manager

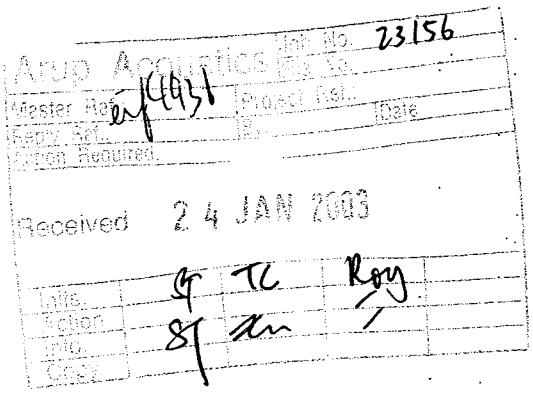
CM/[illegible]
c.c. MCAL – H.O.
CHEC – H.O.
EPD- Mr. Jack Kan (F: 2685 1155)
OAP – Mr. Thomas Chan (F: 2268 3950)
TDD – Mr. George Mak
WW, ST, KCW, FC

HERE

香港北角英皇道 370-374 號振華大廈 19 樓
19/F., China Harbour Building, 370-374 King's Road, North Point, Hong Kong.
Tel: (852) 2887 8118 Fax: (852) 2512 0427 Website: http://www.chechk.com

中國港灣建設(集團)總公司
香港代表: 振華工程有限公司
CHINA HARBOUR ENGINEERING COMPANY (GROUP)
HONG KONG REPRESENTATIVE: ZHEN HUA ENGINEERING CO., LTD.

Date : 23 January 2003
Our Ref. : T7/01.01/O/05834



Maunsell Consultants Asia Ltd.
7 Lok Wo Sha Lane
Ma On Shan,
N.T.

Attention: Mr. K.H. Cheng- SRE

Dear Sir,

Contract No. ST86/2000
Sha Tin New Town, Stage II
Construction of Road T7 in Ma On Shan
Environmental Complaint EC-53 – Noise nuisance in Night-time near Cheung Muk Tau

We refer to your letter dated 21 January 2003 regarding the captioned complaint involving the operation of a dump truck near Cheung Muk Tau Village in the early morning.

Please be informed that we have not carried out any construction activity around the area after 19:00 each day (no construction activity will be carried out on Sunday and public holiday). Through joint inspection MCAL inspectory staff on 20 January 2003 afternoon we did not observe any signs of dumping work operated by others as well.

However, we would instruct our night-time watchman on duty at this location to pay special attention to any dump truck operation and we will take necessary actions to prohibit any dump truck operation at restricted working hours.

Thank you very much for your kind attention.

Yours faithfully,
For and on behalf of
China Harbour Engineering Co. (Group)

.....
Chan Man
Project Manager

CM/CL/PL/GT/fc

c.c. MCAL – H.O.
CHEC – H.O.
OAP – Mr. Thomas Chan (F: 2268 3950)
TDD – Mr. George Mak

香港北角英皇道 370-374 號振華大厦 19 樓
19/F., China Harbour Building, 370-374 King's Road, North Point, Hong Kong.
Tel: (852) 2887 8118 Fax: (852) 2512 0427 Website: http://www.chec.com

本署檔號 OUR REF: EP 580/E6/3/9
來函檔號 YOUR REF:
電話 TEL. NO.:
圖文傳真 FAX NO.: 2158 5823
電子郵件 E-MAIL: 2685 1155
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

20 January 2003

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

(Attn: Mr Sam Tsoi)

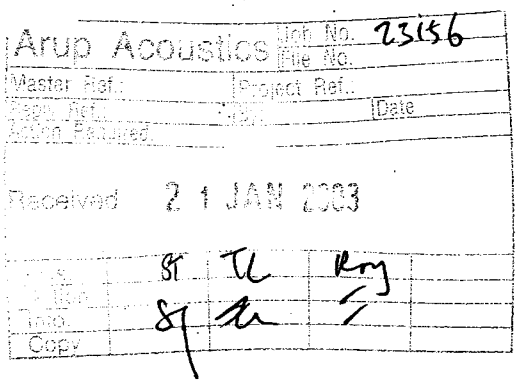
By Fax Only
(Fax : 2865 6493)
Total 2 pages

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 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 action 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. George Mak Fax.: 2721 8630)
Maunsell (Attn: Mr. Y H Fung Fax.: 2643 3559)
CHEC (Attn: Mr Chan Man Fax.: 2492 3701)

NOTICE OF COMPLAINT

Complaint Ref. : N01/TN/00000665-03

ICC Ref:

T7

CASE DETAILS

(1) Incident 18/01/2003

(2) Incident Location : 地址 : 翠擁華庭,
N01 - SHA TIN

(3) TPU : 757

(4) Description : COMPLAINT OF GENERAL CONSTRUCTION NOISE (DURING PUBLIC HOLIDAY) FROM A CONSTRUCTION SITE BEHIND 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 12/02/2003

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 : 姓名 :

(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 : - 馬鞍山翠擁華庭後山有地盤.

ACTION OFFICERS

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

INFORMATION INPUTTED BY

Name : HAUE4 Date : 18/01/2003 Time : 09:54

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

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 Lane, Ma On Shan
Telephone : 2643 9020
Fax : 2643 3559
E-mail : t7cso@netvigator.com

Your Ref.:
Our Ref. : T7/(ST86/2000)/M05/412(0159)

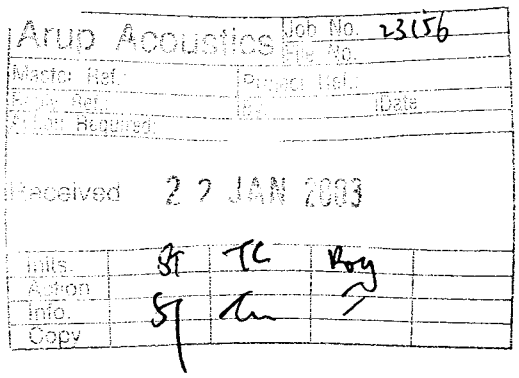
22 January 2003

The Agent
China Harbour Engineering Company (Group)
9 Lok Wo Sha Lane
Ma On Shan, NT

Dear Sirs,

Shatin New Town Stage II
Contract No. ST86/2000
Construction of Road T7 in Ma On Shan
Environmental Complaint EC-54
Noise Nuisance from Works near Monte Vista

I attach herewith for your attention and necessary action a copy of EPD's letter ref. EP 580/E6/3/9 dated 20 January 2003 regarding the captioned complaint on 18 January 2003.



Yours faithfully,

K H Cheng
Senior Resident Engineer

KHC:jt

Encl.

cc : MCAL
OAP – w/o encl. (by fax only)
CHEC – HO

22 JAN 2003 10:22

本署檔號 OUR REF: EP 580/E6/3/9
來函檔號 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

20 January 2003

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
<u>Public Complaint</u>

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

Enclosed please find 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 action to us within 2 weeks.

Contract No. ST86/2000		
IN	Trunk Road T7	
File No.: MOS 4/2-(156)		
Recd: 20 JAN 2003		
MCAL BSM	A/I	C
CRE		
SRE 1		
SRE 2		
SLS		
RE		
RE		
QS		
ARE		
ARE		
SIOW 1		
SIOW 2		
IOW		
STO(C)		
Replied :		

Yours faithfully,

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

<u>Encl.</u>

c.c. (all w/e)	TDD	(Attn: Mr. George Mak	Fax.: 2721 8630)
	Maunsell	(Attn: Mr. Y H Fung	Fax.: 2643 3559)
	CHEC	(Attn: Mr Chan Man	Fax.: 2492 3701)

NOTICE OF COMPLAINT

Complaint Ref. : N01/TN/00000665-03

ICC Ref:

T7

CASE DETAILS

(1) Incident 18/01/2003

(2) Incident Location : 地址 : 翠擁華庭,
N01 - SHA TIN

(3) TPU : 757

(4) Description : COMPLAINT OF GENERAL CONSTRUCTION NOISE (DURING PUBLIC HOLIDAY) FROM A CONSTRUCTION SITE BEHIND 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 12/02/2003

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 :
姓名 :

(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 : - 馬鞍山翠擁華庭後山有地盤

ACTION OFFICERS

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

INFORMATION INPUTTED BY

Name : HAUE4 Date : 18/01/2003 Time : 09:54

中國港灣建設(集團)總公司
香港代表： 振華工程有限公司
CHINA HARBOUR ENGINEERING COMPANY (GROUP)
HONG KONG REPRESENTATIVE: ZHEN HUA ENGINEERING CO., LTD.

Date : 25 January 2003
Our Ref.: T7/01.01/O/05881

23156

24960

Maunsell Consultants Asia Ltd.
7 Lok Wo Sha Lane, Ma On Shan,
N.T.

Attention : Mr. Albert Lam - CRE

Dear Sir,

Contract No. ST86/2000
Sha Tin New Town, Stage II
Construction of Road T7 in Ma On Shan
Environmental Complaint EC-54 – Noise nuisance from Works near Monte Vista

We refer to your letter dated 22 January 2003 regarding the captioned complaint involving the carrying out of construction works near Monte Vista during public holiday.

We have obtained the Construction Noise Permit (CNP) of no. GW-TN0550-2002 from Environmental Protection Department so as to suit the progress of the works in TC5 & TC6 area. And according to our site records on that day, the powered mechanical equipments used near Monte Vista was covered by this CNP.

We will instruct our site foreman assigned on Sunday duty to ensure the construction works compile with the conditions stated in the CNP and to keep the noise nuisance to minimal as practical as possible.

Thank you very much for your kind attention.

Yours faithfully,
For and on behalf of
China Harbour Engineering Co. (Group)

Chan Man
Project Manager

CM/CL/PY/GT
c.c. MCAL – H.O.
TDD – Mr. George Mak
EPD- Mr. Jack Kan (F: 2685 1155)
OAP – Mr. Thomas Chan (F: 2268 3950)
CHEC – H.O.
Int: WW/KCW

本署檔號 OUR REF: EP 580/E6/3/9
來函檔號 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 February 2003

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

10022863

(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
<u>Public Complaint</u>

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

Enclosed please find 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 action to us within 2 weeks.

Contract No. ST86/2000 — Trunk Road T7 — File No.: MOS/412 — Recd - 6 FEB 2003

Yours faithfully,

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

<u>Encl.</u>

c.c. (all w/e)	TDD	(Attn: Mr. George Mak	Fax.: 2721 8630)
	Maunsell	(Attn: Mr. Y H Fung	Fax.: 2643 3559)
	CHEC	(Attn: Mr. Chan Man	Fax.: 2492 3701)

NOTICE OF COMPLAINT

Complaint Ref. : N01/TN/00001216-03

ICC Ref:

CASE DETAILS

(1) Incident 06/02/2003

(2) Incident Location : N01 - SHA TIN : 地址： 翠擁華庭,

(3) TPU : 757

(4) Description : COMPLAINT OF GENERAL CONSTRUCTION NOISE FROM A CONSTRUCTION SITE NEXT TO MONTE VISTA, MA ON SHAN, 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 27/02/2003

DETAILS OF THE SUSPECTED POLLUTER

(1) Premises Name : 姓名： 拓展處地盤

(2) Premises Address : 地址：

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

POLLUTER HISTORY

Complaint Ref No.	Complainant ID	Date of Complaint	Substantive Reply Date	Nature Code

COMPLAINANT

(1) Name :

(2) Tel. No. : Day :
Night :
Mobile:

(3) Address : 地址： 翠擁華庭, 9 座

(4) Email Address :

CHANNEL OF COMPLAINT

Source channel: 01 - Phone

Source code : P - Public

Remarks : -

ACTION OFFICERS

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

INFORMATION INPUTTED BY

Name : HAU[illegible] Date : 06/02/2003 Time : 10:27

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

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 Lane, Ma On Shan
Telephone : 2643 9020
Fax : 2643 3559
E-mail : t7cso@netvigator.com

CHINA HARBOUR ENG. CO. (GROUP)
Contract T7 - Ma On Shan
- 6 FEB 2003
RECEIVED
Subject File : 01.01 I
Serial No : 04423

Your Ref.:
Our Ref. : T7/(ST86/2000)/M05/412(0169)

6 February 2003

The Agent
China Harbour Engineering Company (Group)
9 Lok Wo Sha Lane
Ma On Shan, NT

Dear Sirs,

Shatin New Town Stage II
Contract No. ST86/2000
Construction of Road T7 in Ma On Shan
Environmental Complaint EC-56
Noise Nuisance from Works near Block 9 of Monte Vista

I attach herewith for your attention and necessary action a copy of EPD's letter ref. EP 580/E6/3/9 dated 6 February 2003 regarding the captioned complaint on the same day.

Yours faithfully,

[signature]

K H Cheng
Senior Resident Engineer

KHC:jt

Encl.

cc : MCAL
OAP – w/o encl. (by fax only)
CHEC – HO

中國港灣建設(集團)總公司
香港代表: 振華工程有限公司
CHINA HARBOUR ENGINEERING COMPANY (GROUP)
HONG KONG REPRESENTATIVE: ZHEN HUA ENGINEERING CO., LTD.

Date : 8 February 2003
Our Ref.: T7/01.01/O/05930

Maunsell Consultants Asia Ltd.
7 Lok Wo Sha Lane, Ma On Shan,
N.T.

Attention: Mr. Albert Lam- CRE

Dear Sir,

Contract No. ST86/2000
Sha Tin New Town, Stage II
Construction of Road T7 in Ma On Shan
Environmental Complaint EC-56 – Noise nuisance from Works near Block 9 of Monte Vista

We refer to your letter dated 6 February 2003 regarding the captioned complaint involving the carrying out of construction works near Block 9 of Monte Vista.

For your information, 2-3 excavator-mounted breakers were used to carry out the rock-breaking activity at the slope opposite to Monte Vista. Noise measurements have been conducted on 6 & 8 February 2003 and the noise levels measured (L_{eq30}) at the rooftop of Block 9 of Monte Vista were within the acceptable noise level (i.e. not higher than 75 dB (A)) when working behind the solid noise barriers.

We will continue to monitor the sound level closely and will keep the noise nuisance to minimal as practical as possible.

Thank you very much for your kind attention.

Yours faithfully,
For and on behalf of
China Harbour Engineering Co. (Group)

.....
Chan Man
Project Manager

CM/[illegible]/fc
c.c. MCAL – H.O.
CHEC – H.O.
TDD – Mr. George Mak
EPD- Mr. Jack Kan (F: 2685 1155)
OAP – Mr. Thomas Chan (F: 2268 3950)