



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

OCTOBER 2002 TO DECEMBER 2002

Prepared For:

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2002**

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Date 13 January 2003

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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 October 2002 to December 2002.

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).

Thirteen measurements were taken at each location during 0700-1900 and twelve measurements were taken at NM3 and NM4 and eleven measurements were taken at NM6 and NM8 during 1900-2300 from October 2002 to December 2002. The recorded noise levels were in the range from 57.1 to 72.5 dB(A) during 0700-1900 and from 58.4 to 66.5 dB (A) during 1900-2300. All measurements were below the Limit Level of 70dB(A) at NM2 and 75dB(A) at other locations during 0700-1900, and below the Limited Level of 70 dB(A) during 1900-2300 for monitoring locations.

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

A total of fifteen 24-hour TSP monitoring were conducted at AM2, AM3, AM4 and AM5 and six 24-hour TSP monitoring were conducted at AM6 from October 2002 to December 2002. The electrical cable of the HVS at AM6 was damaged by the waste collector in early October 2002, which caused temporary suspension of the 24-hour TSP monitoring in October and early November 2002. The HVS at AM6 had been repaired since 21 November 2002 and the monitoring was resumed on 26 November 2002. The recorded 24-hour TSP levels were in the range from 22.4 to 118.1 $\mu\text{g}/\text{m}^3$ and were below the Action and Limit Levels.

A total of forty-five 1-hour TSP monitoring were conducted at each location from October 2002 to December 2002. The recorded 1-hour TSP levels were in the range from 73.8 to 280.7 $\mu\text{g}/\text{m}^3$ and were below the Action and Limit Levels.

A total of 163 loads of waste from site clearance (i.e. felled trees) have been disposed of at NENT Landfill from October 2002 to December 2002. The total tonnage of the waste disposal from October 2002 to December 2002 was 1,250.3 tonnes.

A total of 7,204 loads of rocks ($\phi > 400\text{mm}$) have been disposed of at the follow government project sites from October 2002 to December 2002:

- *TDD Contract No. YL 46/99 Tin Shui Wai Further Development – Road D3 and Constructed Wetland,*
- *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 total quantity of the disposed rocks was 45,130.9 m³ from October 2002 to December 2002.

A total of 206 loads of inert material have been disposed of at Public Filling Area from October 2002 to December 2002. The total quantity of the disposed inert materials was 1,176.0 m³ from October 2002 to December 2002.

ET was informed by the CT that EPD visited the site on 04/10/02, 15/10/02, 04/11/02, 02/12/02, 05/12/02, 15/12/02 and 29/12/02.

Six public complaints regarding construction noise were received on 23/10/02, 05/11/02, 23/11/02, 30/11/02, 16/12/02 and 30/12/02 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 October 2002 to December 2002.

1.2 Site Description

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

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



2. ENVIRONMENTAL STATUS

2.1 Construction Activities in the Quarter

The main construction activities in the period from October 2002 to December 2002 were slope formation and bridge construction. Construction works for the retaining wall were carried out near the casting yard. The rock excavation activities were still in progress at the slope behind Monte Vista. Construction works of tunnel was in progress at Portal D area near Cheung Muk Tau Village. Bridge construction works was in progress at TA and TB 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.

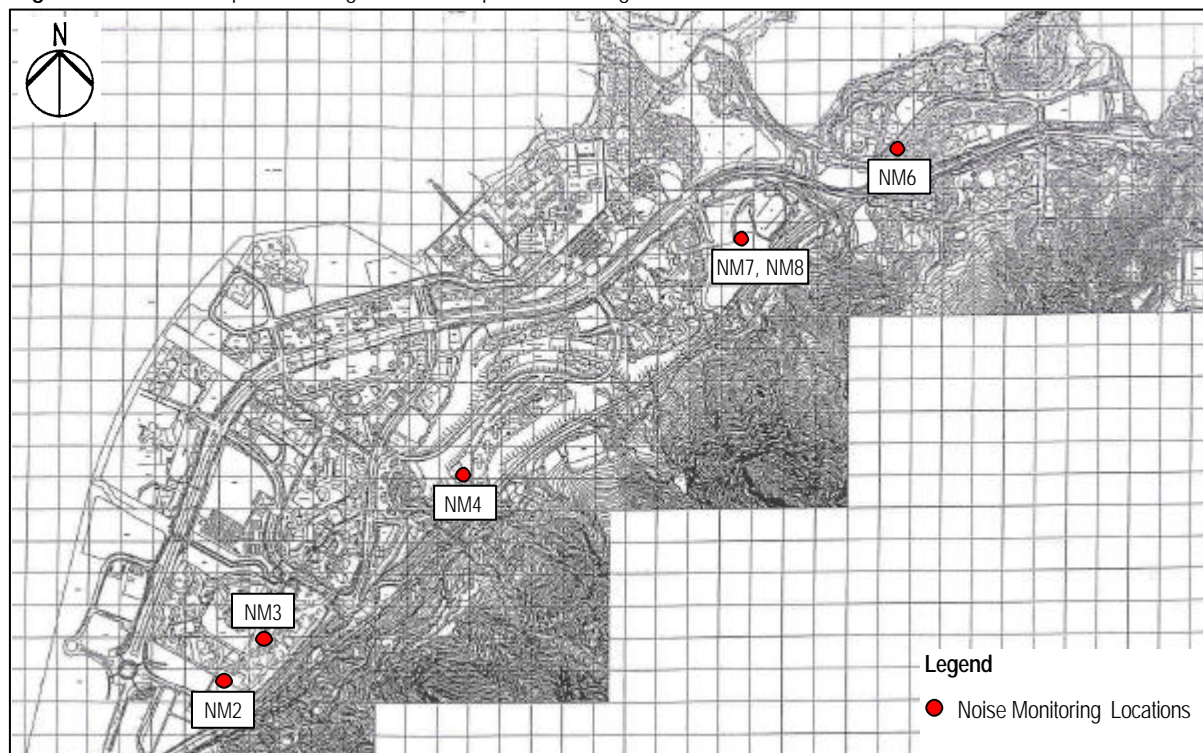
3.1.3 Monitoring Locations

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.

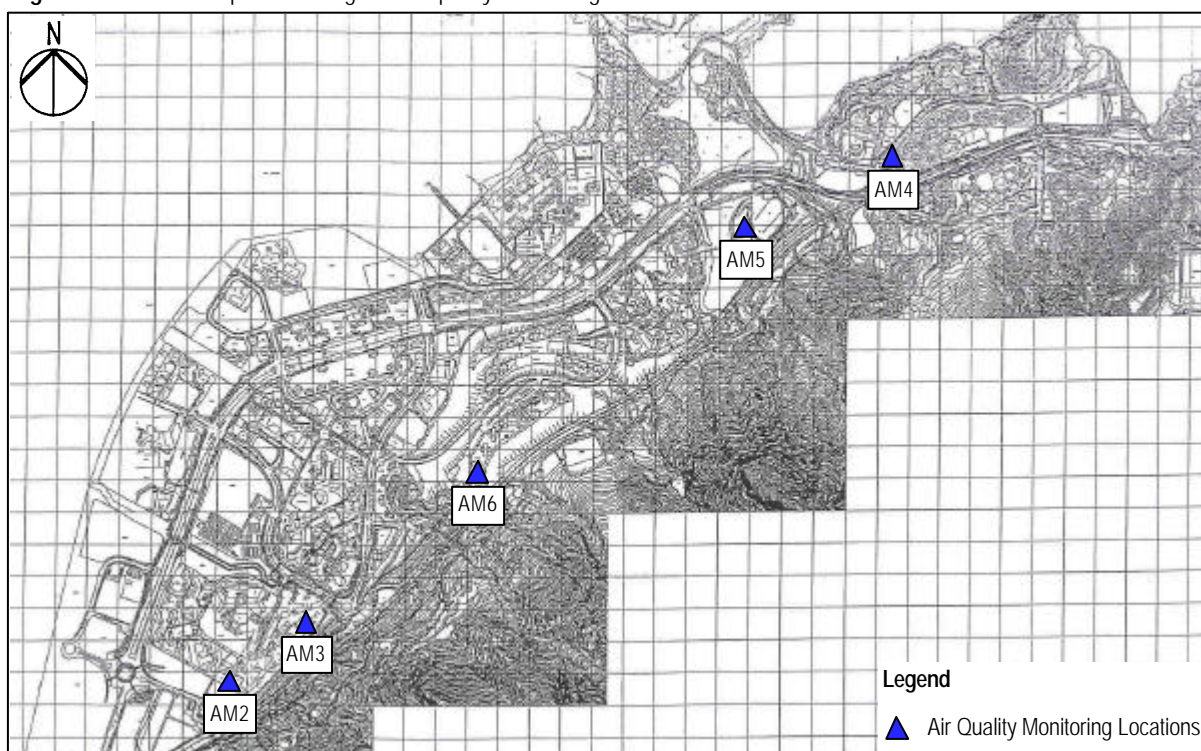
Parameters	Monitoring Frequency	Time Period	No. of measurement for each monitoring
24-hour TSP	Once every six days	0000 – 2400	1
1-hour TSP	Three times per every six days	0700 – 1900	1

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

3.3.2 Air Quality

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

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

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

The baseline checking was conducted on 8 December 2002. There was no significant difference when comparing the baseline checking results of December 2002 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 mg/m ³		
	Baseline Level *	Action Level	Limit Level
Ma On Shan Lutheran Primary School	66.0	173	260
Ma On Shan St. Joseph's Primary School	57.7	168	
Villa Concerto, Symphony Bay	60.8	170	
Club House, Monte Vista [#]	-	185	
Kam Yiu House, Kam Ying Court [#]	-	194	

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

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

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

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

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

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

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

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

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

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

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

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

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

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

4. CONSTRUCTION NOISE MONITORING

4.1 Monitoring Results

Thirteen measurements were taken at each location during 0700-1900. The twelve measurements were taken at NM3 and NM4 and eleven measurements were taken at NM6 and NM8 respectively during 1900-2300 from October 2002 to December 2002. 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 October 2002 and December 2002 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 October 2002 to December 2002.

Date of Monitoring	Monitoring Parameters	Monitoring Results, dB(A) (30 min)					
		NM2	NM3	NM4	NM6	NM7	NM8
07/10/02 (Mon)	L _{eq}	62.8	63.4	65.5	67.6	57.1	68.7
	L ₁₀	64.0	64.5	69.5	70.5	59.0	73.0
	L ₉₀	61.0	61.0	58.5	62.5	53.5	64.0
16/10/02 (Wed)	L _{eq}	63.0	64.5	64.5	68.0	59.7	68.0
	L ₁₀	65.8	65.5	70.3	71.8	61.5	72.5
	L ₉₀	60.3	59.0	58.3	61.3	56.0	63.0
23/10/02 (Wed)	L _{eq}	64.8	63.7	68.3	68.7	58.9	68.4
	L ₁₀	66.8	65.3	70.3	69.8	59.8	69.8
	L ₉₀	62.3	60.3	64.3	64.3	55.3	63.8
30/10/02 (Wed)	L _{eq}	67.5	65.0	68.0	67.5	65.8	61.9
	L ₁₀	70.0	68.0	72.5	73.0	69.0	62.5
	L ₉₀	61.5	58.5	60.0	61.0	60.0	57.0
06/11/02 (Wed)	L _{eq}	67.0	63.5	68.5	68.0	65.5	69.5
	L ₁₀	69.5	66.0	71.4	72.0	69.0	73.0
	L ₉₀	62.0	59.0	61.8	62.5	61.5	63.0
12/11/02 (Tue)	L _{eq}	64.5	63.0	67.5	68.7	68.0	70.0
	L ₁₀	67.0	65.5	71.4	72.0	73.0	73.5
	L ₉₀	61.0	60.0	62.0	62.5	62.0	63.5
21/11/02 (Thu)	L _{eq}	67.5	64.5	70.5	69.8	67.0	66.8
	L ₁₀	70.0	67.0	73.5	72.3	70.5	71.2
	L ₉₀	64.0	60.5	65.5	60.0	62.0	61.0
27/11/02 (Wed)	L _{eq}	66.7	64.0	69.8	70.5	69.5	68.5
	L ₁₀	71.4	66.5	74.0	73.0	72.5	72.0
	L ₉₀	62.0	61.0	65.2	65.0	64.5	64.0
04/12/02 (Wed)	L _{eq}	66.5	65.0	70.5	68.0	67.5	69.0
	L ₁₀	69.0	68.0	73.0	70.5	70.0	72.0
	L ₉₀	61.0	60.5	65.5	62.5	62.0	61.5

Date of Monitoring	Monitoring Parameters	Monitoring Results, dB(A) (30 min)					
		NM2	NM3	NM4	NM6	NM7	NM8
11/12/02 (Wed)	L _{eq}	67.5	65.5	70.0	67.7	69.5	70.5
	L ₁₀	70.0	69.0	74.5	71.5	72.5	73.5
	L ₉₀	61.5	61.0	64.0	62.0	62.0	63.0
18/12/02 (Wed)	L _{eq}	69.5	66.0	68.5	70.1	71.0	72.0
	L ₁₀	72.5	68.5	72.0	73.0	74.0	75.5
	L ₉₀	62.0	60.5	61.0	64.5	63.0	62.5
24/12/02 (Tue)	L _{eq}	68.0	65.0	69.5	71.5	70.0	72.5
	L ₁₀	71.5	68.0	73.0	74.0	73.5	75.0
	L ₉₀	63.0	60.5	62.0	63.0	64.0	65.0
31/12/02 (Tue)	L _{eq}	66.5	65.0	70.5	67.0	70.0	71.0
	L ₁₀	69.0	68.5	74.0	69.5	75.5	74.5
	L ₉₀	61.0	60.0	63.5	61.0	63.0	62.5

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

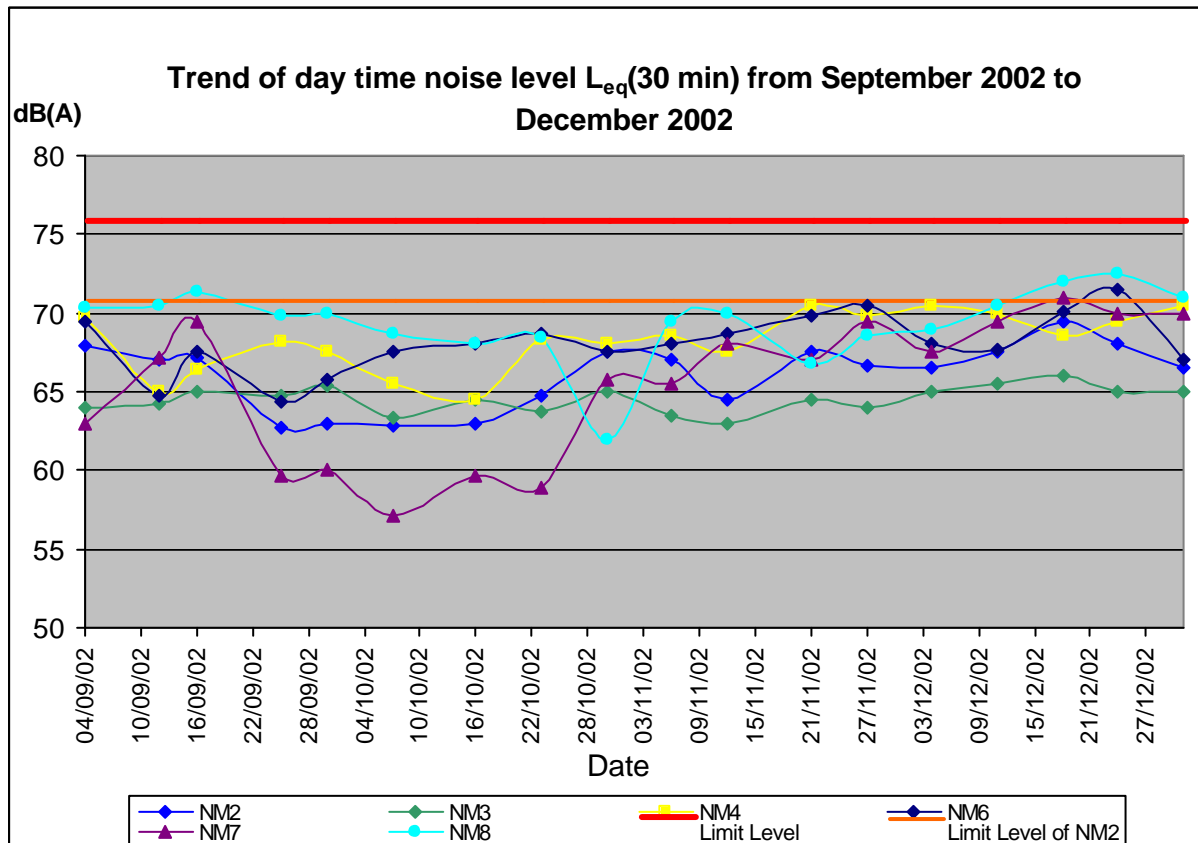


Table 4-2 - Construction evening time noise monitoring results from October 2002 to December 2002.

Date of Monitoring	Monitoring Results, L _{eq} dB(A) (5 min)				
	NM3*	NM4*	NM6#	NM7**	NM8#
07/10/02 (Mon)	-	-	64.0	-	63.0
	-	-	63.5	-	63.0
	-	-	63.0	-	63.5
16/10/02 (Wed)#	61.0	59.4	-	-	-
	61.7	59.4	-	-	-
	63.5	58.4	-	-	-
23/10/02 (Wed)#	62.0	60.0	-	-	-
	63.0	60.5	-	-	-
	62.3	61.2	-	-	-
31/10/02 (Thu)	62.5	60.0	63.0	-	65.0
	62.8	60.5	64.0	-	66.5
	61.5	60.0	62.5	-	64.8
06/11/02 (Wed)	61.5	60.0	63.0	-	63.5
	62.0	62.0	61.5	-	65.5
	60.0	61.0	62.0	-	63.0
12/11/02 (Tue)	60.5	61.0	62.5	-	63.0
	63.0	60.5	63.0	-	64.5
	61.0	60.5	63.0	-	63.8
21/11/02 (Thu)	60.0	62.0	61.8	-	64.0
	62.5	61.5	62.0	-	64.5
	63.0	62.0	63.5	-	63.8
27/11/02 (Wed)	61.0	60.5	62.5	-	62.0
	61.5	62.0	64.0	-	61.0
	62.0	60.0	63.0	-	61.5
04/12/02 (Wed)	61.0	63.0	63.0	-	64.0
	60.5	63.0	63.0	-	63.5
	61.5	63.5	62.5	-	61.0
11/12/02 (Wed)	62.5	64.0	62.0	-	63.5
	63.0	63.0	61.5	-	65.0
	61.5	65.0	62.0	-	62.5
18/12/02 (Wed)	64.0	65.0	64.0	-	62.0
	61.0	64.5	61.5	-	63.0
	63.0	64.0	62.0	-	63.5
23/12/02 (Mon)	63.5	63.5	63.0	-	63.0
	64.0	64.0	63.5	-	64.0
	62.0	63.0	63.0	-	63.5
31/12/02 (Tue)	60.5	63.0	66.0	-	64.0
	61.0	63.5	65.0	-	63.0
	62.5	63.5	63.0	-	62.5

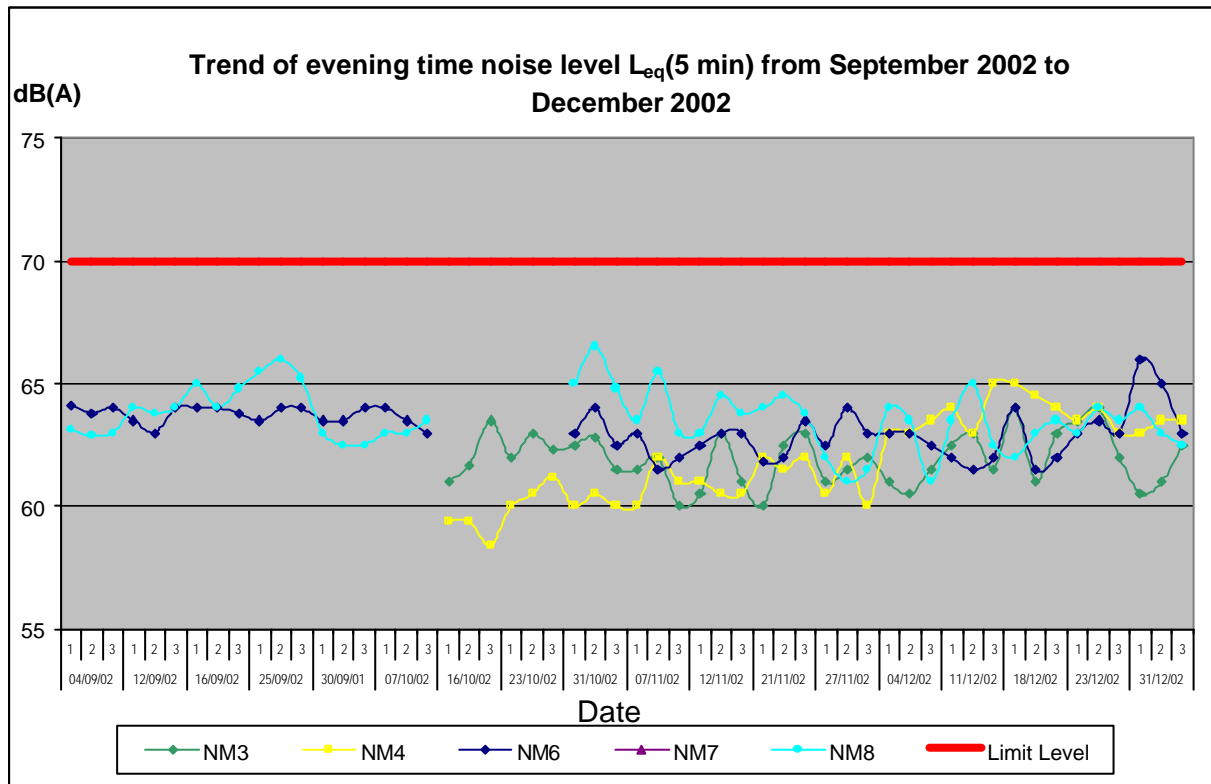
Noted: * Evening time noise monitoring is not required at monitoring stations NM3 and NM4 in Week 1 as no

construction works was conducted near these stations.

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

As the locations of the restricted hour works have been shifted, the evening time noise monitoring locations at NM6 Symphony Bay and NM8 Roof of blk5, Monte Vista were no longer valid for checking the restricted hour noise impact. Therefore, evening time noise monitoring at these 2 stations suspended since Week 2 of October 2002. However, as per the request of ER, the evening time noise monitoring at NM6 and NM8 was resumed in Week 4 of October 2002.

Figure 4-2 - Trend of evening time noise monitoring level from September 2002 to December 2002.



5. AIR QUALITY MONITORING

5.1 24-hour TSP Monitoring Results

A total of fifteen 24-hour TSP monitoring were conducted at AM2, AM3, AM4 and AM5 and six 24-hour TSP monitoring were conducted at AM6 from October 2002 to December 2002. 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 October 2002 to December 2002.

Date of Monitoring	24-hour TSP Monitoring Results, ($\mu\text{g}/\text{m}^3$)				
	AM2	AM3	AM4	AM5	AM6 [#]
03/10/02 (Thu)	71.9	-	76.4	80.1	-
07/10/02 (Mon)*	-	118.1	-	-	-
09/10/02 (Wed)	81.0	84.3	76.2	87.1	-
15/10/02 (Tue)	50.1	50.3	49.6	37.4	-
21/10/02 (Mon)	31.3	34.2	33.4	37.6	-
26/10/02 (Sat)	67.4	73.9	67.5	75.6	-
02/11/02 (Sat)	54.8	57.6	46.6	38.1	-
08/11/02 (Fri)	71.1	76.0	57.8	67.3	-
14/11/02 (Thu)	63.0	64.2	48.9	58.5	-
20/11/02 (Wed)	81.8	87.3	85.4	70.2	-
26/11/02 (Tue)	74.2	79.6	73.1	69.1	64.8
02/12/02 (Mon)	71.7	76.3	76.0	60.1	60.9
10/12/02 (Tue)	63.2	66.1	57.9	58.1	55.8
14/12/02 (Sat)	67.6	55.4	67.2	61.1	61.7
21/12/02 (Sat)	30.5	53.6	29.4	28.2	24.5
27/12/02 (Fri)	25.5	53.6	27.6	25.3	22.4

Note: * The 24-hour TSP monitoring at AM3 was postponed from 03/10/02 to 07/10/02 due to equipment failure.

The electrical cable of the HVS at AM6 was damaged by the waste collector in early October 2002, which caused temporary suspension of the 24-hour TSP monitoring in October and early November 2002. The HVS at AM6 had been repaired since 21 November 2002 and the monitoring was resumed on 26 November 2002.

5.2 1-hour Monitoring Results

A total of forty-five 1-hour TSP monitoring were conducted at each location from October 2002 to December 2002. 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 October 2002 to December 2002.

Date of Monitoring	1-hour TSP Monitoring Results, ($\mu\text{g}/\text{m}^3$)				
	AM2	AM3	AM4	AM5	AM6
07/10/02 (Mon)	204.6	206.7	184.7	182.6	185.9
	212.3	212.6	192.2	187.1	189.4
	205.4	204.8	197.3	192.8	195.4
10/10/02 (Thu)	193.3	183.7	192.8	194.7	190.1
	189.2	178.6	188.1	189.2	185.6
	189.4	180.3	188.5	190.9	186.3
16/10/02 (Wed)	144.1	146.5	154.9	160.0	153.6
	148.7	154.5	160.2	165.5	163.5
	149.6	152.9	159.9	164.0	153.9
23/10/02 (Wed)	129.9	145.7	106.3	122.1	79.8
	138.6	151.6	121.9	125.2	83.1
	121.5	138.6	98.5	127.0	73.8
30/10/02 (Wed)	157.0	162.8	160.7	150.5	169.1
	178.4	181.7	170.5	161.8	165.5
	167.9	158.0	177.0	165.5	165.1
06/11/02 (Wed)	180.1	180.8	176.0	183.7	184.6
	199.6	198.7	162.2	163.4	199.2
	167.9	173.7	143.2	149.7	180.6
12/11/02 (Tue)	182.9	174.5	154.7	132.6	194.2
	162.5	155.7	146.6	120.9	174.4
	170.0	164.0	140.9	137.2	182.8
15/11/02 (Fri)	184.2	187.1	162.2	164.7	149.4
	178.2	179.3	159.8	158.8	152.9
	182.4	182.7	156.4	159.4	143.7
21/11/02 (Thu)	138.6	157.6	157.1	154.0	169.7
	148.9	154.3	157.2	157.8	179.2
	148.3	161.1	161.9	162.3	180.6
27/11/02 (Wed)	197.1	221.4	219.8	204.8	218.4
	197.0	222.5	219.5	197.1	216.8
	194.7	221.7	209.9	201.1	213.1

Date of Monitoring	1-hour TSP Monitoring Results, ($\mu\text{g}/\text{m}^3$)				
	AM2	AM3	AM4	AM5	AM6
04/12/02 (Wed)	165.3	159.6	188.3	185.2	171.0
	166.2	152.5	180.7	182.7	168.1
	163.5	152.4	181.9	180.9	164.7
11/12/02 (Wed)	193.4	171.8	196.0	179.3	243.5
	191.7	151.1	194.2	171.7	244.8
	212.8	194.3	207.9	196.6	260.6
18/12/02 (Wed)	276.6	265.5	277.2	249.8	190.1
	278.7	268.6	280.6	253.3	180.5
	280.7	275.0	276.0	256.2	178.8
24/12/02 (Tue)	171.9	190.4	195.1	160.8	181.0
	189.7	200.7	208.0	171.4	179.5
	203.2	218.4	221.0	188.9	177.4
31/12/02 (Tue)	202.0	168.4	189.4	164.6	174.1
	183.1	156.8	179.0	153.2	154.9
	216.5	178.9	213.9	180.6	191.3

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

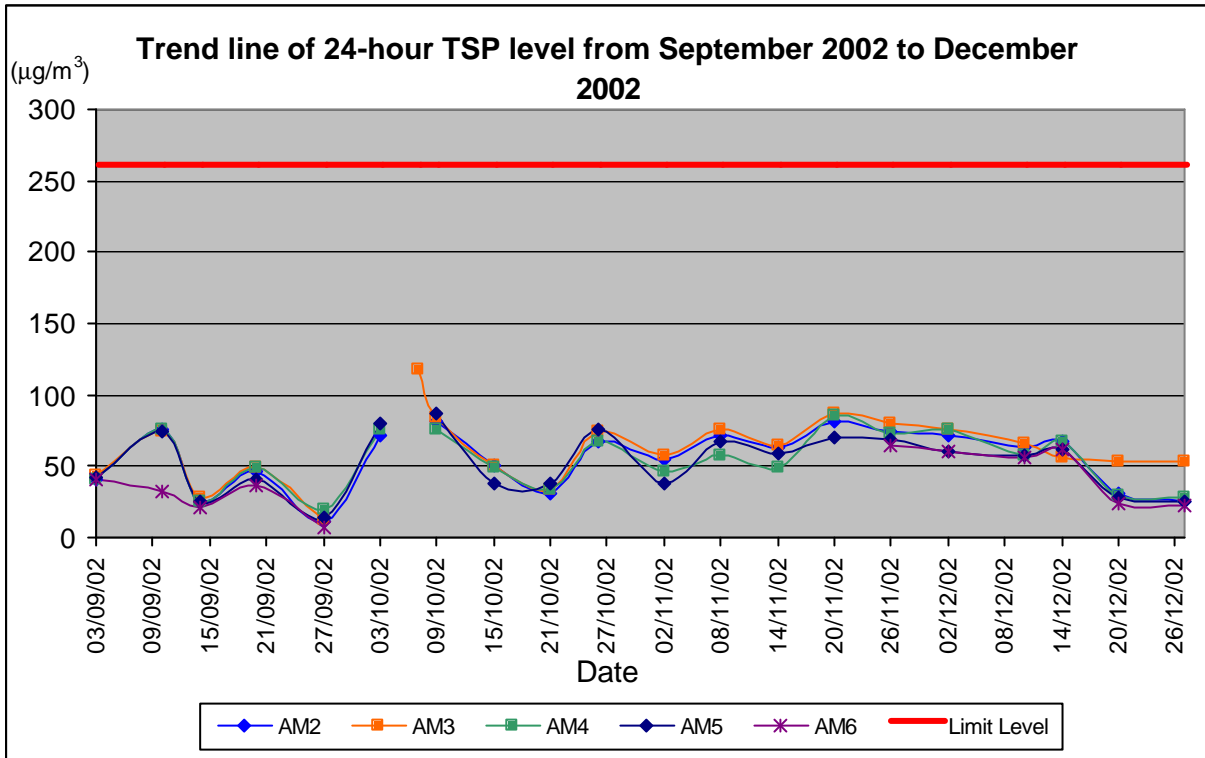
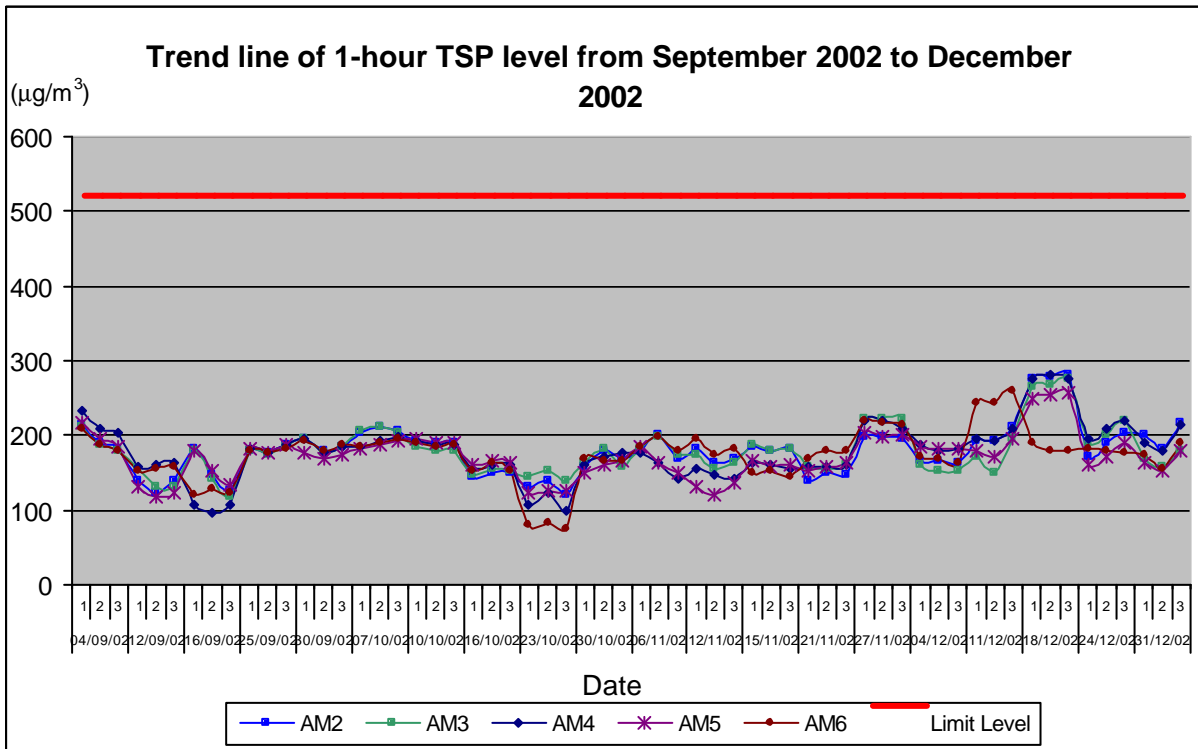


Figure 5-2 - Trend of 1-hour TSP levels from September 2002 to December 2002.



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

6.1 Waste Disposal

A total of 163 loads of waste from site clearance (i.e. felled trees) have been disposed of at NENT Landfill from October 2002 to December 2002. The total tonnage of the waste disposal from October 2002 to December 2002 was 1,250.3 tonnes.

A total of 7,204 loads of rocks ($\phi > 400\text{mm}$) have been disposed of at the follow government project sites from October 2002 to December 2002:

- *TDD Contract No. YL 46/99 Tin Shui Wai Further Development – Road D3 and Constructed Wetland,*
- *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 total quantity of the disposed rocks was 45,130.9 m³ from October 2002 to December 2002.

A total of 206 loads of inert material have been disposed of at Public Filling Area from October 2002 to December 2002. The total quantity of the disposed inert materials was 1,176.0 m³ from October 2002 to December 2002.

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)
February & March 2001*	262	1,834	-	-	-	-
April 2001*	124	868	-	-	-	-
May 2001	83	588.3	-	-	-	-
June 2001	48	326.1	-	-	-	-
July 2001	82	723.4	-	-	-	-
August 2001	62	513.8	-	-	14	176.4
September 2001	114	772.2	-	-	456	5,348.6
October 2001	60	478.8	-	-	431	5,861.2
November 2001	122	737.5	-	-	853	8,637.7
December 2001	121	814.2	-	-	790	10,657.4
January 2002	204	1,343.8	-	-	1,182	11,820
February 2002	73	521.3	-	-	646	3,876
March 2002	88	653.0	-	-	1,164	6,984.0

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)
April 2002	29	169.8	2,265	24,881.5	488	7,515.9
May 2002	101	773.3	2,478	17,295.9	351	4,213.6
June 2002	81	624.7	2,077	14,814.8	453	4,306.1
July 2002	45	327.4	372	2,659.8	112	877.1
August 2002	-	-	548	3,391	62	469.3
September 2002	42	225.6	3,732	22,720	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	2,983	18,825	57	282.0
Total	1,904	13,545.5	18,676	130,893.9	7,217	71,973.3

Note: * An average of 7 tonnes per truck is assumed for the estimation of tonnage for February 2001 to April 2001 as the trip ticket system was not commenced until May 2001.

- # -TDD Contract No. YL 46/99 Tin Shui Wai Further Development – Road D3 and Constructed Wetland,
 -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.

6.2 EPD Site Inspection

ET was informed by the CT that EPD visited the site on 04/10/02, 15/10/02, 04/11/02, 02/12/02, 05/12/02, 15/12/02 and 29/12/02.

6.3 Complaint Record

Six public complaints regarding construction noise were received on 23/10/02, 05/11/02, 23/11/02, 30/11/02, 16/12/02 and 30/12/02 respectively through the Environmental Protection Department and Territory Development Department. 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

Date Received	Source of Complaint	Complaint Issue	Status
20/10/01	Public (Monte Vista)	Noise	Resolved
23/10/01	Public (Monte Vista)	Noise	Resolved
27/10/01	Public (Monte Vista)	Noise	Resolved
30/10/01	Public (Kam Ying Court)	Noise	Resolved
14/11/01	-	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

6.4 Non-compliance Record

There was no exceedance recorded in the period from October 2002 to December 2002. The compliance percentage of noise, 24-hours TSP and 1-hour TSP monitoring are summarised in Table 6-3, Table 6-4 and Table 6-5 respectively.

Table 6-3 - The Summary of Compliance Percentage of Noise Monitoring from February 2001 to December 2002.

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
January 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

Table 6-4 - The Summary of Compliance Percentage of 24-hours TSP monitoring from February 2001 to December 2002.

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

Period	24-hours TSP Monitoring		
	Number of Monitoring	Number of Compliance	Compliance Percentage (%)
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
January 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

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 December 2002.

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

Period	1-hour TSP Monitoring		
	Number of Monitoring	Number of Compliance	Compliance Percentage (%)
April 2002	15	15	100
January 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

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.

APPENDIX 1

Noise Impact Monitoring Results for October 2002 to December 2002

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
Oct-02	07-Oct-02	NM2	15:30	16:00	Cloudy	0.4	62.8	64.0	61.0
Oct-02	07-Oct-02	NM3	16:10	16:40	Cloudy	0.2	63.4	64.5	61.0
Oct-02	07-Oct-02	NM4	11:15	11:45	Cloudy	0.3	65.5	69.5	58.5
Oct-02	07-Oct-02	NM6	9:00	9:30	Cloudy	0.4	67.6	70.5	62.5
Oct-02	07-Oct-02	NM7	9:45	10:15	Cloudy	0.6	57.1	59.0	53.5
Oct-02	07-Oct-02	NM8	10:25	10:55	Cloudy	0.6	68.7	73.0	64.0
Oct-02	16-Oct-02	NM2	8:40	9:10	sunny	0.4	63.0	65.8	60.3
Oct-02	16-Oct-02	NM3	8:50	9:20	sunny	0.2	64.5	65.5	59.0
Oct-02	16-Oct-02	NM4	10:50	11:20	sunny	0.3	64.5	70.3	58.3
Oct-02	16-Oct-02	NM6	9:40	10:10	sunny	0.2	68.0	71.8	61.3
Oct-02	16-Oct-02	NM7	11:00	11:30	sunny	0.2	59.7	61.5	56.0
Oct-02	16-Oct-02	NM8	9:55	10:25	sunny	0.2	68.0	72.5	63.0
Oct-02	23-Oct-02	NM2	10:40	11:10	Cloudy	0.2	64.8	66.8	62.3
Oct-02	23-Oct-02	NM3	10:05	10:35	Cloudy	0.2	63.7	65.3	60.3
Oct-02	23-Oct-02	NM4	13:00	13:30	Cloudy	0.2	68.3	70.3	64.3
Oct-02	23-Oct-02	NM6	13:40	14:10	Cloudy	0.2	68.7	69.8	64.3
Oct-02	23-Oct-02	NM7	9:15	9:45	Cloudy	0.2	58.9	59.8	55.3
Oct-02	23-Oct-02	NM8	11:20	11:50	Cloudy	0.2	68.4	69.8	63.8
Oct-02	30-Oct-02	NM2	10:00	10:30	Cloudy	0.2	67.5	70.0	61.5
Oct-02	30-Oct-02	NM3	9:20	9:50	Cloudy	0.2	65.0	68.0	58.5
Oct-02	30-Oct-02	NM4	8:30	9:00	Cloudy	0.2	68.0	72.5	60.0
Oct-02	30-Oct-02	NM6	10:45	11:15	Cloudy	0.2	67.5	73.0	61.0
Oct-02	30-Oct-02	NM7	13:00	13:30	Cloudy	0.2	65.8	69.0	60.0
Oct-02	30-Oct-02	NM8	13:40	14:10	Cloudy	0.2	61.9	62.5	57.0
Nov-02	06-Nov-02	NM2	8:00	8:30	Sunny	0.5	67.0	69.5	62.0
Nov-02	06-Nov-02	NM3	8:45	9:15	Sunny	0.3	63.5	66.0	59.0
Nov-02	06-Nov-02	NM4	9:30	10:00	Sunny	0.6	68.5	71.4	61.8
Nov-02	06-Nov-02	NM6	13:00	13:30	Sunny	0.7	68.0	72.0	62.5
Nov-02	06-Nov-02	NM7	10:15	10:45	Sunny	0.4	65.5	69.0	61.5
Nov-02	06-Nov-02	NM8	10:55	11:25	Sunny	0.6	69.5	73.0	63.0
Nov-02	12-Nov-02	NM2	10:25	10:55	sunny	0.5	64.5	67.0	61.0
Nov-02	12-Nov-02	NM3	9:50	10:20	sunny	0.4	63.0	65.5	60.0
Nov-02	12-Nov-02	NM4	9:15	9:45	sunny	0.6	67.5	71.4	62.0
Nov-02	12-Nov-02	NM6	10:55	11:25	sunny	0.3	68.7	72.0	62.5
Nov-02	12-Nov-02	NM7	11:30	12:00	sunny	0.4	68.0	73.0	62.0
Nov-02	12-Nov-02	NM8	13:00	13:30	sunny	0.2	70.0	73.5	63.5
Nov-02	21-Nov-02	NM2	8:50	9:20	sunny	0.4	67.5	70.0	64.0
Nov-02	21-Nov-02	NM3	9:25	9:55	sunny	0.2	64.5	67.0	60.5
Nov-02	21-Nov-02	NM4	10:05	10:35	sunny	0.6	70.5	73.5	65.5
Nov-02	21-Nov-02	NM6	10:40	11:10	sunny	0.7	69.8	72.3	60.0
Nov-02	21-Nov-02	NM7	11:20	11:50	sunny	0.5	67.0	70.5	62.0
Nov-02	21-Nov-02	NM8	13:00	13:30	sunny	0.4	66.8	71.2	61.0
Nov-02	27-Nov-02	NM2	11:20	11:50	sunny	0.5	66.7	71.4	62.0
Nov-02	27-Nov-02	NM3	10:40	11:10	sunny	0.3	64.0	66.5	61.0
Nov-02	27-Nov-02	NM4	9:55	10:25	sunny	0.4	69.8	74.0	65.2
Nov-02	27-Nov-02	NM6	16:30	17:00	sunny	0.5	70.5	73.0	65.0
Nov-02	27-Nov-02	NM7	9:15	9:45	sunny	0.6	69.5	72.5	64.5
Nov-02	27-Nov-02	NM8	8:50	9:20	sunny	0.5	68.5	72.0	64.0
Dec-02	04-Dec-02	NM2	13:00	13:30	sunny	0.3	66.5	69.0	61.0
Dec-02	04-Dec-02	NM3	9:10	9:40	sunny	0.3	65.0	68.0	60.5
Dec-02	04-Dec-02	NM4	9:50	10:20	sunny	0.5	70.5	73.0	65.5
Dec-02	04-Dec-02	NM6	10:20	10:50	sunny	0.6	68.0	70.5	62.5
Dec-02	04-Dec-02	NM7	10:55	11:25	sunny	0.5	67.5	70.0	62.0
Dec-02	04-Dec-02	NM8	11:30	12:00	sunny	0.4	69.0	72.0	61.5
Dec-02	11-Dec-02	NM2	10:45	11:15	sunny	0.4	67.5	70.0	61.5
Dec-02	11-Dec-02	NM3	11:25	11:55	sunny	0.3	65.5	69.0	61.0
Dec-02	11-Dec-02	NM4	10:00	10:30	sunny	0.4	70.0	74.5	64.0
Dec-02	11-Dec-02	NM6	13:00	13:30	sunny	0.5	67.7	71.5	62.0
Dec-02	11-Dec-02	NM7	9:20	9:50	sunny	0.5	69.5	72.5	62.0
Dec-02	11-Dec-02	NM8	8:50	9:20	sunny	0.5	70.5	73.5	63.0
Dec-02	18-Dec-02	NM2	8:50	9:20	sunny	0.4	69.5	72.5	62.0
Dec-02	18-Dec-02	NM3	9:25	9:55	sunny	0.3	66.0	68.5	60.5
Dec-02	18-Dec-02	NM4	10:00	10:30	sunny	0.5	68.5	72.0	61.0
Dec-02	18-Dec-02	NM6	13:00	13:30	sunny	0.5	70.1	73.0	64.5
Dec-02	18-Dec-02	NM7	10:50	11:20	sunny	0.5	71.0	74.0	63.0
Dec-02	18-Dec-02	NM8	11:30	12:00	sunny	0.6	72.0	75.5	62.5
Dec-02	24-Dec-02	NM2	8:30	9:00	Sunny	0.4	68.0	71.5	63.0
Dec-02	24-Dec-02	NM3	9:20	9:50	Sunny	0.3	65.0	68.0	60.5
Dec-02	24-Dec-02	NM4	10:10	10:40	Sunny	0.4	69.5	73.0	62.0
Dec-02	24-Dec-02	NM6	10:55	11:25	Sunny	0.5	71.5	74.0	63.0
Dec-02	24-Dec-02	NM7	11:30	12:00	Sunny	0.5	70.0	73.5	64.0
Dec-02	24-Dec-02	NM8	13:00	13:30	Sunny	0.6	72.5	75.0	65.0
Dec-02	31-Dec-02	NM2	8:40	9:10	Fine	0.3	66.5	69.0	61.0
Dec-02	31-Dec-02	NM3	9:15	9:45	Fine	0.3	65.0	68.5	60.0
Dec-02	31-Dec-02	NM4	9:55	10:25	Fine	0.5	70.5	74.0	63.5
Dec-02	31-Dec-02	NM6	13:00	13:30	Fine	0.6	67.0	69.5	61.0
Dec-02	31-Dec-02	NM7	10:40	11:10	Fine	0.5	70.0	75.5	63.0
Dec-02	31-Dec-02	NM8	11:15	11:45	Fine	0.6	71.0	74.5	62.5

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
Oct-02	07-Oct-02	1	NM6	19:00	19:05	fine	0.4	64.0	65.5	57.5
Oct-02	07-Oct-02	2	NM6	19:05	19:10	fine	0.4	63.5	65.0	58.0
Oct-02	07-Oct-02	3	NM6	19:10	19:15	fine	0.4	63.0	65.0	58.0
Oct-02	07-Oct-02	1	NM8	19:20	19:25	fine	0.6	63.0	65.0	57.0
Oct-02	07-Oct-02	2	NM8	19:25	19:30	fine	0.6	63.0	65.5	57.5
Oct-02	07-Oct-02	3	NM8	19:30	19:35	fine	0.6	63.5	66.0	57.0
Oct-02	16-Oct-02	1	NM3	19:00	19:05	fine	0.4	61.0	63.0	59.5
Oct-02	16-Oct-02	2	NM3	19:05	19:10	fine	0.4	61.7	64.0	58.0
Oct-02	16-Oct-02	3	NM3	19:10	19:15	fine	0.4	63.5	65.0	60.5
Oct-02	16-Oct-02	1	NM4	19:25	19:30	fine	0.4	59.4	60.0	58.5
Oct-02	16-Oct-02	2	NM4	19:30	19:35	fine	0.4	59.4	61.5	57.5
Oct-02	16-Oct-02	3	NM4	19:35	19:40	fine	0.4	58.4	60.0	56.5
Oct-02	23-Oct-02	1	NM3	19:00	19:05	fine	0.3	62.0	64.0	59.0
Oct-02	23-Oct-02	2	NM3	19:05	19:10	fine	0.3	63.0	64.5	60.0
Oct-02	23-Oct-02	3	NM3	19:10	19:15	fine	0.3	62.3	65.0	58.5
Oct-02	23-Oct-02	1	NM4	19:30	19:35	fine	0.4	60.0	62.0	57.0
Oct-02	23-Oct-02	2	NM4	19:35	19:40	fine	0.4	60.5	63.0	56.5
Oct-02	23-Oct-02	3	NM4	19:40	19:45	fine	0.4	61.2	62.5	57.0
Oct-02	31-Oct-02	1	NM3	19:05	19:10	fine	0.3	62.5	65.0	60.0
Oct-02	31-Oct-02	2	NM3	19:10	19:15	fine	0.3	62.8	65.0	59.5
Oct-02	31-Oct-02	3	NM3	19:15	19:20	fine	0.3	61.5	65.0	60.0
Oct-02	31-Oct-02	1	NM4	19:40	19:45	fine	0.5	60.0	63.5	57.5
Oct-02	31-Oct-02	2	NM4	19:45	19:50	fine	0.5	60.5	64.0	57.0
Oct-02	31-Oct-02	3	NM4	19:50	19:55	fine	0.5	60.0	64.0	57.0
Oct-02	31-Oct-02	1	NM6	21:00	21:05	fine	0.6	63.0	65.5	57.5
Oct-02	31-Oct-02	2	NM6	21:05	21:10	fine	0.6	64.0	66.0	57.0
Oct-02	31-Oct-02	3	NM6	21:10	21:15	fine	0.6	62.5	65.5	57.0
Oct-02	31-Oct-02	1	NM8	20:15	20:20	fine	0.6	65.0	66.5	57.0
Oct-02	31-Oct-02	2	NM8	20:20	20:25	fine	0.6	66.5	68.4	60.0
Oct-02	31-Oct-02	3	NM8	20:25	20:30	fine	0.6	64.8	67.0	57.5
Nov-02	07-Nov-02	1	NM3	20:00	20:05	fine	0.3	61.5	64.5	58.0
Nov-02	07-Nov-02	2	NM3	20:05	20:10	fine	0.3	62.0	66.0	58.5
Nov-02	07-Nov-02	3	NM3	20:10	20:15	fine	0.3	60.0	63.5	58.0
Nov-02	07-Nov-02	1	NM4	20:25	20:30	fine	0.5	60.0	63.0	58.0
Nov-02	07-Nov-02	2	NM4	20:30	20:35	fine	0.5	62.0	65.0	60.5
Nov-02	07-Nov-02	3	NM4	20:35	20:40	fine	0.5	61.0	63.8	58.0
Nov-02	07-Nov-02	1	NM6	21:30	21:35	fine	0.4	63.0	66.0	58.0
Nov-02	07-Nov-02	2	NM6	21:35	21:40	fine	0.4	61.5	64.0	58.0
Nov-02	07-Nov-02	3	NM6	21:40	21:45	fine	0.4	62.0	65.5	58.5
Nov-02	07-Nov-02	1	NM8	20:50	20:55	fine	0.4	63.5	65.8	59.5
Nov-02	07-Nov-02	2	NM8	20:55	21:00	fine	0.4	65.5	68.0	60.5
Nov-02	07-Nov-02	3	NM8	21:00	21:05	fine	0.4	63.0	64.5	60.0
Nov-02	12-Nov-02	1	NM3	19:00	19:05	fine	0.2	60.5	63.0	57.5
Nov-02	12-Nov-02	2	NM3	19:05	19:10	fine	0.2	63.0	65.5	59.0
Nov-02	12-Nov-02	3	NM3	19:10	19:15	fine	0.2	61.0	64.8	58.0
Nov-02	12-Nov-02	1	NM4	19:35	19:40	fine	0.2	61.0	62.5	57.0
Nov-02	12-Nov-02	2	NM4	19:40	19:45	fine	0.2	60.5	62.0	56.5
Nov-02	12-Nov-02	3	NM4	19:45	19:50	fine	0.2	60.5	62.0	56.0
Nov-02	12-Nov-02	1	NM6	20:30	20:35	fine	0.4	62.5	65.0	57.0
Nov-02	12-Nov-02	2	NM6	20:35	20:40	fine	0.4	63.0	65.8	56.5
Nov-02	12-Nov-02	3	NM6	20:40	20:45	fine	0.4	63.0	65.0	56.5
Nov-02	12-Nov-02	1	NM8	20:00	20:05	fine	0.4	63.0	65.5	58.5
Nov-02	12-Nov-02	2	NM8	20:05	20:10	fine	0.4	64.5	66.0	60.0
Nov-02	12-Nov-02	3	NM8	20:10	20:15	fine	0.4	63.8	65.0	57.0
Nov-02	21-Nov-02	1	NM3	19:00	19:05	fine	0.5	60.0	64.5	58.0
Nov-02	21-Nov-02	2	NM3	19:05	19:10	fine	0.5	62.5	65.0	58.5
Nov-02	21-Nov-02	3	NM3	19:10	19:15	fine	0.5	63.0	65.0	58.5
Nov-02	21-Nov-02	1	NM4	19:30	19:35	fine	0.6	62.0	64.5	58.0
Nov-02	21-Nov-02	2	NM4	19:35	19:40	fine	0.6	61.5	65.0	58.5
Nov-02	21-Nov-02	3	NM4	19:40	19:45	fine	0.6	62.0	65.0	58.5
Nov-02	21-Nov-02	1	NM6	20:30	20:35	fine	0.5	61.8	63.5	60.0
Nov-02	21-Nov-02	2	NM6	20:35	20:40	fine	0.5	62.0	64.5	60.0
Nov-02	21-Nov-02	3	NM6	20:40	20:45	fine	0.5	63.5	66.0	59.0
Nov-02	21-Nov-02	1	NM8	19:55	20:00	fine	0.6	64.0	65.5	60.0
Nov-02	21-Nov-02	2	NM8	20:00	20:05	fine	0.6	64.5	65.8	60.5
Nov-02	21-Nov-02	3	NM8	20:05	20:10	fine	0.6	63.8	66.0	60.5
Nov-02	27-Nov-02	1	NM3	19:00	19:05	fine	0.3	61.0	65.5	60.0
Nov-02	27-Nov-02	2	NM3	19:05	19:10	fine	0.3	61.5	66.0	59.5
Nov-02	27-Nov-02	3	NM3	19:10	19:15	fine	0.3	62.0	66.0	59.0
Nov-02	27-Nov-02	1	NM4	19:30	19:35	fine	0.5	60.5	64.0	58.5
Nov-02	27-Nov-02	2	NM4	19:35	19:40	fine	0.5	62.0	64.5	59.0
Nov-02	27-Nov-02	3	NM4	19:40	19:45	fine	0.5	60.0	64.0	58.5
Nov-02	27-Nov-02	1	NM6	21:00	21:05	fine	0.5	62.5	66.0	58.0
Nov-02	27-Nov-02	2	NM6	21:05	21:10	fine	0.5	64.0	65.5	58.0
Nov-02	27-Nov-02	3	NM6	21:10	21:15	fine	0.5	63.0	65.0	57.5
Nov-02	27-Nov-02	1	NM8	20:00	20:05	fine	0.5	62.0	66.0	58.5
Nov-02	27-Nov-02	2	NM8	20:05	20:10	fine	0.5	61.0	64.5	58.0
Nov-02	27-Nov-02	3	NM8	20:10	20:15	fine	0.5	61.5	64.5	58.0

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
Dec-02	04-Dec-02	1	NM3	19:00	19:05	fine	0.3	61.0	64.0	58.0
Dec-02	04-Dec-02	2	NM3	19:05	19:10	fine	0.3	60.5	63.5	58.0
Dec-02	04-Dec-02	3	NM3	19:10	19:15	fine	0.3	61.5	64.0	58.5
Dec-02	04-Dec-02	1	NM4	19:35	19:40	fine	0.4	63.0	65.0	57.5
Dec-02	04-Dec-02	2	NM4	19:40	19:45	fine	0.4	63.0	65.5	58.0
Dec-02	04-Dec-02	3	NM4	19:45	19:50	fine	0.4	63.5	65.0	58.0
Dec-02	04-Dec-02	1	NM6	20:35	20:40	fine	0.5	63.0	65.0	59.5
Dec-02	04-Dec-02	2	NM6	20:40	20:45	fine	0.5	63.0	65.8	59.0
Dec-02	04-Dec-02	3	NM6	20:45	20:50	fine	0.5	62.5	65.5	60.0
Dec-02	04-Dec-02	1	NM8	20:00	20:05	fine	0.5	64.0	65.5	59.0
Dec-02	04-Dec-02	2	NM8	20:05	20:10	fine	0.5	63.5	65.0	58.0
Dec-02	04-Dec-02	3	NM8	20:10	20:15	fine	0.5	61.0	63.0	58.0
Dec-02	11-Dec-02	1	NM3	19:00	19:05	fine	0.3	62.5	64.0	60.5
Dec-02	11-Dec-02	2	NM3	19:05	19:10	fine	0.3	63.0	64.5	58.0
Dec-02	11-Dec-02	3	NM3	19:10	19:15	fine	0.3	61.5	63.0	57.0
Dec-02	11-Dec-02	1	NM4	19:30	19:35	fine	0.5	64.0	66.0	58.0
Dec-02	11-Dec-02	2	NM4	19:35	19:40	fine	0.5	63.0	65.0	58.0
Dec-02	11-Dec-02	3	NM4	19:40	19:45	fine	0.5	65.0	66.5	58.0
Dec-02	11-Dec-02	1	NM6	20:30	20:35	fine	0.4	62.0	65.5	58.0
Dec-02	11-Dec-02	2	NM6	20:35	20:40	fine	0.4	61.5	65.8	59.0
Dec-02	11-Dec-02	3	NM6	20:40	20:45	fine	0.4	62.0	68.0	60.0
Dec-02	11-Dec-02	1	NM8	20:00	20:05	fine	0.5	63.5	66.0	59.5
Dec-02	11-Dec-02	2	NM8	20:05	20:10	fine	0.5	65.0	68.0	60.5
Dec-02	11-Dec-02	3	NM8	20:10	20:15	fine	0.5	62.5	65.0	60.0
Dec-02	18-Dec-02	1	NM3	19:00	19:05	fine	0.3	64.0	66.5	61.0
Dec-02	18-Dec-02	2	NM3	19:05	19:10	fine	0.3	61.0	63.5	59.0
Dec-02	18-Dec-02	3	NM3	19:10	19:15	fine	0.3	63.0	65.0	60.5
Dec-02	18-Dec-02	1	NM4	19:30	19:35	fine	0.4	65.0	67.0	58.5
Dec-02	18-Dec-02	2	NM4	19:35	19:40	fine	0.4	64.5	66.0	58.0
Dec-02	18-Dec-02	3	NM4	19:40	19:45	fine	0.4	64.0	66.0	59.0
Dec-02	18-Dec-02	1	NM6	20:30	20:35	fine	0.5	64.0	67.0	60.0
Dec-02	18-Dec-02	2	NM6	20:35	20:40	fine	0.5	61.5	64.0	60.0
Dec-02	18-Dec-02	3	NM6	20:40	20:45	fine	0.5	62.0	64.0	60.0
Dec-02	18-Dec-02	1	NM8	20:00	20:05	fine	0.4	62.0	64.5	60.0
Dec-02	18-Dec-02	2	NM8	20:05	20:10	fine	0.4	63.0	65.0	60.0
Dec-02	18-Dec-02	3	NM8	20:10	20:15	fine	0.4	63.5	65.0	60.5
Dec-02	23-Dec-02	1	NM3	19:00	19:05	fine	0.4	63.5	65.0	60.0
Dec-02	23-Dec-02	2	NM3	19:05	19:10	fine	0.4	64.0	66.0	60.0
Dec-02	23-Dec-02	3	NM3	19:10	19:15	fine	0.4	62.0	64.0	59.0
Dec-02	23-Dec-02	1	NM4	19:30	19:35	fine	0.6	63.5	65.0	60.0
Dec-02	23-Dec-02	2	NM4	19:35	19:40	fine	0.6	64.0	65.0	60.0
Dec-02	23-Dec-02	3	NM4	19:40	19:45	fine	0.6	63.0	64.5	59.0
Dec-02	23-Dec-02	1	NM6	20:20	20:25	fine	0.5	63.0	65.0	60.0
Dec-02	23-Dec-02	2	NM6	20:25	20:30	fine	0.5	63.5	65.0	59.5
Dec-02	23-Dec-02	3	NM6	20:30	20:35	fine	0.5	63.0	64.0	59.0
Dec-02	23-Dec-02	1	NM8	19:55	20:00	fine	0.6	63.0	65.0	60.0
Dec-02	23-Dec-02	2	NM8	20:00	20:05	fine	0.6	64.0	65.0	60.5
Dec-02	23-Dec-02	3	NM8	20:05	20:10	fine	0.6	63.5	65.0	60.5
Dec-02	31-Dec-02	1	NM3	19:00	19:05	fine	0.3	60.5	64.0	58.0
Dec-02	31-Dec-02	2	NM3	19:05	19:10	fine	0.3	61.0	64.0	57.0
Dec-02	31-Dec-02	3	NM3	19:10	19:15	fine	0.3	62.5	65.0	57.5
Dec-02	31-Dec-02	1	NM4	19:30	19:35	fine	0.5	63.0	65.5	58.0
Dec-02	31-Dec-02	2	NM4	19:35	19:40	fine	0.5	63.5	66.0	58.0
Dec-02	31-Dec-02	3	NM4	19:40	19:45	fine	0.5	63.5	66.0	58.5
Dec-02	31-Dec-02	1	NM6	20:20	20:25	fine	0.6	66.0	68.0	60.5
Dec-02	31-Dec-02	2	NM6	20:25	20:30	fine	0.6	65.0	66.0	60.0
Dec-02	31-Dec-02	3	NM6	20:30	20:35	fine	0.6	63.0	65.0	60.0
Dec-02	31-Dec-02	1	NM8	19:55	20:00	fine	0.4	64.0	67.0	61.0
Dec-02	31-Dec-02	2	NM8	20:00	20:05	fine	0.4	63.0	65.0	60.0
Dec-02	31-Dec-02	3	NM8	20:05	20:10	fine	0.4	62.5	65.0	60.0

APPENDIX 2

24-hour TSP Monitoring Results for October 2002 to December 2002

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 (ug/m ³)
						Initial	Final		Initial	Final		Start	Finish			
DH87	Oct-02	03-Oct-02	AM2	Cloudy	normal operation	3.6095	3.7503	0.1408	1.3988	1.3227	1.3608	2475.52	2499.52	1440.00	1959.48	71.9
DH88	Oct-02	07-Oct-02	AM3	Cloudy	normal operation	3.6114	3.8362	0.2248	1.3190	1.3251	1.3221	2382.94	2406.94	1440.00	1903.75	118.1
DH89	Oct-02	03-Oct-02	AM4	Cloudy	normal operation	3.6222	3.8008	0.1786	1.6186	1.6264	1.6225	2438.23	2462.23	1440.00	2336.40	76.4
DH90	Oct-02	03-Oct-02	AM5	Cloudy	normal operation	3.6215	3.7791	0.1576	1.3771	1.3566	1.3669	2002.92	2026.92	1440.00	1968.26	80.1
DI37	Oct-02	09-Oct-02	AM2	Sunny	normal operation	3.6751	3.8339	0.1588	1.4056	1.3173	1.3615	2499.52	2523.52	1440.00	1960.49	81.0
DI38	Oct-02	09-Oct-02	AM3	Sunny	normal operation	3.6599	3.8204	0.1605	1.3251	1.3199	1.3225	2406.94	2430.94	1440.00	1904.40	84.3
DI39	Oct-02	09-Oct-02	AM4	Sunny	normal operation	3.6771	3.8610	0.1839	1.6788	1.6718	1.6753	2462.23	2486.23	1440.00	2412.43	76.2
DI40	Oct-02	09-Oct-02	AM5	Sunny	normal operation	3.6661	3.8288	0.1627	1.2998	1.2935	1.2967	2026.92	2050.92	1440.00	1867.18	87.1
DI70	Oct-02	15-Oct-02	AM2	Sunny	normal operation	3.4972	3.5952	0.0980	1.3998	1.3173	1.3586	2523.52	2547.52	1440.00	1956.31	50.1
DI71	Oct-02	15-Oct-02	AM3	Sunny	normal operation	3.4902	3.5833	0.0931	1.2724	1.2961	1.2843	2430.94	2454.94	1440.00	1849.32	50.3
DI72	Oct-02	15-Oct-02	AM4	Sunny	normal operation	3.4813	3.5970	0.1157	1.6198	1.6198	1.6198	2486.23	2510.23	1440.00	2332.51	49.6
DI73	Oct-02	15-Oct-02	AM5	Sunny	normal operation	3.5044	3.5832	0.0788	1.4631	1.4631	1.4631	2050.92	2074.92	1440.00	2106.86	37.4
DJ07	Oct-02	21-Oct-02	AM2	Rainy	normal operation	3.4238	3.4871	0.0633	1.4548	1.3566	1.4057	2547.52	2571.52	1440.00	2024.21	31.3
DJ08	Oct-02	21-Oct-02	AM3	Rainy	normal operation	3.3989	3.4653	0.0664	1.3673	1.3312	1.3493	2454.94	2478.94	1440.00	1942.92	34.2
DJ09	Oct-02	21-Oct-02	AM4	Rainy	normal operation	3.4504	3.5286	0.0782	1.6198	1.6340	1.6269	2510.23	2534.23	1440.00	2342.74	33.4
DJ10	Oct-02	21-Oct-02	AM5	Rainy	normal operation	3.4503	3.5254	0.0751	1.3783	1.3928	1.3856	2074.92	2098.92	1440.00	1995.19	37.6
DK11	Oct-02	26-Oct-02	AM2	Rainy	normal operation	3.6627	3.7941	0.1314	1.3566	1.3510	1.3537	2571.52	2595.52	1440.00	1949.47	67.4
DK12	Oct-02	26-Oct-02	AM3	Rainy	normal operation	3.6839	3.8253	0.1414	1.3312	1.3258	1.3285	2478.94	2502.94	1440.00	1913.04	73.9
DK13	Oct-02	26-Oct-02	AM4	Rainy	normal operation	3.6925	3.8463	0.1535	1.5813	1.5749	1.5781	2534.23	2558.23	1440.00	2272.46	75.6
DK14	Oct-02	26-Oct-02	AM5	Rainy	normal operation	3.6940	3.8453	0.1513	1.3928	1.3859	1.3894	2098.92	2122.92	1440.00	2000.66	67.5
DK62	Nov-02	02-Nov-02	AM2	Sunny	normal operation	3.7266	3.8336	0.1070	1.3510	1.3600	1.3555	2595.52	2619.53	1440.60	1952.73	54.8
DK63	Nov-02	02-Nov-02	AM3	Sunny	normal operation	3.7306	3.8410	0.1104	1.3259	1.3345	1.3302	2502.94	2526.94	1440.00	1915.49	57.6
DK64	Nov-02	02-Nov-02	AM4	Sunny	normal operation	3.7104	3.8200	0.1096	1.6273	1.6382	1.6328	2558.23	2582.23	1440.00	2351.16	46.6
DK65	Nov-02	02-Nov-02	AM5	Sunny	normal operation	3.6999	3.7747	0.0748	1.3575	1.3683	1.3629	2122.92	2146.92	1440.00	1962.58	38.1
DK96	Nov-02	08-Nov-02	AM2	Sunny	normal operation	3.6298	3.7684	0.1386	1.3705	1.3368	1.3537	2619.53	2643.53	1440.00	1949.26	71.1
DK97	Nov-02	08-Nov-02	AM3	Sunny	normal operation	3.6261	3.7607	0.1346	1.2706	1.1900	1.2303	2526.94	2550.94	1440.00	1771.63	76.0
DK98	Nov-02	08-Nov-02	AM4	Sunny	normal operation	3.6195	3.7548	0.1353	1.6351	1.6176	1.6264	2582.23	2606.23	1440.00	2341.94	57.8
DK99	Nov-02	08-Nov-02	AM5	Sunny	normal operation	3.6012	3.7360	0.1348	1.4845	1.2980	1.3913	2146.92	2170.92	1440.00	2003.40	67.3
DL36	Nov-02	14-Nov-02	AM2	Sunny	normal operation	3.6094	3.7306	0.1212	1.3591	1.3110	1.3351	2643.53	2667.53	1440.00	1922.47	63.0
DL37	Nov-02	14-Nov-02	AM3	Sunny	normal operation	3.6266	3.7449	0.1183	1.3505	1.2093	1.2799	2550.94	2574.94	1440.00	1843.06	64.2
DL38	Nov-02	14-Nov-02	AM4	Sunny	normal operation	3.6225	3.7362	0.1137	1.6176	1.6118	1.6147	2606.23	2630.23	1440.00	2325.17	48.9
DL39	Nov-02	14-Nov-02	AM5	Sunny	normal operation	3.6303	3.7479	0.1176	1.4777	1.3158	1.3968	2170.92	2194.92	1440.00	2011.32	58.5
DL70	Nov-02	20-Nov-02	AM2	Sunny	normal operation	3.6748	3.8390	0.1642	1.4440	1.3441	1.3941	2667.53	2691.53	1440.00	2007.43	81.8
DL71	Nov-02	20-Nov-02	AM3	Sunny	normal operation	3.6872	3.8428	0.1556	1.2549	1.2203	1.2376	2574.94	2598.94	1440.00	1782.14	87.3
DL72	Nov-02	20-Nov-02	AM4	Sunny	normal operation	3.6913	3.8580	0.1667	1.3902	1.3201	1.3652	2630.23	2654.23	1440.00	1951.42	85.4
DL73	Nov-02	20-Nov-02	AM5	Sunny	normal operation	3.5858	3.7472	0.1614	1.5856	1.6075	1.5966	2194.92	2218.92	1440.00	2299.03	70.2
DN20	Nov-02	26-Nov-02	AM2	Sunny	normal operation	3.7218	3.8655	0.1437	1.3441	1.3470	1.3456	2691.53	2715.53	1440.00	1937.59	74.2
DN21	Nov-02	26-Nov-02	AM3	Sunny	normal operation	3.7109	3.8536	0.1427	1.2665	1.2231	1.2448	2598.94	2622.94	1440.00	1792.51	79.6
DN22	Nov-02	26-Nov-02	AM4	Sunny	normal operation	3.6975	3.8425	0.1450	1.4043	1.3516	1.3780	2654.23	2678.23	1440.00	1984.25	73.1
DN23	Nov-02	26-Nov-02	AM5	Sunny	normal operation	3.6903	3.8506	0.1603	1.6075	1.6131	1.6103	2218.92	2242.92	1440.00	2318.83	69.1
DN24	Nov-02	26-Nov-02	AM6	Sunny	normal operation	3.6889	3.7872	0.1183	1.3211	1.2164	1.2688	792.31	816.31	1440.00	1827.00	64.8

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 (µg/m ³)
						Initial	Final		Initial	Final		Start	Finish			
DN56	Dec-02	02-Dec-02	AM2	Sunny	normal operation	3.6721	3.8166	0.1445	1.4597	1.3386	1.3992	2715.53	2739.52	1439.40	2013.94	71.7
DN57	Dec-02	02-Dec-02	AM3	Sunny	normal operation	3.6547	3.7912	0.1365	1.2696	1.2147	1.2422	2622.94	2646.94	1440.00	1788.70	76.3
DN58	Dec-02	02-Dec-02	AM4	Sunny	normal operation	3.6542	3.8015	0.1473	1.3516	1.3414	1.3465	2678.23	2702.23	1440.00	1938.96	76.0
DN59	Dec-02	02-Dec-02	AM5	Sunny	normal operation	3.6505	3.7924	0.1419	1.6497	1.6326	1.6412	2242.92	2266.91	1439.40	2362.27	60.1
DN60	Dec-02	02-Dec-02	AM6	Sunny	normal operation	3.6402	3.7535	0.1133	1.3244	1.2612	1.2928	1816.31	1840.31	1440.00	1861.63	60.9
D034	Dec-02	10-Dec-02	AM2	Sunny	normal operation	3.8725	4.0002	0.1277	1.4267	1.3794	1.4031	2763.52	2787.52	1440.00	2020.39	63.2
D035	Dec-02	10-Dec-02	AM3	Sunny	normal operation	3.8866	4.0073	0.1207	1.2814	1.2562	1.2688	2670.93	2694.93	1440.00	1827.07	66.1
D036	Dec-02	10-Dec-02	AM4	Sunny	normal operation	3.8579	3.9728	0.1149	1.3937	1.3632	1.3785	2726.22	2750.22	1440.00	1984.97	57.9
D037	Dec-02	10-Dec-02	AM5	Sunny	normal operation	3.8765	4.0163	0.1398	1.6724	1.6692	1.6708	2290.91	2314.91	1440.00	2405.95	58.1
D038	Dec-02	10-Dec-02	AM6	Sunny	normal operation	3.8496	3.9548	0.1052	1.3373	1.2809	1.3091	1864.31	1888.31	1440.00	1885.10	55.8
D052	Dec-02	14-Dec-02	AM2	Sunny	normal operation	3.8422	3.9803	0.1381	1.4707	1.3650	1.4179	2787.52	2811.52	1440.00	2041.70	67.6
D053	Dec-02	14-Dec-02	AM3	Sunny	normal operation	3.8264	3.9093	0.0829	1.0447	1.0340	1.0394	2694.93	2718.93	1440.00	1496.66	55.4
D054	Dec-02	14-Dec-02	AM4	Sunny	normal operation	3.8718	4.0028	0.1310	1.3632	1.3463	1.3548	2750.22	2774.22	1440.00	1950.84	67.2
D055	Dec-02	14-Dec-02	AM5	Sunny	normal operation	3.8292	3.9715	0.1423	1.6322	1.6043	1.6183	2314.91	2338.91	1440.00	2330.28	61.1
D056	Dec-02	14-Dec-02	AM6	Sunny	normal operation	3.8330	3.9486	0.1156	1.3355	1.2656	1.3006	888.31	912.31	1440.00	1872.79	61.7
D094	Dec-02	20-Dec-02	AM2	Sunny	normal operation	3.4909	3.5530	0.0621	1.4547	1.3754	1.4151	2811.52	2835.52	1440.00	2037.67	30.5
D095	Dec-02	20-Dec-02	AM3	Sunny	normal operation	3.4981	3.5998	0.1017	1.3111	1.3224	1.3168	2742.93	2766.93	1440.00	1896.12	53.6
D096	Dec-02	20-Dec-02	AM4	Sunny	normal operation	3.4941	3.5502	0.0561	1.3463	1.3018	1.3241	2774.22	2798.22	1440.00	1906.63	29.4
D097	Dec-02	20-Dec-02	AM5	Sunny	normal operation	3.5140	3.5826	0.0686	1.6771	1.6983	1.6877	2338.91	2362.91	1440.00	2430.29	28.2
D098	Dec-02	20-Dec-02	AM6	Sunny	normal operation	3.5046	3.5503	0.0457	1.3193	1.2767	1.2980	912.31	936.31	1440.00	1869.12	24.5
DQ33	Dec-02	27-Dec-02	AM2	Sunny	normal operation	3.5152	3.5678	0.0526	1.4663	1.4002	1.4333	2835.52	2859.52	1440.00	2063.88	25.5
DQ34	Dec-02	27-Dec-02	AM3	Sunny	normal operation	3.5090	3.6112	0.1022	1.3224	1.3246	1.3235	2766.93	2790.93	1440.00	1905.84	53.6
DQ35	Dec-02	27-Dec-02	AM4	Sunny	normal operation	3.5139	3.5703	0.0564	1.4438	1.3894	1.4166	2798.22	2822.23	1440.60	2040.75	27.6
DQ36	Dec-02	27-Dec-02	AM5	Sunny	normal operation	3.5022	3.5656	0.0634	1.7351	1.7392	1.7372	2362.91	2386.91	1440.00	2501.50	25.3
DQ37	Dec-02	27-Dec-02	AM6	Sunny	normal operation	3.5004	3.5434	0.0430	1.3854	1.2788	1.3321	936.31	960.31	1440.00	1918.22	22.4

APPENDIX 3

1-hour TSP Monitoring Results for October 2002 to December 2002

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					
Oct-02	07-Oct-02	AM2	1	13:03	14:03	Cloudy	normal operation	24.0	762.8	204.6
Oct-02	07-Oct-02	AM2	2	14:03	15:03	Cloudy	normal operation	24.0	762.8	212.3
Oct-02	07-Oct-02	AM2	3	15:03	16:03	Cloudy	normal operation	24.0	762.8	205.4
Oct-02	07-Oct-02	AM3	1	13:04	14:04	Cloudy	normal operation	24.0	762.8	206.7
Oct-02	07-Oct-02	AM3	2	14:04	15:04	Cloudy	normal operation	24.0	762.8	212.6
Oct-02	07-Oct-02	AM3	3	15:04	16:04	Cloudy	normal operation	24.0	762.8	204.8
Oct-02	07-Oct-02	AM4	1	9:00	10:00	Cloudy	normal operation	24.0	762.8	184.7
Oct-02	07-Oct-02	AM4	2	10:00	11:00	Cloudy	normal operation	24.0	762.8	192.2
Oct-02	07-Oct-02	AM4	3	11:00	12:00	Cloudy	normal operation	24.0	762.8	197.3
Oct-02	07-Oct-02	AM5	1	8:56	9:56	Cloudy	normal operation	24.0	762.8	182.6
Oct-02	07-Oct-02	AM5	2	9:56	10:56	Cloudy	normal operation	24.0	762.8	187.1
Oct-02	07-Oct-02	AM5	3	10:56	11:56	Cloudy	normal operation	24.0	762.8	192.8
Oct-02	07-Oct-02	AM6	1	8:58	9:58	Cloudy	normal operation	24.0	762.8	185.9
Oct-02	07-Oct-02	AM6	2	9:58	10:58	Cloudy	normal operation	24.0	762.8	189.4
Oct-02	07-Oct-02	AM6	3	10:58	11:58	Cloudy	normal operation	24.0	762.8	195.4
Oct-02	10-Oct-02	AM2	1	13:03	14:03	Sunny	normal operation	27.0	762.0	193.3
Oct-02	10-Oct-02	AM2	2	14:03	15:03	Sunny	normal operation	27.0	762.0	189.2
Oct-02	10-Oct-02	AM2	3	15:03	16:03	Sunny	normal operation	27.0	762.0	189.4
Oct-02	10-Oct-02	AM3	1	13:00	14:00	Sunny	normal operation	27.0	762.0	183.7
Oct-02	10-Oct-02	AM3	2	14:00	15:00	Sunny	normal operation	27.0	762.0	178.6
Oct-02	10-Oct-02	AM3	3	15:00	16:00	Sunny	normal operation	27.0	762.0	180.3
Oct-02	10-Oct-02	AM4	1	13:01	14:01	Sunny	normal operation	27.0	762.0	192.8
Oct-02	10-Oct-02	AM4	2	14:01	15:01	Sunny	normal operation	27.0	762.0	188.1
Oct-02	10-Oct-02	AM4	3	15:01	16:01	Sunny	normal operation	27.0	762.0	188.5
Oct-02	10-Oct-02	AM5	1	13:01	14:01	Sunny	normal operation	27.0	762.0	194.7
Oct-02	10-Oct-02	AM5	2	14:01	15:01	Sunny	normal operation	27.0	762.0	189.2
Oct-02	10-Oct-02	AM5	3	15:01	16:01	Sunny	normal operation	27.0	762.0	190.9
Oct-02	10-Oct-02	AM6	1	13:03	14:03	Sunny	normal operation	27.0	762.0	190.1
Oct-02	10-Oct-02	AM6	2	14:03	15:03	Sunny	normal operation	27.0	762.0	185.6
Oct-02	10-Oct-02	AM6	3	15:03	16:03	Sunny	normal operation	27.0	762.0	186.3
Oct-02	16-Oct-02	AM2	1	8:55	9:55	Sunny	normal operation	27.0	762.0	144.1
Oct-02	16-Oct-02	AM2	2	9:55	10:55	Sunny	normal operation	27.0	762.0	148.7
Oct-02	16-Oct-02	AM2	3	10:55	11:55	Sunny	normal operation	27.0	762.0	149.6
Oct-02	16-Oct-02	AM3	1	8:55	9:55	Sunny	normal operation	27.0	762.0	146.5
Oct-02	16-Oct-02	AM3	2	9:55	10:55	Sunny	normal operation	27.0	762.0	154.5
Oct-02	16-Oct-02	AM3	3	10:55	11:55	Sunny	normal operation	27.0	762.0	152.9
Oct-02	16-Oct-02	AM4	1	8:53	9:53	Sunny	normal operation	27.0	762.0	154.9
Oct-02	16-Oct-02	AM4	2	9:53	10:53	Sunny	normal operation	27.0	762.0	160.2
Oct-02	16-Oct-02	AM4	3	10:53	11:53	Sunny	normal operation	27.0	762.0	159.9
Oct-02	16-Oct-02	AM5	1	8:56	9:56	Sunny	normal operation	27.0	762.0	160.0
Oct-02	16-Oct-02	AM5	2	9:56	10:56	Sunny	normal operation	27.0	762.0	165.5
Oct-02	16-Oct-02	AM5	3	10:56	11:56	Sunny	normal operation	27.0	762.0	164.0
Oct-02	16-Oct-02	AM6	1	9:00	10:00	Sunny	normal operation	27.0	762.0	153.6
Oct-02	16-Oct-02	AM6	2	10:00	11:00	Sunny	normal operation	27.0	762.0	163.5
Oct-02	16-Oct-02	AM6	3	11:00	12:00	Sunny	normal operation	27.0	762.0	153.9
Oct-02	23-Oct-02	AM2	1	9:56	10:56	Rainy	normal operation	20.0	762.0	129.9
Oct-02	23-Oct-02	AM2	2	10:56	11:56	Rainy	normal operation	20.0	762.0	138.6
Oct-02	23-Oct-02	AM2	3	13:01	14:01	Rainy	normal operation	20.0	762.0	121.5
Oct-02	23-Oct-02	AM3	1	9:59	10:59	Rainy	normal operation	20.0	762.0	145.7
Oct-02	23-Oct-02	AM3	2	10:59	11:59	Rainy	normal operation	20.0	762.0	151.6
Oct-02	23-Oct-02	AM3	3	13:04	14:04	Rainy	normal operation	20.0	762.0	138.6
Oct-02	23-Oct-02	AM4	1	9:56	10:56	Rainy	normal operation	20.0	762.0	106.3
Oct-02	23-Oct-02	AM4	2	10:56	11:56	Rainy	normal operation	20.0	762.0	121.9
Oct-02	23-Oct-02	AM4	3	13:01	14:01	Rainy	normal operation	20.0	762.0	98.5
Oct-02	23-Oct-02	AM5	1	9:58	10:58	Rainy	normal operation	20.0	762.0	122.1
Oct-02	23-Oct-02	AM5	2	10:58	11:58	Rainy	normal operation	20.0	762.0	125.2
Oct-02	23-Oct-02	AM5	3	13:03	14:03	Rainy	normal operation	20.0	762.0	127.0
Oct-02	23-Oct-02	AM6	1	9:57	10:57	Rainy	normal operation	20.0	762.0	79.8
Oct-02	23-Oct-02	AM6	2	10:57	11:57	Rainy	normal operation	20.0	762.0	83.1
Oct-02	23-Oct-02	AM6	3	13:02	14:02	Rainy	normal operation	20.0	762.0	73.8

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					
Oct-02	30-Oct-02	AM2	1	7:46	8:46	Rainy	normal operation	23.0	761.3	157.0
Oct-02	30-Oct-02	AM2	2	8:46	9:46	Rainy	normal operation	23.0	761.3	178.4
Oct-02	30-Oct-02	AM2	3	9:46	10:46	Rainy	normal operation	23.0	761.3	167.9
Oct-02	30-Oct-02	AM3	1	7:48	8:48	Rainy	normal operation	23.0	761.3	162.8
Oct-02	30-Oct-02	AM3	2	8:48	9:48	Rainy	normal operation	23.0	761.3	181.7
Oct-02	30-Oct-02	AM3	3	9:48	10:48	Rainy	normal operation	23.0	761.3	158.0
Oct-02	30-Oct-02	AM4	1	11:59	12:59	Rainy	normal operation	23.0	761.3	160.7
Oct-02	30-Oct-02	AM4	2	13:09	14:09	Rainy	normal operation	23.0	761.3	170.5
Oct-02	30-Oct-02	AM4	3	14:09	15:09	Rainy	normal operation	23.0	761.3	177.0
Oct-02	30-Oct-02	AM5	1	11:53	12:53	Rainy	normal operation	23.0	761.3	150.5
Oct-02	30-Oct-02	AM5	2	13:23	14:23	Rainy	normal operation	23.0	761.3	161.8
Oct-02	30-Oct-02	AM5	3	14:23	15:23	Rainy	normal operation	23.0	761.3	165.5
Oct-02	30-Oct-02	AM6	1	7:45	8:45	Rainy	normal operation	23.0	761.3	169.1
Oct-02	30-Oct-02	AM6	2	8:45	9:45	Rainy	normal operation	23.0	761.3	165.5
Oct-02	30-Oct-02	AM6	3	9:45	10:45	Rainy	normal operation	23.0	761.3	165.1
Nov-02	06-Nov-02	AM2	1	7:40	8:40	Sunny	normal operation	20.0	767.3	180.1
Nov-02	06-Nov-02	AM2	2	8:40	9:40	Sunny	normal operation	20.0	767.3	199.6
Nov-02	06-Nov-02	AM2	3	9:40	10:40	Sunny	normal operation	20.0	767.3	167.9
Nov-02	06-Nov-02	AM3	1	7:31	8:31	Sunny	normal operation	20.0	767.3	180.8
Nov-02	06-Nov-02	AM3	2	8:31	9:31	Sunny	normal operation	20.0	767.3	198.7
Nov-02	06-Nov-02	AM3	3	9:31	10:31	Sunny	normal operation	20.0	767.3	173.7
Nov-02	06-Nov-02	AM4	1	10:56	11:56	Sunny	normal operation	20.0	767.3	176.0
Nov-02	06-Nov-02	AM4	2	13:01	14:01	Sunny	normal operation	20.0	767.3	162.2
Nov-02	06-Nov-02	AM4	3	14:01	15:01	Sunny	normal operation	20.0	767.3	143.2
Nov-02	06-Nov-02	AM5	1	10:52	11:52	Sunny	normal operation	20.0	767.3	183.7
Nov-02	06-Nov-02	AM5	2	13:02	14:02	Sunny	normal operation	20.0	767.3	163.4
Nov-02	06-Nov-02	AM5	3	14:02	15:02	Sunny	normal operation	20.0	767.3	149.7
Nov-02	06-Nov-02	AM6	1	7:41	8:41	Sunny	normal operation	20.0	767.3	184.6
Nov-02	06-Nov-02	AM6	2	8:46	9:46	Sunny	normal operation	20.0	767.3	199.2
Nov-02	06-Nov-02	AM6	3	10:56	11:56	Sunny	normal operation	20.0	767.3	180.6
Nov-02	12-Nov-02	AM2	1	8:45	9:45	Sunny	normal operation	26.0	761.0	182.9
Nov-02	12-Nov-02	AM2	2	9:55	10:55	Sunny	normal operation	26.0	761.0	162.5
Nov-02	12-Nov-02	AM2	3	10:55	11:55	Sunny	normal operation	26.0	761.0	170.0
Nov-02	12-Nov-02	AM3	1	8:47	9:47	Sunny	normal operation	26.0	761.0	174.5
Nov-02	12-Nov-02	AM3	2	9:57	10:57	Sunny	normal operation	26.0	761.0	155.7
Nov-02	12-Nov-02	AM3	3	10:57	11:57	Sunny	normal operation	26.0	761.0	164.0
Nov-02	12-Nov-02	AM4	1	13:02	14:02	Sunny	normal operation	26.0	761.0	154.7
Nov-02	12-Nov-02	AM4	2	14:27	15:27	Sunny	normal operation	26.0	761.0	146.6
Nov-02	12-Nov-02	AM4	3	15:47	16:47	Sunny	normal operation	26.0	761.0	140.9
Nov-02	12-Nov-02	AM5	1	13:01	14:01	Sunny	normal operation	26.0	761.0	132.6
Nov-02	12-Nov-02	AM5	2	14:11	15:11	Sunny	normal operation	26.0	761.0	120.9
Nov-02	12-Nov-02	AM5	3	15:11	16:11	Sunny	normal operation	26.0	761.0	137.2
Nov-02	12-Nov-02	AM6	1	8:48	9:48	Sunny	normal operation	26.0	761.0	194.2
Nov-02	12-Nov-02	AM6	2	9:58	10:58	Sunny	normal operation	26.0	761.0	174.4
Nov-02	12-Nov-02	AM6	3	10:58	11:58	Sunny	normal operation	26.0	761.0	182.8
Nov-02	15-Nov-02	AM2	1	8:46	9:46	Sunny	normal operation	28.0	759.0	184.2
Nov-02	15-Nov-02	AM2	2	9:46	10:46	Sunny	normal operation	28.0	759.0	178.2
Nov-02	15-Nov-02	AM2	3	10:46	11:46	Sunny	normal operation	28.0	759.0	182.4
Nov-02	15-Nov-02	AM3	1	8:49	9:49	Sunny	normal operation	28.0	759.0	187.1
Nov-02	15-Nov-02	AM3	2	9:49	10:49	Sunny	normal operation	28.0	759.0	179.3
Nov-02	15-Nov-02	AM3	3	10:49	11:49	Sunny	normal operation	28.0	759.0	182.7
Nov-02	15-Nov-02	AM4	1	8:47	9:47	Sunny	normal operation	28.0	759.0	162.2
Nov-02	15-Nov-02	AM4	2	9:47	10:47	Sunny	normal operation	28.0	759.0	159.8
Nov-02	15-Nov-02	AM4	3	10:47	11:47	Sunny	normal operation	28.0	759.0	156.4
Nov-02	15-Nov-02	AM5	1	8:51	9:51	Sunny	normal operation	28.0	759.0	164.7
Nov-02	15-Nov-02	AM5	2	9:51	10:51	Sunny	normal operation	28.0	759.0	158.8
Nov-02	15-Nov-02	AM5	3	10:51	11:51	Sunny	normal operation	28.0	759.0	159.4
Nov-02	15-Nov-02	AM6	1	8:59	9:59	Sunny	normal operation	28.0	759.0	149.4
Nov-02	15-Nov-02	AM6	2	9:59	10:59	Sunny	normal operation	28.0	759.0	152.9
Nov-02	15-Nov-02	AM6	3	10:59	11:59	Sunny	normal operation	28.0	759.0	143.7

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					
Nov-02	21-Nov-02	AM2	1	8:33	9:33	Sunny	normal operation	22.0	765.0	138.6
Nov-02	21-Nov-02	AM2	2	9:33	10:33	Sunny	normal operation	22.0	765.0	148.9
Nov-02	21-Nov-02	AM2	3	10:33	11:33	Sunny	normal operation	22.0	765.0	148.3
Nov-02	21-Nov-02	AM3	1	8:32	9:32	Sunny	normal operation	22.0	765.0	157.6
Nov-02	21-Nov-02	AM3	2	9:32	10:32	Sunny	normal operation	22.0	765.0	154.3
Nov-02	21-Nov-02	AM3	3	10:32	11:32	Sunny	normal operation	22.0	765.0	161.1
Nov-02	21-Nov-02	AM4	1	8:56	9:56	Sunny	normal operation	22.0	765.0	157.1
Nov-02	21-Nov-02	AM4	2	9:56	10:56	Sunny	normal operation	22.0	765.0	157.2
Nov-02	21-Nov-02	AM4	3	10:56	11:56	Sunny	normal operation	22.0	765.0	161.9
Nov-02	21-Nov-02	AM5	1	8:30	9:30	Sunny	normal operation	22.0	765.0	154.0
Nov-02	21-Nov-02	AM5	2	9:30	10:30	Sunny	normal operation	22.0	765.0	157.8
Nov-02	21-Nov-02	AM5	3	10:30	11:30	Sunny	normal operation	22.0	765.0	162.3
Nov-02	21-Nov-02	AM6	1	8:37	9:37	Sunny	normal operation	22.0	765.0	169.7
Nov-02	21-Nov-02	AM6	2	9:37	10:37	Sunny	normal operation	22.0	765.0	179.2
Nov-02	21-Nov-02	AM6	3	10:37	11:37	Sunny	normal operation	22.0	765.0	180.6
Nov-02	27-Nov-02	AM2	1	8:21	9:21	Sunny	normal operation	21.0	768.0	197.1
Nov-02	27-Nov-02	AM2	2	9:21	10:21	Sunny	normal operation	21.0	768.0	197.0
Nov-02	27-Nov-02	AM2	3	10:21	11:21	Sunny	normal operation	21.0	768.0	194.7
Nov-02	27-Nov-02	AM3	1	8:24	9:24	Sunny	normal operation	21.0	768.0	221.4
Nov-02	27-Nov-02	AM3	2	9:24	10:24	Sunny	normal operation	21.0	768.0	222.5
Nov-02	27-Nov-02	AM3	3	10:24	11:24	Sunny	normal operation	21.0	768.0	221.7
Nov-02	27-Nov-02	AM4	1	8:22	9:22	Sunny	normal operation	21.0	768.0	219.8
Nov-02	27-Nov-02	AM4	2	9:22	10:22	Sunny	normal operation	21.0	768.0	219.5
Nov-02	27-Nov-02	AM4	3	10:22	11:22	Sunny	normal operation	21.0	768.0	209.9
Nov-02	27-Nov-02	AM5	1	8:16	9:16	Sunny	normal operation	21.0	768.0	204.8
Nov-02	27-Nov-02	AM5	2	9:16	10:16	Sunny	normal operation	21.0	768.0	197.1
Nov-02	27-Nov-02	AM5	3	10:16	11:16	Sunny	normal operation	21.0	768.0	201.1
Nov-02	27-Nov-02	AM6	1	13:11	14:11	Sunny	normal operation	21.0	768.0	218.4
Nov-02	27-Nov-02	AM6	2	14:11	15:11	Sunny	normal operation	21.0	768.0	216.8
Nov-02	27-Nov-02	AM6	3	15:11	16:11	Sunny	normal operation	21.0	768.0	213.1
Dec-02	04-Dec-02	AM2	1	8:51	9:51	Sunny	normal operation	25.0	762.0	165.3
Dec-02	04-Dec-02	AM2	2	9:51	10:51	Sunny	normal operation	25.0	762.0	166.2
Dec-02	04-Dec-02	AM2	3	10:51	11:51	Sunny	normal operation	25.0	762.0	163.5
Dec-02	04-Dec-02	AM3	1	8:59	9:59	Sunny	normal operation	25.0	762.0	159.6
Dec-02	04-Dec-02	AM3	2	9:59	10:59	Sunny	normal operation	25.0	762.0	152.5
Dec-02	04-Dec-02	AM3	3	10:59	11:59	Sunny	normal operation	25.0	762.0	152.4
Dec-02	04-Dec-02	AM4	1	8:59	9:59	Sunny	normal operation	25.0	762.0	188.3
Dec-02	04-Dec-02	AM4	2	9:59	10:59	Sunny	normal operation	25.0	762.0	180.7
Dec-02	04-Dec-02	AM4	3	10:59	11:59	Sunny	normal operation	25.0	762.0	181.9
Dec-02	04-Dec-02	AM5	1	8:56	9:56	Sunny	normal operation	25.0	762.0	185.2
Dec-02	04-Dec-02	AM5	2	9:56	10:56	Sunny	normal operation	25.0	762.0	182.7
Dec-02	04-Dec-02	AM5	3	10:56	11:56	Sunny	normal operation	25.0	762.0	180.9
Dec-02	04-Dec-02	AM6	1	8:50	9:50	Sunny	normal operation	25.0	762.0	171.0
Dec-02	04-Dec-02	AM6	2	9:50	10:50	Sunny	normal operation	25.0	762.0	168.1
Dec-02	04-Dec-02	AM6	3	10:50	11:50	Sunny	normal operation	25.0	762.0	164.7
Dec-02	11-Dec-02	AM2	1	8:28	9:28	Sunny	normal operation	14.0	768.0	193.4
Dec-02	11-Dec-02	AM2	2	9:28	10:28	Sunny	normal operation	14.0	768.0	191.7
Dec-02	11-Dec-02	AM2	3	10:28	11:28	Sunny	normal operation	14.0	768.0	212.8
Dec-02	11-Dec-02	AM3	1	8:36	9:36	Sunny	normal operation	14.0	768.0	171.8
Dec-02	11-Dec-02	AM3	2	9:41	10:41	Sunny	normal operation	14.0	768.0	151.1
Dec-02	11-Dec-02	AM3	3	10:41	11:41	Sunny	normal operation	14.0	768.0	194.3
Dec-02	11-Dec-02	AM4	1	8:13	9:13	Sunny	normal operation	14.0	768.0	196.0
Dec-02	11-Dec-02	AM4	2	9:13	10:13	Sunny	normal operation	14.0	768.0	194.2
Dec-02	11-Dec-02	AM4	3	10:13	11:13	Sunny	normal operation	14.0	768.0	207.9
Dec-02	11-Dec-02	AM5	1	8:27	9:27	Sunny	normal operation	14.0	768.0	179.3
Dec-02	11-Dec-02	AM5	2	9:27	10:27	Sunny	normal operation	14.0	768.0	171.7
Dec-02	11-Dec-02	AM5	3	10:27	11:27	Sunny	normal operation	14.0	768.0	196.6
Dec-02	11-Dec-02	AM6	1	13:11	14:11	Sunny	normal operation	14.0	768.0	243.5
Dec-02	11-Dec-02	AM6	2	14:11	15:11	Sunny	normal operation	14.0	768.0	244.8
Dec-02	11-Dec-02	AM6	3	15:11	16:11	Sunny	normal operation	14.0	768.0	260.6

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					
Dec-02	18-Dec-02	AM2	1	8:12	9:12	Sunny	normal operation	22.0	762.0	276.6
Dec-02	18-Dec-02	AM2	2	9:12	10:12	Sunny	normal operation	22.0	762.0	278.7
Dec-02	18-Dec-02	AM2	3	10:12	11:12	Sunny	normal operation	22.0	762.0	280.7
Dec-02	18-Dec-02	AM3	1	8:13	9:13	Sunny	normal operation	22.0	762.0	265.5
Dec-02	18-Dec-02	AM3	2	9:13	10:13	Sunny	normal operation	22.0	762.0	268.6
Dec-02	18-Dec-02	AM3	3	10:13	11:13	Sunny	normal operation	22.0	762.0	275.0
Dec-02	18-Dec-02	AM4	1	8:15	9:15	Sunny	normal operation	22.0	762.0	277.2
Dec-02	18-Dec-02	AM4	2	9:45	10:45	Sunny	normal operation	22.0	762.0	280.6
Dec-02	18-Dec-02	AM4	3	10:45	11:45	Sunny	normal operation	22.0	762.0	276.0
Dec-02	18-Dec-02	AM5	1	8:18	9:18	Sunny	normal operation	22.0	762.0	249.8
Dec-02	18-Dec-02	AM5	2	9:18	10:18	Sunny	normal operation	22.0	762.0	253.3
Dec-02	18-Dec-02	AM5	3	10:18	11:18	Sunny	normal operation	22.0	762.0	256.2
Dec-02	18-Dec-02	AM6	1	13:00	14:00	Sunny	normal operation	22.0	762.0	190.1
Dec-02	18-Dec-02	AM6	2	14:00	15:00	Sunny	normal operation	22.0	762.0	180.5
Dec-02	18-Dec-02	AM6	3	15:00	16:00	Sunny	normal operation	22.0	762.0	178.8
Dec-02	24-Dec-02	AM2	1	7:59	8:59	Sunny	normal operation	20.0	776.5	171.9
Dec-02	24-Dec-02	AM2	2	9:04	10:04	Sunny	normal operation	20.0	776.5	189.7
Dec-02	24-Dec-02	AM2	3	10:04	11:04	Sunny	normal operation	20.0	776.5	203.2
Dec-02	24-Dec-02	AM3	1	8:04	9:04	Sunny	normal operation	20.0	776.5	190.4
Dec-02	24-Dec-02	AM3	2	9:04	10:04	Sunny	normal operation	20.0	776.5	200.7
Dec-02	24-Dec-02	AM3	3	10:04	11:04	Sunny	normal operation	20.0	776.5	218.4
Dec-02	24-Dec-02	AM4	1	7:59	8:59	Sunny	normal operation	20.0	776.5	195.1
Dec-02	24-Dec-02	AM4	2	9:09	10:09	Sunny	normal operation	20.0	776.5	208.0
Dec-02	24-Dec-02	AM4	3	10:09	11:09	Sunny	normal operation	20.0	776.5	221.0
Dec-02	24-Dec-02	AM5	1	8:04	9:04	Sunny	normal operation	20.0	776.5	160.8
Dec-02	24-Dec-02	AM5	2	9:04	10:04	Sunny	normal operation	20.0	776.5	171.4
Dec-02	24-Dec-02	AM5	3	10:04	11:04	Sunny	normal operation	20.0	776.5	188.9
Dec-02	24-Dec-02	AM6	1	13:00	14:00	Sunny	normal operation	20.0	776.5	181.0
Dec-02	24-Dec-02	AM6	2	14:00	15:00	Sunny	normal operation	20.0	776.5	179.5
Dec-02	24-Dec-02	AM6	3	15:00	16:00	Sunny	normal operation	20.0	776.5	177.4
Dec-02	31-Dec-02	AM2	1	8:19	9:19	Sunny	normal operation	15.0	767.0	202.0
Dec-02	31-Dec-02	AM2	2	9:19	10:19	Sunny	normal operation	15.0	767.0	183.1
Dec-02	31-Dec-02	AM2	3	10:24	11:24	Sunny	normal operation	15.0	767.0	216.5
Dec-02	31-Dec-02	AM3	1	8:18	9:18	Sunny	normal operation	15.0	767.0	168.4
Dec-02	31-Dec-02	AM3	2	9:18	10:18	Sunny	normal operation	15.0	767.0	156.8
Dec-02	31-Dec-02	AM3	3	10:28	11:28	Sunny	normal operation	15.0	767.0	178.9
Dec-02	31-Dec-02	AM4	1	8:17	9:17	Sunny	normal operation	15.0	767.0	189.4
Dec-02	31-Dec-02	AM4	2	9:17	10:17	Sunny	normal operation	15.0	767.0	179.0
Dec-02	31-Dec-02	AM4	3	10:22	11:22	Sunny	normal operation	15.0	767.0	213.9
Dec-02	31-Dec-02	AM5	1	8:15	9:15	Sunny	normal operation	15.0	767.0	164.6
Dec-02	31-Dec-02	AM5	2	9:15	10:15	Sunny	normal operation	15.0	767.0	153.2
Dec-02	31-Dec-02	AM5	3	10:25	11:25	Sunny	normal operation	15.0	767.0	180.6
Dec-02	31-Dec-02	AM6	1	8:13	9:13	Sunny	normal operation	15.0	767.0	174.1
Dec-02	31-Dec-02	AM6	2	9:13	10:13	Sunny	normal operation	15.0	767.0	154.9
Dec-02	31-Dec-02	AM6	3	10:18	11:18	Sunny	normal operation	15.0	767.0	191.3

APPENDIX 4

**Correspondences of the Public Complaints from Monte Vista Lee On Estate, Heng On
Estate and Kam Ying Court**

本署編號 EP 580/E6/3/9

OUR REF:

來函編號

YOUR REF:

電話

TEL NO.: 2158 5823

傳真號碼 2685 1155

FAX NO.:

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

24 October 2002

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

(Attn: Mr Sam Tsoi)

25176	
Received 25 OCT 2002	
sf	tl
sf	ky

By Fax Only
(Fax : 2865 6493)

Dear Sir,

Sha Tin New Town Stage II Contract No. ST 86/2000
Construction of Road T7 in Ma On Shan
Public Complaint of 23 October 2002

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

Enclosed please find a public complaint on noise generated by the works from the construction site of road T7 referred by District Lands Officer. 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
Maunsell
CHEC

(Attn: Mr. George Mak
(Attn: Mr. Y H Fung
(Attn: Mr Chan Man

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



RECYCLED PAPER

P.01 155 2685 1155

2865 6493

24 OCT 2002

MEMO

From : District Lands Officer, Sha Tin

Ref : (13) in LND/ST 1996/37

Tel. No.: 2158 4768

Fax. No.: 2602 4093

Date : 23.10.2002

To : PM/NTE, TDD

Attn : Mr. George K. M. MAK

Your Ref. : (93) in NTE-ST 2/643TH/108


dated : 13.8.2002 Fax. No. : 2721 8630

Total Pages : 1

**Verbal Complaint on Weak Hoarding and Noise
Construction Site of T7 in Ma On Shan**

A verbal complaint referred by CRE (MACL) from Mr. CHAN (), resident of Block 3 of Monte Vista (翠擁華庭) regarding the captioned. I have talked to the complainant in order to understand his concern, he expressed that he was so worried that the zinc hoarding was not strong enough to prevent objects from falling down from the slope works site. Furthermore, he was annoyed by the noise generated by the works. Mr. Chan eagerly demand a prompt joint site visit, as the site has been handed over to your department, please arrange a joint visit with relevant parties and take follow up actions.

2. By copy of this memo, would EPD please measure the noise level and give direct advice to PM/NTE, TDD.


(Ms. Susan LAM)
for District Lands Officer, Sha Tin

c.c. EPD



MEMO

From Y.H. Fung, CRE/T7
MCAL, NTE Development
Ref. in T7/(ST86/2000)/M05/412(0125)
Tel. No. 2643 9020
Fax. No. 2643 3559
Date 25 October 2002

To Director of Environmental Protection
Attn: Jack Kan
Your Ref. () in EP 580/EG/3/9
dated 24.10.2002 Fax. No. 2685 1155
Total Pages _____

By Fax Only

Sha Tin New Town Stage II
Contract No. ST 86/2000
Construction of Road T7 in Ma On Shan
Environmental Complaint of 23 October 2002

I refer to your above quoted letter to OAP enclosing the particulars of the captioned complaint (copy attached for your ease of reference).

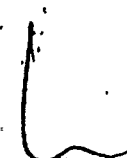
The complainant Mr. Chan, resident of Block 3 of Monte Vista, made the complaint to me in the morning of Saturday 19 October 2002. I inspected the site conditions in the early afternoon of the same day. I then discussed his complaint with him by telephone on Saturday 19 October and Monday 21 October. Mr. Chan asked me to refer his complaint to DLO/ST and I did so on Monday 21 October. The actual date of complaint should be 19 October 2002 instead of 23 October 2002.

One part of Mr. Chan's complaint is related to the daytime construction noise. On Saturday 19 October, a backhoe was deployed to place rockfill at the slope near Monte Vista, for forming a working platform for constructing a footing of Bridge TC. The method and programme of such work were previously discussed in detail with the Owners' Committee and Management Office of Monte Vista on Friday 11 October 2002. Mr. Chan complained that the backhoe started working as early as 8:30 a.m., disturbing his rest and enjoyment. I subsequently found that the noise generated from the operation of the backhoe was not excessive. Should noise measurement be taken at Mr. Chan's apartment, the noise level would be shown to be well below the permissible Leq (30 min) of 75 dB(A). I explained to Mr. Chan that noise measurement could be arranged at his apartment at any time convenient to him, but he has not come back for such measurement.

Other parts of Mr. Chan's complaint are not relevant to environmental pollution and will be separately dealt with.

Please be advised that my staff will continue monitoring the Contractor's working closely for checking its compliance with the statutory and contractual requirements.

LAND AUTHORITIES 23/10/02
23/10/02
ST TC
ST am RC


Y.H. Fung
Chief Resident Engineer

YHF:jt
Encl
cc: PM/NTE, TDD - Attn: Mr. George Mak (by fax)
DLO/ST, Land D (by fax)
OAP (by fax)
MCAL

Ch

MEMO


From : District Lands Officer, Sha Tin
 Ref. : (13) in LND/ST 1996/37
 Tel No. : 2158 4768
 Fax No. : 2602 4093
 Date : 23.10.2002

To : PM/NTE, TDD.
 Attn : Mr. George K. M. MAK.
 Your Ref. : (93) in NTE-ST 2/643TH/108
 dated : 13.8.2002 Fax No. : 2721 8630
 Total Pages : 1

**Verbal Complaint on Weak Hoarding and Noise
 Construction Site of T7 in Ma On Shan**

A verbal complaint referred by CRE (MACL) from Mr. CHAN (), resident of Block 3 of Monte Vista (翠濠庭) regarding the captioned. I have talked to the complainant in order to understand his concern, he expressed that he was so worried that the zinc hoarding was not strong enough to prevent objects from falling down from the slope works site. Furthermore, he was annoyed by the noise generated by the works. Mr. Chan eagerly demand a prompt joint site visit, as the site has been handed over to your department, please arrange a joint visit with relevant parties and take follow up actions.

2. By copy of this memo, would EPD please measure the noise level and give direct advice to PM/NTE, TDD.


 (Ms. Susan LAM)
 for District Lands Officer, Sha Tin

c.c. EPD

②

MEMO



From Y. H. Fung - Chief Resident Engineer
 Ref. T7/(ST86/2000)/M05/412(0129)
 Tel. 2 643 9020
 Fax No. 2 643 3559
 Date 1 November, 2002

To: Director of Environmental Protection
 Attn.: (Mr. Jack Kan)
 Your Ref. () in EP 580/E6/3/9
 dated 24.10.2002 Fax No. 2685 1155
 Total Pages 4

By Fax Only

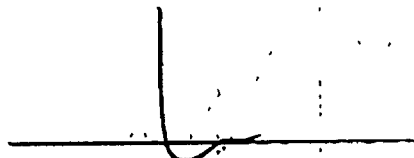
Shatin New Town, Stage II
Contract No. ST86/2000
Construction of Road T7 in Ma On Shan
Environmental Complaint of 23 October 2002

I refer to my previous memo ref. T7/(ST86/2000)/M05/412(0125) dated 25/10/2002 responding to your above quoted letter to OAP.

TDD and we met the complainant Mr. Chan on 26/10/2002. For details, please refer to the attached TDD's letter ref. (21) in NTE-ST 2/643TH/108 Pt. 2 dated 28/10/2002. Ad hoc construction noise monitoring was subsequently conducted by OAP on 30/10/2002 and the construction noise levels were found below the allowable limit of 75 dB(A). For details, please refer to the attached OAP's letter ref. 23156/L182/ST/TC/tc dated 01/11/2002.

Should you have any query, please feel free to contact the undersigned or my SRE Mr. K. H. Cheng at telephone No. 2643 9020.

23156
2/11/02
2/11/02
ST TC Key
87 m RL


 Y. H. Fung
 Chief Resident Engineer

cc : PM/NTE, TDD - Attn. : Mr. George Mak)
 DLO/ST, Land D) By fax
 OAP)
 MCAL)

Enc.
 YHF:jc

By Fax Only



拓展署
Territory Development
Department, Hong Kong

新界東拓展處
NEW TERRITORIES
DEVELOPMENT OFFICE



來函編號 Your Reference T7(ST86/2000)/M05/413(0063)
本署編號 Our Reference (7) in NTE-ST 2/643TH/108 PL 2
電話 Telephone 2301 1159
傳真號碼 Fax 2721 8630
2739 0076

日期 Date 28 October 2002

Chief Resident Engineer/T7
Chief Resident Engineer's Office
Trunk Road T7
7 Lok Wo Sha Lane
Ma On Shan, N.T.
Hong Kong

(Attn : Mr. K. H. Cheng)

Dear Sirs,

Sha Tin New Town, Stage II
Contract No. ST86/2000
Construction of Road T7 in Ma On Shan
Verbal Complaint from Mr. Chan of Block 3, Monte Vista

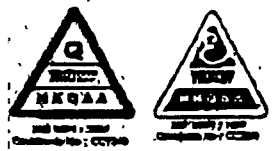
I refer to your memo of 26 October 2002 and the site meeting held in the afternoon of 26 October 2002 among the complainant Mr. Chan, the undersigned, yourselves and CHEC. As discussed after the meeting, please arrange for ad-hoc construction noise impact measurement at the roof of the club house and the podium near Block 3 of Monte Vista as agreed by Mr. Chan. Also as discussed, please also consider carrying out measurement at the usual noise monitoring station at the roof of Block 1 at the same time so that useful comparison of the readings from these locations can be made.

Yours faithfully,

George K. M. Mak
(George K. M. Mak)
for Project Manager/NTE

c.c. MCAL (Attn : Mr J. M. Slater)

Contract No. ST86/2000		
Trunk Road T7		
File No.: M05/413		
29 OCT 2002		
MCAL REF:	AT	C
CRB		
SHE 1		
SHE 2		
SLS 1	LS	
RE		
RE		
CS		
ARE		
ARE		
SIOW 1		
SIOW 2		
SIOW		
STO(C)		
Supplied:		



(C:\Correspondence\Oct 02\281002(1).doc)

Suite 1213, Chinaschem Golden Plaza, 77 Mody Road, Tsimshatsui East, Kowloon 九龍尖沙咀東彌敦道77號金禧廣場1213室

TDD Web Site: <http://www.info.gov.hk/tdd>

Ove Arup & Partners
奧雅納工程顧問

Our ref: 23156/L182/ST/TC/c
Date: 1 November 2002

Maunsell Consultants Asia Ltd
Trunk Road T7 CRE's Office
7 Lok Wo Sha Land
Ma On Shan, N.T.

Attention: Mr. Y H Fung

Contract No. ST86/2000		
IN Trunk Road T7		
File No.: 114(170)		
- 1 NOV 2002		
MCAL	ENV	C
CIB		
SRE 1		
SRE 2		
SLS	LS	
RE		
RB		
CS		
ARB		
ARE		
SIOW 1		
SIOW 2		
IOW		
STO(C)		
Replied:		

Level 5, Festival Walk
80 Tai Chee Avenue
Kowloon Tong, Kowloon
Hong Kong
Tel +852 2529 3031
Fax +852 2288 3950
Direct Tel +852 2288 3211

www.arup.com

ARUP



Dear Mr. Fung,

Sha Tin New Town, Stage II - Contract No. ST 86/2000
Construction of Road T7 in Ma On Sha
Environmental Monitoring and Audit (EM&A) Sub-consultancy
Noise Monitoring at Monte Vista

We refer to TDD's letter ref.: (21) in NTE-ST 2/643TH/108 Pt.2 dated 28 October 2002 regarding the public complaint from Monte Vista.

As per the verbal request of your Mr. KH Cheng, the ad-hoc noise measurements have been conducted on 30 October 2002 at the following locations and the noise measurement result are summarised in Table I.

1. Roof floor of Club House, Monte Vista;
2. Podium floor of Block 3, Monte Vista; and
3. Roof floor of Block 1, Monte Vista.

Table I - Noise Measurement Results

Date of Monitoring	Monitoring Location	Monitoring Period	Weather Condition	Wind Speed (m/s)		Monitoring Results, dB(A) (30 min)		
				Average	Max	L ₁	L ₅	L ₉₅
30/10/02	R/F., Club House	11:30 - 12:00	Cloudy	0.5	1.0	67.0	69.5	60.5
	Podium, Block 3	14:20 - 14:50	Cloudy	0.7	1.2	68.9	67.5	60.0
	R/F., Block 1	15:10 - 15:40	Cloudy	1.0	2.4	72.2	75.5	67.5

The major source of the construction noise were 2 operating rock breakers, 2 operating excavators and 1 dump truck located behind Monte Vista. All measurement results indicated that the construction noise levels are below the acceptable level of 75dB(A).

23156A.182/ST/TC/c
Mr. Y H Fong

If you require any further information, please do not hesitate to contact the undersigned or our Mr. Thomas Chan at 2268-3217.

Yours faithfully



Sam Tsoi
Associate Director

CC MCAL - Mr. John Slater (Fax: 2375-6455) (Fax only)
TDD - Mr. George K M Mak (Fax: 2739-0078) (Fax only)

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

8/F., Grand Central Plaza, Tower 2
138 Sha Tin 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

Your Ref.:
Our Ref. : T7/(ST86/2000)/M05/412(0133)

15 November 2002

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
Environmental Complaint EC-46
Noise from Night Work near Heng On Estate

I attach for your attention and necessary action a copy of TDD's letter ref. (32) in NTE-ST 2/643TH/108 Pt.2 dated 14 November 2002 regarding the captioned complaint.

You are reminded to observe the requirements of Noise Control Ordinance in respect of working in night. As discussed with your Mr. Gordon Tang yesterday, please provide the requested information as soon as possible.

Yours faithfully,

23156
2/11/02


K H Cheng
Senior Resident Engineer

Encl.
KHC:cc

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



By Fax Only



拓展署
Territory Development
Department, Hong Kong

新界東拓展處
NEW TERRITORIES
DEVELOPMENT OF



10018317

來稿編號 Your Reference

本署編號 Our Reference (32) in NTE-ST 2/643TH/108 Pt 2

電話 Telephone 2301 1159

圖文傳真 Fax 2721 8630
2739 0076

日期 Date 14 November 2002

GC-46
46

Chief Resident Engineer/T7
Chief Resident Engineer's Office
Trunk Road T7
7 Lok Wo Sha Lane
Ma On Shan, N.T.
Hong Kong

(Attn : Mr. K. H. Cheng)

Dear Sirs,

Contract No. ST86/2000		
IN Trunk Road T7		
File No: WAO/1412		
Date: 14 NOV 2002		
MCAL REF	AI	C
CS		
SIB 1	A	
SIB 2	I	
SL	LI	
RE		
RE		
CS		
ARE		
ARE		
SLOW 1	I	✓
SLOW 2	I	✓
LOW		
STOC		
Replied :		

Sha Tin New Town, Stage II
Contract No. ST86/2000
Construction of Road T7 in Ma On Shan

Complaint of Restricted Hours Construction Noise near Heng On Estate

I refer to the attached complaint from Mr 己 made on 5 November 2002 at 2:53 a.m. which was referred to us by ICC on 13 November 2002 and to the telephone discussion (Clive Cheng/George Mak) on 14 November 2002

I would be grateful if you could investigate the complaint and report back to us the result of your investigation no later than 20 November 2002. In addition, please provide the following information to us regarding this issue -

- What time did the Contractor complete his work in the early hours of 5 November 2002?
- Did the police come to the site to investigate the complaint? If so, please provide further details on what happened after the police came.
- Please provide information on the Contractor's daily working hours after 7 p.m. opposite Heng On Estate from 5 November 2002 to to-date.



D:\Correspondence\Nov 02\141102(2).doc

Suite 1213, Chinachem Golden Plaza, 77 Mody Road, Tsimshatsui East, Kowloon 九龍尖沙咀東部廣地第 77 號華地廣場 1213 室

TOD Web Site: <http://www.info.gov.hk/tdd>

- Please provide restricted hours construction noise monitoring data carried out by the ET, the RSS and/or the Contractor at the monitoring point closest to Heng On Estate.

Yours faithfully,



(George K M Mak)
for Project Manager/NTE

c.c. MCAL (Attn : Mr J. M. Slater) - w/e

ICC CASE: 1-17367409

Request Type : Complaint
Channel : Phone
Case Creation Date : 2002-11-05 02:53:02

DUE DATE:

Acknowledgement : 2002-11-07 17:00:00
Interm Reply : 2002-11-15 14:00:00
Final Reply : 2002-12-03 13:00:00

ASSIGNMENT HISTORY:

(Date/Time)	(Status)	(Dept)	(Assigned To)
2002-11-05 02:53:03	Open	HYD	NT/CTO/ST

EVENT DETAILS:

Event Date & Time : 至03:00AM

EVENT LOCATION:

Room :
Floor :
Block No. :
Building Name : 起天橋工程
Estate : 恆安邨對面
Street No. :
Street Name :
District : Ma On Shan (馬鞍山)
Region : NT

CONTACT INFORMATION:

Last Name : Mr. 乙
First Name :
Alt Name :
Contact Address :
Daytime No. : 60937093
Nighttime No. :
Mobile : 60937093
Alt Tel No. :
Fax :
Email Address :
Case Source : General Public

CASE DETAILS:

Subject Matter : Road Works

Description:

己先生投訴有關起天橋工程(恆安邨對面), 開工至現在03:00AM仍未停工, 發出噪音, 已建議己先生可致電分區警署26405200作即時行動, 唯己先生仍希望可留下作記錄, 如屬跨政署工程可日後跟進

Specific Questions and Answers:

1) 請問是什麼類別的道路、天橋或隧道?

Ans: 其他 (請註明)

Remark: 起天橋工程

2) 請問負責該道路工程是哪間公司?

Ans: 其他 - 請註明

Remark: 不知道

3) 請提供負責標稱的合約號碼 (列於告示板上)?

Ans: 請註明

Remark: 不知道

4) 該道路工程有什麼問題?

Ans: 工程噪音

Remark:



中國香港建設(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 : 16 November 2002
Your Ref : T7/(ST86/2000)/M05/412(0133)
Our Ref : T7/01.01/O/05180

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

Attention: Mr. Y.H. Fung - CRE

Dear Sir,

Contract No. ST86/2000
Sha Tin New Town, Stage II
Environmental Complaint No. EC-46 – Noise from Night Work near Heng On Estate

We refer to your letter dated 15 November 2002 regarding the captioned complaint from Mr. 己 of Heng On Estate.

To suit the progress of bridge works, we have obtained from the EPD a Construction Noise Permit No. GW-TN-0427-2002 for segment launching works between 23:00 and 07:00 of next day effective from 28 October 2002. Such overnight works will not be carried out on each day but on ad hoc basis.

The first overnight work was carried out from 23:00 of 4 November 2002 to 07:00 of 5 November 2002. On that night permanent prestressing work was carried out, during the period silenced type generator and electrical winch with additional noise barriers were used. We understand that no police came to the site for any investigation on the captioned noise complaint on that night

Noise measurements have been conducted on 4 and 16 November 2002 on top roof of Heng Shan House at Heng On Estate, the noise level results were attached herewith for your information. The results show that the construction noise levels were below the limit level of 70dB(A)

As the bridge segment launching works at Bridge TA opposite Heng On Estate will be completed by the end of November this year, we would keep noise nuisance to the public at this area to minimal as practical as possible.

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

Chan Man
Project Manager

CM/WW/KCW/GT/fc
Enc.

c.c. MCAL – H.O.
OAP (by fax only)
CHEC – H.O.

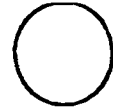
23156
af 4524
20 NOV 2002
St. in Japan
TC
Koy

Sha Tin New Town Stage II, Contract No. ST86/2000
 Construction of Road T7 in Ma On Shan
 Night works at Bridge TA
 Noise Monitoring Records

Noise Monitoring Point : Roof Top, Heng Shan House, Heng On Estate

Time	Period	Measurement Time	LAeq	LAmx	L Amin	LA05	LA10	LA50	LA90	LA95
4/11/2002	21:00 - 21:05	00:05:00	65.4	69.5	58.5	68	67.7	65	61	59.9
4/11/2002	21:05 - 21:10	00:05:00	68.5	73.1	58.3	72.2	71.1	67.1	60.7	59.9
4/11/2002	21:10 - 21:15	00:05:00	66.4	74.3	59.2	69.9	68.9	65.3	62.4	61.7
4/11/2002	22:00 - 22:05	00:05:00	65.3	73.9	57.3	69.1	68.2	64.5	60.6	59.6
4/11/2002	22:05 - 22:10	00:05:00	62.3	73.3	54.2	66.6	65.4	60.8	57.5	57.1
4/11/2002	22:10 - 22:15	00:05:00	64.3	71.2	57.2	67.1	66	63.6	61.3	59.3
16/11/2002	21:00 - 21:05	00:05:00	67.9	74.8	50.5	71.3	70.8	67.4	62.1	58.7
16/11/2002	21:05 - 21:10	00:05:00	68.4	76.1	60.1	71.2	70.6	68	64.6	63.7
16/11/2002	21:10 - 21:15	00:05:00	68.3	75.6	56.4	71.6	71	67.8	63.9	62.5
16/11/2002	22:00 - 22:05	00:05:00	64.3	74.6	52.6	67.5	66.7	63.8	58.6	56.3
16/11/2002	22:05 - 22:10	00:05:00	64.3	72.3	52.6	67.6	66.9	63.8	58.6	57.4
16/11/2002	22:10 - 22:15	00:05:00	64.1	77.9	52.7	67.2	66.3	63.2	58.8	57.4

MEMO



From K H Cheng, SRE/T7
MCAL, NTE Development
 Ref. in T7/(ST86/2000)/M05/412(0135)
 Tel. No. 2643 9020
 Fax. No. 2643 3559
 Date 20 November 2002

To PM/NTE, TDD
 Attn.: Mr. George Mak
 Your Ref. (32) in NTE-ST 2/643TH/108 Pt.2
 dated 14.11.02 Fax. No. _____
 Total Pages 1 + 6

By Fax Only

Sha Tin New Town Stage II
 Contract No. ST 86/2000
 Construction of Road T7 in Ma On Shan
Complaint of Restricted Hours Construction Noise near Heng On Estate

I refer to your letter of 14 November 2002 concerned the captioned complaint and would advise as follows.

- 1) The Contractor completed the stressing works at Bridge TA at about 8:00 am of 5 November 2002, i.e. working overnight on 4 November 2002.
- 2) The Police did not come to deal with the complaint.
- 3) The Contractor has worked at the concerned area until 11:00 pm daily from 5 November 2002 to date, with another overnight work on 12 November 2002, i.e. till 7:00 am of 13 November 2002.
- 4) Attached please find for your reference a copy of Page 3-1, Page 4-3 and the relevant page in Appendix 3 of the EM&A Report of October 2002, showing the evening time noise monitoring results at NM3, the podium floor of Heng Shan House. A copy of the same in November 2002 provided by the ET is also attached.

As discussed with the Contractor after receiving the complaint, it is believed that the complaint was likely due to shouting of labourers during the stressing operations since there was no noisy plant or equipment being used. A copy of the Contractor's letter ref. T7/01.01/O/05180 dated 16 November 2002 is attached for your information. As discussed with the ET on the issue, it is not intended for the time being to carry out noise monitoring in early morning at NM3 for the same reason.

Finally, the Contractor and our supervision staff have been directed to pay particular attention to any possible noise nuisance arising from such overnight works.

23156

Handwritten initials: 2/15/02

K H Cheng
 Senior Resident Engineer

SI in Japan

Handwritten initials: TC, TC, Roy

KHC:jt
 Encl.
 cc : MCAL
 OAP (by fax only)

3. SUMMARY OF EM&A REQUIREMENTS

Construction 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. The monitoring programme for October 2002 and the planned schedule for November 2002 are provided in Appendix 1 and Appendix 2 respectively.

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

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

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

3.1.3 Monitoring Locations

A total of 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 floor of Block 15

Table 4-3 - Construction evening time noise monitoring results for October 2002.

Date of Monitoring		Monitoring Results: L _A dB(A) (5min)				
		NM3	NM4	NM6	NM7	NM8
Week 1	07/10/02 (Mon)	-	-	64.0	-	63.0
		-	-	63.5	-	63.0
		-	-	63.0	-	63.5
Week 2	16/10/02 (Wed)*	61.0	59.4	-	-	-
		61.7	59.4	-	-	-
		63.5	58.4	-	-	-
Week 3	23/10/02 (Wed)*	62.0	60.0	-	-	-
		63.0	60.5	-	-	-
		62.3	61.2	-	-	-
Week 4	31/10/02 (Thu)	62.5	60.0	63.0	-	65.0
		62.8	60.5	64.0	-	66.5
		61.5	60.0	62.5	-	64.8

Noted: * Evening time noise monitoring is not required at monitoring stations NM3 and NM4 in Week 1 as no construction works was conducted near these stations.

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

* As the locations of the restricted hour works have been moved, the evening time noise monitoring locations at NM6 Symphony Bay and NM8 Roof of blk5, Monte Vista were no longer valid for checking the restricted hour noise impact. Therefore, the evening time noise monitoring at these 2 stations was suspended since Week 2. However, as per the request of ER, the evening time noise monitoring at NM6 and NM8 have been resumed in Week 4.

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 ₉₀	L ₅₀	L ₁₀
Oct-02	07-Oct-02	1	NM6	19:00	19:05	fine	0.4	64.0	65.5	57.5
Oct-02	07-Oct-02	2	NM6	19:05	19:10	fine	0.4	63.5	65.0	58.0
Oct-02	07-Oct-02	3	NM6	19:10	19:15	fine	0.4	63.0	65.0	58.0
Oct-02	07-Oct-02	1	NM8	19:20	19:25	fine	0.6	63.0	65.0	57.0
Oct-02	07-Oct-02	2	NM8	19:25	19:30	fine	0.6	63.0	65.5	57.5
Oct-02	07-Oct-02	3	NM8	19:30	19:35	fine	0.6	63.5	66.0	57.0
Oct-02	16-Oct-02	1	NM3	19:00	19:05	fine	0.4	61.0	63.0	59.5
Oct-02	16-Oct-02	2	NM3	19:05	19:10	fine	0.4	61.7	64.0	58.0
Oct-02	16-Oct-02	3	NM3	19:10	19:16	fine	0.4	63.5	65.0	60.6
Oct-02	16-Oct-02	1	NM4	19:25	19:30	fine	0.4	59.4	60.0	58.5
Oct-02	16-Oct-02	2	NM4	19:30	19:35	fine	0.4	59.4	61.5	57.5
Oct-02	16-Oct-02	3	NM4	19:35	19:40	fine	0.4	58.4	60.0	56.5
Oct-02	23-Oct-02	1	NM3	19:00	19:05	fine	0.3	62.0	64.0	59.0
Oct-02	23-Oct-02	2	NM3	19:05	19:10	fine	0.3	63.0	64.5	60.0
Oct-02	23-Oct-02	3	NM3	19:10	19:15	fine	0.3	62.3	65.0	58.5
Oct-02	23-Oct-02	1	NM4	19:30	19:35	fine	0.4	60.0	62.0	57.0
Oct-02	23-Oct-02	2	NM4	19:35	19:40	fine	0.4	60.5	63.0	56.5
Oct-02	23-Oct-02	3	NM4	19:40	19:45	fine	0.4	61.2	62.5	57.0
Oct-02	31-Oct-02	1	NM3	19:05	19:10	fine	0.3	62.5	65.0	60.0
Oct-02	31-Oct-02	2	NM3	19:10	19:15	fine	0.3	62.8	65.0	59.5
Oct-02	31-Oct-02	3	NM3	19:15	19:20	fine	0.3	61.5	65.0	60.0
Oct-02	31-Oct-02	1	NM4	19:40	19:45	fine	0.5	60.0	63.5	57.5
Oct-02	31-Oct-02	2	NM4	19:45	19:50	fine	0.5	60.5	64.0	57.0
Oct-02	31-Oct-02	3	NM4	19:50	19:55	fine	0.5	60.0	64.0	57.0
Oct-02	31-Oct-02	1	NM6	21:00	21:05	fine	0.6	63.0	66.5	57.5
Oct-02	31-Oct-02	2	NM6	21:05	21:10	fine	0.6	64.0	68.0	57.0
Oct-02	31-Oct-02	3	NM6	21:10	21:15	fine	0.6	62.5	65.5	57.0
Oct-02	31-Oct-02	1	NM8	20:15	20:20	fine	0.6	65.0	68.5	57.0
Oct-02	31-Oct-02	2	NM8	20:20	20:25	fine	0.8	66.5	68.4	60.0
Oct-02	31-Oct-02	3	NM8	20:25	20:30	fine	0.8	64.8	67.0	57.5

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 _{max}	L ₁₀	L ₅
Nov-02	07-Nov-02	1	NM3	20:00	20:05	fine	0.3	61.5	64.5	58.0
Nov-02	07-Nov-02	2	NM3	20:05	20:10	fine	0.3	62.0	66.0	58.5
Nov-02	07-Nov-02	3	NM3	20:10	20:15	fine	0.3	60.0	63.5	58.0
Nov-02	12-Nov-02	1	NM3	19:00	19:05	fine	0.2	60.5	63.0	57.5
Nov-02	12-Nov-02	2	NM3	19:05	19:10	fine	0.2	63.0	65.5	59.0
Nov-02	12-Nov-02	3	NM3	19:10	19:15	fine	0.2	61.0	64.8	58.0



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 : 16 November 2002
Your Ref : T7/(ST86/2000)/M05/412(0133)
Our Ref. : T7/01.01/O/05180

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

Attention: Mr. Y.H. Fung- CRE

Dear Sir,

Contract No. ST86/2000
Sha Tin New Town, Stage II
Environmental Complaint No. EC-46 – Noise from Night Work near Heng On Estate

We refer to your letter dated 15 November 2002 regarding the captioned complaint from Mr. 己 of Heng On Estate.

To suit the progress of bridge works, we have obtained from the EPD a Construction Noise Permit No. GW-TN-0427-2002 for segment launching works between 23:00 and 07:00 of next day effective from 28 October 2002. Such overnight works will not be carried out on each day but on ad hoc basis.

The first overnight work was carried out from 23:00 of 4 November 2002 to 07:00 of 5 November 2002. On that night permanent prestressing work was carried out, during the period silenced type generator and electrical winch with additional noise barriers were used. We understand that no police came to the site for any investigation on the captioned noise complaint on that night

Noise measurements have been conducted on 4 and 16 November 2002 on top roof of Heng Shan House at Heng On Estate, the noise level results were attached herewith for your information. The results show that the construction noise levels were below the limit level of 70dB(A)

As the bridge segment launching works at Bridge TA opposite Heng On Estate will be completed by the end of November this year, we would keep noise nuisance to the public at this area to minimal as practical as possible.

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

.....
Chan Man
Project Manager

CM/W/KCW/GT/fc
Enc.

c.c. MCAL – H.O.
OAP (by fax only)
CHEC – H.O.

**Sha Tin New Town Stage II, Contract No. ST86/2000
Construction of Road T7 in Ma On Shan
Night works at Bridge TA
Noise Monitoring Records**

Noise Monitoring Point : Roof Top, Heng Shan House, Heng On Estate

Time	Period	Measurement Time	LAeq	L.Amax	L.Amin	LA05	LA10	LA50	LA90	LA95
4/11/2002	21:00 - 21:05	00:05:00	65.4	69.5	58.5	68	67.7	65	61	59.9
4/11/2002	21:05 - 21:10	00:05:00	68.5	73.1	58.3	72.2	71.1	67.1	60.7	59.9
4/11/2002	21:10 - 21:15	00:05:00	66.4	74.3	59.2	69.9	68.9	65.3	62.4	61.7
4/11/2002	22:00 - 22:05	00:05:00	65.3	73.9	57.3	69.1	68.2	64.5	60.6	59.6
4/11/2002	22:05 - 22:10	00:05:00	62.3	73.3	54.2	66.6	65.4	60.8	57.5	57.1
4/11/2002	22:10 - 22:15	00:05:00	64.3	71.2	57.2	67.1	66	63.6	61.3	59.3
16/11/2002	21:00 - 21:05	00:05:00	67.9	74.8	50.5	71.3	70.8	67.4	62.1	58.7
16/11/2002	21:05 - 21:10	00:05:00	68.4	76.1	60.1	71.2	70.6	68	64.6	63.7
16/11/2002	21:10 - 21:15	00:05:00	68.3	75.6	56.4	71.6	71	67.8	63.9	62.5
16/11/2002	22:00 - 22:05	00:05:00	64.3	74.6	52.6	67.5	66.7	63.8	58.6	56.3
16/11/2002	22:05 - 22:10	00:05:00	64.3	72.3	52.6	67.6	66.9	63.8	58.6	57.4
16/11/2002	22:10 - 22:15	00:05:00	64.1	77.9	52.7	67.2	66.3	63.2	58.8	57.4

本署標誌
 OUR REF: EP 580/E6/3/9
 來函編號
 YOUR REF:
 電話
 TEL. NO.:
 圖文傳真 2158 5823
 FAX NO.:
 電子郵件 2685 1155
 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

25 November 2002

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)

Dear Sir,

Sha Tin New Town Stage II Contract No. ST 86/2000
Construction of Road T7 in Ma On Shan
Public Complaint of 23 November 2002

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

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

Arup Acoustics		Job No. 23156
Master Ref. 61555		File No.
Reply Ref.	By:	Date
Action Required:		
Received 26 NOV 2002		
Initis.	ST	TC
Action	ST	TC
Info.	ST	TC
Copy	ST	TC

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/00011413-02

ICC Ref:

CASE DETAILS

(1) Incident 23/11/2002

(2) Incident Location : Monte Vista, 地址 :
N01 - SHA TIN

(3) TPU : 757

(4) Description : COMPLAINT OF CONSTRUCTION NOISE AND ODOUR AT T7 ROAD FROM BETWEEN MONTE VISTA AND LEE ON ESTATE, SHA TIN

(5) Nature	(6) Affected Party	(7) Pollution Pattern
N66-General construction noise except renovation	DMS-Domestic Premises	
A49-Malodour	DMS-Domestic Premises	

(8) Priority class : C - Routine i.e. substantive reply to be made on or before 16/12/2002

DETAILS OF THE SUSPECTED POLLUTER

(1) Premises Name : UNKNOWN 姓名 : 不知名

(2) Premises Address : 地址 :

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

COMPLAINANT

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

(3) Address : 地址 :

(4) Email Address :

CHANNEL OF COMPLAINT

Source channel: 06 - Internet
Source code : P - Public 市民
Remarks :

ACTION OFFICERS

	Nature Code	SEPO	EPO	CI
Coordinator	N66	S[TN]2		CI[TN]2
Officers provide inputs to coordinator	A49	S[TN]1		

INFORMATION INPUTTED BY

Name : INTELE Date : 23/11/2002 Time : 10:50



中國香港建設(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 : 27 November 2002
Your Ref : T7/(ST86/2000)/M05/412(0137)
Our Ref : T7/01.01/O/05271

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

Attention: Mr. Y. H. Fung- CRE

Dear Sir,

Contract No. ST86/2000
Sha Tin New Town, Stage II
Construction of Road T7 in Ma On Shan
Environmental Complaint No. EC-47 – Noise and odour from Works between Monte Vista and Lee On Estate

Arup Acoustics		Job No. 23156
Master Ref: 911588		File No.
Reply Ref:	By:	Date
Action Required:		
Received 28 NOV 2002		
Inits.	ST	TC
Action	ST	TC
Info.	ST	TC
Copy		

We refer to your letter dated 26 November 2002 regarding the captioned complaint, we found that the noise and odour were mainly came from the generator located at Bridge TC Cap 13, which was switched on between the time period 22 November 2002 19:00 and 23 November 2002 01:30 as our sub-contractor staff forgot to switch off the generator after works.

A warning letter was issued to the sub-contractor and separated memorandum have been sent to all of our sub-contractors to make sure the same case would not be happened again.

Enclosed please find the copies of warning letter and memoranda for your retention. 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/D/GT/TC
c.c/ MCAL – H.O.
OAP (by fax only)
TDD – Mr. George Mak
CHEC – H.O.
Int: WW/JC/SC



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: 27 November 2002
Our Ref: T7/10.01/O/04491

Kin Lee Civil Engineering Co., Ltd
Room 1, 8/F Cosmopolitan Centre
760 Nathan Road
Kowloon

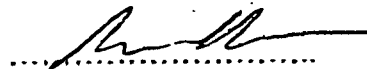
Dear Sirs

Contract No. ST86/2000
Construction of Road T7 in Ma On Shan
Environmental Complaint - Noise and odour Complaint by Resident of Monte Vista

A complaint was raised from EPD that the generator G30 was found switched on during the time period between 22 November 2002 19:00 to 23 November 2002 01:30. The generator was switched off by the police at that night on 01:30. After investigation, we found that the generator, located near Bridge TC Cap 13, was used by your construction works and your staff forgot to switch off the generator after works. This was a serious mistake and would cause prosecution from the police and EPD. You must warn your staff and foreman to make sure the same case would not be happened again.

Enclosed please find the letter and photo for your reference.

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


.....
Chan Man
Project Manager

Encl.
CM/CL/RL/ST/fc

C.C. Mr. George Mak (TDD) (Fax no:27218630) /
Mr. Y.H.Fung (MCAL) (Fax No: 26433559) /
WW,JC,SC

香港北角英皇道 370-374 號振華大廈 19 樓

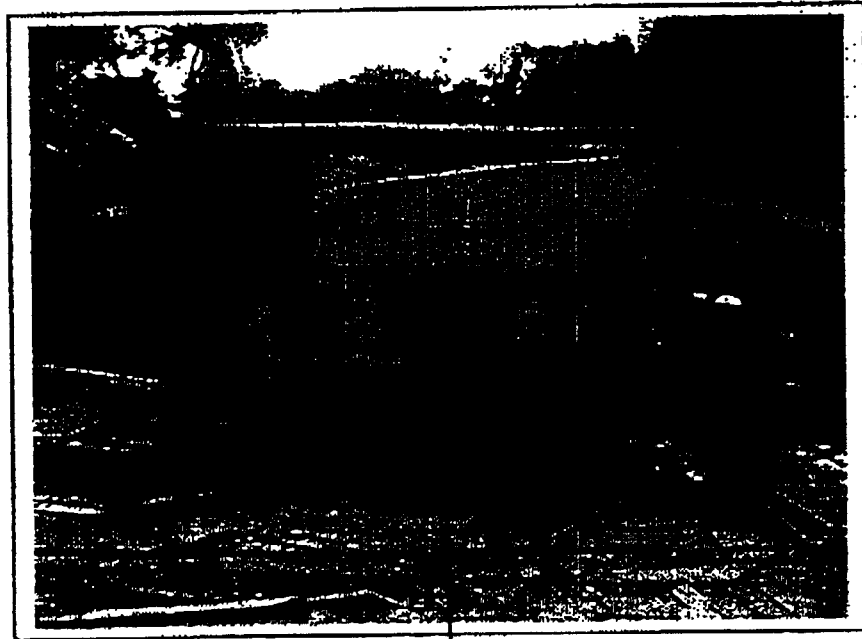
19/F., China Harbour Building, 370-374 King's Road, North Point, Hong Kong.

Tel: (852) 2887 8118

Fax: (852) 2512 0427

Website: <http://www.chechk.com>

Photos



This generator, located near Bridge TC Cap 13, was found switched on during the time period between 22 November 2002 19:00 to 23 December 2002 01:30 without the coverage of Construction Noise Permit



Memo

To : All Sub-contractors
From : Mr. Phillip Leung
Date : 27/11/2002
Our Ref : T7/12.01/O/04495
Subject : Operation of powered mechanical equipment under Construction Noise Permit

Recently, we have received a complaint from EPD that the generator used by one of our sub-contractors was found switched on overnight without any coverage by the construction noise permit. The odour and noise generated affected the resident nearby and police and EPD was informed to investigate the case.

Please be reminded that this was a very serious mistake and would cause prosecution from the police and EPD. You must inform your staff and foreman to make sure all the generators or other powered mechanical equipment should be switched off at night if not cover by any construction noise permit.

Thank you for your co-operation.

Yours faithfully,


Phillip Leung

PL/ST/fc

c.c. CL/WW/ST/KCW/SMM/YYL/HH/JC
Mr. Y. H. Fung (MCAL)

MEMO

From K H Cheng, SRE/T7
MCAL, NTE Development
 Ref. in T7(ST86/2000)/M05/412(0141)
 Tel. No. 2643 9020
 Fax No. 2643 3559
 Date 29 November 2002

To: Director of Environmental Protection
 Attn.: Mr. Jack Kan
 Your Ref. in EP 580/E6/3/9
 dated 25.11.2002 Fax No. 2685 1155
 Total Pages 1 + 5

By Fax Only

Sha Tin New Town, Stage II
Contract No. ST 86/2000
Construction of Road T7 in Ma On Shan
Public Complaint of 23 November 2002

I refer to your above quoted letter of 25 November 2002 enclosing the particulars of the captioned complaint (copy attached for your ease of reference). Please find attached for your reference the Contractor's self-explanatory letter ref. T7/01.01/O/05271 dated 27 November 2002.

As the T7 work has caused inconvenience to the nearby residents, please relay my apology to them.

Arup Acoustics		Job No. 23156	
Master Ref.:		File No.	
Reply Ref.:	Project Ref.:		
Action Required:	By:	Date	
Received 29 NOV 2002			
Initis.	ST	TC	Rmj
Action			
Info.	ST	TC	RL
Copy			



K H Cheng
Senior Resident Engineer

Encl.

KHC:cc

cc: PM/NTE, TDD - Attn : Mr. George Mak (by fax)
 MCAL
 OAP - Attn : Mr. Thomas Chan (by fax - 2268 3950)

NOTICE OF COMPLAINT

Complaint Ref. : N01/TN/00011413-02

ICC Ref:

CASE DETAILS

(1) Incident 23/11/2002

(2) Incident Location : Monte Vista,
N01 - SHA TIN

地址 :

(3) TPU : 757

(4) Description : COMPLAINT OF CONSTRUCTION NOISE AND ODOUR AT T7 ROAD FROM BETWEEN MONTE VISTA AND LEE ON ESTATE SHA TIN

(5) Nature

(6) Affected Party

(7) Pollution Pattern

N66-General construction noise except renovation

DMS-Domestic Premises

A49-Malodour

DMS-Domestic Premises

Priority class : C - Routine

i.e. substantive reply to be made on or before 16/12/2002

DETAILS OF THE SUSPECTED POLLUTER

(1) Premises Name : UNKNOWN

姓名 : 不知名

(2) Premises Address :

地址 :

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

COMPLAINANT

(1) Name :

(2) Tel. No. : Day :

Night :

Mobile:

(3) Address :

地址 :

Email Address :

CHANNEL OF COMPLAINT

Source channel: 06

- Internet

Source code : P

- Public 市民

Remarks :

ACTION OFFICERS

	Nature Code	SEPO	RPO	CI
Coordinator	N66	S[IN]2		CI[IN]2
Officers provide inputs to coordinator	A49	S[IN]1		

INFORMATION INPUTTED BY

Name : INTELE

Date : 23/11/2002

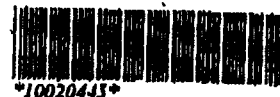
Time : 10:50



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
HONG KONG REPRESENTATIVE: ZHEN HUA ENGINEERING CO., LTD.



10020443

Date : 27 November 2002
Your Ref : T7/(ST86/2000)/M05/412(0137)
Our Ref. : T7/01.01/O/05271

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

Attention: Mr. Y. H. Fung- CRE

Dear Sir,

Contract No. ST86/2000
Sha Tin New Town, Stage II
Construction of Road T7 in Ma On Shan
Environmental Complaint No. EC-47 – Noise and odour from Works between Monte Vista and Lee On Estate

Contract No. ST86/2000		
IN	Trunk Road T7	
File No.:	M05/412	
Recd:	28 NOV 2002	
MCAL RES	AT	C
CRE		
SRB 1	I	
SRB 2	I	
SLB	LS	
RB 1, 2, 3, 4	I	
RE		
QS		
ARE		
ARE		
STOW 1	I	✓
STOW 2	I	✓
HOW		
Replied:		

We refer to your letter dated 26 November 2002 regarding the captioned complaint, we found that the noise and odour were mainly came from the generator located at Bridge TC Cap 13, which was switched on between the time period 22 November 2002 19:00 and 23 November 2002 01:30 as our sub-contractor staff forgot to switch off the generator after works.

A warning letter was issued to the sub-contractor and separated memorandum have been sent to all of our sub-contractors to make sure the same case would not be happened again.

Enclosed please find the copies of warning letter and memoranda for your retention. 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/PT/GT/IC
c.c/ MCAL - H.O.
OAP (by fax only)
TDD - Mr. George Mak
CHEC - H.O.
Int: WW/JC/SC



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: 27 November 2002
Our Ref: T7/10.01/O/04491

Kin Lee Civil Engineering Co., Ltd
Room 1, 8/F Cosmopolitan Centre
760 Nathan Road
Kowloon

Dear Sirs

Contract No. ST86/2000
Construction of Road T7 in Ma On Shan
Environmental Complaint - Noise and odour Complaint by Resident of Monte Vista

A complaint was raised from EPD that the generator G30 was found switched on during the time period between 22 November 2002 19:00 to 23 November 2002 01:30. The generator was switched off by the police at that night on 01:30. After investigation, we found that the generator, located near Bridge TC Cap 13, was used by your construction works and your staff forgot to switch off the generator after works. This was a serious mistake and would cause prosecution from the police and EPD. You must warn your staff and foreman to make sure the same case would not be happened again.

Enclosed please find the letter and photo for your reference.

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


.....
Chan Man
Project Manager

Encl.
CM/CL/PH/ST/fc


C.C. Mr. George Mak (TDD) (Fax no:27218630)
Mr. Y.H.Fung (MCAL) (Fax No: 26433559) ,
WW,JC,SC

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.cbcehk.com>

Photos



This generator, located near Bridge TC Cap 13, was found switched on during the time period between 22 November 2002 19:00 to 23 December 2002 01:30 without the coverage of Construction Noise Permit



Memo

To : All Sub-contractors
From : Mr. Phillip Leung
Date : 27/11/2002
Our Ref : T7/12.01/O/04495
Subject : Operation of powered mechanical equipment under Construction Noise Permit

Recently, we have received a complaint from EPD that the generator used by one of our sub-contractors was found switched on overnight without any coverage by the construction noise permit. The odour and noise generated affected the resident nearby and police and EPD was informed to investigate the case.

Please be reminded that this was a very serious mistake and would cause prosecution from the police and EPD. You must inform your staff and foreman to make sure all the generators or other powered mechanical equipment should be switched off at night if not cover by any construction noise permit.

Thank you for your co-operation.

Yours faithfully,


Phillip Leung

PL/gt/fc

c.c. CL/WW/ST/KCW/SMM/YYL/HH/JC
Mr. Y. H. Fung (MCAL)

本署編號
 OUR REF: EP 580/E6/3/9
 來函編號
 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
 上禾輦路一號
 沙田政府合署 10 樓

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		3 December 2002 23156	
Master Ref: 11218	Project Ref.:	File No.:	
Reply Ref.:	By:	Date:	
Action Required:			
Received - 2 DEC 2002			
Inits.	ST	TC	JK
Action	ST	TC	JK
Info.			
Copy			

By Fax Only
 (Fax : 2865 6493)

Dear Sir,

Sha Tin New Town Stage II Contract No. ST 86/2000
 Construction of Road T7 in Ma On Shan
Public Complaint of 30 November 2002

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
 Maunsell
 CHEC

(Attn: Mr. George Mak
 (Attn: Mr. Y H Fung
 (Attn: Mr Chan Man

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

NOTICE OF COMPLAINT

Complaint Ref. : N01/TN/00011730-02

ICC Ref.:

CASE DETAILS

(1) Incident 30/11/2002

(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 23/12/2002

DETAILS OF THE SUSPECTED POLLUTER

(1) Premises Name : UNKNOWN

姓名 : 不知名

(2) Premises Address :

地址 :

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

COMPLAINANT

(1) Name :

(2) Tel. No. : Day :

Night :

Mobile:

(3) Address :

地址 :

N01 - SHA TIN

(4) Email Address :

CHANNEL OF COMPLAINT

Source channel: 01 - Phone

Source code : P - Public 市民

Remarks : 先生投訴上址的地盤星期日有人開工,以及有部發電機日日都發出噪音至凌晨12:00,十分擾民,請儘快跟進.

ACTION OFFICERS

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

INFORMATION INPUTTED BY

Name : HAUEI

Date : 30/11/2002

Time : 12:10

P.02 852 2685 1155

852 2685 1155

02-11-2002 12:10



中國香港建設(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 : 5 December 2002
Your Ref : EP580/E6/3/9
Our Ref : T7/02.03/O/04574

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

Attention: Mr. Jack Kan

Dear Sir,

Contract No. ST86/2000
Sha Tin New Town, Stage II
Construction of Road T7 in Ma On Shan
Noise nuisance from Sunday Works near Kam Ying Court

We refer to your letter dated 2 December 2002 regarding the captioned complaint from resident of Kam Ying Court on 30 November 2002, for your information, we have already obtained the Construction Noise Permit in the area of RW-D1 (CNP no: GW-TN0274-2002) and TC1 & TC2 (CNP no: GW-TN0294-2002) near Kam Leung House, Kam Ying Court to work on Sunday from 07:00 to 23:00.

We have checked our site record and found that the generator at Bridges TC1 & TC2 would be switched off by our sub-contractor before 23:00 every night (covered by CNP no.: GW-TN0294-2002) and so the generator would not be operated until midnight. We however would keep noise nuisance to the public at this area to minimal as practical as possible.

We would keep on reminding our subcontractors to follow all the conditions and the restricted location stated in the construction noise permit.

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/WW/PY/GT/fc

c.c. MCAL - Mr. Y H Fung

MCAL - H.O.

CHEC - H.O.

OAP - Mr. Sam Tsoi (fax: 2865 6493)

TDD - Mr. George Mak (fax: 2721 8630)

Int: CL/JC/SC

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.cbechk.com>

本署編號
 OUR REF: EP 580/E6/3/9
 來函編號
 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
 上禾輦路一號
 沙田政府合署 10 樓

17 December 2002

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 of 16 December 2002

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.

Arup Acoustics		Job No. 23156
Master Ref.:		File No.
Reply Ref.:	Project Ref.:	Date
Action Required:		
Received 17 DEC 2002		
ST on leave	TC	TC
Initis. ST	TC	TC
Action	TC	TC
Info.	TC	TC
Copy	TC	TC

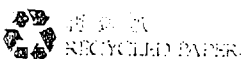
Yours faithfully,

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

Encl.

c.c. (all w/e) TDD (Attn: Mr. George Mak)
 Maunsell (Attn: Mr. Y H Fung)
 CHEC (Attn: Mr Chan Man)

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



NOTICE OF COMPLAINT

Complaint Ref. : N01/TN/00012324-02

ICC Ref:

CASE DETAILS

(1) Incident 16/12/2002

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

地址 :

(3) TPU : 757

(4) Description : COMPLAINT OF SUNDAY CONSTRUCTION NOISE FROM T7 EXPRESS SITE, NEAR 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 08/01/2003

DETAILS OF THE SUSPECTED POLLUTER

(1) Premises Name : TRUNK ROAD T7 CONSTRUCTION SITE 姓名 : T7 幹線地盤

(2) Premises Address : SAI SHA ROAD,
N05 - TAI PO

地址 :

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

POLLUTER HISTORY

<u>Complaint Ref No.</u>	<u>Complainant ID</u>	<u>Date of Complaint</u>	<u>Substantive Reply Date</u>	<u>Nature Code</u>
N01/TN/00009156-02		02/10/2002	16/10/2002	A42
N05/TN/00008458-02		10/09/2002	19/09/2002	N66

COMPLAINANT

(1) Name : Mr

(2) Tel. No. : Day :

Night :

Mobile :

(3) Address : 23/F, BLOCK 1, KAM YING COURT, 地址 :
N01 - SHA TIN

(4) Email Address :

CHANNEL OF COMPLAINT

Source channel: 01 - Phone

Source code : P - Public 市民

Remarks : 黎先生投訴錦英苑對開山邊近馬鞍山水務局儲水庫的T7公路地盤星期日8:00~17:00閉工, 要求環保署跟進。

ACTION OFFICERS

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

INFORMATION INPUTTED BY

Name : UETA4

Date : 16/12/2002

Time : 11:45

02 P. 02 5511 5511 2685 1155

1155 2685 2685 1155

10:20 17-DEC-2002

Chief Resident Engineer's Office
Trunk Road T7
7 Lok Wo Sha Lane, Ma On Shan
Telephone : 2643 9020
Fax : 2643 3559
E-mail : r7cso@netvigator.com

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

Your Ref.:
Our Ref. : T7/(ST86/2000)/M05/412(0146)

19 December 2002

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-49
Noise Nuisance from Works near Kam King Court

I attach for your attention and necessary action a copy of EPD's letter ref. EP 580/E6/3/9 dated 17 December 2002 regarding the captioned complaint on 16 December 2002.

Arup Acoustics		Job No.	23156	
Master Ref. <i>EP 580/E6/3/9</i>		File No.		
Reply Ref.		Project Ref.	Date	
Action Required:				
Received 19 DEC 2002				
By	on leave	TC	TC	By
Initis.	ST	TC	TC	TC
Action		TC	TC	TC
Info.		TC	TC	TC
Copy		TC	TC	TC

Yours faithfully,



K H Cheng
Senior Resident Engineer

Encl.
KHC:cc

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 : 23 December 2002
Your Ref: T7/(ST86/2000)/05483

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

Attention: Mr. Y.H. Fung- CRE

Dear Sir,

Contract No. ST86/2000
Sha Tin New Town, Stage II
Construction of Road T7 in Ma On Shan
Environmental Complaint No. EC-49 – Noise nuisance from Works near Kam Ying Court

Arup Acoustics	Job No. 23156
Master Ref. 51/1787	File No.
Reply Ref.	Project Ref.
Action Required	Date
Received 27 DEC 2002	
St on leave	
Initis.	TC TC Roy
Action	
Info	TC Mr KK
Copy	

We refer to your letter dated 19 December 2002 regarding the captioned complaint involving the carrying out of construction works on 15 December 2002 (Sunday) near Kam Ying Court.

According to the Sunday patrol record from our site foreman, Mr. Y C Hung, the only powered mechanical equipments used near Block A of Kam Ying Court were the operation of generator, air compressor and water jet in TC1 & TC2 area from 08:00 to 17:00, which were covered by Construction Noise Permit no.: GW-TN0294-2002.

As confirmed by Mr. Mark Lam of Ken On Concrete Company Limited, no concrete was ordered and delivered on 15 December 2002 and hence, no concreting works should be carried out on that day.

We however would keep on reminding our subcontractors to compile the Noise Control Ordinance when carrying out construction works within our site and 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/CA
c.c. MCAL – H.O.
CHEC – H.O.
OAP – Mr. Thomas Chan (F: 2268 3950)
EPD – Mr. Jack Kan (F: 2685 1155)
TDD – Mr. George Mak

WW, ST, JC, FC, SC 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) 2997 9119 Fax: (852) 2612 0477 Website: http://www.chec.com

本署接號
OUR REF: EP 580/E6/3/9
來函編號
YOUR REF:
電話
TEL. NO.:
圖文傳真 2158 5823
FAX NO.:
電子郵件 2685 1155
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
上禾輦路一號
沙田政府合署 10 樓

27 December 2002

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

(Attn: Mr Sam Tsoi)

Job No.	23156
Master File	Arup Acoustics
Project Ref.	
Reply Ref.	AMT
Action Required:	
Received 30 DEC 2002	
By	TC
Info	TC
Copy	TC

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 of 27 December 2002

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

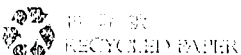
Enclosed please find particulars of a public complaint made on the date shown in the enclosure. The Environmental Team and all relevant parties in the c.c. list below should take actions to rectify the situation. Please report the outcome of the action to us within 2 weeks.

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/00012703-02

ICC Ref:

CASE DETAILS

(1) Incident 27/12/2002

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

(3) TPU : 757

(4) Description : COMPLAINT OF HOILDAY GENERAL CONSTRUCTION NOISE FROM T7 EXPRESS SITE BESIDES KAM YING COURT, SHATIN ON

(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 17/01/2003

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

(3) Address : 地址 :

(4) Email Address :

CHANNEL OF COMPLAINT

Source channel: 01 - Phone

Source code : P - Public 市民

Remarks : 25/12 STARTING FROM 0800; NOISE FROM HAMMERING WORKS

ACTION OFFICERS

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

INEORMATION INPUTTED BY

Name : I[UE]61 Date : 27/12/2002 Time : 10:15
 20 P.02 852 2685 155+ 852 2685 155+ 852 2685 155+ 27-DEC-2002 17:38

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

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

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(0150)

30 December 2002

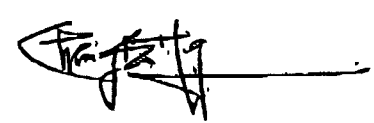
The Agent
China Harbour Engineering Company (Group)
9 Lok Wo Sha Lane
Ma On Shan, N.T.

Dear Sir,

Sha Tin New Town Stage II
Contract No. ST 86/2000
Construction of Road T7 in Ma On Shan
Environmental Complaint EC-50
Noise Nuisance from Works near Kam King Court

I attach for your attention and necessary action a copy of EPD's letter ref. EP 580/E6/3/9 dated 27 December 2002 regarding the captioned on 25 December 2002.

Yours faithfully,

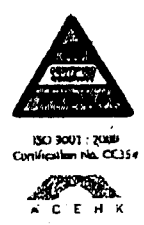


K H Cheng
Senior Resident Engineer

Arup Acoustics		Doc No.	23156	
Master Ref.	Project Ref.	Date		
Copy Ref.				
Action Required:				
Received 30 DEC 2002				
ST on leave	TC	TC	Rm	
Info	TC	TC	Rm	
Copy				

Encl.
KHC:cc

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



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

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



河樂官制辦事處
 (新界北)
 香港新界沙田
 上禾輋路一號



27 December 2002

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

(Attn: Mr Sam Tsui)

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 of 27 December 2002

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.

GC-50

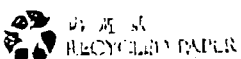
Contract No. ST86/2000		IN		Trunk Road T7		File No.: W02/V12		Recd: 27 DEC 2002		MCAL/BS		AI		C	
CIB		SAR I		SAS-2		SLS		RE 1,3,6		RE		OS		ARE	
ARE		SLOW 1		SLOW 2		IOW		SIS							

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/00012703-02

ICC Ref:

CASE DETAILS

(1) Incident 27/12/2002

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

地址 :

(3) TPU : 757

(4) Description : COMPLAINT OF HOILDAY GENERAL CONSTRUCTION NOISE FROM T7 EXPRESS SITE BESIDES
KAM YING COURT, SHATIN ON

(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 17/01/2003

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 : Ms

(2) Tel. No. : Day :

Night :

Mobile:

(3) Address :

地址 :

(4) Email Address :

CHANNEL OF COMPLAINT

Source channel: 01 - Phone

Source code : P - Public 市民

Remarks : 25/12 STARTING FROM 0800; NOISE FROM HAMMERING WORKS

ACTION OFFICERS

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

INFORMATION INPUTTED BY

Name : I[UE]61

Date : 27/12/2002

Time : 10:15

TOTAL P.02

P.02

TOTAL P.03

+852 2685 1155



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 : 30 December 2002

Our Ref.: T7/02.03/O/04760

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

Attention: Mr. Jack Kan- EPO

Arup Acoustics		Job No. 23156
Master Ref.		File No.
Reply Ref.	Project Ref.	Date
Action Required		
Received 30 DEC 2002		
Init.	TC	RT
Action	TC	RT
Info	TC	RT
Copy		

Dear Sirs

Contractor No. ST86/2000

Construction of Road T7 in Ma On Shan

Environmental Complaint on 25 December 2002- Noise nuisance from holiday works near Kam Ying Court

We refer to your letter dated 27 December 2002 regarding the captioned complaint involving the carrying out of holiday works on 25 December 2002 (Wednesday) near Kam Ying Court.

According to our site record, the powered mechanical equipments used near Kam Ying Court were covered by Construction Noise Permit no.: GW-TN0294-2002, and the hammering works were not carried out within the designated area.

We however would maintain our construction works compile with the Noise Control Ordinance and 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/Chan Man/Project Manager

- c.c. MCAL - H.O.
- MCAL - Mr. Y. H. Fung
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