



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  
MONTHLY EM&A REPORT - JUNE 2003**

*Prepared For:*

Maunsell Consultants Asia Limited

*By:*

Ove Arup & Partners H.K. Ltd.

Tel.: 2528 3031

Fax: 2865 6493

ARUP

Report No.: 23156-30

Limitation of Use and Liability

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

**Job No 23156**

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

**MONTHLY EM&A REPORT - JUNE 2003**

**Prepared by Fredrick Leong (CBiol Mbiol MCIWEM FLS MRSC)**

**Signed**

**Date 12 July 2003**

**Checked by Sam Tsoi (CEng FIOA MHKIE MIMechE MIEnvSc)**

**Signed**

**Date 12 July 2003**

**Approved by Sam Tsoi (CEng FIOA MHKIE MIMechE MIEnvSc)**

**Signed**

**Date 12 July 2003**

**Revision record**

<b>Revision Number</b>	<b>Date</b>	<b>Description</b>	<b>Prepared</b>	<b>Checked</b>	<b>Approved</b>



**CONTENT**

<b>EXECUTIVE SUMMARY</b>	<b>1</b>
<b>1. INTRODUCTION</b>	<b>1-1</b>
1.1 Purpose of the Report	1-1
1.2 Site Description	1-2
<b>2. ENVIRONMENTAL STATUS</b>	<b>2-1</b>
2.1 Construction Activities of the Month	2-1
2.2 Environmental Sensitive Receivers	2-1
<b>3. SUMMARY OF EM&amp;A REQUIREMENTS</b>	<b>3-1</b>
3.1 Construction Noise Monitoring	3-1
3.1.1 Monitoring Parameters	3-1
3.1.2 Monitoring Frequency	3-1
3.1.3 Monitoring Locations	3-1
3.2 Air Quality Monitoring	3-2
3.2.1 Monitoring Parameters	3-2
3.2.2 Monitoring Frequency	3-2
3.2.3 Monitoring Locations	3-3
3.3 Performance Limits and Event-Action Plans	3-3
3.3.1 Construction Noise Impact	3-4
3.3.2 Air Quality	3-5
3.4 Site Inspection and Environmental Complaint Handling	3-9
3.4.1 Site Inspection Frequency and Areas Covered	3-9
3.4.2 Site Inspection Procedures	3-9
3.4.3 Environmental Complaints	3-9
<b>4. CONSTRUCTION NOISE MONITORING</b>	<b>4-1</b>
4.1 Monitoring Equipment	4-1
4.2 Methodology	4-1
4.2.1 Field Measurement	4-1
4.2.2 Equipment Maintenance and Calibration	4-2
4.3 Results	4-2
<b>5. AIR QUALITY MONITORING</b>	<b>5-1</b>
5.1 Monitoring Equipment	5-1
5.2 Methodology	5-1
5.2.1 24-hour TSP Monitoring	5-1
5.2.2 1-hour TSP Monitoring	5-2

---

5.2.3 Maintenance and Calibration	5-3
5.3 Results	5-3
<b>6. SITE INSPECTION, ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE RECORDS</b>	<b>6-1</b>
6.1 Inspection Results	6-1
6.2 Waste Disposal	6-2
6.3 EPD Site Inspection	6-3
6.4 Complaint Record	6-3
6.5 Non-compliance Record	6-3
<b>7. REFERENCES</b>	<b>7-1</b>

**LIST OF APPENDICES**

- Appendix 1 - EM&A Programme for June 2003
- Appendix 2 - EM&A Schedule for July 2003
- Appendix 3 - Noise Impact Monitoring Results for June 2003
- Appendix 4 - 24-hour TSP Monitoring Results for June 2003
- Appendix 5 - 1-hour TSP Monitoring Results for June 2003
- Appendix 6 - Laboratory Testing Report of the Effluent Sampling
- Appendix 7 - Correspondences of Public Complaints from Kam Ying, Monte Vista & Lee On Estate

This page left blank intentionally



**ABBREVIATIONS AND ACRONYMS**

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

This page left blank intentionally

## EXECUTIVE SUMMARY

This monthly EM&A report presents the site inspection findings, air quality and noise impact monitoring works for the period between 1 June 2003 and 30 June 2003.

For noise monitoring,  $L_{eq(30min)}$  level was recorded once a week between the period of 0700 and 1900 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).  $L_{eq(5min)}$  was recorded three times once a week between the period 1900 and 2300 at NM3, NM4, NM6, NM7 and NM8.

Four measurements were taken at each location during 0700-1900. Four other measurements were taken at NM3, NM4, NM6 and NM8 during 1900-2300 in June 2003. The recorded noise levels were in the range of 60.0 and 72.0 dB(A) during 0700-1900 and in the range of 59.0 and 64.5 dB(A) during 1900-2300. All measurements were below the Limit Level of 70dB(A) for NM2 and 75dB(A) for other monitoring locations during 0700-1900 and Limit Level of 70 dB(A) during 1900-2300 for all monitoring locations.

For air quality monitoring, 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 Concerto, Symphony Bay (AM4), Club House, Monte Vista (AM5) and Kam Yiu House of Kam Ying Court (AM6).

A total of six 24-hour TSP monitoring was conducted at each location which including baseline checking on 15 June 2003. The recorded 24-hour TSP levels were in the range of 20.4 and 183.5  $\mu\text{g}/\text{m}^3$  and were below the Action and Limit Levels.

A total of eighteen 1-hour TSP measurements was taken at each location which including baseline checking on 15 June 2003. The recorded 1-hour TSP levels were in the range of 104.3 and 276.0  $\mu\text{g}/\text{m}^3$  and were below the Action and Limit Levels.

A total of four site inspections was conducted in June 2003. Key findings of the site inspections are given below:-

- Silt was observed near Portal D and at discharge point no. 7. As instructed by ET, the Contractor had cleaned up the silt immediately.
- A full rubbish tray was observed at Portal D area. As instructed by ET, the Contractor had cleaned up the rubbish tray.
- The shotcreting slope was observed beside Monte Vista. The Contractor was recommended to implement the dust control mitigation measure at this area.
- The desilting pit at site access near Cheung Muk Tau Village was full. As instructed by ET, the Contractor had cleaned up the desilting pit.
- The effluent sampling was conducted by CT on 21 June 2003.

A total of 29 loads of Construction and Demolition Waste (C&D waste) had been disposed of at NENT Landfill in June 2003. The total tonnage of the C&D waste disposal in June 2003 was 243.7 tonnes.

A total of 1,738 loads of rocks ( $f > 400\text{mm}$ ) had been reused at the following government project sites in June 2003:

- *Contract No. FL 26/01 River Training for Upper River Indus – Completion of the Remaining Works between Man Kam To Road and KCRC Bridges, and*
- *Contract No. CV/2002/05 Public Filling Barging Point at Kai Tak*

The total quantity of disposed rocks was 12,426.7 m<sup>3</sup> in June 2003.

A total of 172 loads of inert materials had been disposed of at Public Filling Area in June 2003. The total quantity of the disposed inert materials was 1,032.0 m<sup>3</sup> in June 2003.

ET was informed by the CT that EPD had visited the site on 24 June 2003.

A total of six public complaints regarding construction noise were received on 30<sup>th</sup> May 2003, 9<sup>th</sup>, 23<sup>rd</sup> and 27<sup>th</sup> June 2003 respectively through the District Councillor for Shatin District Board and the EPD. All complaints had been resolved.

There was no exceedance recorded in June 2003.

## 1. INTRODUCTION

Arup was commissioned by the Territory Development Department New Territory East Office (TDD NTE) via Maunsell Consultant Asia Limited (MCAL) to conduct the Environmental Monitoring and Audit (EM&A) for the project “*Shatin New Town, Stage II Contract No. ST 86/2000 Construction of Road 7 in Ma On Shan*” with the contract commencement on 10 January 2001.

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 construction of Road T7 includes the major components listed hereunder:

1. Construction of approximately 3 kilometers of dual carriageway between Ma On Shan Road at Heng On Estate and Sai Sha Road at Cheung Muk Tau Village. About 1 kilometer of the road is on elevated structure.
2. Construction of a grade-separated interchange connecting with the widened Sai Sha Road.
3. Construction of 2 vehicular underpasses at the eastern end of Road T7.
4. Construction of about 1 kilometer of a single 2-lane carriageway starting from the existing Ma On Shan Road/Hang Hong Street roundabout, for replacing the existing access road to Ma On Shan.
5. Construction of the western extension of the existing Nin Fung Road in front of Cheung Muk Tau Village.
6. Construction of a combined pedestrian and cycle bridge across Ma On Shan Road near Ma On Shan Sewage Pumping Station.
7. Construction of 4 pedestrian subways at the western interchange connecting with the widened Sai Sha Road.
8. Construction of noise barriers and noise semi-enclosures.
9. Slope works and landscaping works associated with the above road works.

The Environmental Impact Assessment (EIA) Report<sup>[1]</sup> 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<sup>[2]</sup>.

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

### 1.1 Purpose of the Report

The purpose of the EM&A report is to present the monitoring and audit results of the environmental issues, air quality and noise impacts due to the captioned road construction

project on a monthly and quarterly basis. This is the thirtieth monthly EM&A report to summarise the EM&A requirements, the environmental status, equipment, monitoring methodology, monitoring locations, periods, frequencies, results and any observations from the noise and air measurements during June 2003.

## 1.2 Site Description

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

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



## 2. ENVIRONMENTAL STATUS

### 2.1 Construction Activities of the Month

The main construction activities in June 2003 were slope formation and bridge construction. Construction works for the retaining wall were carried out near the casting yard. The rock excavation were still in progress at the slope behind Monte Vista. Construction works of tunnel were in progress at Portal D area near Cheung Muk Tau Village. Bridge construction works were in progress at TC bridge area. Backfilling slope between Monte Vista and Lee On Estate and bore piling at TD bridge area was in progress since end of May 2003.

### 2.2 Environmental Sensitive Receivers

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

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

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

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



This page left blank intentionally



### 3. SUMMARY OF EM&A REQUIREMENTS

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 June 2003 and the planned schedule for July 2003 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	$L_{eq(30\ min)}$	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.

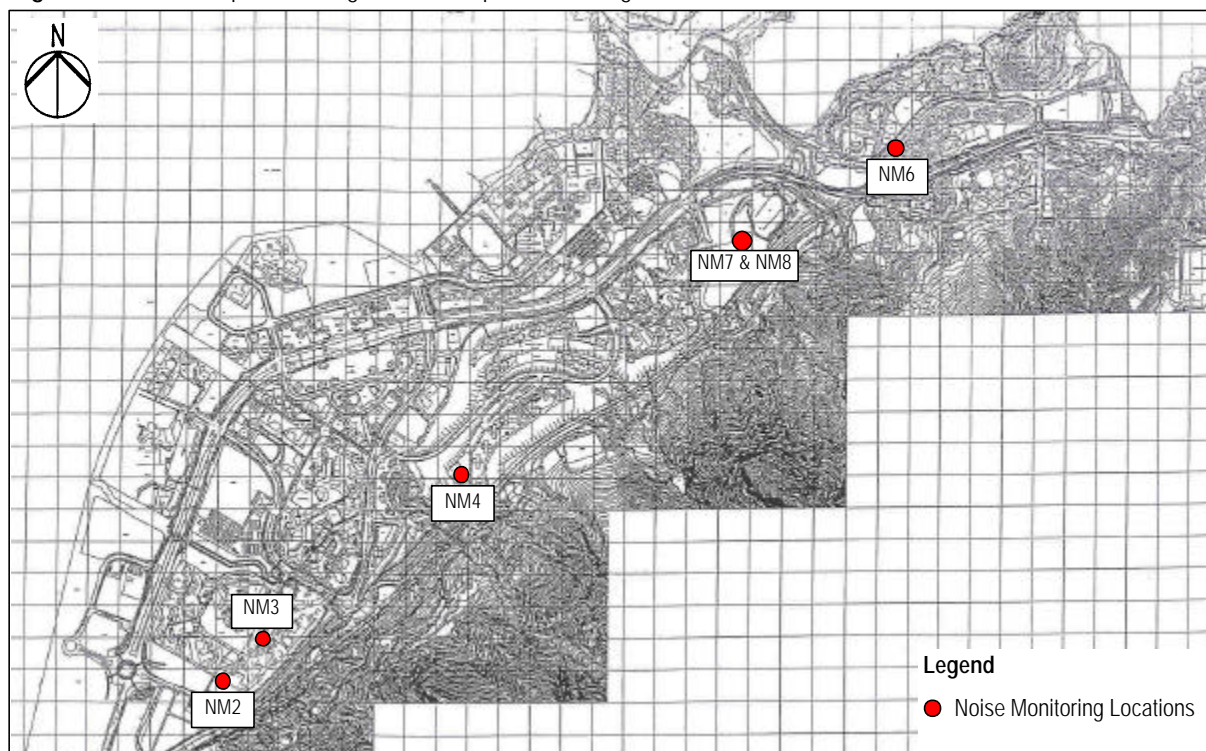
##### 3.1.3 Monitoring Locations

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 floor 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

The monitoring programme for June 2003 and the planned schedule for July 2003 are provided in Appendix 1 and Appendix 2 respectively.

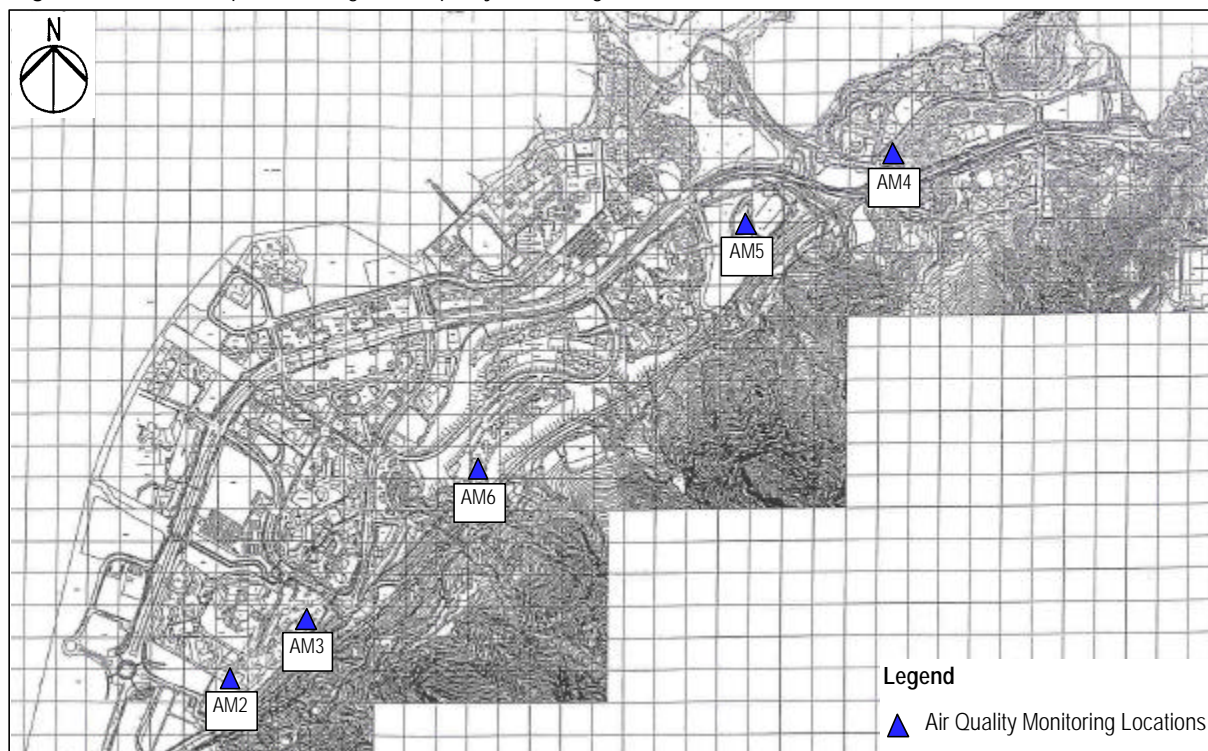
### 3.2.3 Monitoring Locations

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

### 3.3.2 Air Quality

The action and limit levels for air quality have been established in the Project Specific EM&A Manual<sup>[4]</sup> 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"> <li>• For baseline level <math>&lt; 108\mu\text{g}/\text{m}^3</math>, Action Level = average of baseline level plus 30% and Limit Level</li> <li>• For <math>108\mu\text{g}/\text{m}^3 &lt; \text{baseline level} &lt; 154\mu\text{g}/\text{m}^3</math>, Action Level = <math>200\mu\text{g}/\text{m}^3</math></li> <li>• For baseline level <math>&gt; 154\mu\text{g}/\text{m}^3</math>, Action Level = 130% of baseline level</li> </ul>	260
1 Hour TSP Level in $\mu\text{g}/\text{m}^3$	<ul style="list-style-type: none"> <li>• For baseline level <math>&lt; 154\mu\text{g}/\text{m}^3</math>, Action Level = average of baseline level plus 30% and Limit Level</li> <li>• For <math>154\mu\text{g}/\text{m}^3 &lt; \text{baseline level} &lt; 269\mu\text{g}/\text{m}^3</math>, Action Level = <math>350\mu\text{g}/\text{m}^3</math></li> <li>• For baseline level <math>&gt; 269\mu\text{g}/\text{m}^3</math>, Action Level = 130% of baseline level</li> </ul>	500

The baseline checking was conducted on 15 June 2003. There was no significant difference when compare the baseline checking results of June 2003 with previous baseline checking results. Therefore, the current A/L levels for 24-hour TSP and 1-hour TSP monitoring are still representative and valid. In accordance with the Baseline Monitoring Report<sup>[5]</sup> 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 <sup>3</sup>		
	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 <sup>#</sup>	-	185	
Kam Yiu House, Kam Ying Court <sup>#</sup>	-	194	

**Remarks:** \* Baseline levels were obtained from the Baseline Monitoring Report prepared by Manusell Consultant Asia Limited<sup>[5]</sup>.

- # 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 <sup>3</sup>		
	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 <sup>#</sup>	-	350	
Kam Yiu House, Kam Ying Court <sup>#</sup>	-	349	

**Remarks:** \* Baseline levels were obtained from the Baseline Monitoring Report prepared by Maunsell Consultant Asia Limited<sup>[5]</sup>.

- # 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 Levels for AM5 and AM6 were 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"> <li>1. Identify source</li> <li>2. Inform ER</li> <li>3. Repeat measurement to confirm findings</li> <li>4. Review the proposed remedial measures by CT and advise ER accordingly</li> <li>5. Suggest any improvement or other alternative mitigation measures should the CT's proposal be found ineffective</li> <li>6. Supervise the implementation of remedial measures</li> <li>7. Increase monitoring frequency to demonstrate efficacy of remedial measures</li> <li>8. If exceedance stops, cease additional monitoring</li> </ol>	<ol style="list-style-type: none"> <li>1. Notify CT</li> <li>2. Check monitoring data and CT's working methods</li> </ol>	<ol style="list-style-type: none"> <li>1. Rectify any unacceptable practice</li> <li>2. Amend working methods if appropriate</li> </ol>
Action Level 2 – Exceedance for two or more consecutive samples		
<ol style="list-style-type: none"> <li>1. Identify source</li> <li>2. Inform ER</li> <li>3. Repeat measurement to confirm findings</li> <li>4. Review the proposed remedial measures by CT and advise ER accordingly</li> <li>5. Discuss with ER for remedial actions required</li> <li>6. Suggest any improvement or other alternative mitigation measures should the CT's proposal be found ineffective</li> <li>7. Supervise the implementation of remedial measures</li> <li>8. Increase monitoring frequency to demonstrate efficacy of remedial measures</li> <li>9. If exceedance continues, arrange meeting with ER</li> <li>10. If exceedance stops, cease additional monitoring</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing</li> <li>2. Notify CT</li> <li>3. Check monitoring data and CT's working methods</li> <li>4. Discuss with Environmental Supervisor and CT on potential remedial actions</li> <li>5. Ensure remedial actions are properly implemented</li> </ol>	<ol style="list-style-type: none"> <li>1. Submit proposals for remedial actions to ER within 3 working days of notification</li> <li>2. Implement the agreed proposals</li> <li>3. Amend proposal if appropriate</li> </ol>

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

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



### 3.4 Site Inspection and Environmental Complaint Handling

#### 3.4.1 Site Inspection Frequency and Areas Covered

Regular site inspections will be carried out on a weekly basis. The areas of inspection will cover different environmental impacts, such as air, noise, water & waste, and their pollution controls and mitigation measures for both within and outside the site area.

Ad hoc site inspection will be carried out if significant environmental non-compliance is identified. Inspections may also be carried out subsequent to receipt of any environmental complaints, or as part of the investigation work, as specified in the Event-Action Plans.

#### 3.4.2 Site Inspection Procedures

- a) The Environmental Auditor (EA) will be advised by the CT and/or ER of all information on any environmental related aspects.
- b) The EA will conduct discussion with the CT and/or ER to sort out and forecast any potential environmental impact.
- c) The EA will conduct a site walk with the CT and/or ER, particularly the areas with extensive construction works.
- d) The EA will conduct inspection for the main environmental facilities and measures such as the wheel washing facilities located at the site exits, water spraying truck, temporary noise barrier, and the internal noise-reducing measures of the heavy equipment etc, to ensure that these environmental facilities operate normally and effectively.
- e) The EA will fill up a site inspection checklist during the site inspection for recording of any special observations.
- f) The EA will conduct post-discussion with the CT and/or ER for the establishment of additional/special measures if any non-conformance is found. The completion date for such additional measures will be confirmed during the post-discussion.
- g) The EA will propose a reasonable timeframe together with the CT and/or ER, for the preparation of the proposal for the remediation of environmental non-compliance.
- h) The completed site inspection checklist will be signed by the EA, the CT and/or ER, for reference and for taking actions in accordance with the agreed procedures, reporting systems and time frame.

#### 3.4.3 Environmental Complaints

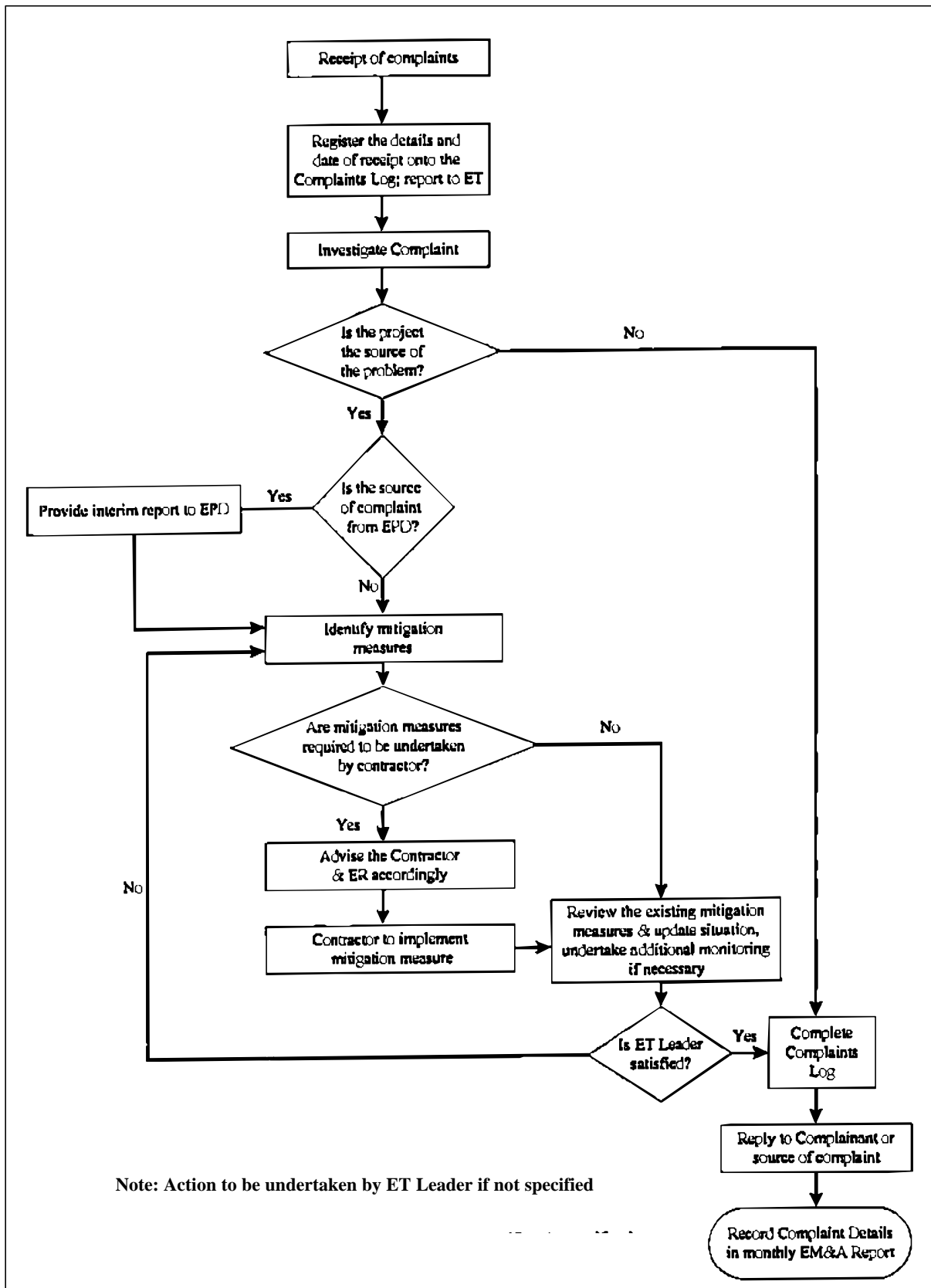
In accordance with the Brief of EM&A, environmental complaints will be referred to the ET for initiation of the complaint investigation procedures. The ET will undertake the following procedures upon receipt of the complaints:

- a) The ET will record the details of the complaint and the date of receipt onto the complaint database, and inform ER immediately.
- b) The ET will perform compliant investigation to determine its validity, and to assess whether the source of the problem is due to work activities.
- c) The ER will instruct the CT to identify mitigation measures in consultation with the ET, if the complaint is valid and due to works.
- d) The ET will liaise with the CT on their mitigation measure proposals and implementation, if required.
- e) The ET will conduct review of the CT's response on the identified mitigation measures, and of the updated situation.
- f) The ET will submit interim report to EPD if the complaint is received via EPD. The interim report will clearly state the status of the complaint investigation and the follow-up action within the time frame assigned by EPD.
- g) The ET will undertake additional monitoring and audit to verify the situation if necessary, and ensure that any valid reason for complaint does not recur.
- h) The ET will report on the investigation results and the subsequent actions to the source of complaint for responding to the complainant (If the source of complaint is via EPD, the results will be reported within the time frame assigned by EPD).
- i) The ET will record the details of the complaint, investigation, subsequent actions and results in the monthly EM&A reports.

During the complaint investigation work undertaken by the ET, the CT and ER shall cooperate with the ET in providing all the necessary information and assistance for completion of the investigation. If mitigation measures are identified as necessary in the investigation, the CT shall promptly carry out the required mitigation to the satisfaction of ET. The ER shall ensure that such identified measures have been carried out by the CT.

A flow chart of the complaint response procedures is shown in Figure 3-3 for reference.

Figure 3-3 - Flow chart of the complaint response procedure



This page left blank intentionally

## 4. CONSTRUCTION NOISE MONITORING

### 4.1 Monitoring Equipment

An integrated sound level meter was used for the noise monitoring. The sound level meter complies with the International Electrotechnical Commission Publications (IEC) 651:1979 (Type 1) and 804:1985 (Type 1) specifications. An acoustical calibrator in compliance with IEC 942:1988 (Type 1) was used to calibrate the sound level meter before and after each set of measurements to confirm that the data drift was less than 1dB(A). The detailed descriptions of the noise measurement equipment are listed in Table 4-1.

**Table 4-1** - Equipment list for construction noise monitoring.

Equipment	Manufacturer & Model No.	Precision Grade	Qty.
Integrated sound level meter	Brüel & Kjør 2231	IEC 651 Type 1 IEC 804 Type 1	2
½ " free-field microphone	Brüel & Kjør 4155		2
Rion Sound Level Meter	NA-27		1
Rion ½" microphone	UC53A		1
Windshield	Brüel & Kjør UA0237		4
Acoustical calibrator	Brüel & Kjør 4230	IEC 942 Type 1	1
Acoustical calibrator	Brüel & Kjør 4226		1
LCD wind speed indicator	Kestrel Vane Anemometer	--	1

### 4.2 Methodology

#### 4.2.1 Field Measurement

- The sound level meter and the battery were checked to ensure that they were in proper condition.
- The sound level meter was set on a tripod at 1.2m above ground and at least 1m from the exterior of the building façade.
- Before conducting the measurement, the sound level meter was calibrated by an acoustical calibrator.
- The measurement parameter was set to A-weighted sound pressure level. The time weighting was set in fast response and the time period of measurement at 30 minutes.
- The wind speed was checked during noise monitoring to ensure the steady wind speed did not exceed 5m/s, or wind with gusts did not exceed 10m/s.
- Any abnormal conditions that generated intrusive noise during the measurement were recorded on the field record sheet.
- After each measurement, the equivalent continuous sound pressure level ( $L_{eq}$ ),  $L_{10}$  and  $L_{90}$  were recorded on the field record sheet.
- The sound level meter was re-calibrated by the acoustical calibrator to confirm that there was no significant drift of reading.

## 4.2.2 Equipment Maintenance and Calibration

The sound level meter complies with the standards of IEC 651 (Fast, Slow, Impulse rms detector tests) and IEC 804 ( $L_{eq}$  functions). The acoustical calibrator model no. 4230 is in compliance with IEC 942. Both equipment are calibrated annually in-house using Brüel & Kjær (B&K) calibrator model no. 4226.

The B&K calibrator model no. 4226 is annually calibrated by the National Physical Laboratory in Teddington, London, which is accredited by National Measurement Accreditation Service (NAMAS). All in-house calibrations that are undertaken can be traced back to the National Physical Laboratory. The latest calibration certificates for the sound level meter and acoustic calibrators are given in the Monthly EM&A Report – August 2002 (23156-20)<sup>[6]</sup>.

## 4.3 Results

Four measurements were taken at each location on daytime (0700-1900) and four measurements were taken at NM3, NM4, NM6 and NM8 during 1900-2300 in June 2003. All the noise measurements were taken between 0700-2300 hours on normal weekdays during which the construction site was under normal operation. The construction daytime and evening time noise monitoring results in June 2003 are tabulated in Table 4-2 and Table 4-3 respectively. Detailed weather conditions and the monitoring period are given in Appendix 3.

**Table 4-2-** Construction day-time noise monitoring results for June 2003.

Date of Monitoring		Monitoring Parameters	Monitoring Results, dB(A) (30 min)					
			NM2	NM3	NM4	NM6	NM7	NM8
Week 1	03/06/03 (Tue)	$L_{eq}$	64.5	60.0	65.0	68.5	70.5	69.5
		$L_{10}$	66.0	62.5	67.0	71.0	73.0	72.0
		$L_{90}$	60.0	58.5	60.5	61.5	62.5	64.0
Week 2	10/06/03 (Tue)	$L_{eq}$	61.0	62.0	65.0	64.0	62.5	65.5
		$L_{10}$	63.0	63.5	68.5	67.0	64.0	68.0
		$L_{90}$	59.0	58.0	61.5	60.5	60.0	61.0
Week 3	17/06/03 (Tue)	$L_{eq}$	63.5	62.0	64.5	69.0	67.5	72.0
		$L_{10}$	66.0	64.5	67.5	73.5	70.5	76.8
		$L_{90}$	59.5	58.0	60.5	63.0	60.5	63.0
Week 4	26/06/03 (Thu)	$L_{eq}$	63.0	61.5	67.0	67.0	64.5	69.5
		$L_{10}$	65.5	64.0	71.5	70.5	66.0	75.0
		$L_{90}$	60.0	58.0	60.5	62.0	60.5	64.0

**Table 4-3** - Construction evening time noise monitoring results for June 2003.

Date of Monitoring		Monitoring Results, $L_{eq}$ dB(A) (5 min)				
		NM3	NM4	NM6	NM7*	NM8
Week 1	03/06/03 (Tue)	60.0	63.0	62.5	-	64.0
		59.5	64.5	63.5	-	62.0
		60.5	64.5	63.0	-	61.5
Week 2	10/06/03 (Tue)	60.5	60.5	64.0	-	62.5
		59.5	61.0	63.0	-	60.5
		60.0	60.0	61.5	-	61.0
Week 3	17/06/03 (Tue)	59.0	62.5	63.0	-	64.0
		60.5	63.0	62.0	-	60.5
		60.0	63.0	63.5	-	61.5
Week 4	26/06/03 (Thu)	60.0	61.5	61.5	-	62.0
		59.5	60.5	63.0	-	62.5
		59.0	61.5	61.0	-	61.0

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

This page left blank intentionally



## 5. AIR QUALITY MONITORING

Air quality was measured in terms of 24-hour and 1-hour levels of TSP. This indicated the impacts of construction dust on air quality. The 24-hour and 1-hour TSP levels were measured according to the standard high volume sampling method and laser scanning method respectively. All relevant data including temperature, pressure, weather conditions, start and stop time of the sampler, and other special phenomena and work progress of the monitoring locations were also recorded.

### 5.1 Monitoring Equipment

The high volume sampling method complies with the USEPA ambient air reference method standard for primary and secondary ambient particulate matter (*40 CFR<sub>50-B</sub>*)<sup>[7]</sup>.

HVS in compliance with the specifications of *40 CFR<sub>50-B</sub>* were used for carrying out the 24-hour TSP. A photometric aerosol monitor was used for 1-hour TSP monitoring. The details of the HVS, photometric aerosol monitor and the calibration kit used are listed in Table 5-1.

Table 5-1 - Equipment list for TSP monitoring.

Equipment	Manufacturer & Model No.	Measurement Parameter	Qty.
High Volume Sampler	GMWS-2310-105	24-hour TSP	5
Fibreglass Filter	G810		--
HVS Calibration Kit	GMW-2535		1
Photometric Aerosol Monitor	MIE <i>personal</i> DataRAM	1-hour TSP	5
Hand Held Barometer	Cole-Parmer EB833	Pa, Temperature	1

### 5.2 Methodology

#### 5.2.1 24-hour TSP Monitoring

- The HVS was set up at fixed monitoring location under the following criteria:
  - it was placed on a horizontal platform;
  - the filter of HVS was at least 1.3m above ground;
  - it was separated from any obstacle by at least twice the height of the obstacle protruding above the sampler;
  - there were no furnaces or incineration flues operating near the sampler;
  - it has unrestricted airflow 270° around the sampler; and
  - the wire fence and gate did not cause obstruction to the air flow.
- The flow rate of the HVS was set within the range of 1.1m<sup>3</sup>/min and 1.7m<sup>3</sup>/min, (39CFM - 60CFM) as specified in *40 CFR<sub>50-B</sub>*.
- The power supply was checked to ensure the HVS worked properly
- The HVS was switched on and allowed to operate for 5 minutes before placing any filter on the supporting screen.

- The filter holding frame was removed by loosening the four wing nuts and allowing the brass bolts and washers to swing down out of the way.
- The fibreglass filter (G810) for TSP sampling was prepared by a HOKLAS accredited laboratory for weighing before and after sampling. Before weighing, the filter was equilibrated in a conditioned environment of:
  - temperature between 25°C and 30°C and not vary by more than 3°C; and
  - relative humidity <50% and not vary by more than 5%.
- The pre-weighted, conditioned and numbered fibreglass filter was centred, with rougher side up, on the supporting screen. The filter was aligned so that the gasket of the frame formed an airtight seal on the outer edges of the filter.
- The filter holding frame was placed onto the filter and then tightened with the brass bolts and washers with sufficient pressure to avoid air leakage from the edges.
- Any dirt accumulation from around the filter holder was wiped out and then closed the shelter lid and secured with the aluminum strip.
- A piece of flow record chart was inserted onto the flow rate recorder and placed under the chart guide clip and the time index clip so that it will rotate freely without binding. Set the time by rotating the drive hub clockwise until the correct time on chart was aligned with time index pointer.
- The flow recorder pen was checked to ensure it was inking and pressed the pen on the chart with sufficient pressure to make a visible trace.
- The timer was programmed and the start time was recorded on specified field record sheet. Other information such as the filter identification number, the weather and site conditions were also recorded.

### 5.2.2 1-hour TSP Monitoring

- The MIE monitor was switched on by pressing the ON/OFF button. The NEXT button was pressed to select Run or Ready mode.
- The NEXT button was pressed subsequently to check the following settings:
  - data logging function being switched on;
  - 5-min. log period;
  - the tag number for storage;
  - the analog output of 0-4.000mg/m<sup>3</sup>;
  - the calibration factor of 1.0;
  - the averaging time of 10s;
  - enough battery charge; and
  - enough remaining memory.
- The monitoring was started by pressing ENTER. The real-time concentration was displayed as CONC and the time-averaged concentration was displayed as TWA.
- The monitoring was stopped by pressing EXIT and ENTER buttons.
- The date and start time, weather, site condition and the downloaded monitoring results were recorded on specified field record sheet.

### 5.2.3 Maintenance and Calibration

The HVS and their accessories were frequently checked and maintained in accordance with the manufacturer's operation & maintenance manual. Maintenance includes the checking of the supporting screen and the gasket, and routine replacement of motor carbon brushes for the blower motor. The power cords and power supply were checked each time before sampling to ensure proper operation.

The HVS are calibrated at 2-month intervals using GMW-2535 Calibration Kit which will be re-calibrated by the manufacturer after one year of use. The calibration certificate of Calibration Orifice is given in the Monthly EM&A Report – April 2003 (Report No. 23156-28)<sup>[8]</sup>. The calibration certificates of the HVS are given in Monthly EM&A Report – May 2003 (Report No. 23156-29)<sup>[9]</sup>.

The MIE monitor and its accessories were frequently checked and maintained in accordance with the manufacturer's operation & maintenance manual to ensure proper operation. Maintenance includes the checking of batteries, zero and sensitive adjustment and filter replacement.

The MIE monitor is returned to the manufacturer for calibration bi-annually. The calibration certificates of the MIE monitor are given in the Monthly EM&A Report – April 2002 (Report No. 23156-16)<sup>[10]</sup>.

## 5.3 Results

Air quality monitoring was conducted at monitoring stations Ma On Shan Lutheran Primary School (AM2), Ma On Shan Joseph's Primary School (AM3), Villa Concerto, Symphony Bay (AM4), Club House, Monte Vista (AM5) and Kam Yiu House, Kam Ying Court.

A total of six 24-hour TSP monitoring were conducted at each location which including baseline checking on 15 June 2003. The 24-hour TSP monitoring results are tabulated in Table 5-2. Detailed monitoring data are given in Appendix 4.

**Table 5-2** - 24-hour TSP monitoring results for June 2003.

Date of Monitoring	24-hour TSP Monitoring Results, (µg/m <sup>3</sup> )				
	AM2	AM3	AM4	AM5	AM6
06/06/03 (Fri)	47.2	51.5	42.5	183.5	41.5
12/06/03 (Thu)	41.3	40.9	42.0	-	35.8
14/06/03 (Sat)*	-	-	-	42.6	-
15/06/03 (Sun)#	41.0	21.0	20.1	23.6	38.7
18/06/03 (Wed)	128.6	123.2	158.5	151.8	126.7
24/06/03 (Tue)	27.4	41.7	35.3	32.1	28.8
30/06/03 (Mon)	21.6	22.6	20.4	24.3	24.2

Noted: \* The 24-hour TSP monitoring at AM5 was postponed from 12/06/03 to 14/06/03 due to equipment failure.

# Baseline ambient checking

A total of fifteen 1-hour TSP monitoring were conducted at each location which including baseline checking on 15 June 2003. The monitoring results are tabulated in Table 5-3 and the detailed monitoring data are given in Appendix 5.

**Table 5-3** - 1-hour TSP monitoring results for June 2003.

Date of Monitoring	1-hour TSP Monitoring Results, ( $\mu\text{g}/\text{m}^3$ )				
	AM2	AM3	AM4	AM5	AM6
03/06/03 (Tue)	222.7	196.2	200.3	266.2	213.7
	217.4	192.8	197.1	276.0	205.1
	207.5	183.8	180.6	259.7	193.5
10/06/03 (Tue)	179.9	154.6	141.0	150.9	168.7
	178.0	151.2	135.4	146.7	164.1
	169.5	134.5	154.2	125.2	152.1
15/06/03 (Sun)#	190.6	180.5	205.9	208.4	230.5
	180.5	166.5	191.8	196.2	215.6
	192.3	175.0	197.4	204.8	227.0
17/06/03 (Tue)	215.7	216.2	236.2	196.0	209.9
	193.5	190.4	213.6	174.9	191.4
	185.2	182.3	205.1	162.8	183.1
23/06/03 (Mon)	177.8	189.4	173.4	163.2	145.9
	162.2	159.2	138.0	144.3	125.1
	165.6	182.7	146.8	149.3	129.6
26/06/03 (Thu)	154.7	120.7	121.2	138.6	116.2
	146.7	130.9	107.6	132.1	104.3
	147.3	157.0	132.7	146.4	132.7

Noted: # Baseline ambient checking

## 6. SITE INSPECTION, ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE RECORDS

### 6.1 Inspection Results

Four weekly site inspections were conducted in June 2003. Key findings of the site inspections are given below: -

- Silt was observed near Portal D and at discharge point no. 7. As instructed by ET, the Contractor had cleaned up the silt immediately. Photos showing the silty channel near Portal D and discharge point no. 7 are given in Figure 6-1 and Figure 6-2 respectively.

Figure 6-1 – The silty channel near Portal D area.

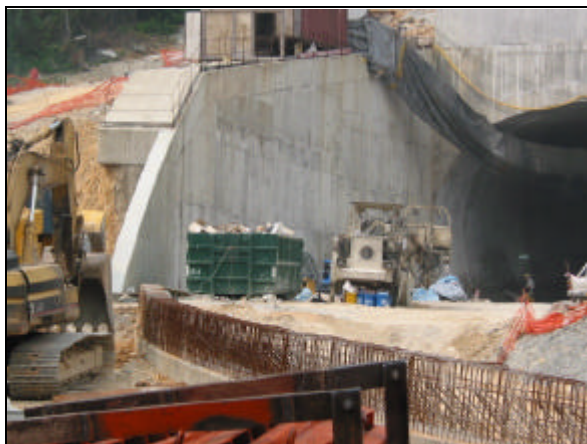


Figure 6-2 - The silty channel at discharge point no. 7



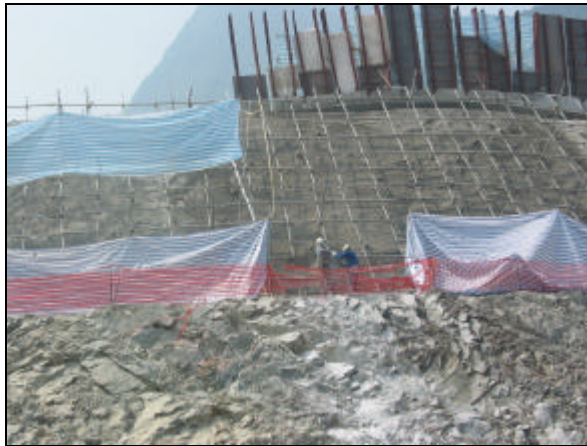
- A full rubbish tray was observed at Portal D area. As instructed by ET, the Contractor had cleaned up the rubbish tray. Photo showing the full rubbish tray at Portal D area is given in Figure 6-3.

Figure 6-3 – The full rubbish tray at Portal D area.



- The shotcreting slope was observed beside Monte Vista. The Contractor was recommended to implement the dust control mitigation measure at this area. Photo showing the shotcreting slope beside Monte Vista is given in Figure 6-4.

Figure 6-4 – The shotcreting slope beside Monte Vista.



- The desilting pit at site access near Cheung Muk Tau Village was full. As instructed by ET, the Contractor had cleaned up the desilting pit. Photo showing the desilting pit at site access near Cheung Muk Tau Village is given in Figure 6-5.

Figure 6-5 - The desilting pit at site access near Cheung Muk Tau Village



- The effluent sampling was conducted by CT on 21 June 2003. The laboratory testing report is given in Appendix 6.

## 6.2 Waste Disposal

A total of 29 loads of Construction and Demolition Waste (C&D waste) had been disposed of at NENT Landfill in June 2003. The total tonnage of the C&D waste disposal in June 2003 was 243.7 tonnes.

A total of 1,738 loads of rocks ( $f > 400\text{mm}$ ) had been reused at the following government project sites in June 2003:

- *Contract No. FL 26/01 River Training for Upper River Indus – Completion of the Remaining Works between Man Kam To Road and KCRC Bridges, and*
- *Contract No. CV/2002/05 Public Filling Barging Point at Kai Tak*

The total quantity of disposed rocks was 12,426.7 m<sup>3</sup> in June 2003.

A total of 172 loads of inert materials had been disposed of at Public Filling Area in June 2003. The total quantity of the disposed inert materials was 1,032.0 m<sup>3</sup> in June 2003.

### 6.3 EPD Site Inspection

ET was informed by the CT that EPD had visited the site on 24 June 2003.

### 6.4 Complaint Record

A total of six public complaints regarding construction noise were received on 30<sup>th</sup> May 2003, 9<sup>th</sup>, 23<sup>rd</sup> and 27<sup>th</sup> June 2003 respectively through the District Councillor for Shatin District Board and the EPD. All complaints had been resolved. Correspondences on the public complaints are given in Appendix 7.

### 6.5 Non-compliance Record

There was no exceedance recorded in June 2003.

This page left blank intentionally



## 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.
- [6] Sha Tin New Town, Stage II Contract No. ST 86/2000 Construction of Road T7 in Ma On Shan Monthly EM&A Report – August 2002, Ove Arup & Partners Hong Kong Limited.
- [7] Title 40 of the Code of Federal Regulations, Chapter 1, Part 50 - National Primary and Secondary Ambient Air Quality Standards, Appendix B - Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere (High-volume Method), Environmental Protection Agency, US.
- [8] Sha Tin New Town, Stage II Contract No. ST 86/2000 Construction of Road T7 in Ma On Shan Monthly EM&A Report – April 2003, Ove Arup & Partners Hong Kong Limited.
- [9] Sha Tin New Town, Stage II Contract No. ST 86/2000 Construction of Road T7 in Ma On Shan Monthly EM&A Report – May 2003, Ove Arup & Partners Hong Kong Limited.
- [10] Sha Tin New Town, Stage II Contract No. ST 86/2000 Construction of Road T7 in Ma On Shan Monthly EM&A Report – April 2002, Ove Arup & Partners Hong Kong Limited.

This page left blank intentionally

**APPENDIX 1**

**EM&A Programme for June 2003**

## Environmental Monitoring and Audit Programme - June 2003

- Note 1: L30 denotes  $L_{eq}(30 \text{ min})$
- Note 2: L5 denotes  $L_{eq}(5 \text{ min})$
- Note 3: TSP denotes Total Suspended Particulate
- Note 4: \* denotes the starting day of 6-days cycle

Jun-2003						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3 Site inspection L30 monitoring (day time) 3xL5 monitoring (evening time) 3 x 1-hour TSP monitoring	4	5	6	7
8	9	10 L30 monitoring (day time) 3xL5 monitoring (evening time) 3 x 1-hour TSP monitoring	11 Site inspection	12 24-hour TSP monitoring (AM2,AM3,AM4,AM6)	13	14 24-hour TSP monitoring (AM5)
15 24-hour TSP monitoring 3 x 1-hour TSP monitoring (Baseline ambient checking)	16	17 L30 monitoring (day time) 3xL5 monitoring (evening time) 3 x 1-hour TSP monitoring	18 Site inspection 24-hour TSP monitoring	19	20	21
22	23 3 x 1-hour TSP monitoring	24 24-hour TSP monitoring	25 Site inspection	26 L30 monitoring (day time) 3xL5 monitoring (evening time) 3 x 1-hour TSP monitoring	27	28
29	30 24-hour TSP monitoring					

**APPENDIX 2**

**EM&A Schedule for July 2003**

## Environmental Monitoring and Audit Schedule - July 2003

Note 1: L30 denotes  $L_{eq}(30 \text{ min})$

Note 2: L5 denotes  $L_{eq}(5 \text{ min})$

Note 3: TSP denotes Total Suspended Particulate

Note 4: \* denotes the starting day of 6-days cycle

Jul-2003						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
6	7	8	9 Site inspection L30 monitoring (day time) 3xL5 monitoring (evening time) 3 x 1-hour TSP monitoring *	10	11	12 24-hour TSP monitoring
13	14	15	16 Site inspection L30 monitoring (day time) 3xL5 monitoring (evening time) 3 x 1-hour TSP monitoring	17	18	19 24-hour TSP monitoring
20	21	22 L30 monitoring (day time) 3xL5 monitoring (evening time) 3 x 1-hour TSP monitoring	23 Site inspection	24	25 3 x 1-hour TSP monitoring	26
27	28	29	30 24-hour TSP monitoring	31 L30 monitoring (day time) 3xL5 monitoring (evening time) 3 x 1-hour TSP monitoring *		

**APPENDIX 3**

**Noise Impact Monitoring Results for June 2003**

### Details of Day Time Noise Impact Monitoring

Month	Date	NSR No.	Time periods		Weather condition	Avg. wind speed (m/s)	Noise Level dB(A)		
			Start	Finish			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
Jun-03	03-Jun-03	NM2	13:00	13:30	sunny	0.4	64.5	66.0	60.0
Jun-03	03-Jun-03	NM3	13:40	14:10	sunny	0.3	60.0	62.5	58.5
Jun-03	03-Jun-03	NM4	14:15	14:45	sunny	0.5	65.0	67.0	60.5
Jun-03	03-Jun-03	NM6	16:00	16:30	sunny	0.6	68.5	71.0	61.5
Jun-03	03-Jun-03	NM7	14:50	15:20	sunny	0.5	70.5	73.0	62.5
Jun-03	03-Jun-03	NM8	15:25	15:55	sunny	0.5	69.5	72.0	64.0
Jun-03	10-Jun-03	NM2	10:50	11:20	Cloudy	0.5	61.0	63.0	59.0
Jun-03	10-Jun-03	NM3	11:00	11:30	Cloudy	0.4	62.0	63.5	58.0
Jun-03	10-Jun-03	NM4	10:55	11:25	Cloudy	0.5	65.0	68.5	61.5
Jun-03	10-Jun-03	NM6	10:10	10:40	Cloudy	0.5	64.0	67.0	60.5
Jun-03	10-Jun-03	NM7	10:05	10:35	Cloudy	0.5	62.5	64.0	60.0
Jun-03	10-Jun-03	NM8	10:00	10:30	Cloudy	0.4	65.5	68.0	61.0
Jun-03	17-Jun-03	NM2	8:00	8:30	Fine	0.4	63.5	66.0	59.5
Jun-03	17-Jun-03	NM3	8:40	9:10	Fine	0.4	62.0	64.5	58.0
Jun-03	17-Jun-03	NM4	9:30	10:00	Fine	0.4	64.5	67.5	60.5
Jun-03	17-Jun-03	NM6	13:00	13:30	Fine	0.5	69.0	73.5	63.0
Jun-03	17-Jun-03	NM7	10:10	10:40	Fine	0.6	67.5	70.5	60.5
Jun-03	17-Jun-03	NM8	10:35	11:05	Fine	0.6	72.0	76.8	63.0
Jun-03	26-Jun-03	NM2	13:00	13:30	sunny	0.5	63.0	65.5	60.0
Jun-03	26-Jun-03	NM3	0:00	0:30	sunny	0.4	61.5	64.0	58.0
Jun-03	26-Jun-03	NM4	10:30	11:00	sunny	0.4	67.0	71.5	60.5
Jun-03	26-Jun-03	NM6	8:30	9:00	sunny	0.5	67.0	70.5	62.0
Jun-03	26-Jun-03	NM7	9:15	9:45	sunny	0.4	64.5	66.0	60.5
Jun-03	26-Jun-03	NM8	9:50	10:20	sunny	0.5	69.5	75.0	64.0



## 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 <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
Jun-03	03-Jun-03	1	NM3	20:50	20:55	fine	0.4	60.0	62.0	57.5
Jun-03	03-Jun-03	2	NM3	20:55	21:00	fine	0.4	59.5	62.0	58.0
Jun-03	03-Jun-03	3	NM3	21:00	21:05	fine	0.4	60.5	62.5	59.0
Jun-03	03-Jun-03	1	NM4	20:20	20:25	fine	0.4	63.0	65.0	60.5
Jun-03	03-Jun-03	2	NM4	20:25	20:30	fine	0.4	64.5	65.0	60.5
Jun-03	03-Jun-03	3	NM4	20:30	20:35	fine	0.4	64.5	66.0	61.0
Jun-03	03-Jun-03	1	NM6	19:40	19:45	fine	0.4	62.5	65.0	60.0
Jun-03	03-Jun-03	2	NM6	19:45	19:50	fine	0.4	63.5	64.5	60.5
Jun-03	03-Jun-03	3	NM6	19:50	19:55	fine	0.4	63.0	64.5	60.0
Jun-03	03-Jun-03	1	NM8	19:00	19:05	fine	0.5	64.0	66.0	60.5
Jun-03	03-Jun-03	2	NM8	19:05	19:10	fine	0.5	62.0	64.5	60.0
Jun-03	03-Jun-03	3	NM8	19:10	19:15	fine	0.5	61.5	63.0	59.0
Jun-03	10-Jun-03	1	NM3	19:00	19:05	fine	0.4	60.5	62.0	57.0
Jun-03	10-Jun-03	2	NM3	19:05	19:10	fine	0.4	59.5	61.0	57.0
Jun-03	10-Jun-03	3	NM3	19:10	19:15	fine	0.4	60.0	61.5	57.5
Jun-03	10-Jun-03	1	NM4	19:20	19:25	fine	0.4	60.5	62.0	57.5
Jun-03	10-Jun-03	2	NM4	19:25	19:30	fine	0.4	61.0	63.0	58.0
Jun-03	10-Jun-03	3	NM4	19:30	19:35	fine	0.4	60.0	62.5	57.0
Jun-03	10-Jun-03	1	NM6	20:00	20:05	fine	0.5	64.0	66.5	61.0
Jun-03	10-Jun-03	2	NM6	20:05	20:10	fine	0.5	63.0	65.0	60.5
Jun-03	10-Jun-03	3	NM6	20:10	20:15	fine	0.5	61.5	63.0	59.0
Jun-03	10-Jun-03	1	NM8	20:30	20:35	fine	0.5	62.5	64.0	57.5
Jun-03	10-Jun-03	2	NM8	20:35	20:40	fine	0.5	60.5	62.5	58.0
Jun-03	10-Jun-03	3	NM8	20:40	20:45	fine	0.5	61.0	63.0	58.0
Jun-03	17-Jun-03	1	NM3	19:00	19:05	fine	0.4	59.0	65.0	57.5
Jun-03	17-Jun-03	2	NM3	19:05	19:10	fine	0.4	60.5	62.5	58.0
Jun-03	17-Jun-03	3	NM3	19:10	19:15	fine	0.4	60.0	63.0	58.5
Jun-03	17-Jun-03	1	NM4	19:30	19:35	fine	0.5	62.5	65.0	60.5
Jun-03	17-Jun-03	2	NM4	19:35	19:40	fine	0.5	63.0	65.5	60.0
Jun-03	17-Jun-03	3	NM4	19:40	19:45	fine	0.5	63.0	65.0	61.0
Jun-03	17-Jun-03	1	NM6	20:35	20:40	fine	0.5	63.0	64.5	60.5
Jun-03	17-Jun-03	2	NM6	20:40	20:45	fine	0.5	62.0	63.5	60.0
Jun-03	17-Jun-03	3	NM6	20:45	20:50	fine	0.5	63.5	65.0	61.0
Jun-03	17-Jun-03	1	NM8	20:00	20:05	fine	0.5	64.0	66.5	60.5
Jun-03	17-Jun-03	2	NM8	20:05	20:10	fine	0.5	60.5	62.5	57.5
Jun-03	17-Jun-03	3	NM8	20:10	20:15	fine	0.5	61.5	63.0	58.0
Jun-03	26-Jun-03	1	NM3	20:55	21:00	fine	0.3	60.0	61.5	58.0
Jun-03	26-Jun-03	2	NM3	21:00	21:05	fine	0.3	59.5	61.5	57.0
Jun-03	26-Jun-03	3	NM3	21:05	21:10	fine	0.3	59.0	61.0	57.5
Jun-03	26-Jun-03	1	NM4	20:30	20:35	fine	0.4	61.5	63.5	59.5
Jun-03	26-Jun-03	2	NM4	20:35	20:40	fine	0.4	60.5	62.0	58.0
Jun-03	26-Jun-03	3	NM4	20:40	20:45	fine	0.4	61.5	64.0	59.0
Jun-03	26-Jun-03	1	NM6	19:00	19:05	fine	0.4	61.5	63.0	59.0
Jun-03	26-Jun-03	2	NM6	19:05	19:10	fine	0.4	63.0	65.0	60.5
Jun-03	26-Jun-03	3	NM6	19:10	19:15	fine	0.4	61.0	63.5	58.0
Jun-03	26-Jun-03	1	NM8	19:40	19:45	fine	0.4	62.0	63.0	58.5
Jun-03	26-Jun-03	2	NM8	19:45	19:50	fine	0.4	62.5	64.0	60.0
Jun-03	26-Jun-03	3	NM8	19:50	19:55	fine	0.4	61.0	63.0	59.0

**APPENDIX 4**

**24-hour TSP Monitoring Results for June 2003**

Details of 24-Hour TSP Monitoring

Filter No.	Month	Date	Receptor No.	Weather condition	Site condition	Filter Weight (g)		TSP weight (g)	Flow Rate (m³/min)		Average Flow Rate (m³/min)		Elapse Time		Sampling Time (mins.)	Total vol. (m³)	24-hour TSP Level (µg/m³)
						Initial	Final		Initial	Final	Rate	Rate	Start	Finish			
EF63	Jun-03	06-Jun-03	AM2	Rainy	normal operation	3.4548	3.5438	0.0890	1.2887	1.3300	1.3094	3531.64	3555.64	1440.00	1885.46	47.2	
EF64	Jun-03	06-Jun-03	AM3	Rainy	normal operation	3.4506	3.5411	0.0905	1.2408	1.2385	1.2397	3483.35	3486.96	1416.60	1756.09	51.5	
EF65	Jun-03	06-Jun-03	AM4	Rainy	normal operation	3.4606	3.5370	0.0764	1.2509	1.2487	1.2498	3518.27	3542.27	1440.00	1799.71	42.5	
EF66	Jun-03	06-Jun-03	AM5	Rainy	normal operation	3.4763	3.8449	0.3686	1.3971	1.3926	1.3949	3058.89	3082.89	1440.00	2008.58	183.5	
EF67	Jun-03	06-Jun-03	AM6	Rainy	normal operation	3.4736	3.5521	0.0785	1.3139	1.3115	1.3127	1648.44	1672.44	1440.00	1890.29	41.5	
EF90	Jun-03	12-Jun-03	AM2	Rainy	normal operation	3.5040	3.5805	0.0765	1.2869	1.2878	1.2874	3555.64	3579.64	1440.00	1853.78	41.3	
EG01	Jun-03	12-Jun-03	AM3	Rainy	normal operation	3.4439	3.5168	0.0729	1.2385	1.2397	1.2391	3436.96	3510.96	1440.00	1784.30	40.9	
EG02	Jun-03	12-Jun-03	AM4	Rainy	normal operation	3.4723	3.5495	0.0772	1.2754	1.2766	1.2760	3542.27	3566.27	1440.00	1837.44	42.0	
EG03	Jun-03	14-Jun-03	AM5	Rainy	normal operation	3.4557	3.5395	0.0838	1.3528	1.3551	1.3540	3166.11	3190.31	1452.00	1965.94	42.6	
EG04	Jun-03	12-Jun-03	AM6	Rainy	normal operation	3.4375	3.5079	0.0704	1.3636	1.3649	1.3643	1672.44	1696.44	1440.00	1964.52	35.8	
EG57	Jun-03	18-Jun-03	AM2	Sunny	normal operation	3.3501	3.5887	0.2386	1.2894	1.2870	1.2882	3603.64	3627.64	1440.00	1855.01	128.6	
EG37	Jun-03	18-Jun-03	AM3	Sunny	normal operation	3.4605	3.6716	0.2111	1.1915	1.1885	1.1900	3534.96	3558.96	1440.00	1713.60	123.2	
EG38	Jun-03	18-Jun-03	AM4	Sunny	normal operation	3.4650	3.7079	0.2429	1.2786	1.2755	1.2771	3590.27	3610.27	1200.00	1532.46	158.5	
EG60	Jun-03	18-Jun-03	AM5	Sunny	normal operation	3.3523	3.6499	0.2976	1.3592	1.3530	1.3561	3284.75	3288.84	1445.40	1960.11	151.8	
EG61	Jun-03	18-Jun-03	AM6	Sunny	normal operation	3.3552	3.5948	0.2396	1.3149	1.3116	1.3133	1720.44	1744.44	1440.00	1891.08	126.7	
EH54	Jun-03	24-Jun-03	AM2	Sunny	normal operation	3.3637	3.4145	0.0508	1.2870	1.2855	1.2863	3627.64	3651.63	1439.40	1851.43	27.4	
EH55	Jun-03	24-Jun-03	AM3	Sunny	normal operation	3.3721	3.4404	0.0683	1.1384	1.1367	1.1376	3572.89	3596.89	1440.00	1638.07	41.7	
EH56	Jun-03	24-Jun-03	AM4	Sunny	normal operation	3.3619	3.4281	0.0662	1.3023	1.3003	1.3013	3610.27	3634.27	1440.00	1873.87	35.3	
EH57	Jun-03	24-Jun-03	AM5	Sunny	normal operation	3.3765	3.4389	0.0624	1.3530	1.3492	1.3511	3312.84	3336.84	1440.00	1945.58	32.1	
EH58	Jun-03	24-Jun-03	AM6	Sunny	normal operation	3.3682	3.4226	0.0544	1.3116	1.3096	1.3106	1744.44	1768.44	1440.00	1887.26	28.8	
EH74	Jun-03	30-Jun-03	AM2	Sunny	normal operation	3.3205	3.3605	0.0400	1.2855	1.2849	1.2852	3651.63	3675.64	1440.00	1851.46	21.6	
EH76	Jun-03	30-Jun-03	AM3	Sunny	normal operation	3.3606	3.3992	0.0386	1.1867	1.1859	1.1863	3596.89	3620.89	1440.00	1708.27	22.6	
EH77	Jun-03	30-Jun-03	AM4	Sunny	normal operation	3.3622	3.3972	0.0350	1.1935	1.1928	1.1932	3634.27	3658.22	1437.00	1714.56	20.4	
EH78	Jun-03	30-Jun-03	AM5	Sunny	normal operation	3.3706	3.4178	0.0472	1.3492	1.3475	1.3484	3336.84	3360.84	1440.00	1941.62	24.3	
EH79	Jun-03	30-Jun-03	AM6	Sunny	normal operation	3.3556	3.4003	0.0447	1.2836	1.2827	1.2832	1768.44	1792.45	1440.60	1848.51	24.2	

### Details of 24-Hour TSP for Baseline Checking

Month	Date	Receptor No.	Weather condition	Site condition	Filter Weight (g)		TSP weight (g)	Flow Rate (m <sup>3</sup> /min)		Average Flow Rate (m <sup>3</sup> /min)	Elapse Time		Sampling Time (mins.)	Total vol. (m <sup>3</sup> )	24-hour TSP Level (µg/m <sup>3</sup> )
					Initial	Final		Initial	Final		Start	Finish			
Jun-03	15-Jun-03	AM2	Sunny	normal operation	3.4786	3.5547	0.0761	1.2869	1.2894	1.2882	3579.64	3603.64	1440.00	1854.94	41.0
Jun-03	15-Jun-03	AM3	Sunny	normal operation	3.3507	3.3866	0.0359	1.1884	1.1915	1.1900	3510.96	3534.96	1440.00	1713.53	21.0
Jun-03	15-Jun-03	AM4	Sunny	normal operation	3.3588	3.3966	0.0378	1.3022	1.3055	1.3039	3566.27	3590.27	1440.00	1877.54	20.1
Jun-03	15-Jun-03	AM5	Sunny	normal operation	3.3844	3.4305	0.0461	1.3528	1.3592	1.3560	3288.84	3312.84	1440.00	1952.64	23.6
Jun-03	15-Jun-03	AM6	Sunny	normal operation	3.4435	3.5167	0.0732	1.3115	1.3149	1.3132	1696.44	1720.44	1440.00	1891.01	38.7

**APPENDIX 5**

**1-hour TSP Monitoring Results for June 2003**

## Details of 1-Hour TSP Monitoring

Month	Date	Receptor No.	Set No.	Time periods		Weather condition	Site condition	Temp. (°C)	Pressure (mmHg)	1-hour TSP Level (µg/g <sup>3</sup> )
				Start	Finish					
Jun-03	03-Jun-03	AM2	1	13:00	14:00	Sunny	normal operation	28.0	762.0	222.7
Jun-03	03-Jun-03	AM2	2	14:00	15:00	Sunny	normal operation	28.0	762.0	217.4
Jun-03	03-Jun-03	AM2	3	15:00	16:00	Sunny	normal operation	28.0	762.0	207.5
Jun-03	03-Jun-03	AM3	1	13:04	14:04	Sunny	normal operation	28.0	762.0	196.2
Jun-03	03-Jun-03	AM3	2	14:04	15:04	Sunny	normal operation	28.0	762.0	192.8
Jun-03	03-Jun-03	AM3	3	15:04	16:04	Sunny	normal operation	28.0	762.0	183.8
Jun-03	03-Jun-03	AM4	1	13:00	14:00	Sunny	normal operation	28.0	762.0	200.3
Jun-03	03-Jun-03	AM4	2	14:00	15:00	Sunny	normal operation	28.0	762.0	197.1
Jun-03	03-Jun-03	AM4	3	15:00	16:00	Sunny	normal operation	28.0	762.0	180.6
Jun-03	03-Jun-03	AM5	1	13:03	14:03	Sunny	normal operation	28.0	762.0	266.2
Jun-03	03-Jun-03	AM5	2	14:03	15:03	Sunny	normal operation	28.0	762.0	276.0
Jun-03	03-Jun-03	AM5	3	15:03	16:03	Sunny	normal operation	28.0	762.0	259.7
Jun-03	03-Jun-03	AM6	1	13:03	14:03	Sunny	normal operation	28.0	762.0	213.7
Jun-03	03-Jun-03	AM6	2	14:03	15:03	Sunny	normal operation	28.0	762.0	205.1
Jun-03	03-Jun-03	AM6	3	15:03	16:03	Sunny	normal operation	28.0	762.0	193.5
Jun-03	10-Jun-03	AM2	1	8:12	9:12	Rainy	normal operation	26.0	753.0	179.9
Jun-03	10-Jun-03	AM2	2	9:12	10:12	Rainy	normal operation	26.0	753.0	178.0
Jun-03	10-Jun-03	AM2	3	10:12	11:12	Rainy	normal operation	26.0	753.0	169.5
Jun-03	10-Jun-03	AM3	1	8:02	9:02	Rainy	normal operation	26.0	753.0	154.6
Jun-03	10-Jun-03	AM3	2	9:02	10:02	Rainy	normal operation	26.0	753.0	151.2
Jun-03	10-Jun-03	AM3	3	10:02	11:02	Rainy	normal operation	26.0	753.0	134.5
Jun-03	10-Jun-03	AM4	1	8:09	9:09	Rainy	normal operation	26.0	753.0	141.0
Jun-03	10-Jun-03	AM4	2	9:09	10:09	Rainy	normal operation	26.0	753.0	135.4
Jun-03	10-Jun-03	AM4	3	10:09	11:09	Rainy	normal operation	26.0	753.0	154.2
Jun-03	10-Jun-03	AM5	1	8:04	9:04	Rainy	normal operation	26.0	753.0	150.9
Jun-03	10-Jun-03	AM5	2	9:04	10:04	Rainy	normal operation	26.0	753.0	146.7
Jun-03	10-Jun-03	AM5	3	10:04	11:04	Rainy	normal operation	26.0	753.0	125.2
Jun-03	10-Jun-03	AM6	1	8:00	9:00	Rainy	normal operation	26.0	753.0	168.7
Jun-03	10-Jun-03	AM6	2	9:00	10:00	Rainy	normal operation	26.0	753.0	164.1
Jun-03	10-Jun-03	AM6	3	10:00	11:00	Rainy	normal operation	26.0	753.0	152.1
Jun-03	17-Jun-03	AM2	1	8:49	9:49	Fine	normal operation	26.0	756.0	215.7
Jun-03	17-Jun-03	AM2	2	9:49	10:49	Fine	normal operation	26.0	756.0	193.5
Jun-03	17-Jun-03	AM2	3	10:49	11:49	Fine	normal operation	26.0	756.0	185.2
Jun-03	17-Jun-03	AM3	1	8:46	9:46	Fine	normal operation	26.0	756.0	216.2
Jun-03	17-Jun-03	AM3	2	9:46	10:46	Fine	normal operation	26.0	756.0	190.4
Jun-03	17-Jun-03	AM3	3	10:46	11:46	Fine	normal operation	26.0	756.0	182.3
Jun-03	17-Jun-03	AM4	1	8:54	9:54	Fine	normal operation	26.0	756.0	236.2
Jun-03	17-Jun-03	AM4	2	9:54	10:54	Fine	normal operation	26.0	756.0	213.6
Jun-03	17-Jun-03	AM4	3	10:54	11:54	Fine	normal operation	26.0	756.0	205.1
Jun-03	17-Jun-03	AM5	1	9:02	10:02	Fine	normal operation	26.0	756.0	196.0
Jun-03	17-Jun-03	AM5	2	10:02	11:02	Fine	normal operation	26.0	756.0	174.9
Jun-03	17-Jun-03	AM5	3	11:02	12:02	Fine	normal operation	26.0	756.0	162.8
Jun-03	17-Jun-03	AM6	1	8:37	9:37	Fine	normal operation	26.0	756.0	209.9
Jun-03	17-Jun-03	AM6	2	9:37	10:37	Fine	normal operation	26.0	756.0	191.4
Jun-03	17-Jun-03	AM6	3	10:37	11:37	Fine	normal operation	26.0	756.0	183.1
Jun-03	23-Jun-03	AM2	1	8:46	9:46	Cloudy	normal operation	31.0	765.8	177.8
Jun-03	23-Jun-03	AM2	2	9:46	10:46	Cloudy	normal operation	31.0	765.8	162.2
Jun-03	23-Jun-03	AM2	3	10:46	11:46	Cloudy	normal operation	31.0	765.8	165.6
Jun-03	23-Jun-03	AM3	1	8:37	9:37	Cloudy	normal operation	31.0	765.8	189.4
Jun-03	23-Jun-03	AM3	2	9:37	10:37	Cloudy	normal operation	31.0	765.8	159.2
Jun-03	23-Jun-03	AM3	3	10:37	11:37	Cloudy	normal operation	31.0	765.8	182.7
Jun-03	23-Jun-03	AM4	1	8:43	9:43	Cloudy	normal operation	31.0	765.8	173.4
Jun-03	23-Jun-03	AM4	2	9:43	10:43	Cloudy	normal operation	31.0	765.8	138.0
Jun-03	23-Jun-03	AM4	3	10:43	11:43	Cloudy	normal operation	31.0	765.8	146.8
Jun-03	23-Jun-03	AM5	1	8:53	9:53	Cloudy	normal operation	31.0	765.8	163.2
Jun-03	23-Jun-03	AM5	2	9:53	10:53	Cloudy	normal operation	31.0	765.8	144.3
Jun-03	23-Jun-03	AM5	3	10:53	11:53	Cloudy	normal operation	31.0	765.8	149.3
Jun-03	23-Jun-03	AM6	1	8:56	9:56	Cloudy	normal operation	31.0	765.8	145.9
Jun-03	23-Jun-03	AM6	2	9:56	10:56	Cloudy	normal operation	31.0	765.8	125.1
Jun-03	23-Jun-03	AM6	3	10:56	11:56	Cloudy	normal operation	31.0	765.8	129.6

### 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 <sup>3</sup> )
				Start	Finish					
Jun-03	26-Jun-03	AM2	1	8:38	9:38	Sunny	normal operation	30.0	760.0	154.7
Jun-03	26-Jun-03	AM2	2	9:38	10:38	Sunny	normal operation	30.0	760.0	146.7
Jun-03	26-Jun-03	AM2	3	10:38	11:38	Sunny	normal operation	30.0	760.0	147.3
Jun-03	26-Jun-03	AM3	1	8:38	9:38	Sunny	normal operation	30.0	760.0	120.7
Jun-03	26-Jun-03	AM3	2	9:38	10:38	Sunny	normal operation	30.0	760.0	130.9
Jun-03	26-Jun-03	AM3	3	10:38	11:38	Sunny	normal operation	30.0	760.0	157.0
Jun-03	26-Jun-03	AM4	1	8:20	9:20	Sunny	normal operation	30.0	760.0	121.2
Jun-03	26-Jun-03	AM4	2	9:20	10:20	Sunny	normal operation	30.0	760.0	107.6
Jun-03	26-Jun-03	AM4	3	10:20	11:20	Sunny	normal operation	30.0	760.0	132.7
Jun-03	26-Jun-03	AM5	1	8:28	9:28	Sunny	normal operation	30.0	760.0	138.6
Jun-03	26-Jun-03	AM5	2	9:28	10:28	Sunny	normal operation	30.0	760.0	132.1
Jun-03	26-Jun-03	AM5	3	10:28	11:28	Sunny	normal operation	30.0	760.0	146.4
Jun-03	26-Jun-03	AM6	1	8:27	9:27	Sunny	normal operation	30.0	760.0	116.2
Jun-03	26-Jun-03	AM6	2	9:27	10:27	Sunny	normal operation	30.0	760.0	104.3
Jun-03	26-Jun-03	AM6	3	10:27	11:27	Sunny	normal operation	30.0	760.0	132.7

### Details of 1-Hour TSP for Baseline Checking

Month	Date	Receptor No.	Set No.	Time periods		Weather condition	Site condition	Temp. (°C)	Pressure (mmHg)	1-hour TSP Level (µg/g <sup>3</sup> )
				Start	Finish					
Jun-03	15-Jun-03	AM2	1	13:18	14:18	rainy	Normal Operation	25.0	756.0	190.6
Jun-03	15-Jun-03	AM2	2	15:03	16:03	rainy	Normal Operation	25.0	756.0	180.5
Jun-03	15-Jun-03	AM2	3	16:03	17:03	rainy	Normal Operation	25.0	756.0	192.3
									<b>average</b>	<b>187.8</b>
Jun-03	15-Jun-03	AM3	1	13:40	14:40	rainy	Normal Operation	25.0	756.0	180.5
Jun-03	15-Jun-03	AM3	2	15:00	16:00	rainy	Normal Operation	25.0	756.0	166.5
Jun-03	15-Jun-03	AM3	3	16:00	17:00	rainy	Normal Operation	25.0	756.0	175.0
									<b>average</b>	<b>174.0</b>
Jun-03	15-Jun-03	AM4	1	13:11	14:11	rainy	Normal Operation	25.0	756.0	205.9
Jun-03	15-Jun-03	AM4	2	14:36	15:36	rainy	Normal Operation	25.0	756.0	191.8
Jun-03	15-Jun-03	AM4	3	15:36	16:36	rainy	Normal Operation	25.0	756.0	197.4
									<b>average</b>	<b>198.4</b>
Jun-03	15-Jun-03	AM5	1	13:17	14:17	rainy	Normal Operation	25.0	756.0	208.4
Jun-03	15-Jun-03	AM5	2	14:42	15:42	rainy	Normal Operation	25.0	756.0	196.2
Jun-03	15-Jun-03	AM5	3	15:42	16:42	rainy	Normal Operation	25.0	756.0	204.8
									<b>average</b>	<b>203.1</b>
Jun-03	15-Jun-03	AM6	1	14:18	15:18	rainy	Normal Operation	25.0	756.0	230.5
Jun-03	15-Jun-03	AM6	2	14:43	15:43	rainy	Normal Operation	25.0	756.0	215.6
Jun-03	15-Jun-03	AM6	3	15:43	16:43	rainy	Normal Operation	25.0	756.0	227.0
									<b>average</b>	<b>224.4</b>



## **Appendix 6**

### **Laboratory Testing Report of the Effluent Sampling**



中國港灣建設(集團)總公司

香港代表: 振華工程有限公司

CHINA HARBOUR ENGINEERING COMPANY (GROUP)  
HONG KONG REPRESENTATIVE: ZHEN HUA ENGINEERING CO., LTD.

Date: 25 June 2003  
Our Ref: T7/02.03/O/06307

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

Attn : Ms. Shirley Yuen (EPO)

Dear Ms. Yuen,

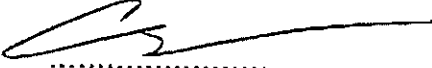
**Sha Tin New Town Stage II**  
**Contract No. ST86/2000**  
**Construction of Road T7 in Ma On Shan**  
**Laboratory Test Report of the effluent sampling from discharge points of construction site T7 in Ma On Shan on 21 June 2003**

We submit herewith a laboratory test report and photos of the effluent sampling from the discharge points of construction site T7 on 21 June 2003 (Bimonthly self-grab sample) for your comments and records.

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

73156

Anup Acoustics File No.	
Master Ref. 15984	Project Ref.
Reply Ref.	Date
Action Required	
Received 25 JUN 2003	
Initialed	

  
.....  
Chan Man  
Project Manager

CM/CL/GT/fc

Encl.

c.c. MCAL - CRE  
MCAL - HO  
CHEC (H.O.)  
OAP- Mr. Thomas Chan (F: 2268 3950)

# WELLAB LIMITED

606 - 608 Cornell Centre, 50 Wing Tai Road, Chai Wan, H.K.  
 Tel: (852) 2998 7388 Fax: (852) 2998 7076 Website: www.wellab.com.hk

## TEST REPORT

**APPLICANT:** China Harbour Engrg. Co. (Group)  
 9 Lok Wo Sha Lane,  
 Ma On Shan,  
 NT.

Laboratory No.:	W 03 01151
Date of Issue:	2003-06-24
Date Received:	2003-06-21
Date Tested:	2003-06-22
Date Completed:	2003-06-22

**ATTN:** Mr. Gordon Tang

Page: 1 of 1

**Sample Description :** 7 liquid samples as received from client said to be wastewater  
**Sampling Site :** Road T7 in Ma On Shan  
**Project Title :** Sha Tin New Town, Stage II Contract No. ST86 2000 Construction  
**Project No. :** ST86 2000  
**Sampling Date:** 2003-06-21

**Test Requested & Methodology:**

Parameter	Method	LOR
Total suspended solids	WL ENV 032	2.5 mg/L

**Result:**

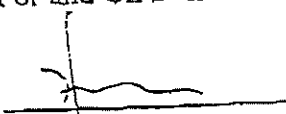
	Pt 2	Pt 3	Pt 4
Sampling Point			
Sample Number	03-08516	03-08517	03-08518
Total Suspended Solids, mg/L	3	11	3

	Pt 5	Pt 6	Pt 7
Sampling Point			
Sample Number	03-08519	03-08520	03-08521
Total Suspended Solids, mg/L	5	2.5	16

	Pt 8
Sampling Point	
Sample Number	03-08522
Total Suspended Solids, mg/L	33

\*\*\*\*\*END OF REPORT\*\*\*\*\*

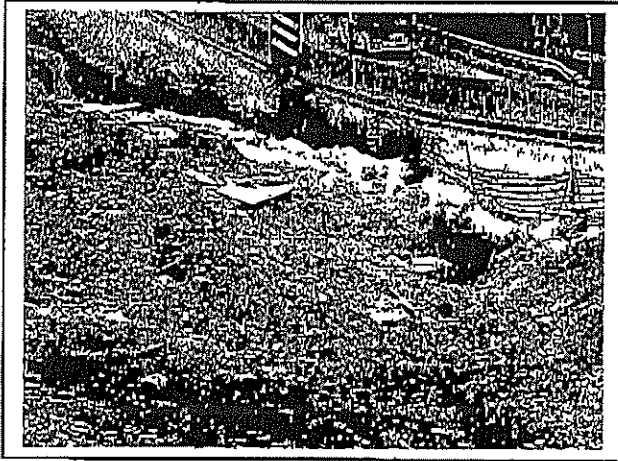
**PREPARED AND CHECKED BY:**  
 For and On Behalf of **WELLAB Ltd.**

  
**JEFFREY LEE**  
 Laboratory Manager

This report may not be reproduced except with prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested

**China Harbour Engineering Company (Group)  
Sha Tin New Town Stage II Contract No. ST86/2000  
Construction of Trunk Road T7 in Ma On Shan**

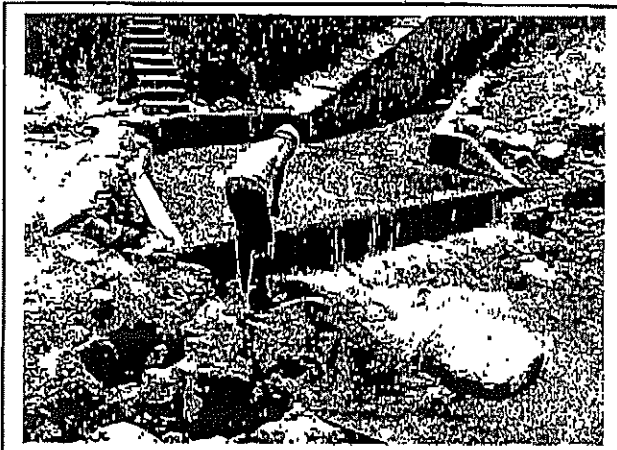
**Summary of water sample taken on 21 June 2003**



Discharge pt.: 1 (near Gate 6)  
Relocation of drains



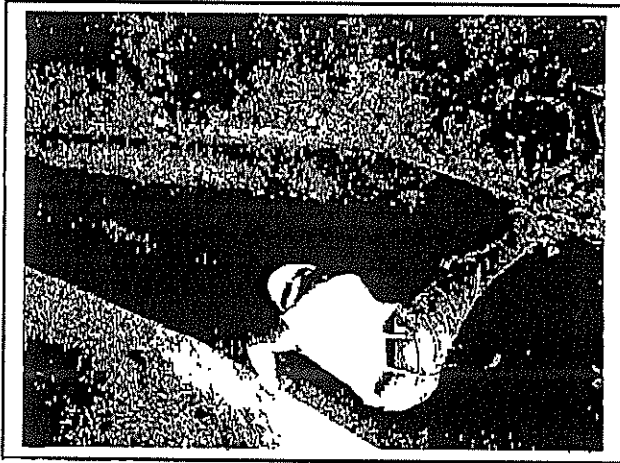
Discharge pt.: 2 (near RW-B2)  
Sample no.: Pt. 2



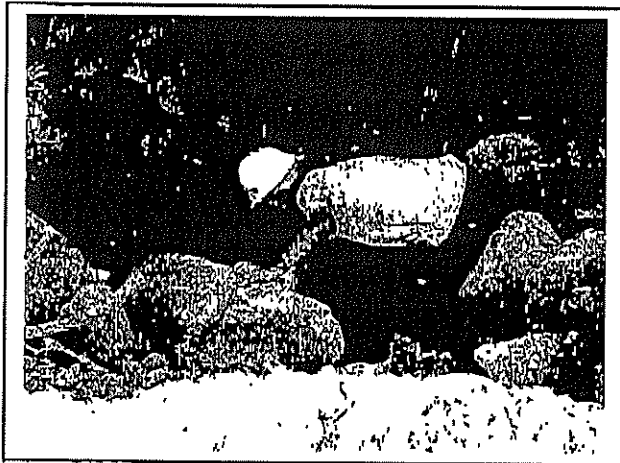
Discharge pt.: 3 (Bridge TB)  
Sample no.: Pt. 3

**China Harbour Engineering Company (Group)  
Sha Tin New Town Stage II Contract No. ST86/2000  
Construction of Trunk Road T7 in Ma On Shan**

**Summary of water sample taken on 21 June 2003**



Discharge pt.: 4 (near CC3)  
Sample no.: Pt. 4



Discharge pt.: 5 (near CC6)  
Sample no.: Pt. 5



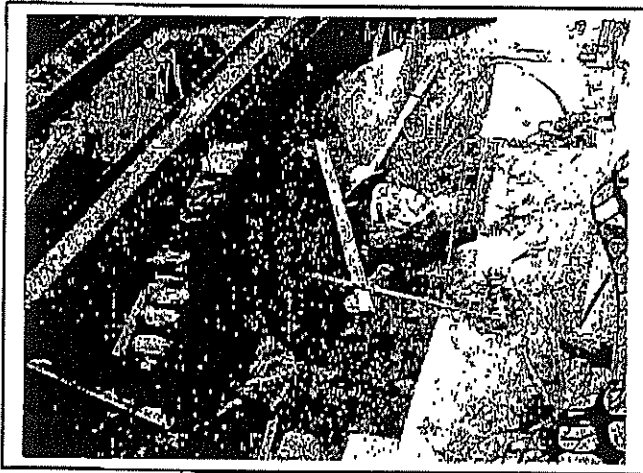
Discharge pt.: 6 (near CC12)  
Sample no.: Pt. 6

**China Harbour Engineering Company (Group)  
Sha Tin New Town Stage II Contract No. ST86/2000  
Construction of Trunk Road T7 in Ma On Shan**

**Summary of water sample taken on 21 June 2003**



Discharge pt.: 7 (near RW-H1)  
Sample no.: Pt.7



Discharge pt.: 8 (Adj. To NB7)  
Sample no.: Pt. 8

**APPENDIX 7**

**Correspondences of Public Complaints from Kam Ying, Monte Vista & Lee On Estate**

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

8/F, Grand Central Plaza, Tower 2  
138 Shatin Rural Committee Road  
Sha Tin, N.T., Hong Kong  
香港新界沙田鄉事會路 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

E-mail : t7cso@netvigator.com

Your Ref.:  
Our Ref. : T7(ST86/2000)/M05/412(0193)

2 June 2003

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

Dear Sirs,

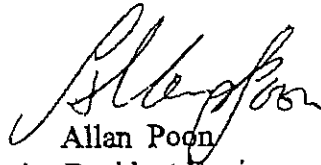
Shatin New Town Stage II  
Contract No. ST86/2000  
Construction of Road T7 in Ma On Shan  
**Environmental Complaint EC-61**  
**Complaint of Ponding Water**

I attach for your attention a copy of a fax of 30 May 2003 from PM/NTE attaching a complaint letter from a STDC member, Mr. Wong Kwok Hung, regarding ponding water within the Site.

I would be grateful if you would take remedial action immediately and give me your proposal for long term mitigation measures on or before 6 June 2003, so that I can reply to PM/NTE.

Arup Acoustics		Job No.	23156
Master Ref.		File No.	
Reply Ref.	Project Ref.		Date
Action Required:			
Received - 2 JUN 2003			
Initi.	ST	TC	Ray
Action			
Info.	ST an		
Copy			

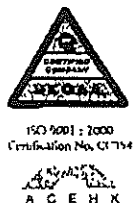
Yours faithfully,

  
Allan Poon  
Senior Resident Engineer

AP:li

Encl.

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







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 : 3 June 2003  
Your Ref: T7/(ST86/2000)/ M05/412(0193)  
Our Ref.: T7/01.01/O/07182

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

Attention: Mr. Albert Lam- CRE

Dear Sir,

**Contract No. ST86/2000**  
**Sha Tin New Town, Stage II**  
**Construction of Road T7 in Ma On Shan**  
**Environmental Complaint EC-61 – Complaint of ponding water**

Arup Acoustics		Job No. 23156	
Master Ref.:	Project Ref.:	Date:	
Reply Ref.:	By:		
Action Required:			
Received 12 JUN 2003			
Initis.	BT	TC	Ray
Action	ST	AL	RC
Info.			
Copy			

We refer to your letter dated 2 June 2003 regarding the captioned complaint involving the ponding water at the footing of noise barrier NB3 near Kam Ying Court.

We have carried out an inspection with your SLOW, Mr. H C Li near the area and located the water ponding places. The ponding water was mainly came from the seepage of ground water behind the foundation wall of the noise barrier which was actually flowing. There was no sign of mosquito breeding. The ponding area was immediately filled up with crushed rocks and backfilling works were also started as a kind of preventive measures to avoid stagnant water and expected to be completed within 2 weeks.

We would also want to emphasize our strong efforts in prevention of stagnant water occurred in our construction site. Weekly site inspection has been jointly carried out with your site staff to eliminate mosquito larvae and remove ponding water. Enclosed please find a photos showing our operatives sprayed pesticide at the noise barrier NB3 footing near Kam Ying Court on 19 May 2003 for your record.

Enclosed please also find the photos of the corrective measures carried out at the noise barrier NB3 for your reference.

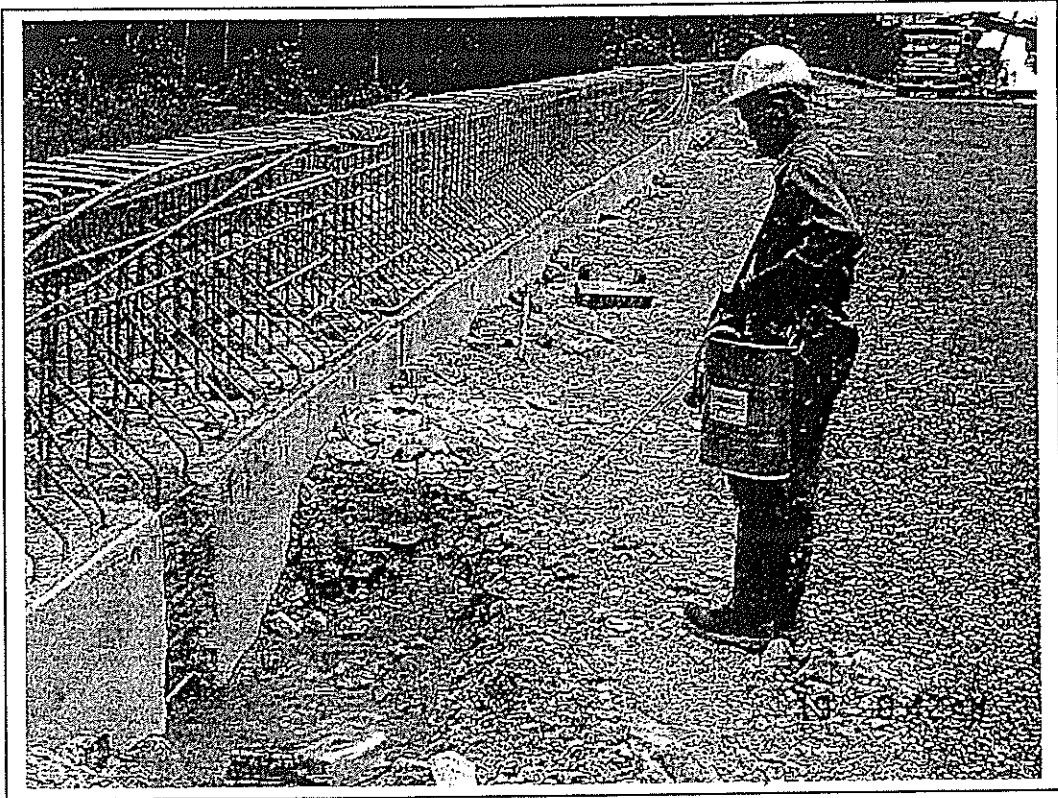
Thank you very much for your kind attention.

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

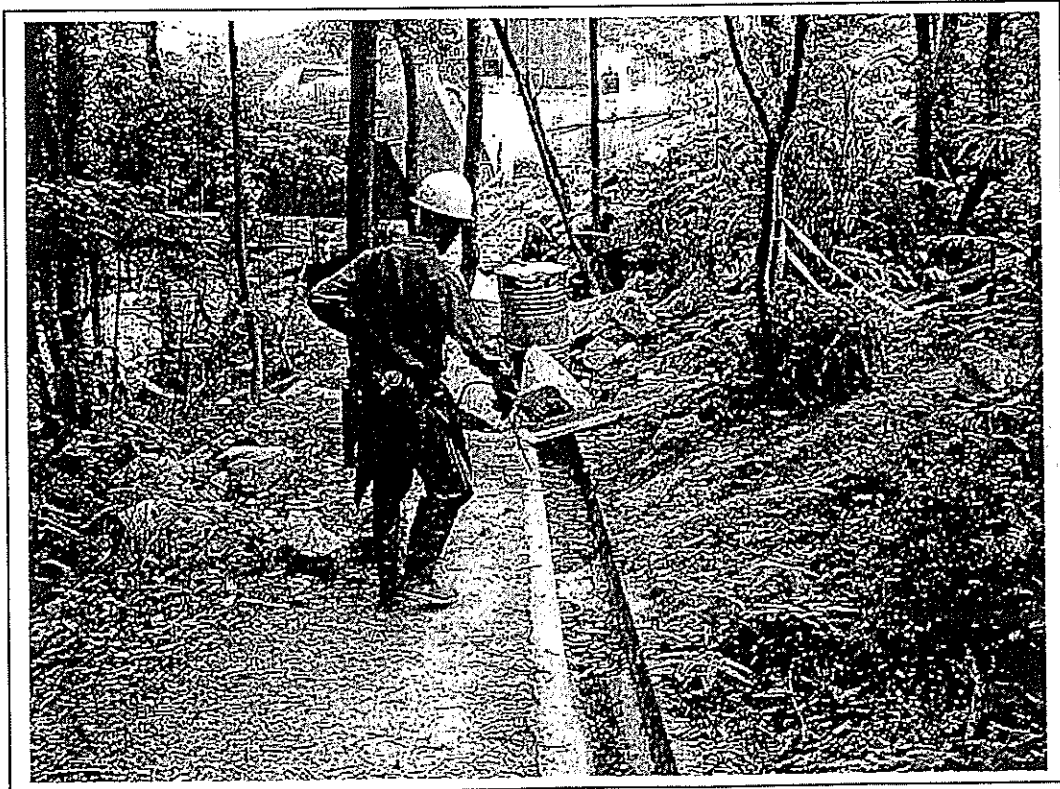
Chan Man  
Project Manager  
CM/CL/TH/GT/fc  
Encl.

c.c. TDD- Mr. Fred Au  
OAP- Mr. Thomas Chan (F: 2268 3950)  
MCAL – H.O.  
CHEC – H.O.

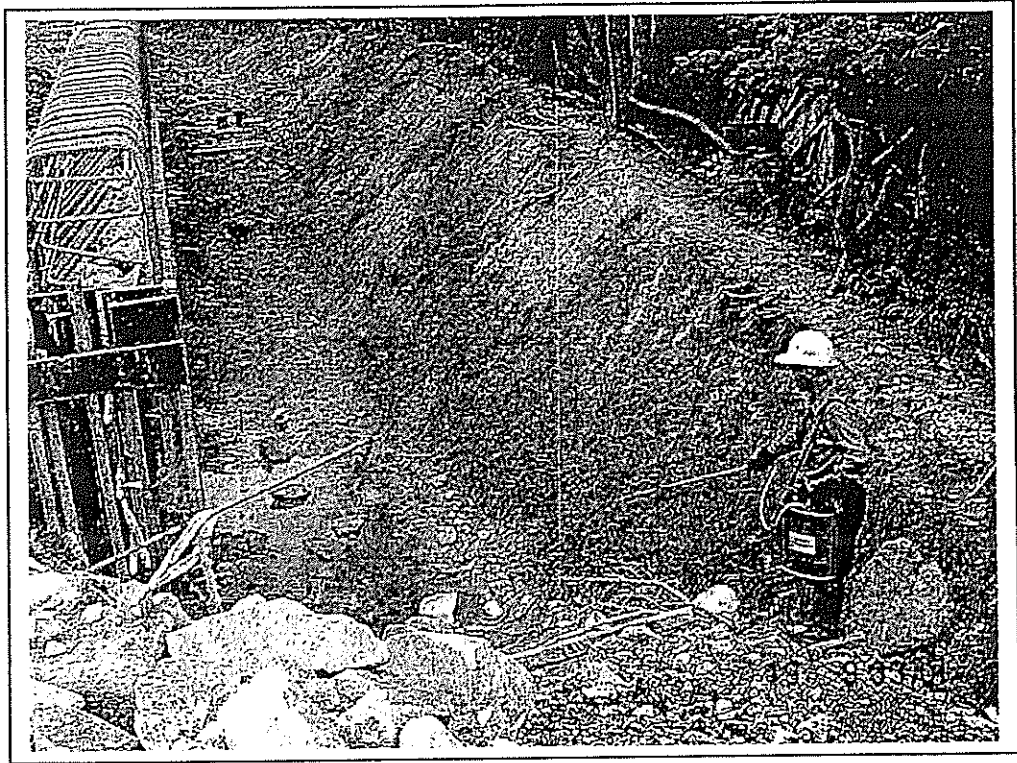
Photos



Our labour spraying pesticide near Kam Ying Court as part of the mosquito control activities done on 19 May 2003

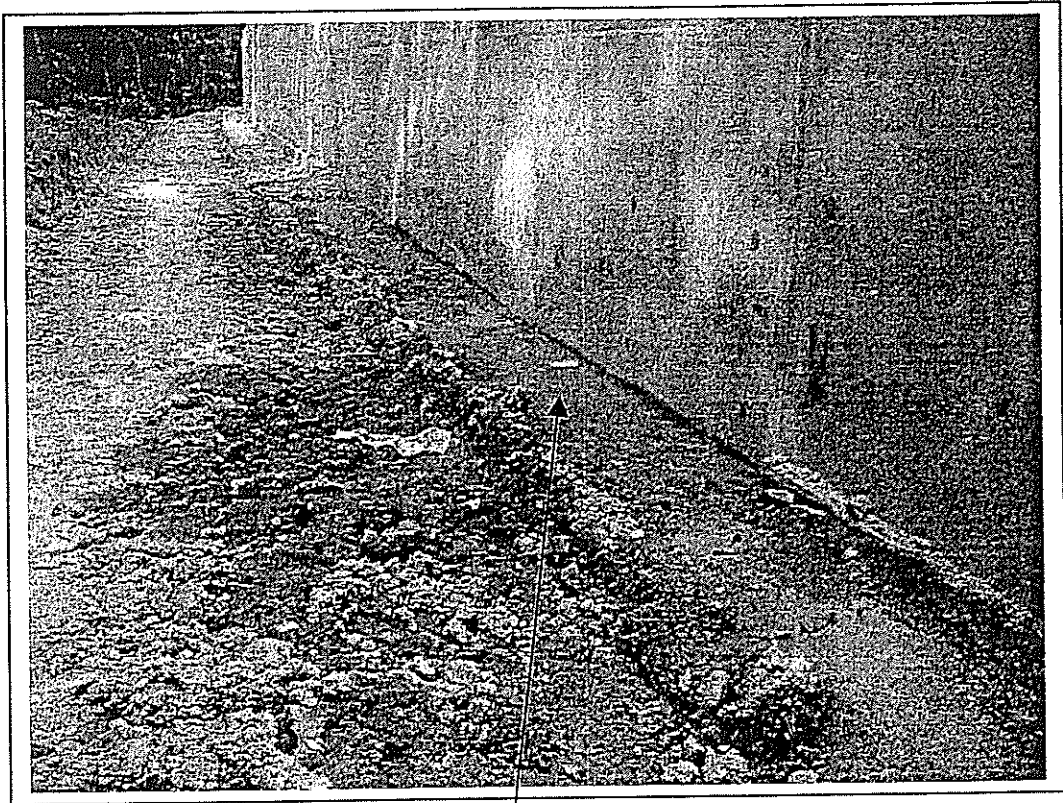


## Photos

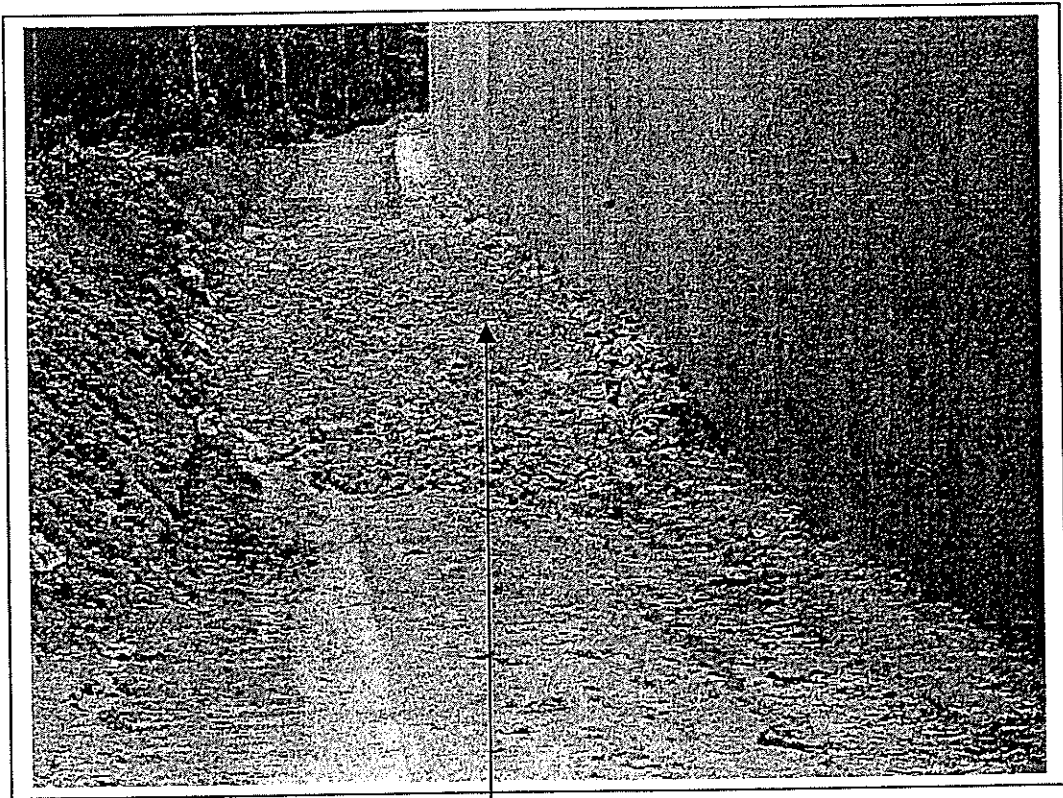


Our labour spraying pesticide at the water came from the seepage of ground water behind the foundation wall of the noise barrier in which water could not be pumped out completely and immediately on 19 May 2003

## Photos



Ponding water was observed on 30 May 2003

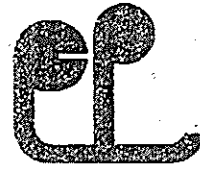


The ponding area was rock-filled on 30 May 2003 and later earth-filled to prevent ponding water occurred again

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

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

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



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

16 June 2003

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

(Attn: Mr Sam Tsoi)

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

Dear Sir,

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

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

Enclosed please find particulars of a public complaint made on the date shown in the enclosure. The Environmental Team and all relevant parties in the c.c. list below should take actions to rectify the situation. Please arrange daytime and nighttime noise monitoring for the construction site of the captioned project near Monte Vista and report the outcome of the action to us within 2 weeks.

ARUP Acoustics	Job No. 23156	
Project Ref.	File No.	
Date	Date	
Received: 17 JUN 2003		
ST	TL	King
ST	TL	RK

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. Albert Lam	Fax.: 2643 3559)
	CHEC	(Attn: Mr. Chan Man	Fax.: 2492 3701)

**NOTICE OF COMPLAINT**

Complaint Ref: N01/TN/00006721-03

EPIC Ref:

**CASE DETAILS**

(1) Incident Date/Time: 09/06/2003

(2) Incident Location: Monte Vista 地址:  
SHA TIN

(3) TPU: 757

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

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

(8) Priority class: B - Urgent i.e. substantive reply to be made on or before 23/06/2003

**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

**COMPLAINT CASE(S) NEAR INCIDENT LOCATION**

<u>Complaint Ref.</u>	<u>Cnt. Received Date</u>	<u>Sub. Reply Date</u>	<u>Nature Code</u>	<u>Nature Description</u>
N01/TN/0000			N66	General construction noise except renovation

**COMPLAINANT**

(1) Name: ANONYMOUS

姓名: 匿名

(2) Tel. No.: Day:

Night:

Mobile:

(3) Address: 地址:

(4) Email Address:

**CHANNEL OF COMPLAINT**

Source channel: 02 - Letter

Source code:

Remarks:

**ACTION OFFICERS**

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

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

**INFORMATION INPUTTED BY**

Name: TNTELE

Date: 09/06/2003

Time: 14:28



# 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 : 24 June 2003  
Our Ref.: T7/02.03/O/06305

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

Attention: Mr. Jack Kan - EPO

Dear Sir,

**Contract No. ST86/2000**  
**Sha Tin New Town, Stage II**  
**Construction of Road T7 in Ma On Shan**  
Environmental Complaint – Noise complaint from resident of Monte Vista

We refer to your letter dated 16 June 2003 regarding to the captioned complaint.

For your information, noise measurements have been conducted by the environmental team on 10 June 2003 at the roof top of Block 15 of Monte Vista, and the noise measurements results were summarized as below:

Monitoring Period	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
10:00 – 10:30 (daytime)	65.5	68.0	61.0
20:30 – 20:35 (nighttime)	62.5	64.0	57.5
20:35 – 20:40 (nighttime)	60.5	62.5	58.0
20:40 – 20:45 (nighttime)	61.0	63.0	58.0

All measurements results indicated that the construction noise levels are below the acceptable level. Temporary noise barriers and enclosures for construction works and our generators have already been erected before the complaint to reduce the noise nuisance arising to the public.

Enclosed please find the photos for your record.

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/M/CT  
c.c. MCAL – H.O.  
CHEC – H.O.  
TDD – Mr. Felix Yung (F: 2721 8630)  
MCAL- Mr. Albert Lam  
OAP – Mr. Thomas Chan (F: 2268 3950)

Arup Acoustics Job No. 23156  
File No.  
Master Ref.: Project Ref.: Date  
Reply Ref.:  
Action Required:

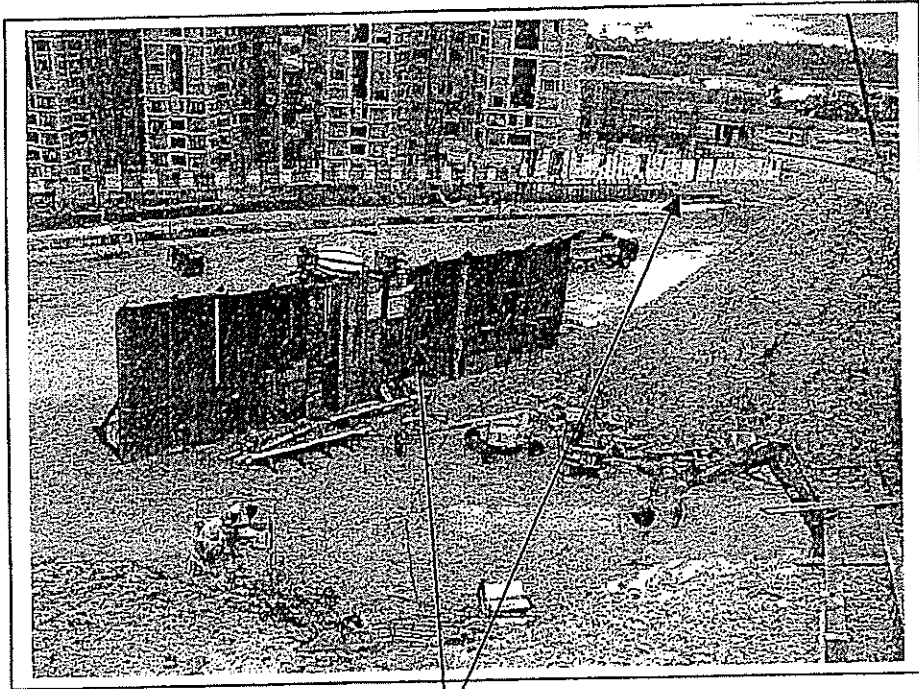
Received 26 JUN 2003

Pl in Ching ST Pz Tc Ray FL  
Inits. ST  
Action  
Info. Pz Tc  
Copy 1/1

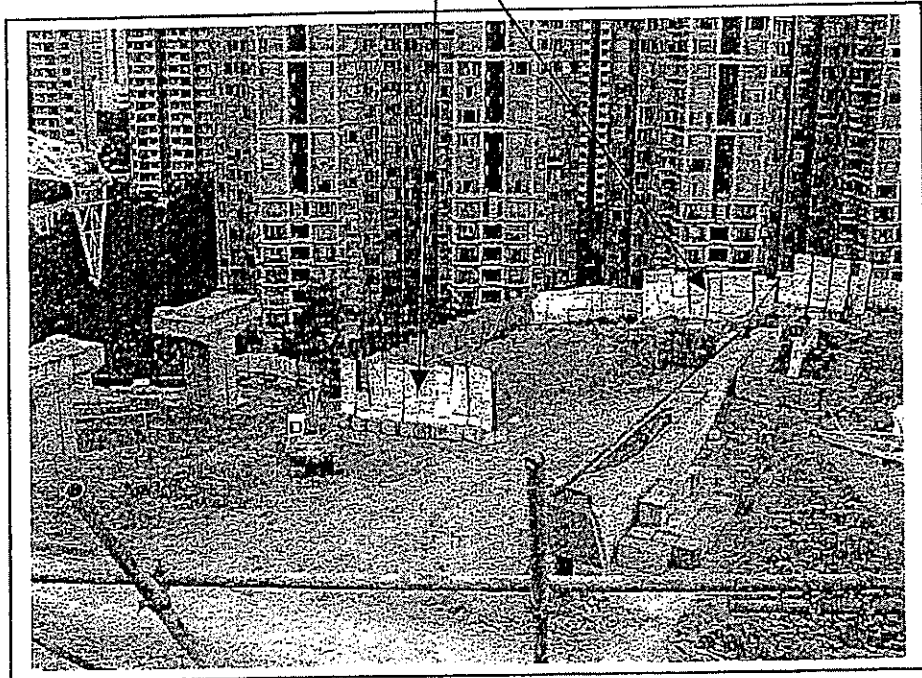
香港北角英皇道 370-374 號振華大廈 19 樓

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.checkk.com>

## Photos



Temporary noise barriers have been erected for construction works near Monte Vista





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@metvigator.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

Your Ref.: EP 580/E6/3/9  
Our Ref.: T7/(ST86/2000)/M05/412(0205)

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

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

Attn.: Mr. Jack KAN

Dear Sirs,

Shatin New Town Stage II  
Contract No. ST86/2000  
Construction of Road T7 in Ma On Shan  
**Public Complaint**

Arup Acoustics		Job No. 23156	27 June 2003	
Master Ref. W1997	Project Ref.	File No.		
Reply Ref.	Date			
Action Required:				
Received 27 JUN 2003				
RT in China				
Initials	ST	Fa	TC	Roy FL
Action		Fa	TC	FL
Info.				
Copy				

I refer to your letter of 16 June 2003, containing a complaint received on 9 June 2003 on general construction noise near Moute Vista.

In our investigation, we note that there were intensive rainfall on 9 June 2003, both in the morning and in the afternoon. (Please refer to Annex 1.) Construction activities had been fairly slow. However, measurement of construction noise had been taken on 10 June 2003. This could be taken as a representative result for similar construction activities within the same area. The finding indicated that the  $L_{eq}$  had a range between 60.5dB(A) and 65.5dB(A),  $L_{10}$  between 62.5dB(A) and 68.0dB(A) and  $L_{90}$  between 57.5dB(A) and 61.0dB(A). (Please refer to Annex 2.) In view of the noise level of construction work being far below the limit level of 75dB(A), this complaint cannot be substantiated nor established.

However, please note that the contractor for this Contract has taken additional mitigation measures by erecting temporary noise barriers. It appears that attempts have been made to reduce the noise nuisance as much as possible.

Yours faithfully,

  
Allan Poon  
Senior Resident Engineer

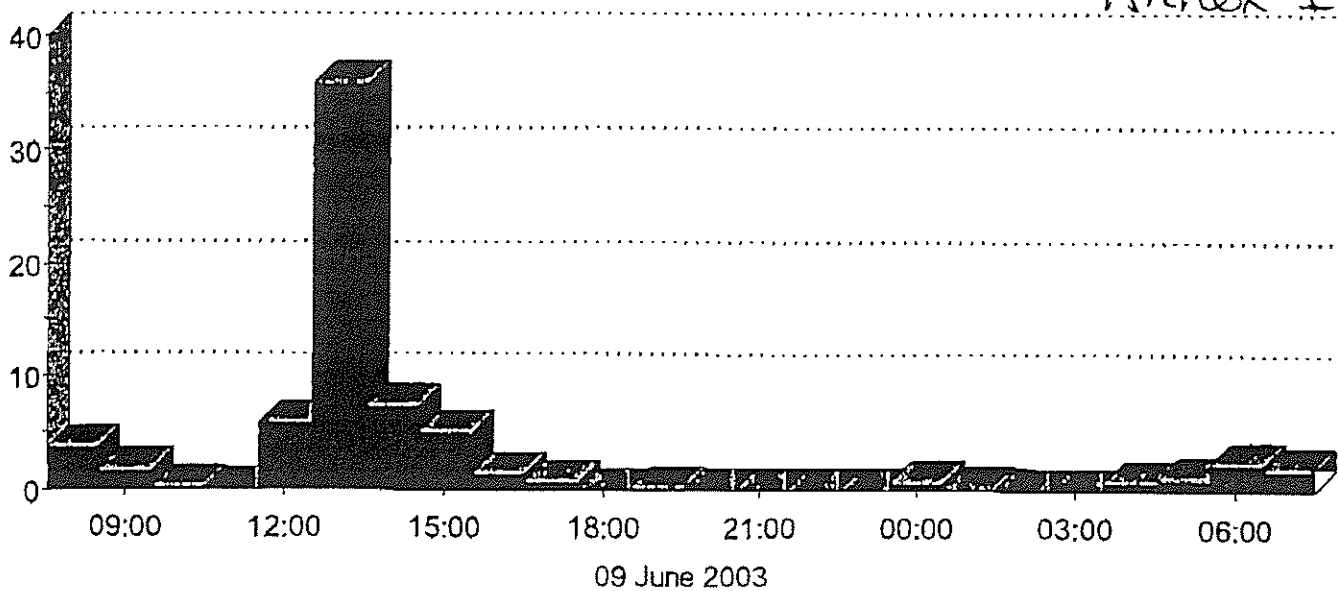
AP:sci  
cc : PM/NTE (Attn.: Mr. Felix Yung)  
OAP (Attn.: Mr. Thomas Chan)  
SIOWI

CHAIRMAN: F S YUONG, MANAGING DIRECTOR: D S LO, EXECUTIVE DIRECTORS: R J CARRETT, P C N YIM, R O TAYLOR, M K C LAI, D C S LEE, J I ENDICOTT, C W Y WUNG, L K H CHAN, F H Y NG, A K W LI, M C FEARSON, S A ROBINSON, K Y WONG, F S K TAN, K L WONG, S H H SHAM, H C PANG, D S SUI, A Y KWOK, CONSULTANTS: A HAMILTON, P K I LEUNG, J C M CHIM  
ASSOCIATES: L S LEE, P K YUNG, A S POON, P C ANSON, C A JOHNSON, W K H CHAN, C H T SO, J Y LING, C F WONG, T K S TANG, F S C MA, K K I TSANG, R J MICHELL  
OFFICES: AUSTRALIA, CANADA, CHINA, DENMARK, EGYPT, QATAR, GREECE, HONG KONG, INDIA, INDONESIA, IRELAND, ISRAEL, MALAYSIA, NETHERLANDS, OMAN, PHILIPPINES, POLAND, PUERTO RICO, ROMANIA, QATAR, SINGAPORE, SOUTH KOREA, THAILAND, UNITED ARAB EMIRATES, UNITED KINGDOM, UNITED STATES OF AMERICA, VIETNAM  
MAUNSELL GROUP - HONG KONG / CHINA / SINGAPORE (CHIEF EXECUTIVE: F C K SHUM)



Rainfall / mm

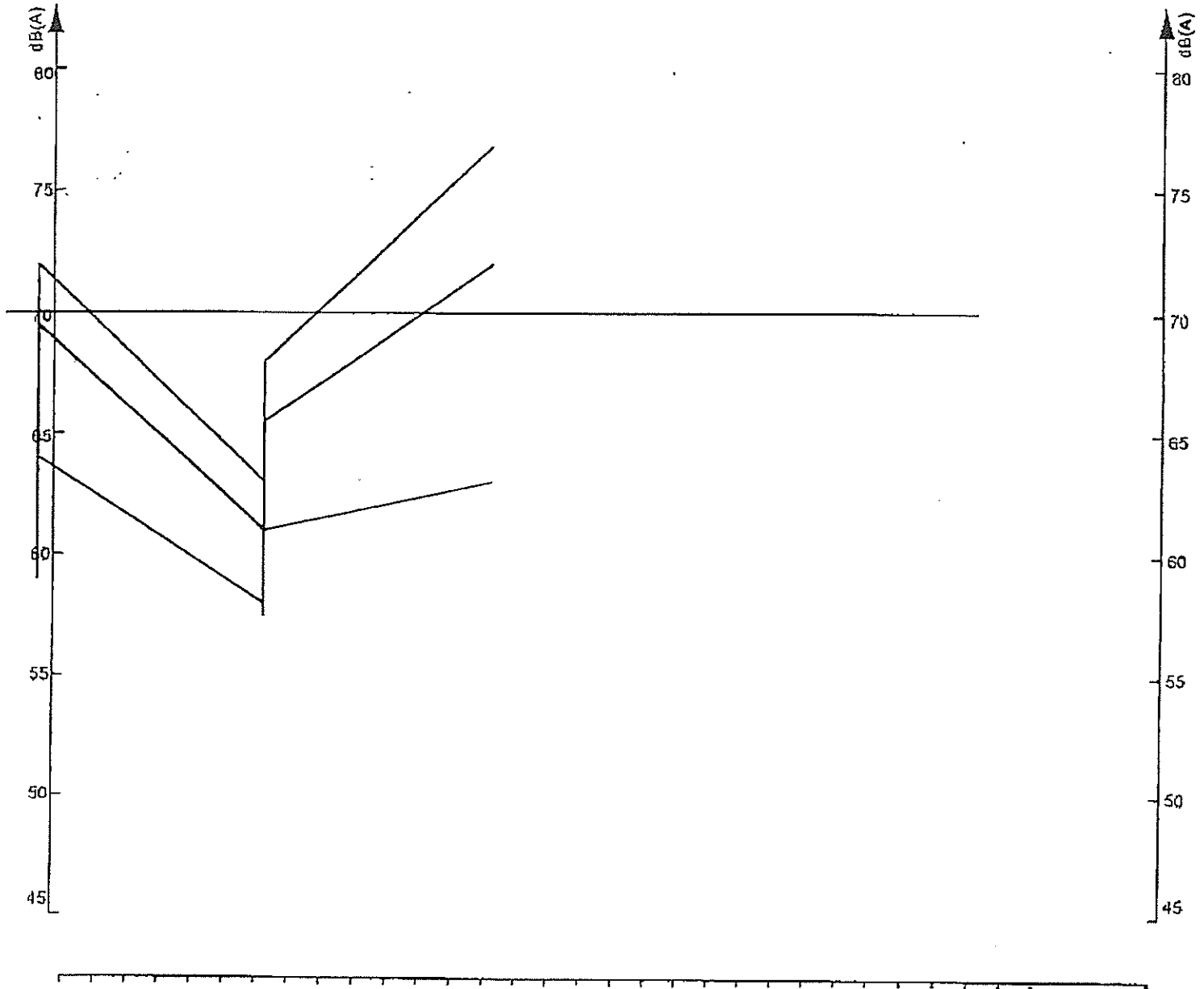
Annex 1



The Noise Data from 1-Jun-2003 To 1-Jul-2003 at  
Roof of Block 15, Monte Vista

Annex 2

Leq - Black, L10 - Red, L90 - Blue



3/6	3/6	3/6	3/6		10/6	10/6	10/6	10/6		17/6		Date
2003	2003	2003	2003		2003	2003	2003	2003		2003		Year

Date	Start time	Finish time	Leq,dB(A)	L10,dB(A)	L90,dB(A)
3-Jun-2003	PM 07:10:00	PM 07:15:00	61.5	63.0	59.0
3-Jun-2003	PM 07:05:00	PM 07:10:00	62.0	64.5	60.0
3-Jun-2003	PM 07:00:00	PM 07:05:00	64.0	66.0	60.5
3-Jun-2003	PM 03:25:00	PM 03:55:00	69.5	72.0	64.0
10-Jun-2003	PM 08:40:00	PM 08:45:00	61.0	63.0	58.0
10-Jun-2003	PM 08:35:00	PM 08:40:00	60.5	62.5	58.0
10-Jun-2003	PM 08:30:00	PM 08:35:00	62.5	64.0	57.5
10-Jun-2003	AM 10:00:00	AM 10:30:00	65.5	68.0	61.0
17-Jun-2003	AM 10:35:00	AM 11:05:00	72.0	76.8	63.0

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@nctvigator.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(0203)

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

23156

Arup Acoustics Job No. 26 June 2003  
File No.

Master Set:	Project Ref:
Reply Ref:	Date:
Action Required:	

Received 26 JUN 2003

Initials:	ST	Pz	Tc	Ray	FL
Action:		Pz	As	/	/
Info:					

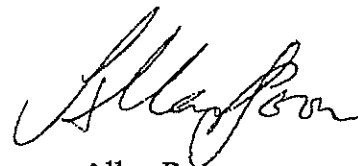
Dear Sirs,

Shatin New Town Stage II  
Contract No. ST86/2000  
Construction of Road T7 in Ma On Shan  
**Environmental Complaint EC-62**  
**Public Complaint – Construction Noise**

I attach for your attention and necessary action a copy of a letter from EPD – Ref. EP 580/E6/3/9 dated 24 June 2003, regarding a complaint of construction noise due to rock breaking in the daytime and hammering in the night time on 23<sup>rd</sup> June 2003.

Will you please give me a response before 4 July 2003.

Yours faithfully,



Allan Poon  
Senior Resident Engineer

AP:jt

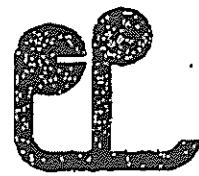
Encl.

cc : MCAL (w/e)  
OAP – w/e (by fax only)  
SIOWI – w/e ( note : please investigate )  
CHEC – HO (w/e)



來函格式  
 YOUR REF:  
 電話  
 TEL. NO.:  
 圖文傳真 2158 5823  
 FAX NO.: 2685 1155  
 電子郵件  
 E-MAIL:  
 網址  
 Homepage: <http://www.info.gov.hk/eod/>

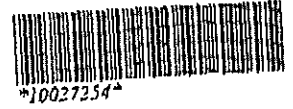
Local Control Office/ Territory North  
 10/F, Sha Tin Government Offices,  
 No. 1 Sheung Wo Che Road,  
 Sha Tin, New Territories.  
 Hong Kong.



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

24 June 2003

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



(Attn: Mr. Sam Tsoi)

By Fax Only  
 (Fax : 2865 6495)  
 Total 2 pages

Dear Sir,

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

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

Enclosed please find particulars of a public complaint made on the date shown in the enclosure. The Environmental Team and all relevant parties in the c.c. list below should take actions to rectify the situation. Please arrange daytime and nighttime noise monitoring for the construction site of the captioned project near Block 3 of Monte Vista and report the outcome of the action to us within 2 weeks.

Contract No. ST86/2000		
IN   Trunk Road T7		
File No.: M 06/412 (202)		
Recd: 24 JUN 2003		
MGAL. RES	MI	C
CRE 42		
SEE 1	I	✓
SEE 2	I	
SLB	LS	
RR	2	I
RE		
QS		
ARE		
ARE		
SHOW 1	I	✓
SHOW 2		
JOW		
STOC		
Rep		

to CHCC/NEPD  
 on 24/6/03

Yours faithfully,

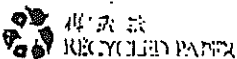
( Jack KAN )  
 Environmental Protection Officer  
 for Director of Environmental Protection

Encl.

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

(Attn: Mr. George Mak  
 Attn: Mr. Albert Lam  
 Attn: Mr. Chan Man

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



# NOTICE OF COMPLAINT

Complaint Ref.: N01/TN/00007793-03

EPIC Ref:

### CASE DETAILS

(1) Incident Date/Time: 23/06/2003

(2) Incident Location: Monte Vista,  
SHA TIN

地址:

(3) TPU: 757

(4) Description: COMPLAINT OF DAYTIME & NIGHTTIME CONSTRUCTION NOISE FROM T7 CONSTRUCTION SITE NEAR BLOCK 3 OF MONTE VISTA, SHA TIN

(5) Nature	(6) Affected Party	(7) Pollution Pattern
N66-General construction noise except renovation	DMS-Domestic Premises	C-Continuous, W-Whole Time, A-Daily

(8) Priority class: C - Routine

i.e. substantive reply to be made on or before 15/07/2003

### 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

### COMPLAINT CASE(S) NEAR INCIDENT LOCATION

Complaint Ref.	Cpt. Received Date	Sub. Reply Date	Nature Code	Nature Description
N01/TN/0000.			N66	
N01/TN/0000.			N66	
N01/TN/0000.			N66	

### COMPLAINANT

(1) Name:

(2) Tel. No.: Day:

Night:

Mobile:

(3) Address:

地址:

(4) Email Address:

投訴 (1) 日間打石時發出巨響

(2) 晚間 7 時至 11 時進行

敲擊木板及金屬、及從  
高處拋下木板，發出巨  
響

### CHANNEL OF COMPLAINT

Source channel: 01 - Phone

Source code: P - Public

Remarks:

### ACTION OFFICERS

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

### INFORMATION INPUTTED BY

Name:

INTELE

Date:

23/06/2003

Time:

16:09



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 June 2003  
Your Ref: T7/(ST86/2000)/ M05/412(0203)  
Our Ref.: T7/01.01/O/07431

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

Attention: Mr. Albert Lam - CRE

Dear Sir,

Contract No. ST86/2000  
Sha Tin New Town, Stage II  
Construction of Road T7 in Ma On Shan  
Environmental Complaint EC62 – Daytime and nighttime construction noise complaint near Block 3 of Monte Vista

ARUP Acoustics		23156		
Master Ref.	EC62	Project Ref.		
Reply Ref.		Date		
Action Required:				
Received - 4 JUL 2003				
Init.	ST	TC	Rny	FL
Action	ST	AL	/	/
Info				
Copy				

We refer to your letter dated 26 June 2003 regarding to the captioned complaint.

The noise complaint, which involved: -

A) Noise generated from the rock breaking activity at daytime-

Noise measurements have been conducted on 14:30 of 23 June 2003 at the rooftop of Block 1 of Monte Vista during which rock breaking activity was in progress. The  $L_{eq}$  measured was 71.6 dB (A) which indicated that the construction noise levels are below the acceptable level. We have already carried out all the possible noise mitigation measures to reduce the noise generated from rock breaking, including the erection of temporary noise barriers;

B) Noise generated from hammering and handling of wooden boards and steel materials at nighttime-

For your information, our construction works would not involve the throwing of wooden boards from height and our site staff would not allow our labours to carry out that kind of works for the sake of safety. We would restrict our site workers to carry out the hammering of wooden boards and steel materials at the restricted hours in order to reduce the nuisance arising to the public. We would make appropriate arrangement for construction works after 19:00 in order to mitigate any nuisance to the public as practical as possible.

Enclosed please find the photos for your record.

.../2



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.

Page 2

Date : 30 June 2003

Your Ref: T7/(ST86/2000)/ M05/412(0203)

Our Ref.: T7/01.01/O/07431

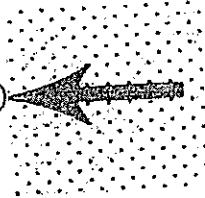
Thank you very much for your kind attention.

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

Chan Man  
Project Manager

CM/CL/EP/OT/IC

c.c. MCAL – H.O.  
CHEC – H.O.  
TDD – Mr. Felix Yung (F: 2721 8630)  
EPD- Mr. Jack Kan (F:2685 1155)  
OAP – Mr. Thomas Chan (F: 2268 3950)  
WW, KCW



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.

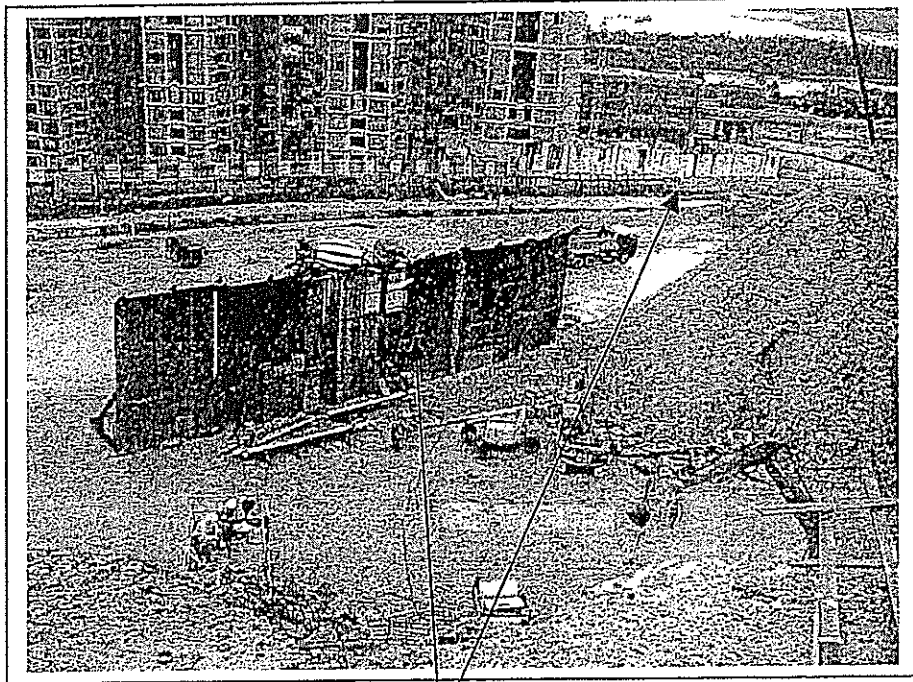
Tel: (852) 2887 8118

Fax: (852) 2512 0427

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



Photos



Temporary noise barriers have been erected for construction works near Monte Vista



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

o/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

E-mail : t7cso@netvigator.com

Your Ref.: EP 580/E6/3/9  
Our Ref. : T7(ST86/2000)/M05/412(0212)

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.

Attn: Mr. Jack KAN

23/6/11 July 2003

4666 - [unclear] **By Fax Only**  
(Fax: 2685 1155)

Received 1 JUL 2003

ST FL PV  
ST / RK

Dear Sirs,

Sha Tin New Town Stage II  
Contract No. ST86/2000  
Construction of Road T7 in Ma On Shan  
**Public Complaint – EC-62**

I refer to your letter of 24 June 2003, attached with a Public Complaint of 23 June 2003 regarding daytime and nighttime construction noise near Block 3 of Monte Vista.

I have the following responses:

- 1) Noise generated from rock breaking activity at daytime -  
Noise measurements had been taken at 2:30pm on 23 June 2003 on the rooftop of Block 1 of Monte Vista when rock breaking activity was in progress. The Leq was recorded to be 71.6 dB(A), which was below the limit level of 75dB(A). It was therefore considered that no further action was required. However, the Contractor had willingly erected a row of temporary noise barrier near Monte Vista. At the same time, the Contractor engaged another rock breaker of silent type to work in the vicinity of Monte Vista in order not to irritate the complainant.
- 2) Noise generated from hammering and handling of wooden boards and steel materials at nighttime -  
The Contractor had been working between 7pm to 11pm near Monte Vista under a Noise Permit. It appeared that the work carried out on 23 June 2003 would not involve removal of formwork causing timber boards falling on the ground by accident. However, the Contractor would restrict his workers from hammering at nighttime in order to reduce the nuisance to the public. The Contractor had also indicated that he would re-organise his work so that the amount of night work could be reduced as much as possible.

....P.2



ISO 9001:2000  
Certification No. CC354

- 2 -

I trust the above responses are acceptable to you.

Yours faithfully,



Allan Foon

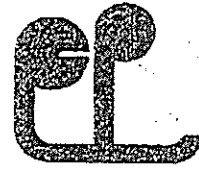
Senior Resident Engineer

AP:li

cc : PM/NTE, TDD - Attn: Mr. Felix Yung  
OAP - Attn: Mr. Thomas Chan  
SLOW  
CHEC - HO

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

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



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

25 June 2003

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

(Attn: Mr. Sam Tsoi)

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

Dear Sir,

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

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

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

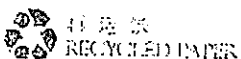
Arup Action No.	23156
Master Ref.	23156
Reply Ref.	
Action Required	
Received	26 JUN 2003
Initialed	ST TC Poy FL
Action	
Info	
Copy	

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. Albert Lam	Fax.: 2643 3559)
	CHEC	(Attn: Mr. Chan Man	Fax.: 2492 3701)



**NOTICE OF COMPLAINT**

Complaint Ref. : N01/TN/00007733-03

EPIC Ref:

**CASE DETAILS**

(1) Incident Date/Time: 23/06/2003 10:09

(2) Incident Location : SHA TIN 地址 :

(3) TPU : 757

(4) Description : COMPLAINT OF GENERAL CONSTRUCTION NOISE WITHOUT PERMITTED HOURS & DUST FROM MONTE VISTA BLOCK 1, SHA TIN

(5) Nature	(6) Affected Party	(7) Pollution Pattern
N66-General construction noise except renovation	DMS-Domestic Premises	
A42-Construction dust	DMS-Domestic Premises	

(8) Priority class : C - Routine i.e. substantive reply to be made on or before 15/07/2003

**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

**COMPLAINT CASE(S) NEAR INCIDENT LOCATION**

<u>Complaint Ref.</u>	<u>Cpt. Received Date</u>	<u>Sub. Reply Date</u>	<u>Nature Code</u>	<u>Nature Description</u>
N01/TN/000...			N66	
N01/TN/000...			N66	
N01/TN/000...			A49	

**COMPLAINANT**

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

(3) Address : 地址 :

(4) Email Address :

*After clarified with the complainant, the complainant was concerned on nighttime construction noise and construction dust emission from <sup>T7</sup> construction site near Block 1 and 2 of Monte Vista.*

**CHANNEL OF COMPLAINT**

Source channel: 01 - Phone

Source code : P - Public

Remarks : 查詢環保署為何批准地盤在晚上7時後進行工程

**ACTION OFFICERS**

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

**INFORMATION INPUTED BY**

Name : TNTELE Date : 23/06/2003 Time : 10:31

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(0209)

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

Arup Acoustics		23156		
Master Ref: 1604	Project Ref: 2-July	2003		
Reply Ref:	Date			
Action Required:				
Received - 2 JUL 2003				
Initia	BT	TC	Boz	FL
Action				
Info	BT	TC		
Com				

Dear Sirs,

Shatin New Town Stage II  
Contract No. ST86/2000  
Construction of Road T7 in Ma On Shan  
Environmental Complaint EC-63  
Public Complaint - Nighttime Construction Noise and Dust Emission

I attach for your attention and necessary action a copy of a letter from EPD - Ref. EP 580/E6/3/9 dated 25 June 2003, regarding a complaint of nighttime construction noise outside permitted hours and dust emission from T7 construction site near Blocks 1 and 2 of Monte Vista on 23 June 2003.

Will you please give me a response before 9 July 2003.

Yours faithfully,

Allan Poon  
Senior Resident Engineer

AP:jt

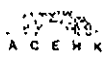
Encl.

- cc : MCAL (w/e)
- OAP - w/c (by fax only)
- SIOW 1 - w/e ( note : please investigate )
- CHEC - HO (w/e)

CHAIRMAN : T S Y BONG, MANAGING DIRECTOR : D S LO, EXECUTIVE DIRECTORS : A J GARRETT, P C N YIM, R D TAYLOR, M X CLAI, D C S IFE, I J ENDICOTT, L W F WONG, I K H CHAN, F H Y NG, A X W H I, M C PEARSON, S A ROBINSON, K Y WONG, F S K YAN, K L WONG, S H R EHAM, H C PANG, U S S LU, A Y KWOK. CONSULTANTS : A HAMILTON, P K I LLUNG, J L M CHIM. ASSOCIATES : L S LEE, P K YUNG, A S PLOON, P C ANSON, C A JOHNSON, W K H CHAN, C H T SO, J Y LING, C L W NG, I K S IANG, E S C MA, X K H TSANG, B J MICKELL. OFFICES : AUSTRALIA, CANADA, CHINA, DENMARK, EGYPT, GAZA, GREECE, HONG KONG, INDIA, INDONESIA, IRELAND, ISRAEL, MALAYSIA, NETHERLANDS, OMAN, PHILIPPINES, POLAND, PUERTO RICO, ROMANIA, QATAR, SINGAPORE, SOUTH KOREA, THAILAND, UNITED ARAB EMIRATES, UNITED KINGDOM, UNITED STATES OF AMERICA, VIETNAM. MAUNSELL GROUP - HONG KONG / CHINA / SINGAPORE CHIEF EXECUTIVE: Y C K SIU



ISO 9001:2000  
Certification No. CC35\*



AN AECOM COMPANY

來函編號  
YOUR REF:  
電話號碼  
TEL NO.: 2158 5823  
圖文傳真  
FAX NO.: 2685 1155  
電子郵件  
E-MAIL:  
網址  
Homepage: <http://www.info.gov.hk/epd/>

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



(新界北)  
香港新界沙田  
上禾輦路一號  
沙田政府合署 10 樓

25 June 2003

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



(Attn: Mr. Sam Tsoi)

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

Dear Sir,

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

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

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

Construction File No: *MS/412 (020)*  
Date: *26 JUN 2003*  
MICAL ROS: *MA 0*  
CRB: *(initials)*  
SRE: *(initials)*  
S/S: *(initials)*  
LS: *(initials)*  
KF: *(initials)*  
I AGES: *(initials)*  
I MOIF: *(initials)*  
AICI: *(initials)*  
SIO: *(initials)*  
Resident: *(initials)*

Yours faithfully,

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

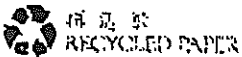
Encl.

c.c. (all w/e)

TDD  
Maunsell  
CHEC

(Attn: Mr. George Mak  
(Attn: Mr. Albert Lam  
(Attn: Mr. Chan Man

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



# NOTICE OF COMPLAINT

Complaint Ref.: N01/TN/00007733-03

EPIC Ref:

**CASE DETAILS**

(1) Incident Date/Time: 23/06/2003 10:09

(2) Incident Location: SHA TIN 地址:

(3) TPU: 757

(4) Description: COMPLAINT OF GENERAL CONSTRUCTION NOISE WITHOUT PERMITTED HOURS & DUST FROM MONTE VISTA BLOCK 1, SHA TIN

(5) Nature	(6) Affected Party	(7) Pollution Pattern
N66-General construction noise except renovation	DMS-Domestic Premises	
A42-Construction dust	DMS-Domestic Premises	

(8) Priority class: C - Routine i.e. substantive reply to be made on or before 15/07/2003

**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

**COMPLAINT CASE(S) NEAR INCIDENT LOCATION**

Complaint Ref.	Cpt. Received Date	Sub. Reply Date	Nature Code	Nature Description
N01/TN/000			N66	
N01/TN/000			N66	
N01/TN/000			A49	

**COMPLAINANT**

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

(3) Address: 地址:

(4) Email Address:

*After clarified with the complainant, the complainant was concerned on nighttime construction noise and construction dust emission from <sup>T7</sup> construction site near Block 1 and 2 of Monte Vista.*

**CHANNEL OF COMPLAINT**

Source channel: 01 - Phone

Source code: P - Public

Remarks: 查詢環保署為何批准地盤在晚上7時後進行工程

**ACTION OFFICERS**

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

**INFORMATION INPUTTED BY**

Name: TNELE

Date: 23/06/2003

Time: 10:31





# 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 : 7 July 2003  
Your Ref: T7/(ST86/2000)/M05/412(0209)  
Our Ref.: T7/01.01/O/07479

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

Attention: Mr. Albert Lam- CRE

Dear Sir,

Contract No. ST86/2000  
Construction of Road T7 in Ma On Shan  
Environmental Complaint EC63 – Complaint on nighttime construction noise and construction dust emission near Block 1 of Monte Vista

We refer to your letter dated 2 July 2003 regarding the captioned complaint.

To suit the progress of our construction works, we have obtained a Construction Noise Permit of no. GW-TN0022-2003 from EPD. According to our investigation, the powered mechanical equipments operated near Block 1 of Monte Vista on the night before the incident date at restricted hours were generator and winch, which were covered by this Construction Noise Permit.

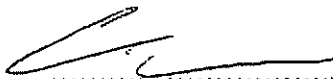
For the construction dust emission near Monte Vista, water sprayers and mist-typed sprinklers were already installed around the area for the sole purpose of dust suppression. The ET had measured the 1hr TSP level at Monte Vista and the results were shown to be below the alert level ( $350 \mu\text{g}/\text{m}^3$ ).

Start Time	Finish Time	Level ( $\mu\text{g}/\text{m}^3$ )
08:53 am	09:53 am	163.2
09:53 am	10:53 am	144.3
10:53 am	11:53 am	149.3

We would continue to keep effort in mitigating noise and dust nuisance arising to the public for our construction works.

Thank you very much for your kind attention.

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

*mp*  
  
Chan Man  
Project Manager  
CM/CL/PL/GT  
c.c. MCAL – H.O.  
CHEC – H.O.  
OAP – Mr. Thomas Chan (F: 2268 3950)  
TDD – Mr. Felix Yung (F: 2721 8630)  
EPD- Mr. Jack Kan (F: 2685 1155)

*ef bo*

Arup Acoustics

23156

Project No. ST86/2000

Client: Maunsell Consultants Asia Ltd.

Site: 7 Lok Wo Sha Lane, Ma On Shan, N.T.

Person Required: [ ]

Received - 8 JUL 2003

ST in	Jayne	EC	Ray	FL
			RE	

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

8/F, Grand Central Plaza, Tower 2  
138 Shatin Rural Committee Road  
Sha Tin, N.T., Hong Kong

香港新界沙田鄉事會路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

E-mail : r7cso@netvigator.com

Your Ref.: EP 580/E6/3/9  
Our Ref. : T7(ST86/2000)/M05/412(0213)

23156

11 July 2003

**By Fax Only**  
( Fax: 2685 1155)

Received 14 JUL 2003

Date	ST	FL	RV
Station	ST	/	RK
Subj			
Cont			

**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.

**Attn: Mr. Jack KAN**

Dear Sirs,

Shatin New Town Stage II  
Contract No. ST86/2000  
Construction of Road T7 in Ma On Shan  
**Public Complaint - EC-63**

Referring to your letter of 25 June 2003 and the Public Complaint of 23 June 2003 from a resident in Block 1 of Monte Vista, regarding general construction noise without permitted hours and dust emission, I would respond as follows:

1) General Construct Noise -

The Contractor carried out night work on 23 June 2003 under a Construction Noise Permit No. GW-TN0022-2003. A generator and an electric winch were the powered mechanical equipment being operated as permitted by the Noise Permit.

2) Dust Emission -

The Contractor has been using a number of water sprayers and mist-type sprinklers in the vicinity of Monte Vista for dust suppression. Our Environmental Team had recorded the 1 hour TSP level at Monte Vista as below.

Date	Start Time	Finish Time	Level ( $\mu\text{g}/\text{m}^3$ )
23-June-2003	8:53am	9:53am	163.2
23-June-2003	9:53am	10:53am	144.3
23-June-2003	10:53am	11:53am	149.3

As the recorded level was well below the alert level of  $350 \mu\text{g}/\text{m}^3$ , it was considered that no further mitigation measures were necessary.

CHAIRMAN : TSY BONG, MANAGING DIRECTOR : D S LO, EXECUTIVE DIRECTORS : R J GARRETT, Y C NYIM, K D TAYLOR, M X C LAI, D C S LEE, J J ENDICOTT, C W T WONG, E K H QIAN, F H Y NG, A K W LI, M C PEARSON, S A ROBINSON, K Y WONG, I S K YAN, K L WONG, S H K SIAM, H C PANG, D S S LU, A Y KWOK CONSULTANTS : A H HAMILTON, P K F FUNG, J C M CHAM. ASSOCIATES : L S I FE, P K YUNG, A S POON, P L ANSON, C A JOHNSON, W K H CHAN, C H T SO, Y Y I NG, C C W NG, T K S TANG, F S C MA, K K H ISANG, R J MICKELL. OFFICES : AUSTRALIA, CANADA, CHINA, DENMARK, EGYPT, GAZA, GREECE, HONG KONG, INDIA, INDONESIA, IRELAND, ISRAEL, MALAYSIA, NETHERLANDS, OMAN, PHILIPPINES, POLAND, PUERTO RICO, ROMANIA, QATAR, SINGAPORE, SOUTH KOREA, THAILAND, UNITED ARAB EMIRATES, UNITED KINGDOM, UNITED STATES OF AMERICA, VIETNAM. MAUNSELL GROUP : HONG KONG / CHINA / SINGAPORE CHIEF EXECUTIVE: T C K SIUUM



In view of the above findings, it appears that the complaint cannot be substantiated. However, the Contractor is willing to reduce his night work in order to minimize the nuisance to the neighbourhood.

Yours faithfully,



Allan Poon  
Senior Resident Engineer

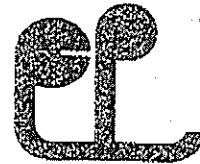
AP:li

cc : PM/NTE, TDD - Attn: Mr. Felix Yung  
OAP - Attn: Mr. Thomas Chan  
SIOW1  
CHEC - HO

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

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

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



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

27 June 2003

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

(Attn: Mr. Sam Tsoi)

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

Dear Sir,

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

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

Enclosed please find particulars of public complaints 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.

23156

Master Ref	23156	File No.	
Reply Ref		Date	
Action Required			
Received	30 JUN 2003		
init.	ST	TC	Ray
Action	ST	TC	PK
info.			
copy			

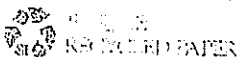
Yours faithfully,

( 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. Albert Lam	Fax.: 2643 3559)
	CHEC	(Attn: Mr. Chan Man	Fax.: 2492 3701)



**NOTICE OF COMPLAINT**

Complaint Ref. : N01/TN/00008149-03

EPIC Ref:

**CASE DETAILS**

(1) Incident Date/Time: 27/06/2003 09:43

(2) Incident Location : Lee On Estate,  
SHA TIN

地址 :

(3) TPU : 757

(4) Description : COMPLAINT OF NIGHT TIME GENERAL CONSTRUCTION NOISE FROM A SITE WHICH BUILD FLYOVER BETWEEN LEE ON ESTATE & MONTE VISTA, SHA TIN

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

(8) Priority class : C - Routine i.e. substantive reply to be made on or before 21/07/2003

**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

**COMPLAINT CASE(S) NEAR INCIDENT LOCATION**

<u>Complaint Ref.</u>	<u>Cpt. Received Date</u>	<u>Sub. Reply Date</u>	<u>Nature Code</u>	<u>Nature Description</u>
N01/TN/000C			N66	C.....
N01/TN/0000			A42	C.....
N01/TN/000C			N66	C.....
N01/TN/000C			N66	C.....

**COMPLAINANT**

(1) Name :

(2) Tel. No. : Day :

Night :

Mobilc:

(3) Address :

地址 :

(4) Email Address :

**CHANNEL OF COMPLAINT**

Source channel: 01 - Phone

Source code : P - Public

Remarks : 投訴在翠雍華庭及利安村之間的天橋工程,工人開工至00:00,發出強烈的機器聲,滋擾附近的居民,要求限進

*T7 project. According to the complainant, the noisy work was carried out at mid night on 26.6.03*

**ACTION OFFICERS**

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

**INFORMATION INPUTTED BY**

Name : HAUE3

Date : 27/06/2003

Time : 09:54

**NOTICE OF COMPLAINT**

Complaint Ref : N01/TN/00008148-03

EPIC Ref:

**CASE DETAILS**

(1) Incident Date/Time: 27/06/2003 09:44

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

地址 : 錦英苑,

(3) TPU : 757

(4) Description : COMPLAINT OF NIGHT TIME AND SUNDAY CONSTRUCTION FROM THE CONSTRUCTION SITE NEAR  
KAM LEUNG HOUSE , KAM YING COURT , SHA TIN

(5) Nature	(6) Affected Party	(7) Pollution Pattern
N66-General construction noise except renovation	DMS-Domestic Premises	C-Continuous, N-Night Time, A-Daily

(8) Priority class : C - Routine i.e. substantive reply to be made on or before 21/07/2003

**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 :

(2) Tel. No. : Day :

Night :

Mobile:

(3) Address :

地址 :

(4) Email Address :

*According to the complainant, the noisy work was carried out at mid night on 26.6.03*

**CHANNEL OF COMPLAINT**

Source channel: 01 - Phone

Source code : P - Public

Remarks : 投訴在錦良閣對出的T7公路的地盤於平日凌晨2:00及星期日早上7:00有工程進行,發出強烈的噪音,要求跟進

**ACTION OFFICERS**

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

**INFORMATION INPUTTED BY**

Name : HAUE1

Date : 27/06/2003

Time : 09:48

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

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

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

Your Ref.:  
Our Ref. : T7/(ST86/2000)/M05/412(0210)

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

Arup Acoustics		Job No.	23156	
Master Ref.		File No.		
Reply Ref.	Project Ref.	2 July 2003		
Action Required				
Received - 3 JUL 2003				
Init.	ST	TL	Ray	PL
Action				
Info	ST	M	/	/
Cost				

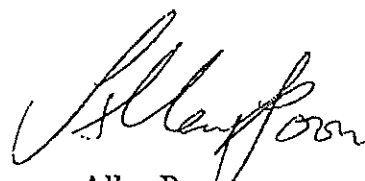
Dear Sirs,

Shatin New Town Stage II  
Contract No. ST86/2000  
Construction of Road T7 in Ma On Shan  
**Environmental Complaint EC-64**  
**Public Complaint - Construction Noise**

I attach for your attention and necessary action a copy of a letter from EPD - Rcf. EP 580/E6/3/9 dated 27 June 2003, regarding 2 complaints of construction noise due to work being carried out at mid-night near Lee On Estate and Kam Ying Court on 26 June 2003.

Will you please give me a response before 9 July 2003.

Yours faithfully,



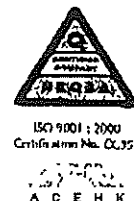
Allan Poor  
Senior Resident Engineer

AP:jt

Encl.

cc : MCAL (w/e)  
OAP - w/e (by fax only)  
SIOW 1 - w/e (note : please investigate)  
CHEC - HO (w/e)

CHAIRMAN: F S Y BONG, MANAGING DIRECTOR: D S LO, EXECUTIVE DIRECTORS: R J GARRITT, P C N YIM, R D TAYLOR, M K C LAI, D C S LEE, L J LUNDQUIST, L W I WONG, E K H CHAN, I J I Y NG, A K W U, M C PEARSON, S A ROBINSON, K Y WONG, F S K YAM, K L WONG, S H R SHAM, H C FANG, D S S LU, A Y KWOK  
ASSOCIATES: L S I FF, P K YUNG, A S H KIN, P C ANSON, C A K HNSIN, W K H CHAN, C H T SO, J Y LING, C C W NG, T K S TANG, L S C MA, K K H TSANG, R J MCKILL  
OFFICES: AUSTRALIA, CANADA, CHINA, DENMARK, EGYPT, GAZA, GREECE, HONG KONG, INDIA, INDONESIA, IRELAND, ISRAEL, MALAYSIA, NEIHERLANDS, OMAN, PHILIPPINES, POLAND, PUERTO RICO, ROMANIA, QATAR, SINGAPORE, SOUTH KOREA, THAILAND, UNITED ARAB EMIRATES, UNITED KINGDOM, UNITED STATES OF AMERICA, VIETNAM  
MAUNSELL GROUP - HONG KONG / CHINA / SINGAPORE CHIEF EXECUTIVE: T C K SIU M



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

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



香港特別行政區  
 (新界北)  
 香港新界沙田  
 上禾輋路一號  
 沙田政府合署 10 樓

27 June 2003

Contract No. ST86/2000			
IN Trunk Road T7			
File No.: M 05/412			
Recd: 27 JUN 2003			
MCAL/BSS	AI	C	
CRE			
SRB 1	A		
SRB 2	I		
SLS	LS		
RE			
RE			
QS			
ARE			
ARE			
SIGN	Dear Sir,		
FLOW			

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



(Attn: Mr. Sam Tsoi)

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

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

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

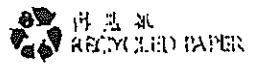
Enclosed please find particulars of public complaints made on the date shown in the enclosure. The Environmental Team and all relevant parties in the c.c. list below should take actions to rectify the situation. Please report the outcome of the action to us within 2 weeks.

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. Albert Lam)	Fax.: 2643 3559
	CHEC	(Attn: Mr. Chan Man)	Fax.: 2492 3701





# NOTICE OF COMPLAINT

Complaint Ref.: N01/TN/00008148-03

EPIC Ref:

## CASE DETAILS

(1) Incident Date/Time: 27/06/2003 09:44

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

地址: 錦英苑,

(3) TPU: 757

(4) Description: COMPLAINT OF NIGHT TIME AND SUNDAY CONSTRUCTION FROM THE CONSTRUCTION SITE NEAR  
KAM LEUNG HOUSE, KAM YING COURT, SHA TIN

(5) Nature	(6) Affected Party	(7) Pollution Pattern
N66-General construction noise except renovation	DMS-Domestic Premises	C-Continuous, N-Night Time, A-Daily

(8) Priority class: C - Routine i.c. substantive reply to be made on or before 21/07/2003

## 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:

(2) Tel. No.: Day:

Night:

Mobile:

(3) Address:

地址:

(4) Email Address:

*According to the complainant, the noisy work was carried out at mid night on 26.6.03*

## CHANNEL OF COMPLAINT

Source channel: 01 - Phone

Source code: P - Public

Remarks: 投訴在錦英閣對出的T7公路的地盤於平日凌晨2:00及星期日早上7:00有工程進行,發出強烈的噪音,要求跟進

## ACTION OFFICERS

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

## INFORMATION INPUTTED BY

Name: HAUEI

Date: 27/06/2003

Time: 09:48



# 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 : 7 July 2003  
Our Ref.: T7/01.01/O/07488

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

Attention: Mr. Albert Lam - CRE

Dear Sir,

**Contract No. ST86/2000**  
**Construction of Road T7 in Ma On Shan**  
**Environmental Complaint EC64 – Two complaints on nighttime construction noise near Lee On Estate and Kam Ying Court on 26 June 2003**

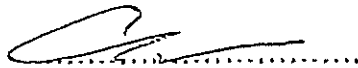
We refer to your letter dated 2 July 2003 regarding the captioned complaint.

To suit the progress of our construction works, we have obtained a Construction Noise Permit of no. GW-TN0022-2003 from EPD. According to our investigation, the Powered Mechanical Equipments (PME) operated on 26 June 2003 near Lee On Estate between 19:00- 23:00 were generator and winch, which were covered by this Construction Noise Permit. No PME was operated at mid night. After the discussion, we would schedule our works to be completed at 19:00 in order to mitigate the noise impact generated to the public, although Construction Noise Permit was granted in this case.

For the noise complaint near Kam Leung House of Kam Ying Court, we have checked that the Water Services Department has conducted the water diversion works near the area at that night, and the works were not part of T7 contract. We would also like to emphasize that no construction works would be carried out at restricted hours around the area unless Construction Noise Permit was granted by EPD.

Thank you very much for your kind attention.

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

  
Chan Man  
Project Manager  
CM/CL/PL/OT

c.c. MCAL – H.O.  
CHEC – H.O.  
OAP – Mr. Thomas Chan (F: 2268 3950)  
TDD – Mr. Felix Yung (F: 2721 8630)  
EPD - Mr. Jack Kan (F: 2685 1155)  
WW/KCW/CKL

Ampl Acoustics		23156
Master Ref: 6071	Project Ref:	Issue
Action Required:		
Received - 8 JUL 2003		
St. in	Taipei	TC
Info	Info	RK
Info	Info	FL
Info	Info	/

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

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

E-mail : t7cso@netvigator.com

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

Your Ref.: EP 580/E6/3/9  
Our Ref. : T7(ST86/2000)/M05/412(0214)

11 July 2003

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

By Fax Only  
( Fax: 2685 1155)

Attn: Mr. Jack KAN

22156

11 JUL 2003

14 JUL 2003

ST	FL	RV	
ST	/	BE	

Dear Sirs,

Shatin New Town Stage II  
Contract No. ST86/2000  
Construction of Road T7 in Ma On Shan  
**Public Complaint - EC-64**

I refer to your letter of 27 June 2003, attached with 2 Public Complaints of 27 June 2003 from residents of Kam Ying Court and Lee On Estate, regarding noisy work being carried out at mid-night of 26 June 2003.

I would advise you that the Contractor for the captioned Contract had been carrying out night work under a Construction Noise Permit No. GW-TN0022-2003. The Powered Mechanical Equipment (PME) operated on 26 June 2003 near Lee On Estate between 7 pm and 11pm were a generator and an electric winch, which were permitted by the Noise Permit. No PME was operated at midnight.

We understood that Water Supplies Department carried out water diversion work near the site of Road T7 Contract during the nighttime of 26 June 2003. We therefore would suggest you to check with WSD.

Yours faithfully,

*Allan Poon*  
Allan Poon

Senior Resident Engineer

AP:li

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

CHAIRMAN : F S Y BONG, MANAGING DIRECTOR : D S LO, EXECUTIVE DIRECTORS : R J GARRETT, P C H YIM, R D TAYLOR, M A C LAI, D C S LEE, I J LINDICHI, C W T WONG, C K H CHAN, F H Y NG, A K W LI, M C PEANSON, S A ROBINSON, K Y WONG, F S K YAN, K L WONG, S H R SHAM, H C PANG, D S S LU, A Y KWOK. CONSULTANTS : A HAMBUR, P K T FANG, I L M CHIU. ASSOCIATES : I S LEE, P K YUNG, A S POON, P C ANSON, C A JOHNSON, W K H CHAN, C H T SO, J Y LING, L C W NG, T K S TANG, C S C MA, X K H TSANG, R TIMCKELL. OFFICES : AUSTRALIA, CANADA, CHINA, DENMARK, EGYPT, GAZA, GREECE, HONG KONG, INDIA, INDONESIA, IRELAND, ISRAEL, MALAYSIA, NETHERLANDS, OMAN, PHILIPPINES, POLAND, PUERTO RICO, ROMANIA, QATAR, SINGAPORE, SOUTH KOREA, THAILAND, UNITED ARAB EMIRATES, UNITED KINGDOM, UNITED STATES OF AMERICA, VIETNAM. MAUNSELL GROUP - HONG KONG / CHINA / SINGAPORE CHIEF EXECUTIVE: T C K SIU



AN AECOM COMPANY