



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 - MAY 2004

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Report No.: 23156-42

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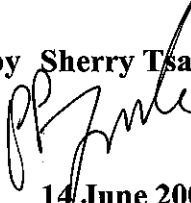
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MONTHLY EM&A REPORT - MAY 2004


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Date 14 June 2004

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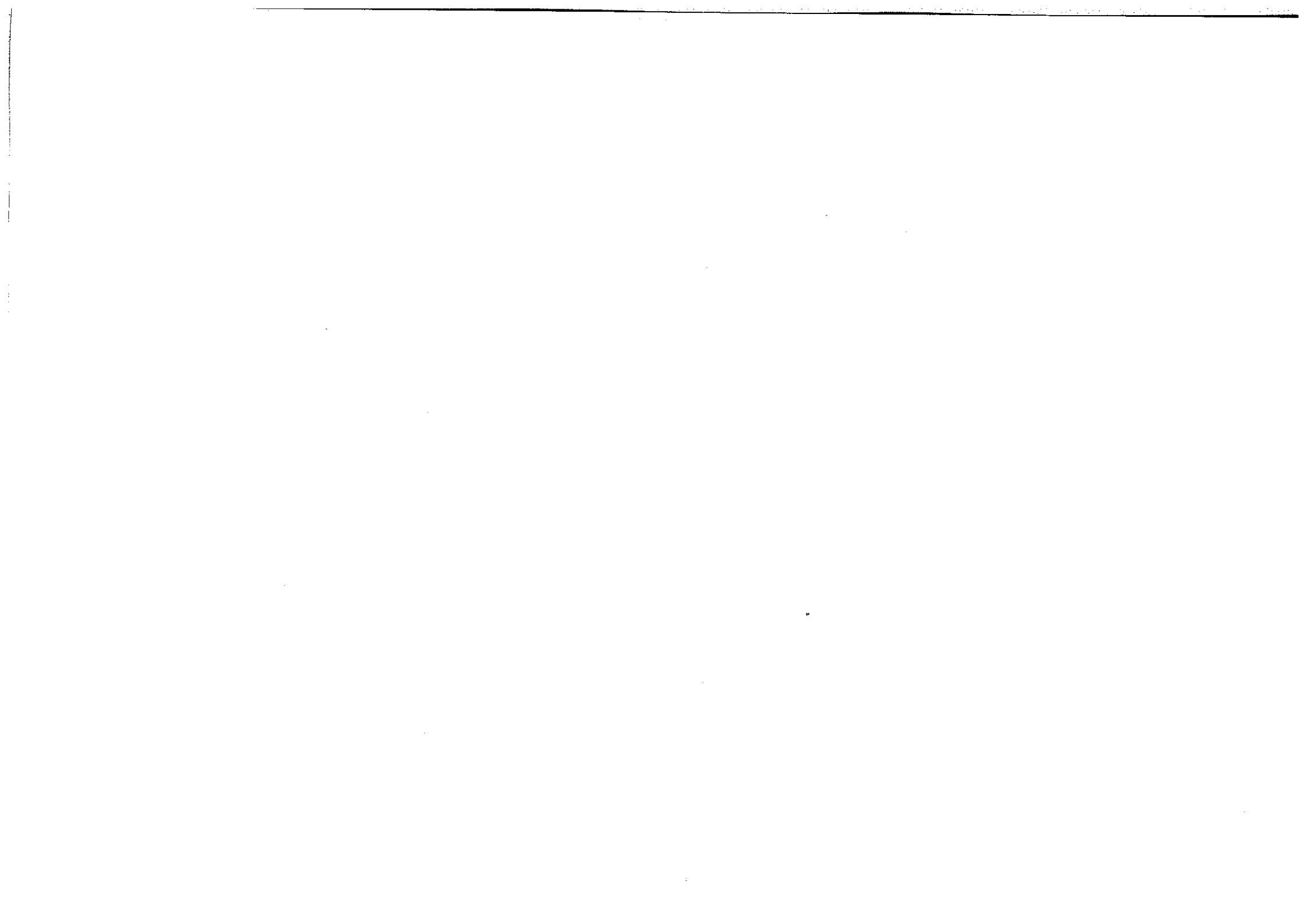
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Revision record

Revision Number	Date	Description	Prepared	Checked	Approved



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ABBREVIATIONS AND ACRONYMS

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

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EXECUTIVE SUMMARY

This monthly EM&A report presents the site inspection findings, air quality and noise impact monitoring works for the period between 1 May 2004 to 30 May 2004.

For noise monitoring, $L_{eq(30min)}$ level was recorded once a week between the period of 0700h and 1900h 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.

Five measurements were taken at each location during 0700-1900h. Five other measurements were taken at NM3, NM4, NM6 and NM8 during 1900-2300h in May 2004. The recorded noise levels were in the range between 54.6 and 69.5 dB(A) during 0700-1900h and in the range between 49.0 and 64.1 dB(A) during 1900-2300h. All measurements were below the Limit Level of 70dB(A) for NM2 and 75dB(A) for other monitoring locations during 0700-1900h and Limit Level of 70 dB(A) during 1900-2300h 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 0700h and 1900h, and 24-hour TSP was recorded once per every six days from 0000h to 2400h. 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 five 24-hour TSP monitoring were conducted at each location. The recorded 24-hour TSP levels were in the range between 16.3 and 93.5 $\mu\text{g}/\text{m}^3$ and were below the Action and Limit Levels. The HVS at AM5 was broken down on 12 May 2004, which was subsequently checked, repaired and resumed normal functioning on 3 June 2004.

A total of fifteen 1-hour TSP measurements were taken at each location. The recorded 1-hour TSP levels were in the range between 90.2 and 260.8 $\mu\text{g}/\text{m}^3$ and were below the Action and Limit Levels.

A total of four site inspections were conducted in May 2004. Key findings of the site inspections are given below:

- Open channel at Discharge Point 4 was full of stagnant water.
- Discharge Point 5 was silty and sediment was accumulated at the Channel.
- Road D22 was muddy. Contractor was recommended to clean the road surface.
- Stagnant water in sedimentation tank near Discharge Point 4 was still not discharged.
- Silt and sediment was found accumulated at Discharge Point 6 (Area right outside the site boundary).
- A big stone was found at the catch pit of Road D22. Maintenance of channel along Road D22 was in progress.

- Channel outside site boundary of Discharge Point 6 was blocked by silt and un-used sand bags.
- Slope at Discharge Point 5 was exposed. Contractor was recommended to cover the slope with tarpaulin as fast as possible.
- Waste was found accumulated at Bridge C pier 11.
- A backhoe was idling near Discharge Point 8.
- Door of a air compressor near Gate 13 was opened.
- There are totally thirteen Construction Noise Permits (CNPs) in place for this project in May 2004. Two CNPs for the construction works near Heng On Estate were issued from EPD in May 2004.
- Pest control had conducted during inspections.

The waste disposal data for May 2004 is given below:

A total of 29 loads of Construction and Demolition Waste (C&D waste) had been disposed of at NENT Landfill in May 2004. The total tonnage of the C&D waste disposal in May 2004 was 45.24 tonnes.

A total of 273 loads of rocks ($\phi > 400\text{mm}$) had been reused at the following government project sites in May 2004:

- *Contract No. ST85/2000 - Ma On Shan development phase 2 - completion contract for the construction of bridges J3 & J4 at road P8/ 8*
- *Tseung Kwan O Area 137 Public Filling Area*

The total quantity of disposed rocks was 1,951.95 m³ in May 2004.

A total of 786 loads of inert materials had been disposed of at Public Filling Area in May 2004. The total quantity of the disposed inert materials was 131 m³ in May 2004.

ET was informed by the Contractor that there was no EPD site inspection in May 2004.

A total of two public complaints regarding construction noise were received on 5 and 13 May 2004 respectively through EPD.

There was no non-compliance in the reporting month.

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

The Environmental Permit (EP), no. EP-057/2000, for the Road T7 project under the EIA Ordinance has been granted on 10 May 2000^[3]. The EM&A programme has commenced in January 2001 and is anticipated to be completed the February 2005.

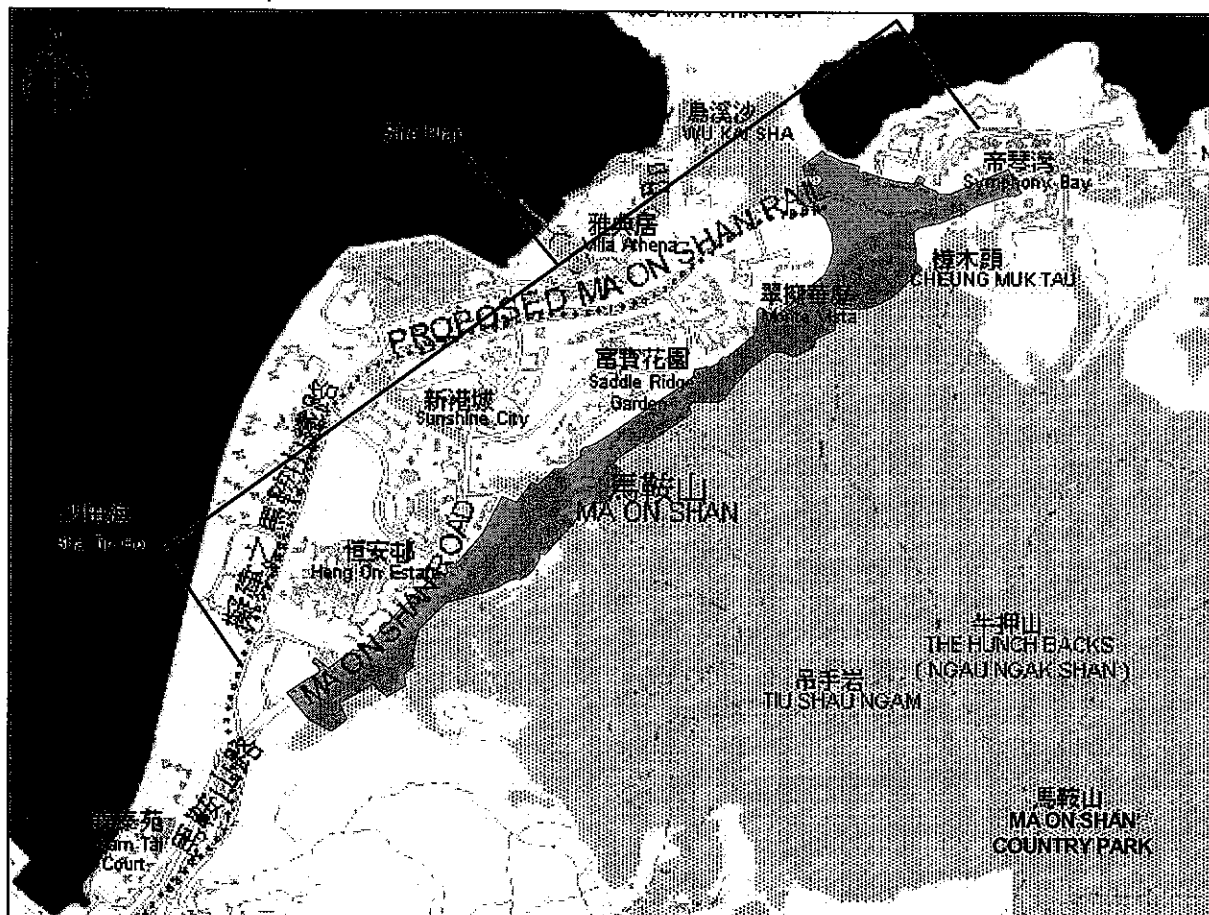
1.1 Purpose of the Report

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 forty-second 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 May 2004.

1.2 Site Description

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

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



2. ENVIRONMENTAL STATUS

2.1 Construction Activities of the Month

The main construction activities in May 2004 were slope formation, construction of Bridge D, building of drainage channel and outfalls, construction of noise barriers and landscaping.

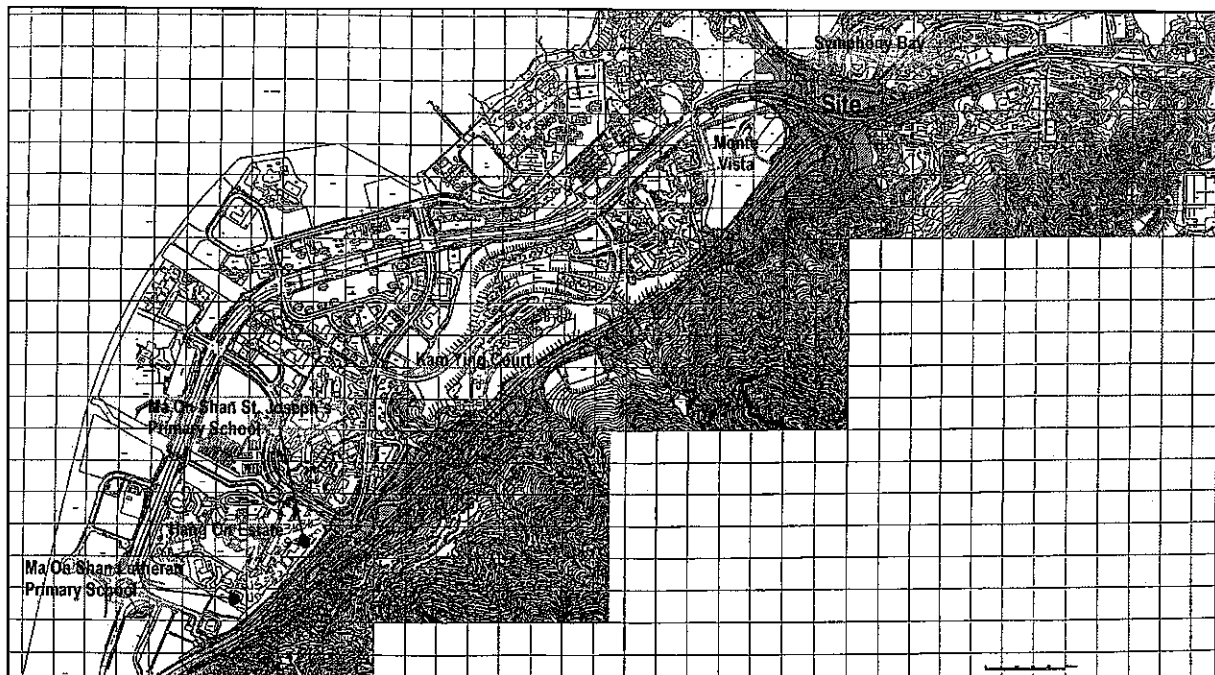
2.2 Environmental Sensitive Receivers

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

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

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

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



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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 May 2004 and the planned schedule for June 2004 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
0700-1900 hours on normal weekdays	$L_{eq(30\text{ min})}$	Once per week	1
1900-2300 hours on normal weekdays	$L_{eq(5\text{ min})}^*$		3 (consecutive)
2300-0700 hours of next day			
0700-1900 hours on holidays			

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

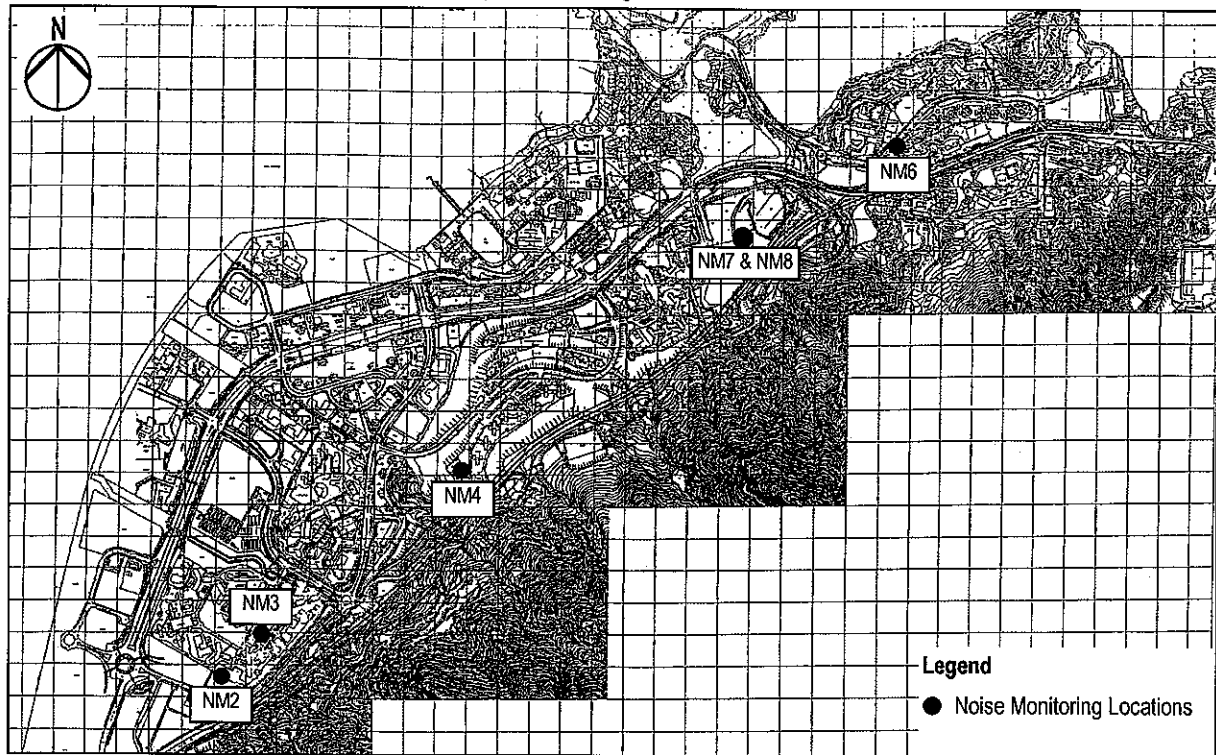
3.1.3 Monitoring Locations

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

Table 3-2 - Noise impact monitoring locations

NSR no	Location	Monitoring point
NM2	Ma On Shan Lutheran Primary School	Roof-top of the school
NM3	Heng Shan House, Heng On Estate	Podium floor of Heng Shan House
NM4	Kam Yiu House, Kam Ying Court	Roof-top of Kam Yiu House
NM6	Villa Concerto, Symphony Bay	Roof-top of Block 1
NM7	Monte Vista, Block 15	Podium floor of Block 15
NM8	Monte Vista, Block 15	Roof floor of Block 15

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 per every six days	0000h – 2400h	1
1-hour TSP	Three times per every six days	0700h – 1900h	1

The monitoring programme for May 2004 and the planned schedule for June 2004 are provided in Appendix 1 and Appendix 2 respectively.

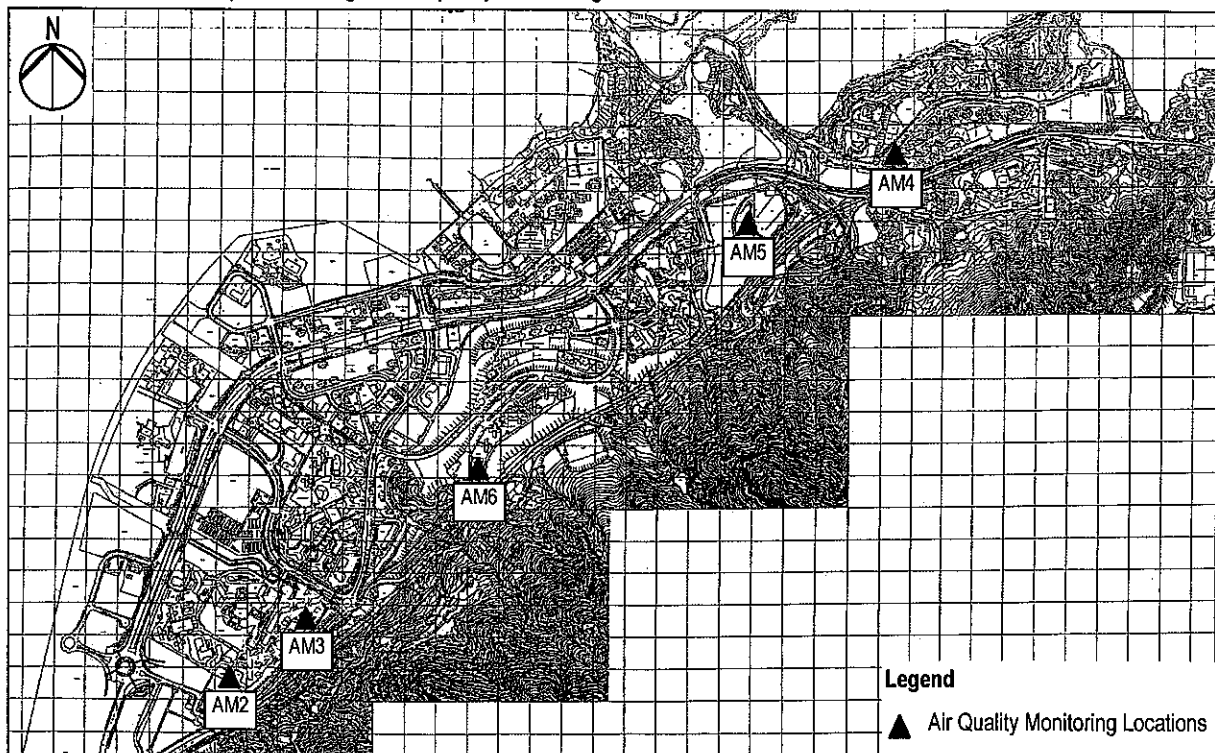
3.2.3 Monitoring Locations

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^[4]. The "Action Level" and the "Limit Level" are established according to the EPD requirements. Corresponding actions will be taken by ET, ER and CT in accordance with the Event-Action Plans if the monitoring results exceed the performance limits.

3.3.1 Construction Noise Impact

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

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

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

Remarks: * reduced to 70dB(A) for schools and 65dB(A) during school examination periods.

** to be selected based on Area Sensitivity Rating

(1) for the SPME and prescribed works

(2) for non-SPME and prescribed works

Note: If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

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

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

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

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

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

3.3.2 Air Quality

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

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

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

The baseline checking was conducted in April 2004. 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^[5] and Baseline Checking Results in March 2002, the action and limit levels for 24-hour TSP and 1-hour TSP at different locations were established and are tabulated in Table 3-8 and Table 3-9 respectively.

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

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

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

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

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

Monitoring location	1-hour TSP Level in $\mu\text{g}/\text{m}^3$		
	Baseline level *	Action level #	Limit level
Ma On Shan Lutheran Primary School	274	350	500
Ma On Shan St. Joseph's Primary School	274	350	
Villa Concerto, Symphony Bay	273	347	
Club House, Monte Vista [#]	-	350	
Kam Yiu House, Kam Ying Court [#]	-	349	

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

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

No baseline monitoring was conducted for Monte Vista (AM5) and Kam Ying Court (AM6) as these two locations were established after the commencement of the construction works. The Action 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"> 1. Identify source 2. Inform ER 3. Repeat measurement to confirm findings 4. Review the proposed remedial measures by CT and advise ER accordingly 5. Suggest any improvement or other alternative mitigation measures should the CT's proposal be found ineffective 6. Supervise the implementation of remedial measures 7. Increase monitoring frequency to demonstrate efficacy of remedial measures 8. If exceedance stops, cease additional monitoring 	<ol style="list-style-type: none"> 1. Notify CT 2. Check monitoring data and CT's working methods 	<ol style="list-style-type: none"> 1. Rectify any unacceptable practice 2. Amend working methods if appropriate
Action Level 2 – Exceedance for two or more consecutive samples		
<ol style="list-style-type: none"> 1. Identify source 2. Inform ER 3. Repeat measurement to confirm findings 4. Review the proposed remedial measures by CT and advise ER accordingly 5. Discuss with ER for remedial actions required 6. Suggest any improvement or other alternative mitigation measures. should the CT's proposal be found ineffective 7. Supervise the implementation of remedial measures 8. Increase monitoring frequency to demonstrate efficacy of remedial measures 9. If exceedance continues, arrange meeting with ER 10. If exceedance stops, cease additional monitoring 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing 2. Notify CT 3. Check monitoring data and CT's working methods 4. Discuss with Environmental Supervisor and CT on potential remedial actions 5. Ensure remedial actions are properly implemented 	<ol style="list-style-type: none"> 1. Submit proposals for remedial actions to ER within 3 working days of notification 2. Implement the agreed proposals 3. Amend proposal if appropriate

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

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

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

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

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

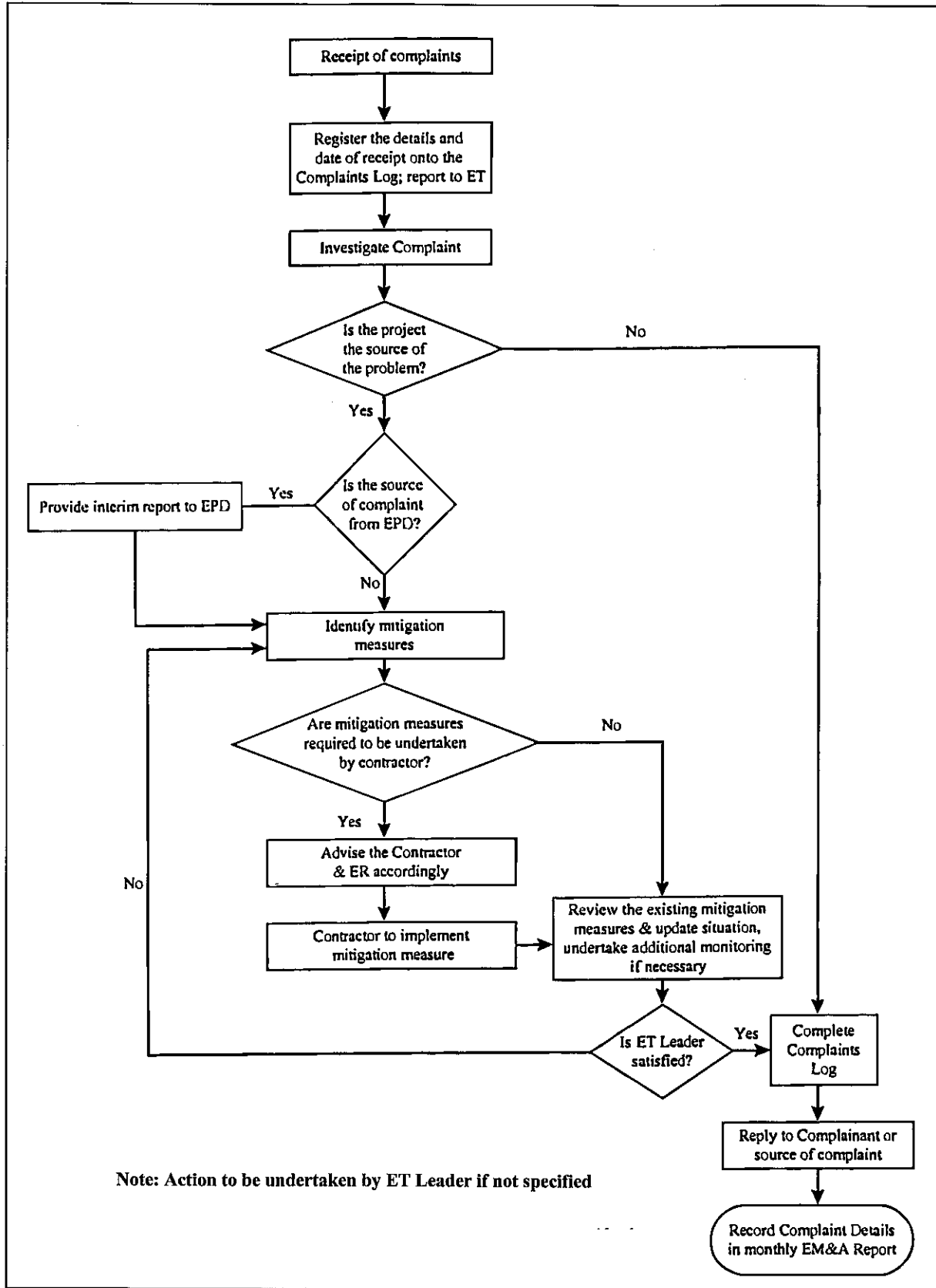
In accordance with the Brief of EM&A, environmental complaints will be referred to the ET for initiation of the complaint investigation procedures. The ET will undertake the following procedures upon receipt of the complaints:

- 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



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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	Quantity
Integrated sound level meter	Brüel & Kjær 2231	IEC 651 Type 1 IEC 804 Type 1	2
½" free-field microphone	Brüel & Kjær 4155		2
Rion Sound Level Meter	NA-27		1
Rion ½" microphone	UC53A		1
Windshield	Brüel & Kjær UA0237		4
Acoustical calibrator	Brüel & Kjær 4230	IEC 942 Type 1	1
Acoustical calibrator	Brüel & Kjær 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 – September 2003 (Report No. 23156-34)^[8].

4.3 Results

Five measurements were taken at each location on daytime (0700-1900) and five measurements were taken at NM3, NM4, NM6 and NM8 during 1900-2300 in May 2004. All the noise measurements were taken between 0700-2300 hours on normal weekdays during which the construction site was under normal operation. The construction daytime and evening time noise monitoring results in May 2004 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 May 2004

Date of monitoring		Monitoring parameters	Monitoring results, dB(A) (30 min)					
			NM2	NM3	NM4	NM6	NM7	NM8
Week 1	07/05/2004 (Fri)	L_{eq}	61.8	61.0	62.1	56.9	54.6	55.9
		L_{10}	64.0	64.0	65.5	54.0	53.5	56.0
		L_{90}	56.0	55.5	56.5	51.0	50.5	50.0
Week 2	13/05/2004 (Thu)	L_{eq}	61.4	64.3	66.2	58.8	62.4	57.5
		L_{10}	63.5	66.0	68.5	59.5	64.5	58.5
		L_{90}	58.0	61.0	61.5	56.5	59.5	55.0
Week 3	19/05/2004 (Wed)	L_{eq}	61.2	63.9	69.5	62.8	60.3	60.5
		L_{10}	63.0	66.0	72.5	65.5	63.0	62.0
		L_{90}	59.0	59.0	63.5	58.5	56.0	57.5
Week 4	25/05/2004 (Tue)	L_{eq}	64.5	60.7	60.3	68.4	57.9	62.6
		L_{10}	66.5	62.0	63.0	70.0	59.5	61.5
		L_{90}	61.5	59.0	52.0	61.5	54.0	56.0
Week 5	31/05/2004 (Mon)	L_{eq}	58.7	61.8	61.8	61.2	62.0	61.3
		L_{10}	60.0	63.0	64.0	62.5	63.0	62.5
		L_{90}	56.0	60.0	58.0	56.5	59.0	59.0

Table 4-3 - Construction evening time noise monitoring results for May 2004

Date of monitoring		Monitoring results, L_{eq} dB(A) (5 min)				
		NM3	NM4	NM6	NM7*	NM8
Week 1	07/05/2004 (Fri)	61.5	60.5	57.1	-	57.5
		62.5	60.3	57.3	-	57.4
		61.0	60.3	57.2	-	57.6
Week 2	13/05/2004 (Thu)	62.7	53.6	64.1	-	51.2
		63.2	55.9	60.0	-	49.0
		62.5	53.0	60.3	-	50.1
Week 3	19/05/2004 (Wed)	60.4	52.9	57.7	-	55.1
		61.0	63.4	56.9	-	54.0
		61.4	50.6	56.4	-	50.2
Week 4	25/05/2004 (Tue)	61.3	57.9	58.8	-	50.9
		62.2	57.3	57.0	-	50.6
		61.7	54.3	56.4	-	60.3
Week 5	31/05/2004 (Mon)	60.9	59.7	59.3	-	58.4
		61.1	59.4	59.5	-	58.3
		60.7	59.9	59.6	-	58.5

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

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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_{50-B}*)^[7].

HVS in compliance with the specifications of *40 CFR_{50-B}* 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	Quantity
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 1.1m³/min and 1.7m³/min, (39CFM - 60CFM) as specified in *40 CFR_{50-B}*.
- 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/m³;
 - 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)^[8]. The calibration certificates of the HVS are given in Appendix 4.

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)^[10].

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 five 24-hour TSP monitoring were conducted at each location. The 24-hour TSP monitoring results are tabulated in Table 5-2. Detailed monitoring data are given in Appendix 5.

The HVS at AM5 was broken down on 12 May 2004, which was subsequently checked and repaired by our staff and resumed normal functioning on 3 June 2004.

Table 5-2 - 24-hour TSP monitoring results for May 2004

Date of Monitoring	24-hour TSP Monitoring Results, $\mu\text{g}/\text{m}^3$				
	AM2	AM3	AM4	AM5	AM6
06/05/2004 (Thu)	40.8	67.6	68.3	64.1	70.2
12/05/2004 (Wed)	16.3	28.9	35.1	Note 1	30.8
18/05/2004 (Tue)	84.4	88.7	90.4	Note 1	93.5
24/05/2004 (Mon)	60.1	54.7	64.6	Note 1	60.3
29/05/2004 (Sat)	29.5	31.7	37.4	Note 1	62.8
03/06/2004 (Thu)	-	-	-	58.1	-
04/06/2004 (Fri)	-	-	-	37.6	-

Note:

1. The HVS at AM5 was broken down since 12 May 2004 due to malfunction of motor and was fixed and restarted from 3 June 2004.

A total of fifteen 1-hour TSP monitoring were conducted at each location. The monitoring results are tabulated in Table 5-3 and the detailed monitoring data are given in Appendix 6.

Table 5-3 - 1-hour TSP monitoring results for May 2004

Date of Monitoring	1-hour TSP Monitoring results, $\mu\text{g}/\text{m}^3$				
	AM2	AM3	AM4	AM5	AM6
07/05/2004 (Fri)	197.4	198.5	190.7	177.6	202.2
	190.7	189.9	181.0	165.7	194.6
	185.4	182.6	181.3	171.2	179.6
13/05/2004 (Thu)	120.7	138.6	118.5	127.5	152.5
	103.8	124.9	104.9	107.1	139.2
	95.6	129.4	90.2	104.3	110.7
19/05/2004 (Wed)	188.9	195.1	208.6	201.4	257.8
	217.4	226.3	211.1	187.9	235.7
	211.2	234.3	218.4	213.4	260.8
25/05/2004 (Tue)	205.3	213.5	194.4	193.4	207.7
	222.6	220.1	190.5	197.1	184.4
	219.7	218.6	188.3	165.0	183.2
31/05/2004 (Mon)	143.3	115.5	123.7	151.8	159.8
	128.9	100.5	101.1	119.7	143.3
	163.3	125.2	97.3	122.6	138.2

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

6.1 Inspection Results

Four weekly site inspections were conducted in May 2004. Key findings of the site inspections are given below:

Water Quality

- Open channel at Discharge Point 4 was full of stagnant water.
- Discharge Point 5 was silty and sediment was accumulated at the Channel.
- Road D22 was muddy. Contractor was recommended to clean the road surface.
- Stagnant water in sedimentation tank near Discharge Point 4 was still not discharged.
- Silt and sediment was found accumulated at Discharge Point 6 (Area right outside the site boundary).
- A big stone was found at the catch pit of Road D22. Maintenance of channel along Road D22 was in progress.
- Channel outside site boundary of Discharge Point 6 was blocked by silt and un-used sand bags.

Air Quality

- Slope at Discharge Point 5 was exposed. Contractor was recommended to cover the slope with tarpaulin as fast as possible.

Waste Management

- Waste was found accumulated at Bridge C pier 11.

Construction Noise

- A backhoe was idling near Discharge Point 8.
- Door of a air compressor near Gate 13 was opened.
- There are totally thirteen Construction Noise Permits (CNPs) in place for this project in May 2004 (Table 6-1). Two CNPs for the construction works near Heng On Estate were issued from EPD in May 2004. A copy of the latest CNPs is attached in Appendix 7 of this report.

Table 6-1 – Valid CNPs in April 2004

No	CNP No.	Location	Date of Issue	Date of Expiry
1	GW-TN0381-03	Near Heng On Estate	3 November 2003	2 May 2004
2	GW-TN0398-03	Near Kam Ying Court	19 November 2003	20 May 2004
3	GW-TN0418-03	Near Monte Vista and Cheung Muk Tau Village	5 December 2003	4 June 2004
4	GW-TN0033-04	Near Heng On Estate	30 January 2004	22 June 2004
5	GW-TN0064-04	Near Cheung Huk Tau Village	17 February 2004	17 August 2004
6	GW-TN0080-04	Near Footbridge FB1	27 February 2004	26 August 2004
7	GW-TN0109-04	Near Heng On Estate	16 March 2004	27 May 2004
8	GW-TN0181-04	Inside Permanent Semi-enclosure "B" Ch3435 – Ch3750	20 April 2004	16 October 2004
9	GW-TN0182-04	Inside Permanent Semi-enclosure "C" Ch3750 – Ch4015	28 April 2004	12 October 2004
10	GW-TN0183-04	Inside Permanent Semi-enclosure "C" Ch4015 – Ch4113	28 April 2004	12 October 2004
11	GW-TN0184-04	Inside Permanent Semi-enclosure "C" Ch4113 – Ch4269	28 April 2004	12 October 2004
12	GW-TN0221-04	Near Heng On Estate	21 May 2004	15 November 2004
13	GW-TN0222-04	Near Heng On Estate	21 May 2004	15 November 2004

Other Issues

- Pest control had conducted during inspections.

6.2 Waste Disposal

6.2.1 Waste Disposal Data for May 2004

The waste disposal data for May 2004 is given below:

A total of 29 loads of Construction and Demolition Waste (C&D waste) had been disposed of at NENT Landfill in May 2004. The total tonnage of the C&D waste disposal in May 2004 was 45.24 tonnes.

A total of 273 loads of rocks ($\phi > 400\text{mm}$) had been reused at the following government project sites in May 2004:

- *Contract No. ST85/2000 - Ma On Shan development phase 2 - completion contract for the construction of bridges J3 & J4 at road P8/ 8*
- *Tseung Kwan O Area 137 Public Filling Area*

The total quantity of disposed rocks was 1,951.95 m³ in May 2004.

A total of 786 loads of inert materials had been disposed of at Public Filling Area in May 2004. The total quantity of the disposed inert materials was 131 m³ in May 2004.

6.3 EPD Site Inspection

ET was informed by the Contractor that there was no EPD site inspection in May 2004.

6.4 Complaint Record

A total of two public complaints regarding construction noise were received on 5 and 13 May 2004 respectively through EPD. All complaints had been resolved. Correspondences on the public complaints are given in Appendix 8.

6.5 Non-compliance Record

There was no exceedance recorded in the reporting month.

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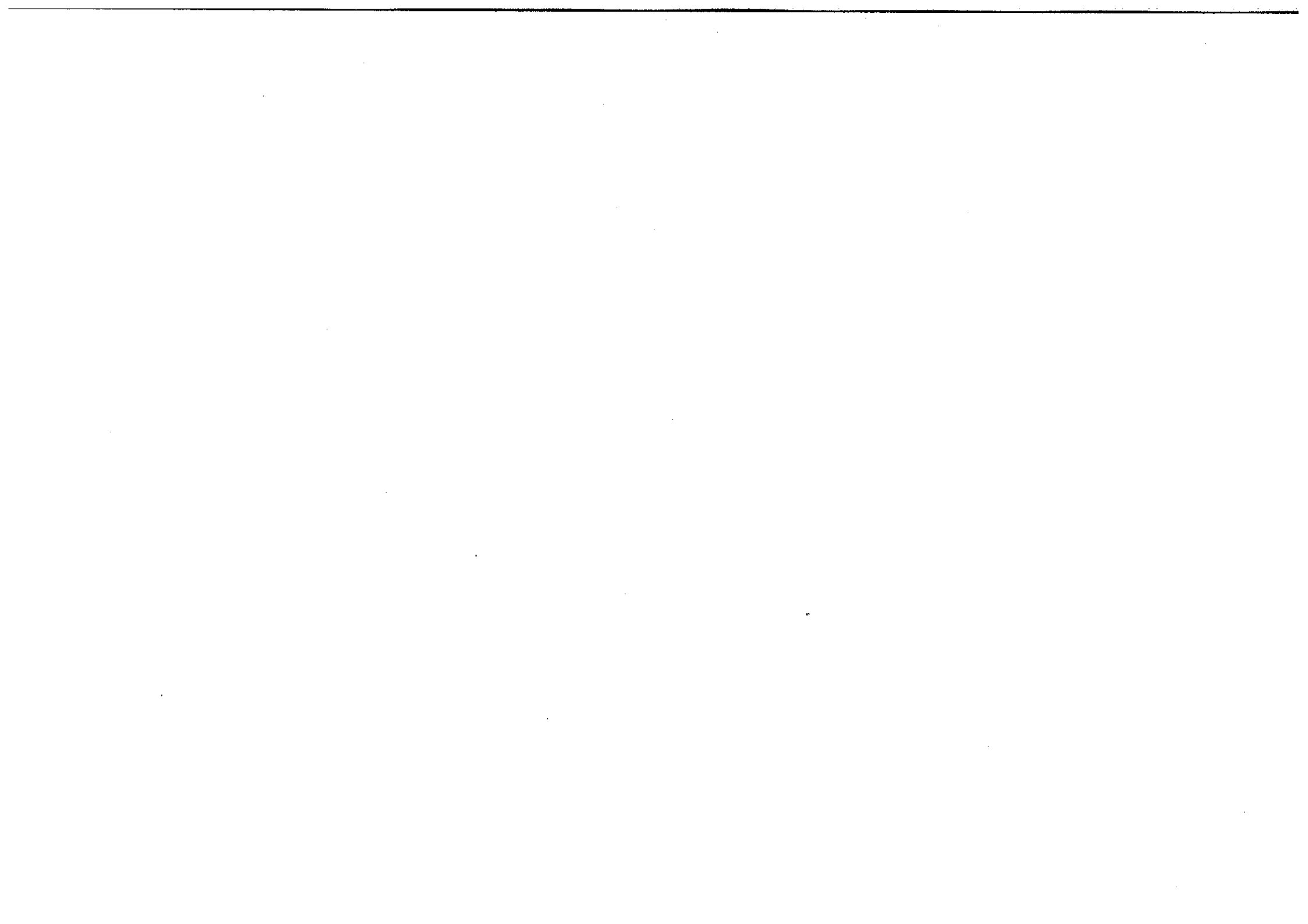
7. REFERENCES

- [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 – September 2003, 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 Ltd.
- [9] Sha Tin New Town, Stage II Contract No. ST 86/2000 Construction of Road T7 in Ma On Shan Monthly EM&A Report – February 2004, Ove Arup & Partners Hong Kong Ltd.
- [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 Ltd.

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APPENDIX 1

EM&A Programme for May 2004



Environmental Monitoring and Audit Schedule - May 2004

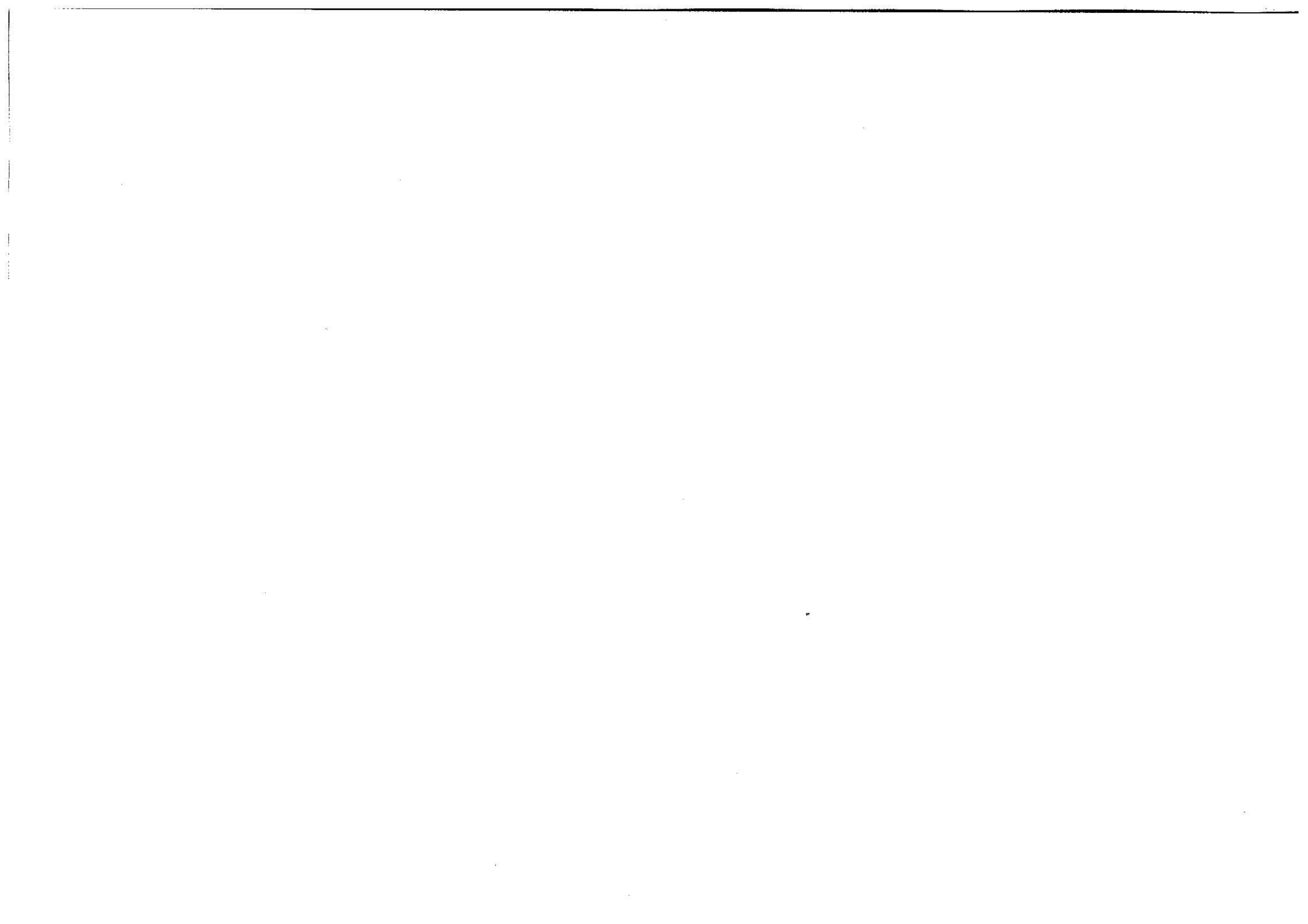
Note 1: L30 denotes $L_{eq(30 \text{ min})}$ Monitoring

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

Note 3: TSP denotes Total Suspended Particulate Monitoring

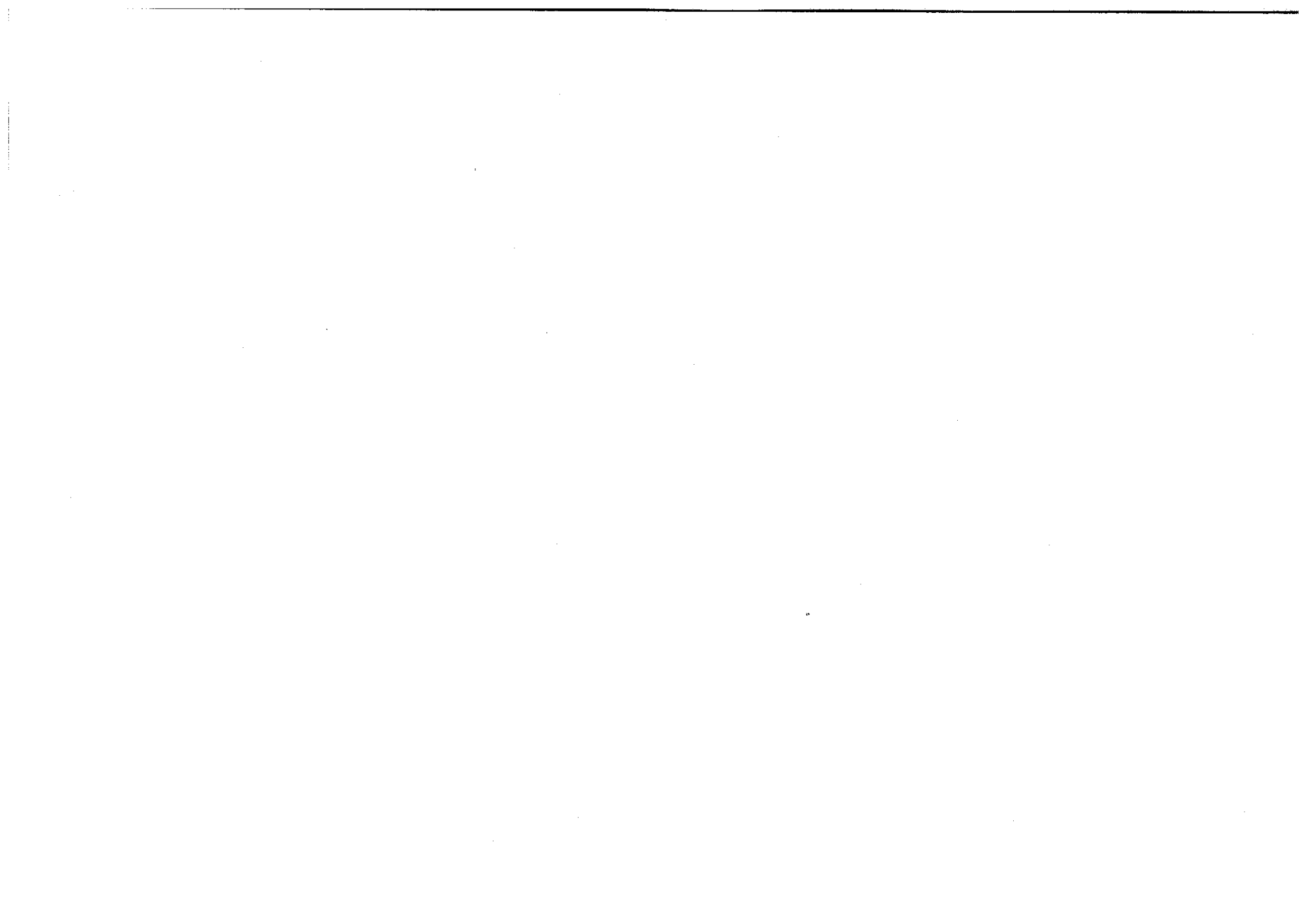
Note 4: * denotes the starting day of 6-days cycle

May-2004						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
2	3	4 Site Inspection	5	6 24-hour TSP	7 L30+3x1 hour TSP	8
9	10	11 Site Inspection	12 24-hour TSP (Except for AM5)	13 L30+3x1 hour TSP	14	15
16	17	18 24-hour TSP (Except for AM5) Site Inspection	19 L30+3x1 hour TSP	20	21	22
23	24 24-hour TSP (Except for AM5)	25 Site Inspection L30+3x1 hour TSP	26	27	28	29 24-hour TSP (Except for AM5)
30	31 L30+3x1 hour TSP	1	2	3 24-hour TSP (for AM5 only)	4 24-hour TSP	



APPENDIX 2

EM&A Schedule for June 2004



Tentative Environmental Monitoring and Audit Schedule - June 2004

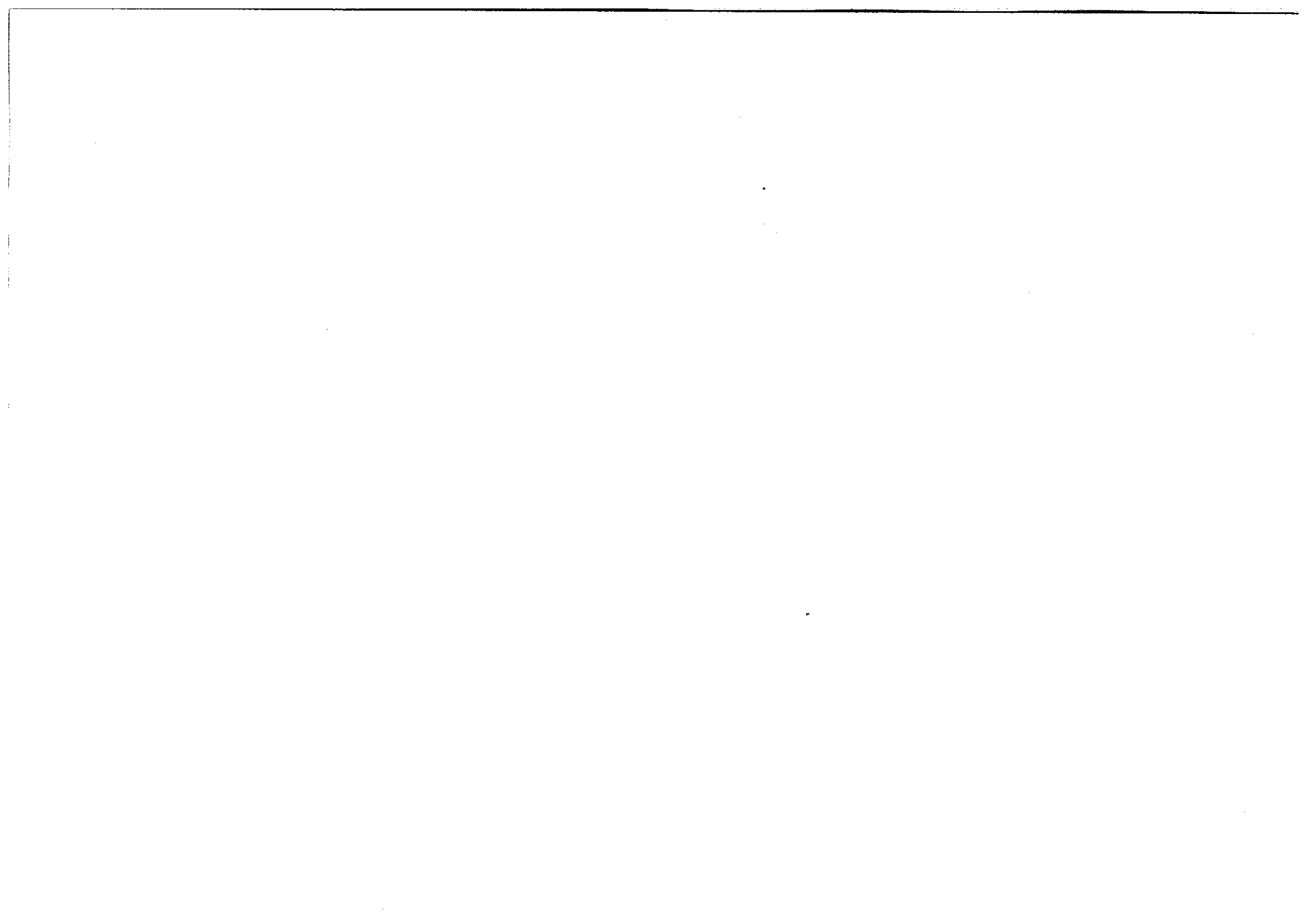
Note 1: L30 denotes $L_{eq(30 \text{ min})}$ Monitoring

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

Note 3: TSP denotes Total Suspended Particulate Monitoring

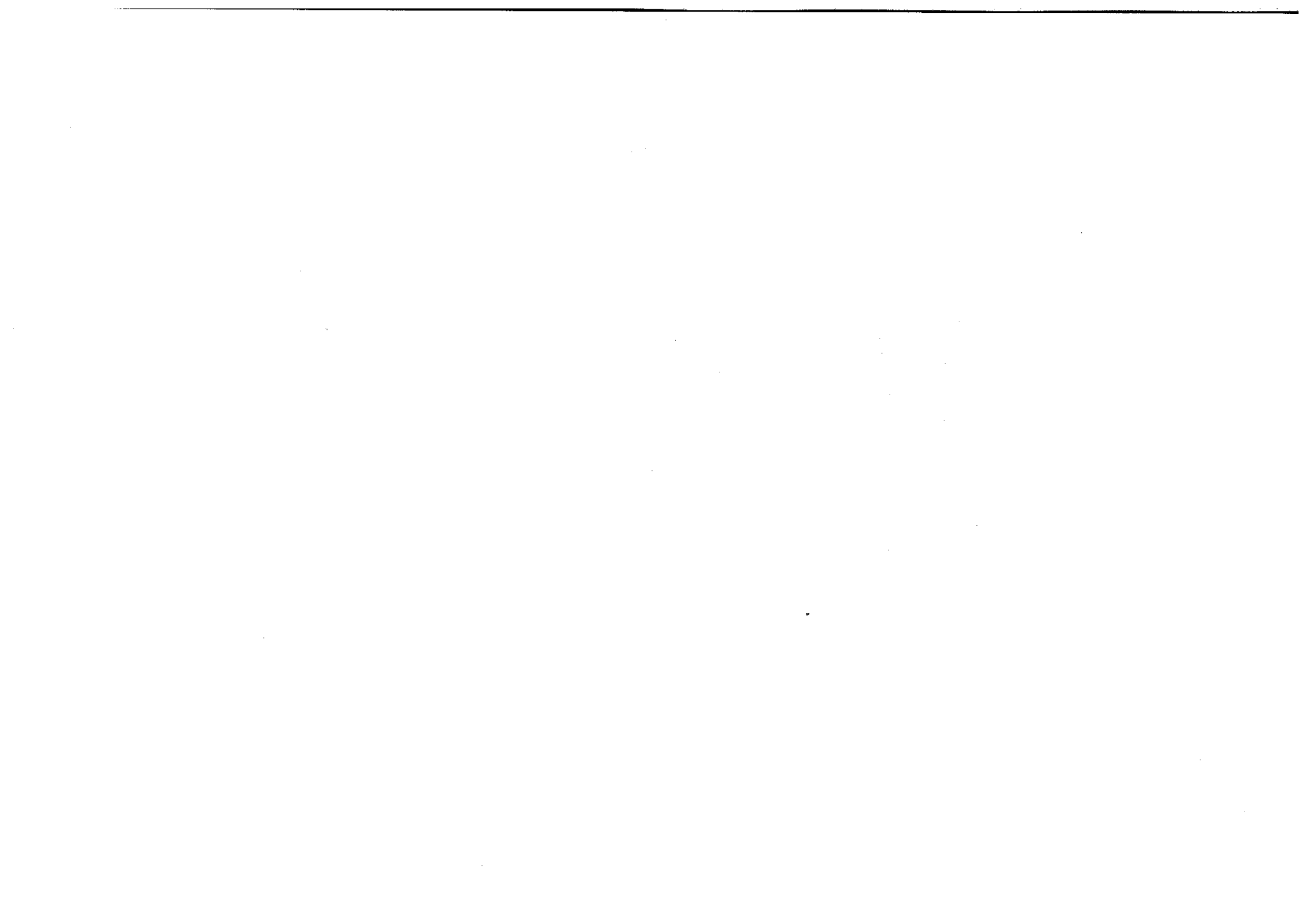
Note 4: * denotes the starting day of 6-days cycle

Jun-2004						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2	3 24-hour TSP	4 3x1 hour TSP	5
6 Baseline 24-hour TSP 3x1-hour TSP	7	8 Site Inspection	9 24-hour TSP	10	11 L30+3x1 hour TSP	12
13	14	15 24-hour TSP Site Inspection	16 L30+3x1 hour TSP	17	18	19
20	21 24-hour TSP	22 Site Inspection	23 L30+3x1 hour TSP	24	25	26 24-hour TSP
27	28 L30+3x1 hour TSP	29 Site Inspection	30			



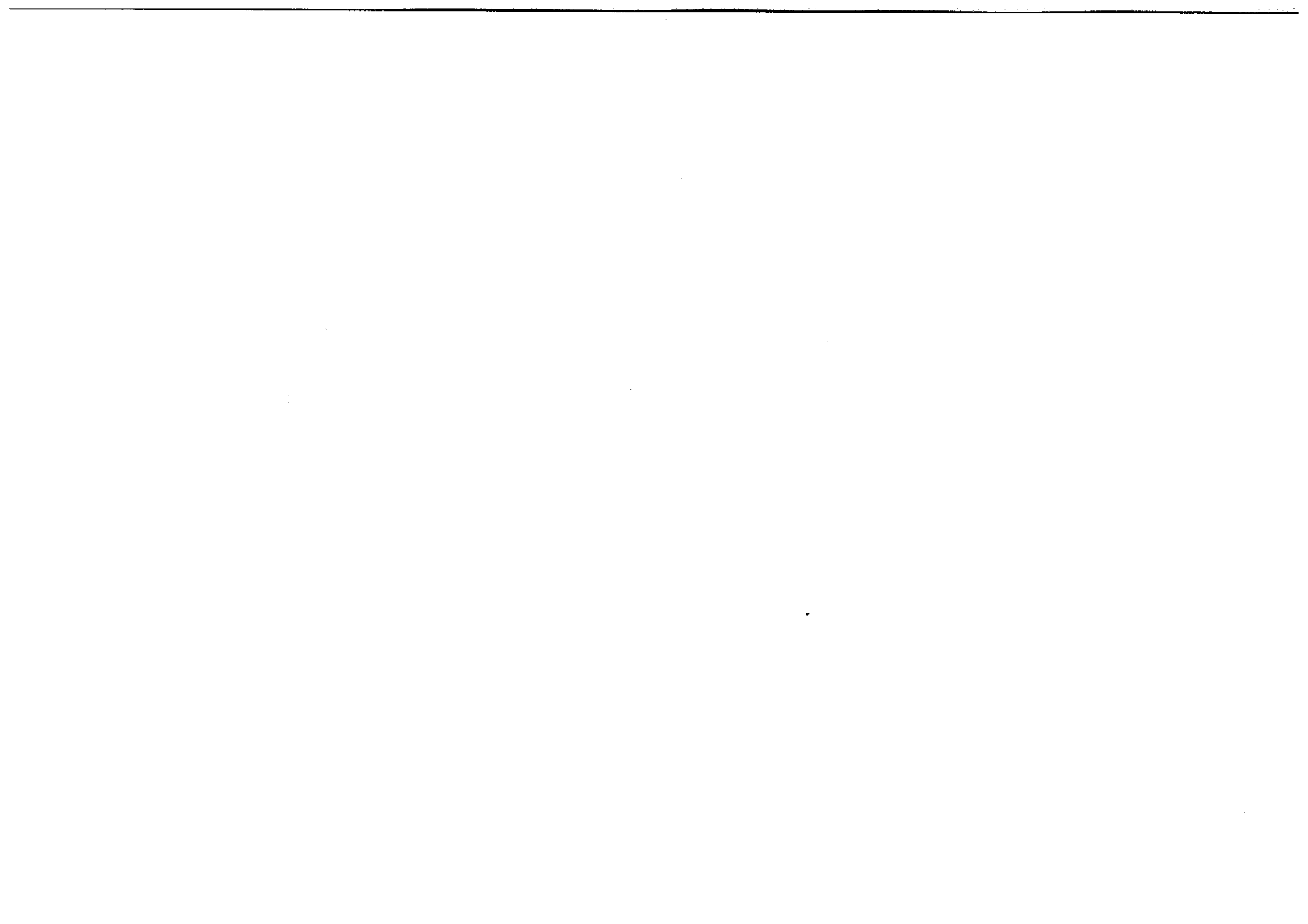
APPENDIX 3

Noise Impact Monitoring Results for May 2004



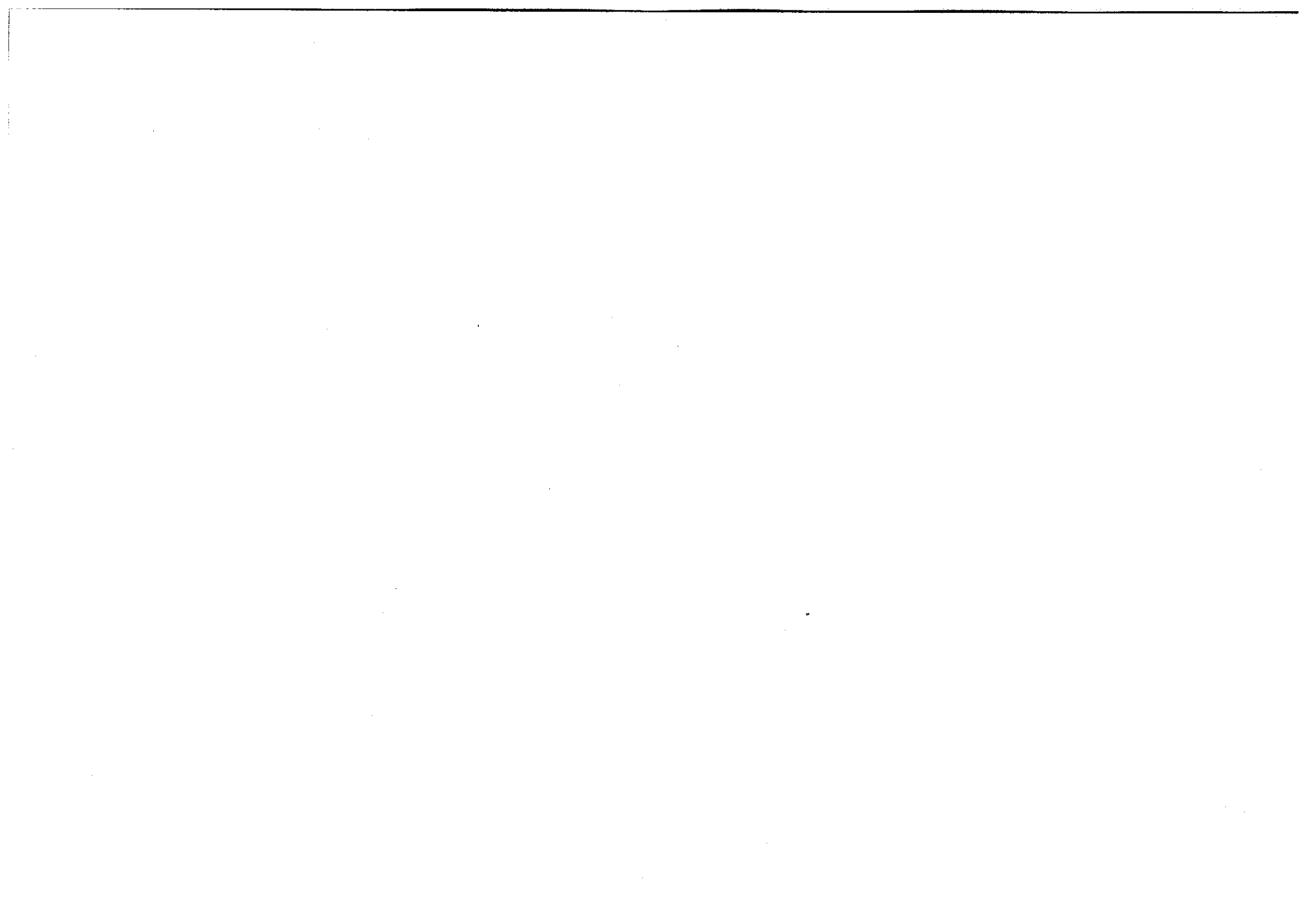
Details of Day Time Noise Impact Monitoring

Date	NSR No.	Time periods		Weather condition	Avg. wind speed (m/s)	Noise Level dB(A)			Influencing factors/ Site condition	
		Start	Finish			L _{eq}	L ₁₀	L ₉₀		
07-May-04	NM2	11:30	12:00	Fine	1.7	61.8	64.0	56.0	normal operation	
07-May-04	NM3	10:40	11:10	Fine	1.8	61.0	64.0	55.5		
07-May-04	NM4	10:00	10:30	Fine	3.7	62.1	65.5	56.5		
07-May-04	NM6	11:30	12:00	Fine	1.6	56.9	54.0	51.0		
07-May-04	NM7	10:55	11:25	Fine	1.3	54.6	53.5	50.5		
07-May-04	NM8	10:10	10:40	Fine	0.8	55.9	56.0	50.0		
13-May-04	NM2	9:15	9:45	Fine	1.5	61.4	63.5	58.0		normal operation
13-May-04	NM3	10:15	10:45	Fine	1.4	64.3	66.0	61.0		
13-May-04	NM4	10:50	11:20	Fine	0.6	66.2	68.5	61.5		
13-May-04	NM6	9:00	9:30	Fine	1.2	58.8	59.5	56.5		
13-May-04	NM7	9:50	10:20	Fine	0.7	62.4	64.5	59.5		
13-May-04	NM8	10:20	10:50	Fine	0.8	57.5	58.5	55.0		
19-May-04	NM2	10:55	11:25	Fine	1.0	61.2	63.0	59.0	normal operation	
19-May-04	NM3	11:30	12:00	Fine	0.7	63.9	66.0	59.0		
19-May-04	NM4	10:00	10:30	Fine	0.6	69.5	72.5	63.5		
19-May-04	NM6	13:55	14:25	Fine	1.1	62.8	65.5	58.5		
19-May-04	NM7	14:50	15:20	Fine	0.8	60.3	63.0	56.0		
19-May-04	NM8	14:15	14:45	Fine	1.5	60.5	62.0	57.5		
25-May-04	NM2	9:35	10:05	Fine	1.2	64.5	66.5	61.5	normal operation	
25-May-04	NM3	10:15	10:45	Fine	1.7	60.7	62.0	59.0		
25-May-04	NM4	10:55	11:25	Fine	0.7	60.3	63.0	52.0		
25-May-04	NM6	13:00	13:30	Fine	1.4	68.4	70.0	61.5		
25-May-04	NM7	14:00	14:30	Fine	1.1	57.9	59.5	54.0		
25-May-04	NM8	14:35	15:05	Fine	1.9	62.6	61.5	56.0		
31-May-04	NM2	9:30	10:00	Sunny	0.7	58.7	60.0	56.0	normal operation	
31-May-04	NM3	9:35	10:05	Sunny	1.7	61.8	63.0	60.0		
31-May-04	NM4	13:45	14:15	Sunny	1.7	61.8	64.0	58.0		
31-May-04	NM6	10:30	11:00	Sunny	1.1	61.2	62.5	56.5		
31-May-04	NM7	11:20	11:50	Sunny	0.6	62.0	63.0	59.0		
31-May-04	NM8	13:00	13:30	Sunny	0.9	61.3	62.5	59.0		



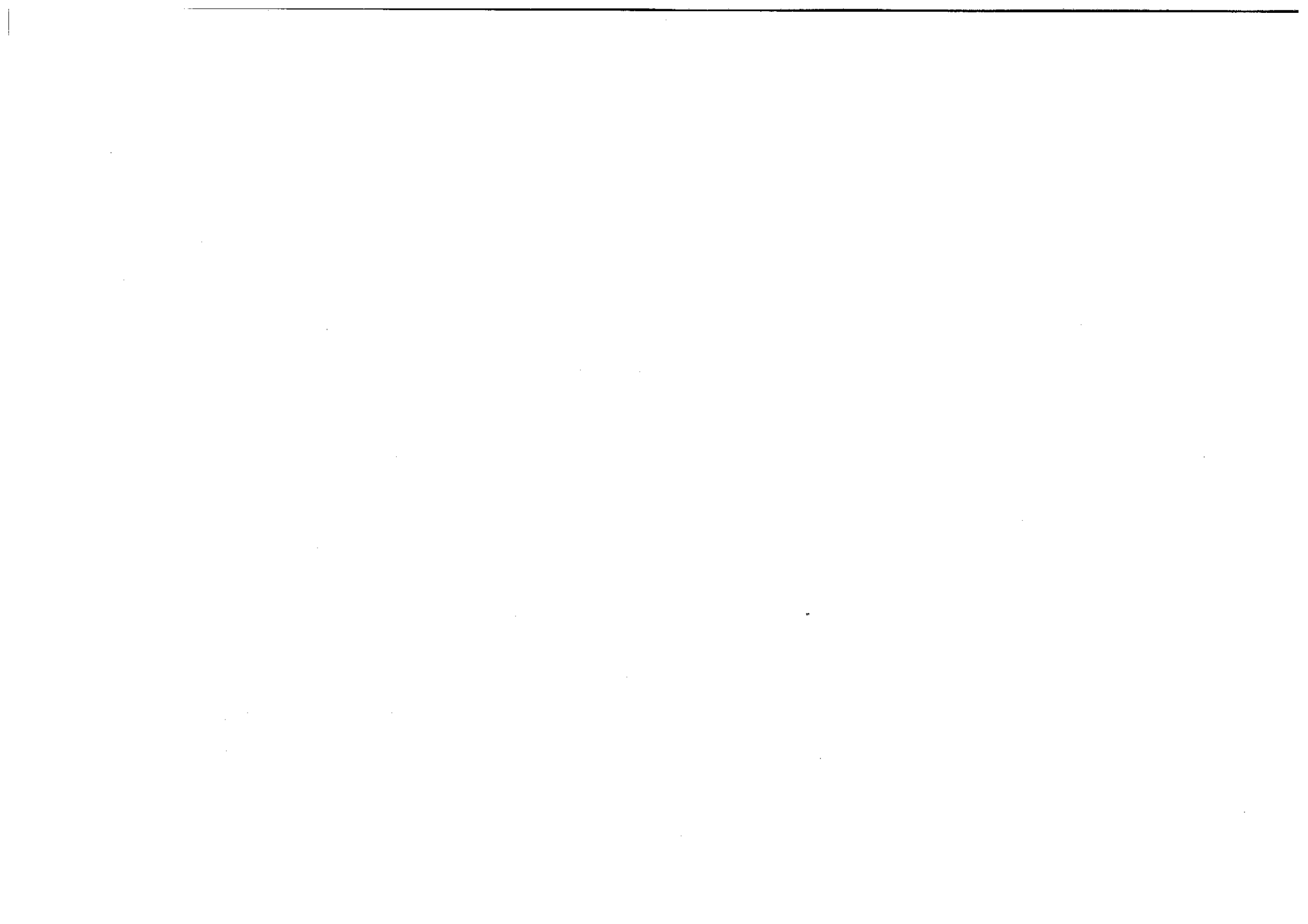
Details of Evening time Noise Impact Monitoring

Date	Set No.	NSR No.	Time periods		Weather condition	Avg. wind speed (m/s)	Noise Level dB(A)			Influencing factors/ Site condition
			Start	Finish			L ₉₀	L ₁₀	L ₅₀	
7-May-04	1	NM3	19:15	19:20	fine	0.9	61.5	58.0	55.5	No activity is conducting
7-May-04	2	NM3	19:20	19:25	fine	0.9	62.5	58.5	55.5	No activity is conducting
7-May-04	3	NM3	19:25	19:30	fine	0.9	61.0	58.0	55.5	No activity is conducting
7-May-04	1	NM4	19:45	19:50	fine	0.6	60.5	57.0	55.0	No activity is conducting
7-May-04	2	NM4	19:50	19:55	fine	0.6	60.3	57.0	55.5	No activity is conducting
7-May-04	3	NM4	19:55	20:00	fine	0.6	60.3	57.0	55.0	No activity is conducting
7-May-04	1	NM6	21:05	21:10	fine	1.3	57.1	53.0	52.5	No activity is conducting
7-May-04	2	NM6	21:10	21:15	fine	1.3	57.3	53.5	52.0	No activity is conducting
7-May-04	3	NM6	22:15	22:20	fine	1.3	57.2	53.5	52.0	No activity is conducting
7-May-04	1	NM8	20:30	20:35	fine	1.5	57.5	53.0	52.0	No activity is conducting
7-May-04	2	NM8	20:35	20:40	fine	1.5	57.4	53.5	52.0	No activity is conducting
7-May-04	3	NM8	20:40	20:45	fine	1.5	57.6	53.5	52.5	No activity is conducting
13-May-04	1	NM3	19:15	19:20	fine	1.0	62.7	65.0	59.0	No activity is conducting
13-May-04	2	NM3	19:20	19:25	fine	1.0	63.2	66.0	59.0	No activity is conducting
13-May-04	3	NM3	19:25	19:30	fine	1.0	62.5	64.5	59.5	No activity is conducting
13-May-04	1	NM4	21:45	21:50	fine	0.7	53.6	54.0	49.0	No activity is conducting
13-May-04	2	NM4	21:50	21:55	fine	0.7	55.9	58.5	50.5	No activity is conducting
13-May-04	3	NM4	21:55	22:00	fine	0.7	53.0	54.5	51.0	No activity is conducting
13-May-04	1	NM6	20:00	20:05	fine	1.1	64.1	65.1	58.5	No activity is conducting
13-May-04	2	NM6	20:05	20:10	fine	1.1	60.0	62.0	57.0	No activity is conducting
13-May-04	3	NM6	20:10	20:15	fine	1.1	60.3	62.0	57.5	No activity is conducting
13-May-04	1	NM8	21:05	21:10	fine	1.1	51.2	53.0	48.5	No activity is conducting
13-May-04	2	NM8	21:10	21:15	fine	1.1	49.0	49.5	48.0	No activity is conducting
13-May-04	3	NM8	21:15	21:20	fine	1.1	50.1	51.5	48.0	No activity is conducting
19-May-04	1	NM3	21:45	21:50	fine	1.7	60.4	62.5	56.5	No activity is conducting
19-May-04	2	NM3	21:50	21:55	fine	1.7	61.0	63.5	56.5	No activity is conducting
19-May-04	3	NM3	21:55	22:00	fine	1.7	61.4	64.0	56.5	No activity is conducting
19-May-04	1	NM4	21:10	21:15	fine	1.0	52.9	56.0	49.0	No activity is conducting
19-May-04	2	NM4	21:15	21:20	fine	1.0	63.4	59.5	48.5	No activity is conducting
19-May-04	3	NM4	21:20	21:25	fine	1.0	50.6	52.0	48.5	No activity is conducting
19-May-04	1	NM6	19:30	19:35	fine	1.5	57.7	59.0	53.5	No activity is conducting
19-May-04	2	NM6	19:35	19:40	fine	1.5	56.9	59.0	53.5	No activity is conducting
19-May-04	3	NM6	19:40	19:45	fine	1.5	56.4	58.0	53.0	No activity is conducting
19-May-04	1	NM8	20:40	20:45	fine	1.9	55.1	58.5	49.0	No activity is conducting
19-May-04	2	NM8	20:45	20:50	fine	1.9	54.0	58.0	48.5	No activity is conducting
19-May-04	3	NM8	20:50	20:55	fine	1.9	50.2	57.0	48.5	No activity is conducting
25-May-04	1	NM3	21:40	21:45	fine	1.0	61.3	63.5	57.0	No activity is conducting
25-May-04	2	NM3	21:45	21:50	fine	1.0	62.2	63.5	55.0	No activity is conducting
25-May-04	3	NM3	21:50	21:55	fine	1.0	61.7	64.0	56.5	No activity is conducting
25-May-04	1	NM4	21:05	21:10	fine	1.5	57.9	61.5	50.5	No activity is conducting
25-May-04	2	NM4	21:10	21:15	fine	1.5	57.3	62.5	49.0	No activity is conducting
25-May-04	3	NM4	21:15	21:20	fine	1.5	54.3	54.0	48.5	No activity is conducting
25-May-04	1	NM6	19:20	19:25	fine	2.0	58.8	60.0	54.0	No activity is conducting
25-May-04	2	NM6	19:25	19:30	fine	2.0	57.0	58.5	53.5	No activity is conducting
25-May-04	3	NM6	19:30	19:35	fine	2.0	56.4	58.0	53.5	No activity is conducting
25-May-04	1	NM8	20:30	20:35	fine	2.3	50.9	51.5	49.5	No activity is conducting
25-May-04	2	NM8	20:35	20:40	fine	2.3	50.6	51.0	49.0	No activity is conducting
25-May-04	3	NM8	20:40	20:45	fine	2.3	60.3	64.0	49.5	No activity is conducting
31-May-04	1	NM3	22:10	22:15	fine	1.6	60.9	65.5	58.0	No activity is conducting
31-May-04	2	NM3	22:15	22:20	fine	1.6	61.1	65.5	58.5	No activity is conducting
31-May-04	3	NM3	22:20	22:25	fine	1.6	60.7	64.5	58.0	No activity is conducting
31-May-04	1	NM4	21:40	21:45	fine	2.0	59.7	64.0	56.0	No activity is conducting
31-May-04	2	NM4	21:45	21:50	fine	2.0	59.4	63.5	56.5	No activity is conducting
31-May-04	3	NM4	21:50	21:55	fine	2.0	59.9	64.0	56.5	No activity is conducting
31-May-04	1	NM6	20:45	20:50	fine	1.9	59.3	63.0	56.5	No activity is conducting
31-May-04	2	NM6	20:50	20:55	fine	1.9	59.5	63.5	65.5	No activity is conducting
31-May-04	3	NM6	20:55	21:00	fine	1.9	59.6	63.5	57.0	No activity is conducting
31-May-04	1	NM8	21:15	21:20	fine	1.5	58.4	62.0	55.5	No activity is conducting
31-May-04	2	NM8	21:20	21:25	fine	1.5	58.3	62.0	55.5	No activity is conducting
31-May-04	3	NM8	21:25	21:30	fine	1.5	58.5	62.0	55.5	No activity is conducting



APPENDIX 4

Calibration Certificates of HVS



Ove Arup Partners (Hong Kong) Limited

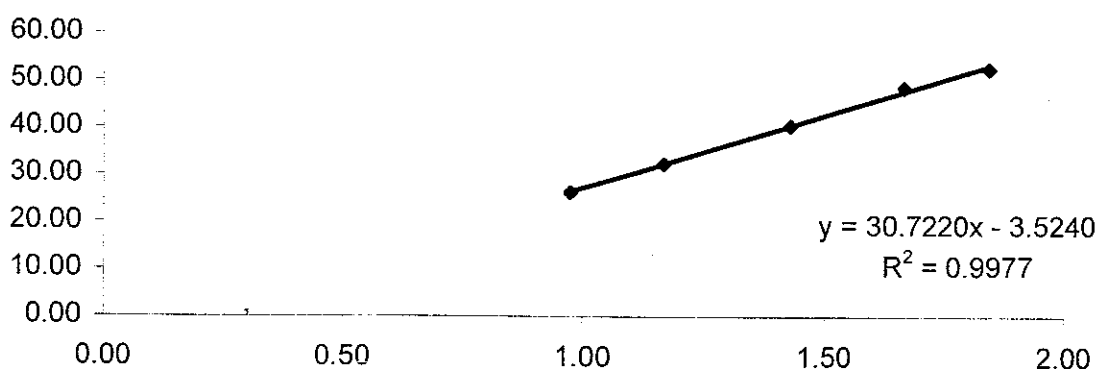
High Volume Air Sampler Calibration Worksheet

Calibration date	13-Apr-04	Barometric pressure	759 mm Hg
Next Calibration date	12-Jun-04	Temperature (°C)	19 °C
Sampler location	Roof, Ma On Shan Lutheran Primar	Temperature (K)	292 K
Sampler model	GMWS-2310-105	P _{std}	760 mm Hg
Sampler serial number	1387	T _{std}	298 K

Calibrator model	GMW-2535
Calibrator serial number	1201
Slope of the standard curve, m _s	1.93285
Intercept of the standard curve, b _s	0.00398

Resistance Plate No.	Manometer Reading (inch H ₂ O)	Flow Recorder Reading (CFM)	Calculated Q _{std} (m ³ /min)	Continuous Flow Recorder Reading IC (CFM)
5	3.50	26.00	0.98	26.25
7	5.00	32.00	1.17	32.31
10	7.50	40.00	1.43	40.38
13	10.20	48.00	1.67	48.46
18	12.50	52.00	1.84	52.50

Calibration Curve



Linear Regression

Sampler slope (m) : 30.7220
 Sampler intercept (b) : -3.5240
 Correlation coefficient (R²) : 0.9977

Correlation coefficient is greater than 0.9900 and the calibration result is accepted.

Performed by: _____

Date: 13-4-04

Checked by: _____

Date: 14-4-04

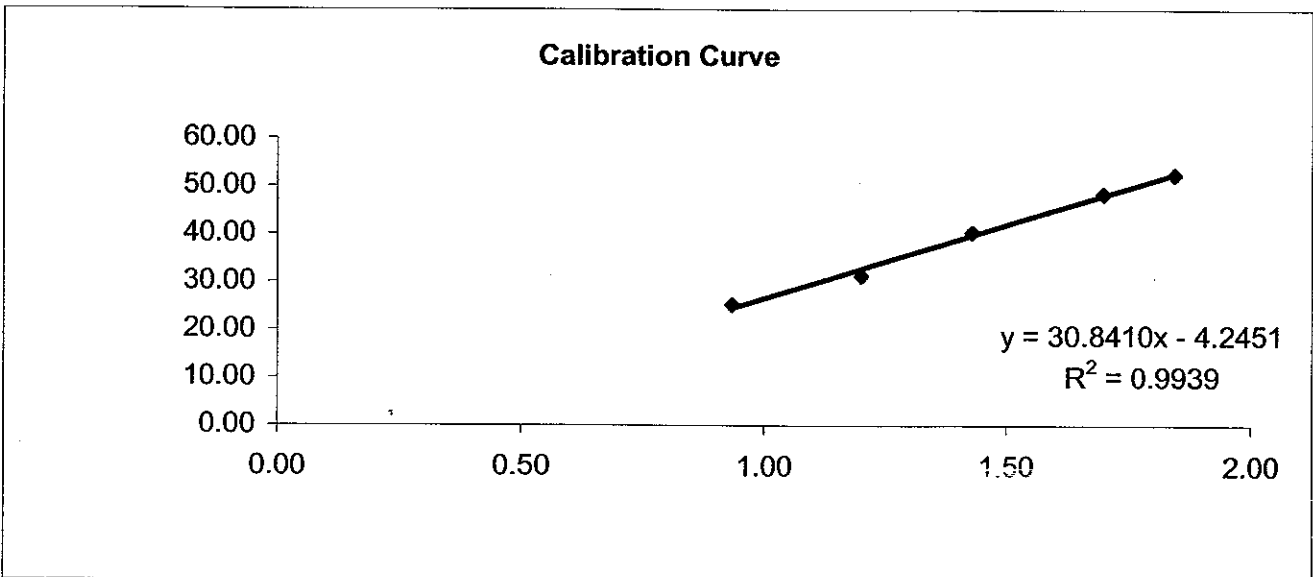
Ove Arup Partners (Hong Kong) Limited

High Volume Air Sampler Calibration Worksheet

Calibration date	13-Apr-04	Barometric pressure	759 mm Hg
Next Calibration date	12-Jun-04	Temperature (°C)	19 °C
Sampler location	Roof, Ma On Shan St. Joseph's Prin	Temperature (K)	292 K
Sampler model	GMWS-2310-105	P _{std}	760 mm Hg
Sampler serial number	1278	T _{std}	298 K

Calibrator model	GMW-2535
Calibrator serial number	1201
Slope of the standard curve, m _s	1.93285
Intercept of the standard curve, b _s	0.00398

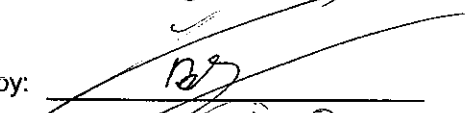
Resistance Plate No.	Manometer Reading (inch H ₂ O)	Flow Recorder Reading (CFM)	Calculated Q _{std} (m ³ /min)	Continuous Flow Recorder Reading IC (CFM)
5	3.20	25.00	0.93	25.24
7	5.30	31.00	1.20	31.30
10	7.50	40.00	1.43	40.38
13	10.60	48.00	1.70	48.46
18	12.50	52.00	1.84	52.50

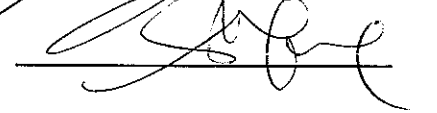


Linear Regression

Sampler slope (m) : **30.8410**
 Sampler intercept (b) : **-4.2451**
 Correlation coefficient (R²) : **0.9939**

Correlation coefficient is greater than 0.9900 and the calibration result is accepted.

Performed by: 

Checked by: 

Date: 13-4-04

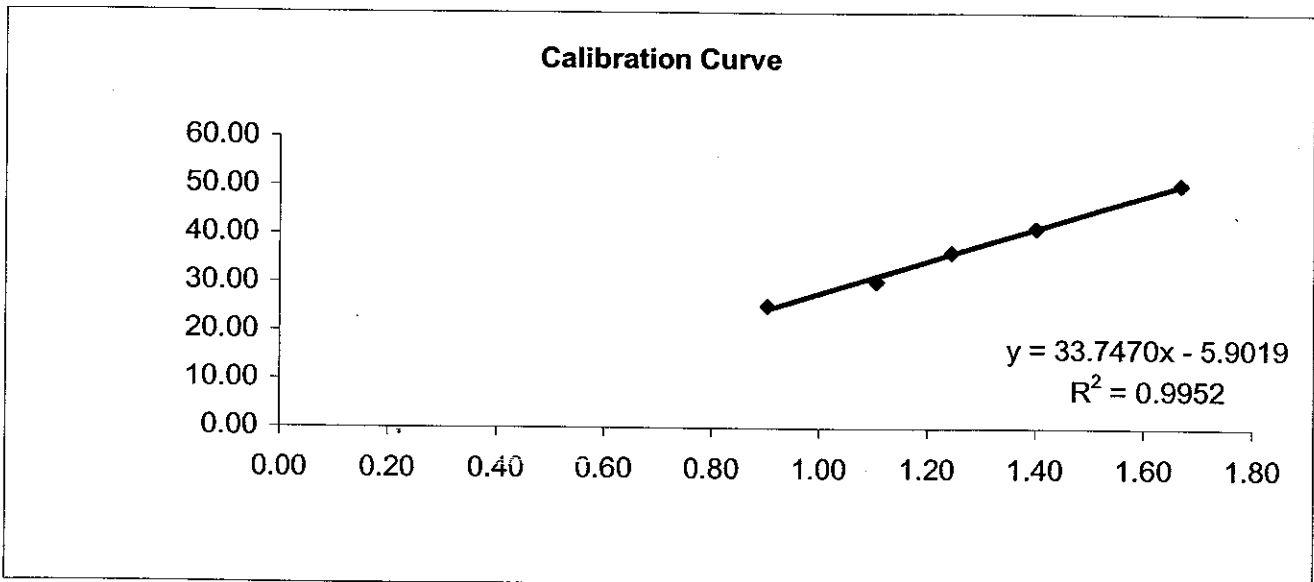
Date: 14-4-04

Ove Arup Partners (Hong Kong) Limited

High Volume Air Sampler Calibration Worksheet

Calibration date	13-Apr-04	Barometric pressure	759 mm Hg
Next Calibration date	12-Jun-04	Temperature (°C)	19 °C
Sampler location	Roof, Block 1, Symphony Bay	Temperature (K)	292 K
Sampler model	GMWS-2310-105	P _{std}	760 mm Hg
Sampler serial number	1391	T _{std}	298 K
Calibrator model		GMW-2535	
Calibrator serial number		1201	
Slope of the standard curve, m _s		1.93285	
Intercept of the standard curve, b _s		0.00398	

Resistance Plate No.	Manometer Reading (inch H ₂ O)	Flow Recorder Reading (CFM)	Calculated Q _{std} (m ³ /min)	Continuous Flow Recorder Reading IC (CFM)
5	3.00	25.00	0.90	25.24
7	4.50	30.00	1.11	30.29
10	5.70	36.00	1.24	36.34
13	7.20	41.00	1.40	41.39
18	10.20	50.00	1.67	50.48



Linear Regression

Sampler slope (m) : **33.7470**
 Sampler intercept (b) : **-5.9019**
 Correlation coefficient (R²) : **0.9952**

Correlation coefficient is greater than 0.9900 and the calibration result is accepted.

Performed by: 

Date: 13-4-04

Checked by: 

Date: 14-4-04

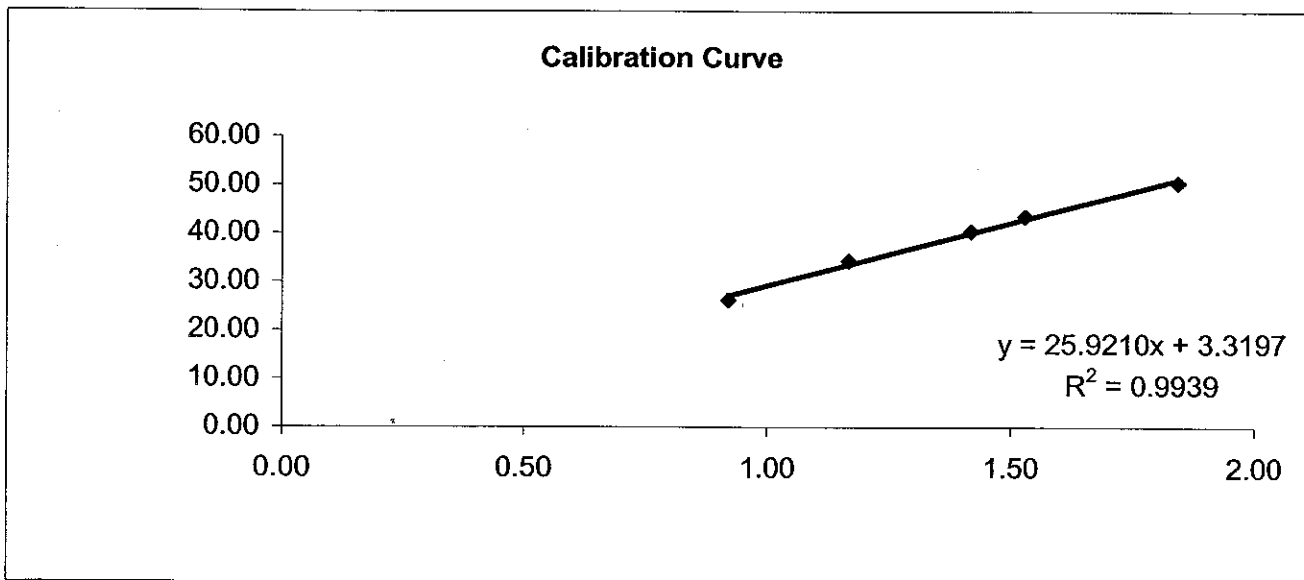
Ove Arup Partners (Hong Kong) Limited

High Volume Air Sampler Calibration Worksheet

Calibration date	13-Apr-04	Barometric pressure	759 mm Hg
Next Calibration date	12-Jun-04	Temperature (°C)	19 °C
Sampler location	Roof, Club House, Monte Vista	Temperature (K)	292 K
Sampler model	GMWS-2310-105	P _{std}	760 mm Hg
Sampler serial number	1763	T _{std}	298 K

Calibrator model	GMW-2535
Calibrator serial number	1201
Slope of the standard curve, m _s	1.93285
Intercept of the standard curve, b _s	0.00398

Resistance Plate No.	Manometer Reading (inch H ₂ O)	Flow Recorder Reading (CFM)	Calculated Q _{std} (m ³ /min)	Continuous Flow Recorder Reading IC (CFM)
5	3.10	26.00	0.92	26.25
7	5.00	34.00	1.17	34.32
10	7.40	40.00	1.42	40.38
13	8.60	43.00	1.53	43.41
18	12.50	50.00	1.84	50.48



Linear Regression

Sampler slope (m) : **25.9210**
 Sampler intercept (b) : **3.3197**
 Correlation coefficient (R²) : **0.9939**

Correlation coefficient is greater than 0.9900 and the calibration result is accepted.

Performed by:

Date: 13-4-04

Checked by:

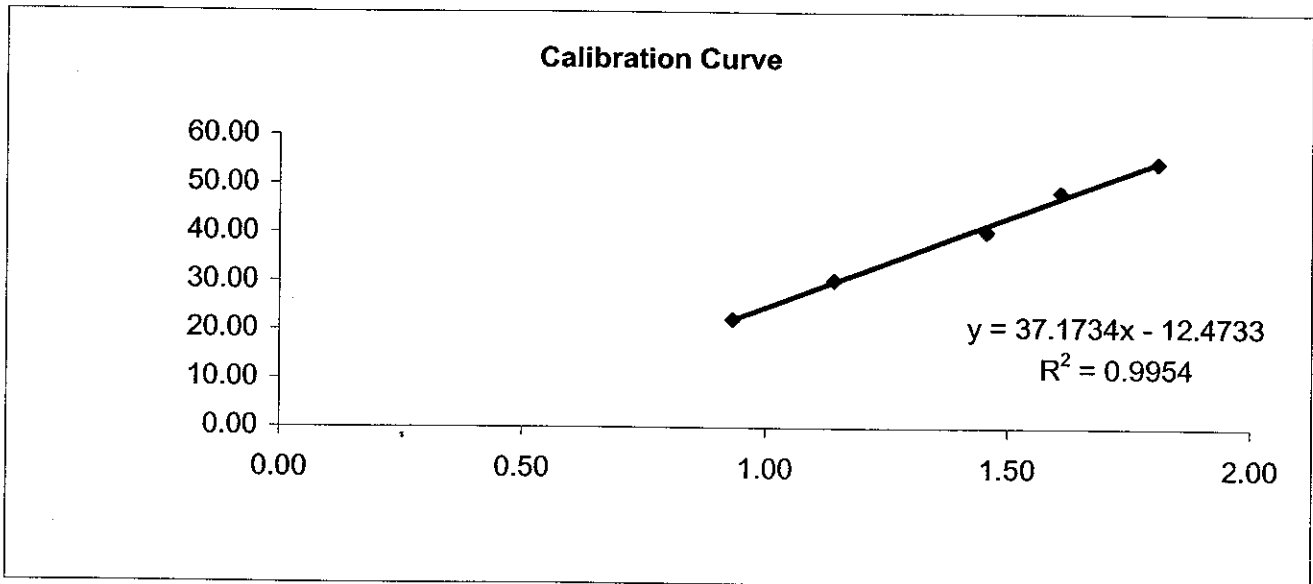
Date: 14-4-04

Ove Arup Partners (Hong Kong) Limited

High Volume Air Sampler Calibration Worksheet

Calibration date	13-Apr-04	Barometric pressure	759 mm Hg
Next Calibration date	12-Jun-04	Temperature (°C)	19 °C
Sampler location	Kam Yiu House, Kam Ying Court	Temperature (K)	292 K
Sampler model	TE-5170	P _{std}	760 mm Hg
Sampler serial number	0513	T _{std}	298 K
Calibrator model	GMW-2535		
Calibrator serial number	1201		
Slope of the standard curve, m _s	1.93285		
Intercept of the standard curve, b _s	0.00398		

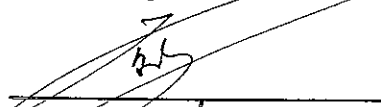
Resistance Plate No.	Manometer Reading (inch H ₂ O)	Flow Recorder Reading (CFM)	Calculated Q _{std} (m ³ /min)	Continuous Flow Recorder Reading IC (CFM)
5	3.20	22.00	0.93	22.21
7	4.80	30.00	1.14	30.29
10	7.80	40.00	1.46	40.38
13	9.50	48.00	1.61	48.46
18	12.00	54.00	1.81	54.52



Linear Regression

Sampler slope (m) : **37.1734**
 Sampler intercept (b) : **-12.4733**
 Correlation coefficient (R²) : **0.9954**

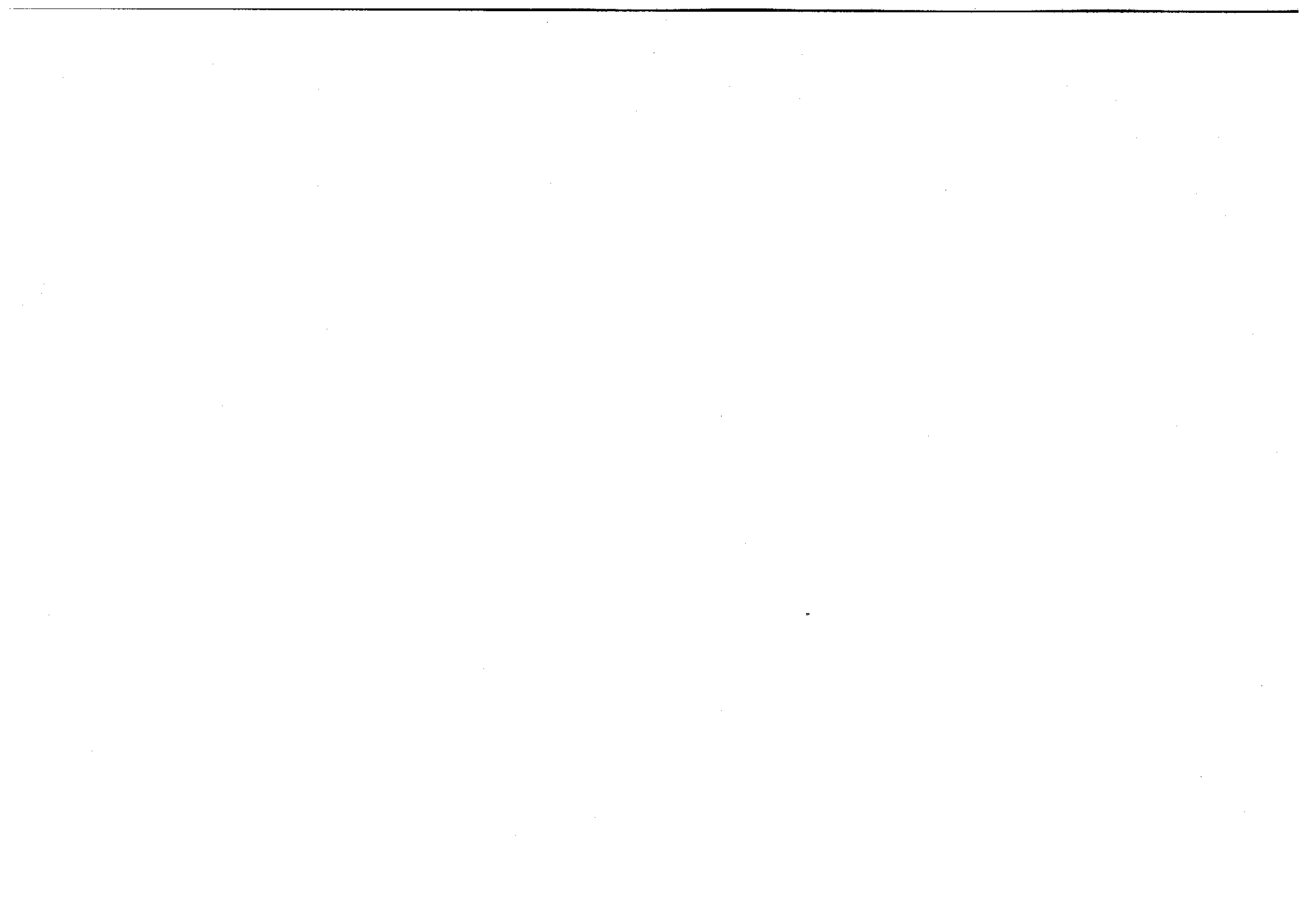
Correlation coefficient is greater than 0.9900 and the calibration result is accepted.

Performed by: 

Date: 13-4-04

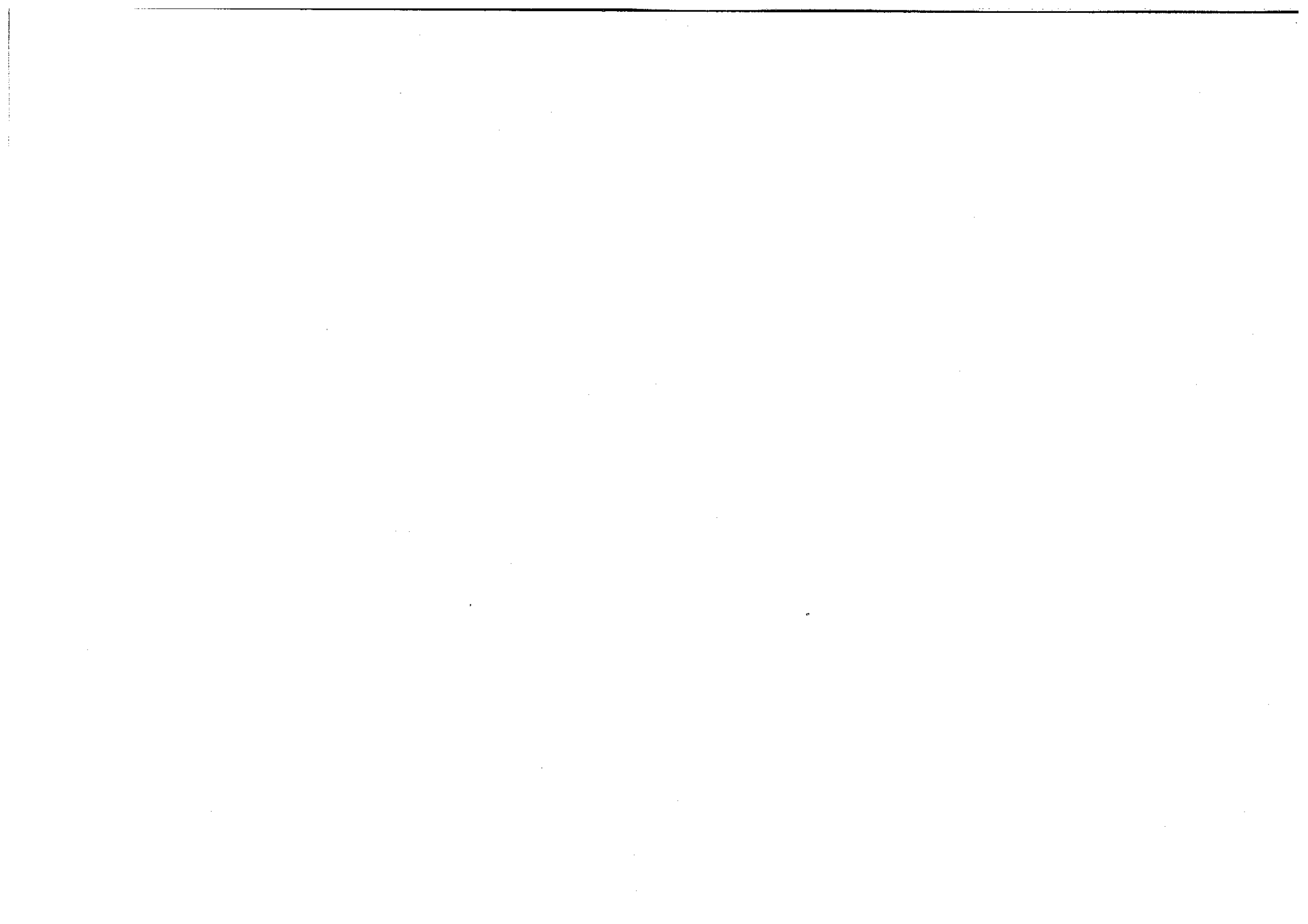
Checked by: 

Date: 14-4-04



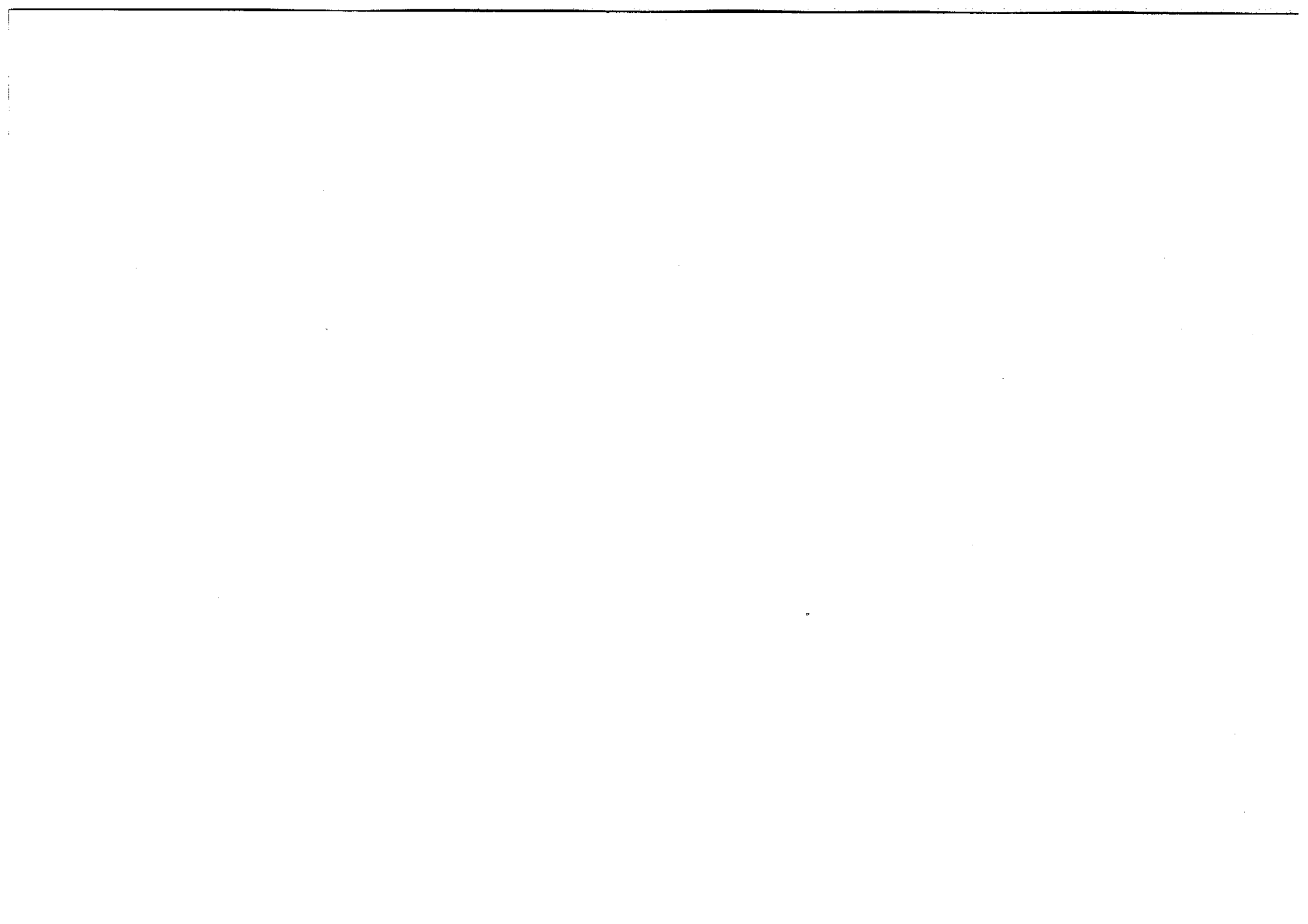
APPENDIX 5

24-hour TSP Monitoring Results for May 2004



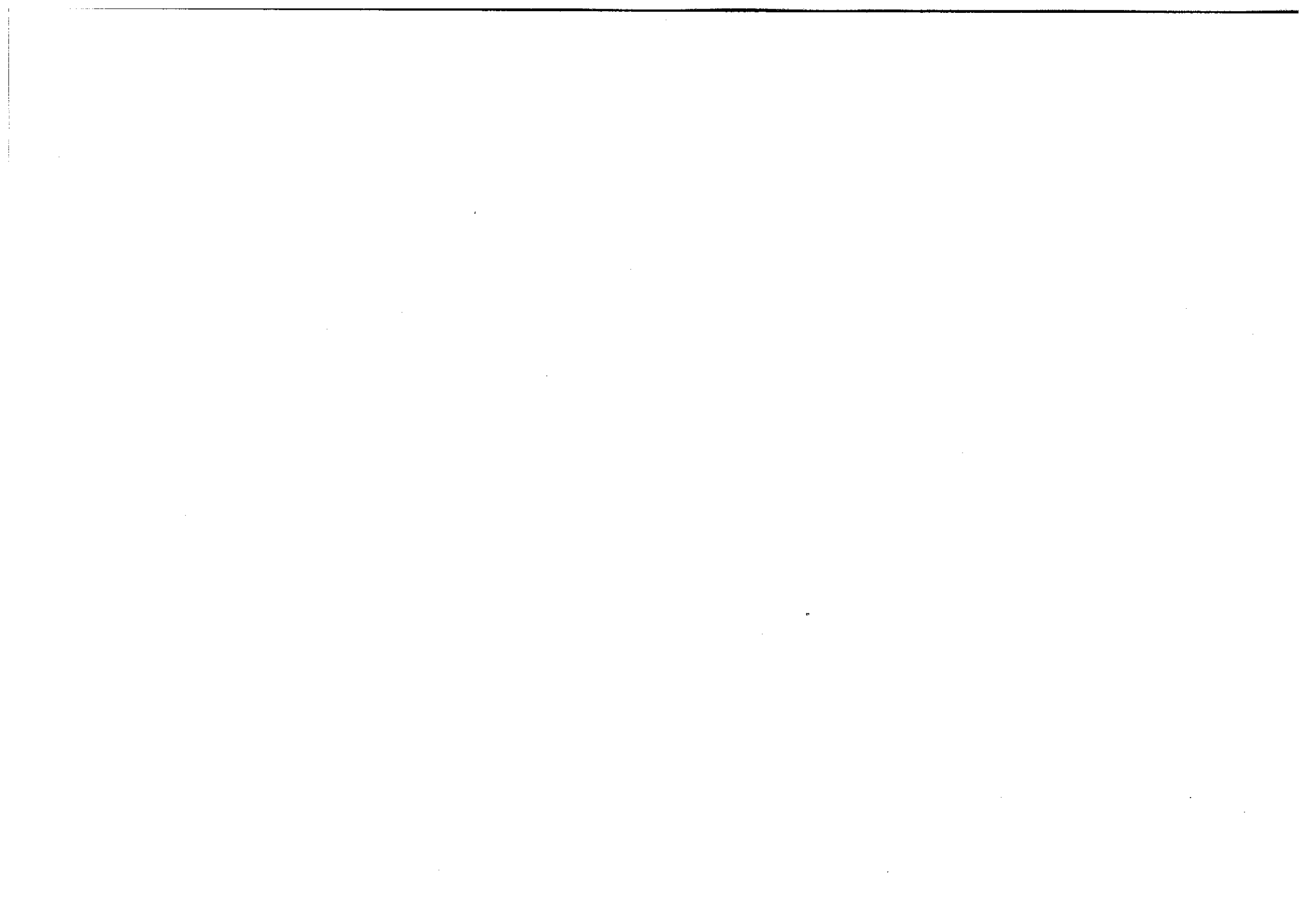
Details of 24-Hour TSP Monitoring

Month	Date	Receptor No.	Weather condition	Site condition	Pressure (mmHg)		Temperature (°C)		Flow Recorder Reading (CFM)		Filter Weight (g)		TSP weight (g)	Flow Rate (m ³ /min)		Average Flow Rate (m ³ /min)	Elapse Time		Sampling Time (mins.)	Total vol. (m ³)	24-hour TSP Level (µg/m ³)
					Initial	Final	Initial	Final	Initial	Final	Initial	Final		Initial	Final		Start	Finish			
May-04	06-May-04	AM2	Sunny	normal operation	759.0	758.0	25.0	26.0	43	42	2.9095	2.9974	0.0879	1.5134	1.4778	1.4956	5033.31	5057.31	1440.00	2153.66	40.8
May-04	06-May-04	AM3	Sunny	normal operation	759.0	758.0	25.0	26.0	34	34	2.9183	3.0389	0.1206	1.2394	1.2368	1.2381	5012.38	5036.38	1440.00	1782.66	67.6
May-04	06-May-04	AM4	Sunny	normal operation	759.0	758.0	25.0	26.0	36	36	2.9023	3.0242	0.1219	1.2410	1.2385	1.2398	5023.47	5047.47	1440.00	1785.24	68.3
May-04	06-May-04	AM5	Sunny	normal operation	759.0	758.0	25.0	26.0	44	44	2.9190	3.0636	0.1446	1.5683	1.5644	1.5664	4826.54	4850.54	1440.00	2255.54	64.1
May-04	06-May-04	AM6	Sunny	normal operation	759.0	758.0	25.0	26.0	32	32	2.8690	2.9898	0.1208	1.1958	1.1938	1.1948	3544.29	3568.28	1439.40	1719.80	70.2
May-04	12-May-04	AM2	Fine	normal operation	756.0	755.0	28.0	28.0	34	34	2.9164	2.9448	0.0284	1.2129	1.2122	1.2126	5057.31	5081.31	1440.00	1746.07	16.3
May-04	12-May-04	AM3	Fine	normal operation	756.0	755.0	28.0	28.0	34	32	2.8841	2.9340	0.0499	1.2316	1.1666	1.1991	5036.38	5060.38	1440.00	1726.70	28.9
May-04	12-May-04	AM4	Fine	normal operation	756.0	755.0	28.0	28.0	35	36	2.8945	2.9561	0.0616	1.2041	1.2328	1.2185	5047.47	5071.47	1440.00	1754.57	35.1
May-04	12-May-04	AM6	Fine	normal operation	756.0	755.0	28.0	28.0	32	32	2.8858	2.9385	0.0527	1.1898	1.1892	1.1895	3568.28	3592.28	1440.00	1712.88	30.8
May-04	18-May-04	AM2	sunny	normal operation	760.0	756.0	24.0	26.0	48	42	2.9124	3.1043	0.1919	1.6798	1.4759	1.5779	5081.31	5105.33	1441.20	2274.00	84.4
May-04	18-May-04	AM3	sunny	normal operation	760.0	756.0	24.0	26.0	36	34	2.9018	3.0841	0.1623	1.3069	1.2353	1.2711	5060.38	5084.38	1440.00	1830.38	88.7
May-04	18-May-04	AM4	sunny	normal operation	760.0	756.0	24.0	26.0	40	38	2.9057	3.0787	0.1730	1.3622	1.2961	1.3292	5071.47	5095.47	1440.00	1913.98	90.4
May-04	18-May-04	AM6	sunny	normal operation	760.0	756.0	24.0	26.0	34	31	2.9192	3.0820	0.1628	1.2517	1.1659	1.2088	3592.28	3616.28	1440.00	1740.67	93.5
May-04	24-May-04	AM2	sunny	normal operation	757.0	758.0	25.0	26.0	48	46	2.9249	3.0670	0.1421	1.6741	1.6076	1.6409	5105.33	5129.33	1440.00	2362.82	60.1
May-04	24-May-04	AM3	sunny	normal operation	757.0	758.0	25.0	26.0	30	30	2.9162	3.0035	0.0873	1.1085	1.1075	1.1080	5084.38	5108.38	1440.00	1695.52	54.7
May-04	24-May-04	AM4	sunny	normal operation	757.0	758.0	25.0	26.0	40	26	2.9280	3.0351	0.1071	1.3579	0.9431	1.1505	5095.47	5119.47	1440.00	1656.72	64.6
May-04	24-May-04	AM6	sunny	normal operation	757.0	758.0	25.0	26.0	33	33	2.9118	3.0179	0.1061	1.2215	1.2207	1.2211	3616.28	3640.28	1440.00	1758.38	60.3
May-04	29-May-04	AM2	Sunny	normal operation	759.0	759.0	31.0	30.0	48	48	2.8786	2.9491	0.0705	1.6606	1.6632	1.6619	5129.33	5153.33	1440.00	2393.14	29.5
May-04	29-May-04	AM3	Sunny	normal operation	759.0	759.0	31.0	30.0	36	34	2.8793	2.9369	0.0576	1.2926	1.2302	1.2614	5108.38	5132.38	1440.00	1816.42	31.7
May-04	29-May-04	AM4	Sunny	normal operation	759.0	759.0	31.0	30.0	36	32	2.8711	2.9343	0.0632	1.2304	1.1147	1.1726	5119.47	5143.47	1440.00	1688.47	37.4
Jun-04	03-Jun-04	AM5	Sunny	normal operation	758.0	758.0	29.0	29.0	40	40	2.8842	3.0032	0.1190	1.4029	1.4029	1.4029	5133.56	5157.88	1459.20	2047.11	58.1
May-04	29-May-04	AM6	Sunny	normal operation	759.0	759.0	31.0	30.0	36	32	2.8788	2.9910	0.1122	1.2938	1.1887	1.2413	3640.28	3664.28	1440.00	1787.40	62.8
Jun-04	04-Jun-04	AM5	Fine	normal operation	759.0	759.0	31.0	30.0	38	39	2.7606	2.8334	0.0728	1.3225	1.3631	1.3428	5157.88	5181.88	1440.00	1933.63	37.6



APPENDIX 6

1-hour TSP Monitoring Results for May 2004



Details of 1-Hour TSP Monitoring

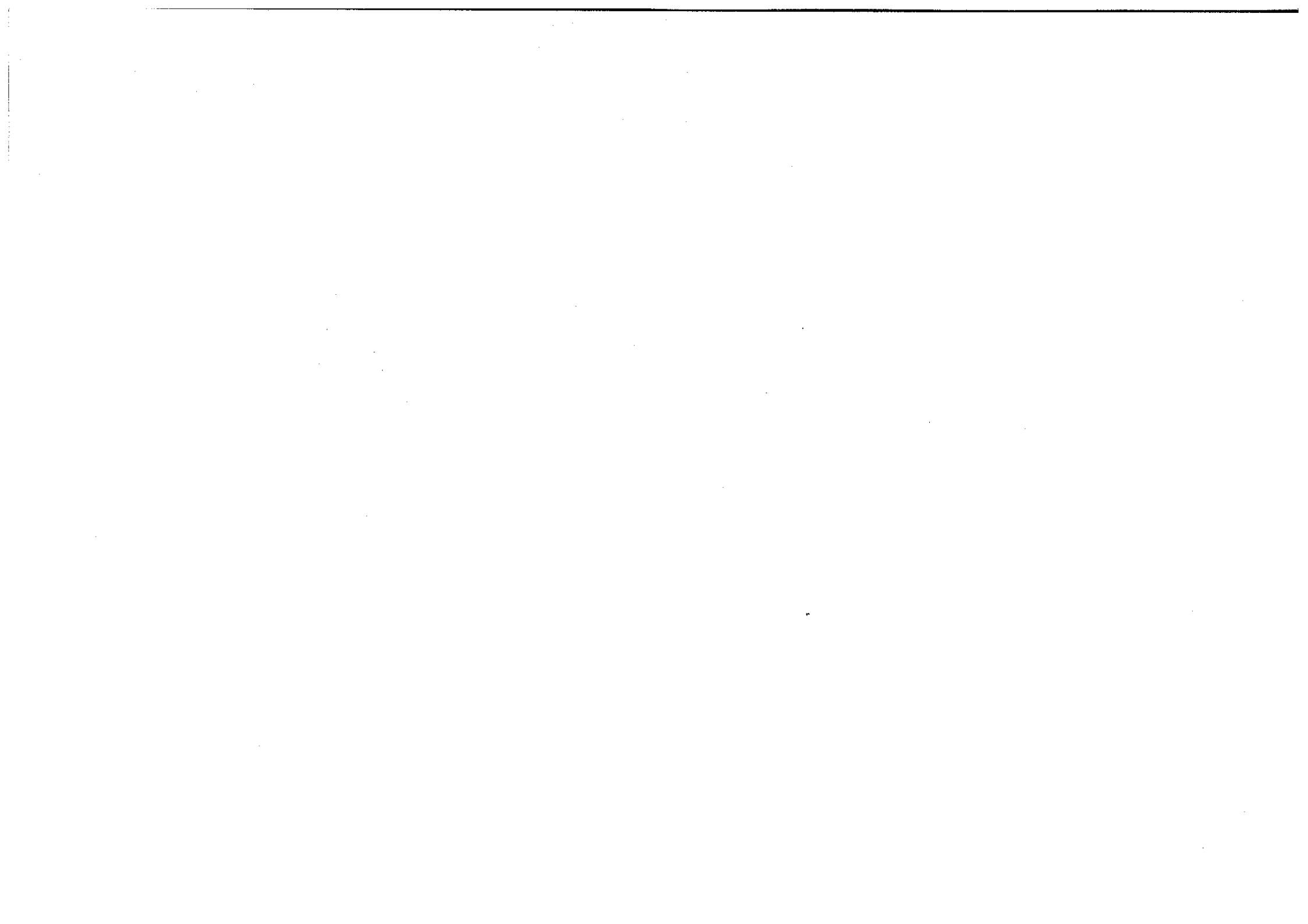
Date	Receptor No.	Set No.	Time periods		Weather condition	Site condition	Temp. (°C)	Pressure (mmHg)	1-hour TSP Level ($\mu\text{g}/\text{g}^3$)
			Start	Finish					
07-May-04	AM2	1	9:01	10:01	Fine	normal operation	24.0	760.0	197.4
07-May-04	AM2	2	10:01	11:01	Fine	normal operation	24.0	760.0	190.7
07-May-04	AM2	3	11:01	12:01	Fine	normal operation	24.0	760.0	185.4
07-May-04	AM3	1	8:59	9:59	Fine	normal operation	24.0	760.0	198.5
07-May-04	AM3	2	9:59	10:59	Fine	normal operation	24.0	760.0	189.9
07-May-04	AM3	3	10:59	11:59	Fine	normal operation	24.0	760.0	182.6
07-May-04	AM4	1	8:58	9:58	Fine	normal operation	24.0	760.0	190.7
07-May-04	AM4	2	9:58	10:58	Fine	normal operation	24.0	760.0	181.0
07-May-04	AM4	3	10:58	11:58	Fine	normal operation	24.0	760.0	181.3
07-May-04	AM5	1	8:56	9:56	Fine	normal operation	24.0	760.0	177.6
07-May-04	AM5	2	9:56	10:56	Fine	normal operation	24.0	760.0	165.7
07-May-04	AM5	3	10:56	11:56	Fine	normal operation	24.0	760.0	171.2
07-May-04	AM6	1	8:49	9:49	Fine	normal operation	24.0	760.0	202.2
07-May-04	AM6	2	9:49	10:49	Fine	normal operation	24.0	760.0	194.6
07-May-04	AM6	3	10:49	11:49	Fine	normal operation	24.0	760.0	179.6
13-May-04	AM2	1	9:26	10:26	Fine	normal operation	28.0	756.0	120.7
13-May-04	AM2	2	10:26	11:26	Fine	normal operation	28.0	756.0	103.8
13-May-04	AM2	3	13:00	14:00	Fine	normal operation	28.0	756.0	95.6
13-May-04	AM3	1	8:37	9:37	Fine	normal operation	28.0	756.0	138.6
13-May-04	AM3	2	9:37	10:37	Fine	normal operation	28.0	756.0	124.9
13-May-04	AM3	3	10:37	11:37	Fine	normal operation	28.0	756.0	129.4
13-May-04	AM4	1	7:39	8:39	Fine	normal operation	28.0	756.0	118.5
13-May-04	AM4	2	8:39	9:39	Fine	normal operation	28.0	756.0	104.9
13-May-04	AM4	3	9:39	10:39	Fine	normal operation	28.0	756.0	90.2
13-May-04	AM5	1	8:03	9:03	Fine	normal operation	28.0	756.0	127.5
13-May-04	AM5	2	9:03	10:03	Fine	normal operation	28.0	756.0	107.1
13-May-04	AM5	3	10:03	11:03	Fine	normal operation	28.0	756.0	104.3
13-May-04	AM6	1	8:04	9:04	Fine	normal operation	28.0	756.0	152.5
13-May-04	AM6	2	9:04	10:04	Fine	normal operation	28.0	756.0	139.2
13-May-04	AM6	3	10:04	11:04	Fine	normal operation	28.0	756.0	110.7
19-May-04	AM2	1	8:15	9:15	Fine	normal operation	25.0	756.0	188.9
19-May-04	AM2	2	9:15	10:15	Fine	normal operation	25.0	756.0	217.4
19-May-04	AM2	3	10:15	11:15	Fine	normal operation	25.0	756.0	211.2
19-May-04	AM3	1	8:07	9:07	Fine	normal operation	25.0	756.0	195.1
19-May-04	AM3	2	9:07	10:07	Fine	normal operation	25.0	756.0	226.3
19-May-04	AM3	3	10:07	11:07	Fine	normal operation	25.0	756.0	234.3
19-May-04	AM4	1	8:07	9:07	Fine	normal operation	25.0	756.0	208.6
19-May-04	AM4	2	9:07	10:07	Fine	normal operation	25.0	756.0	211.1
19-May-04	AM4	3	10:07	11:07	Fine	normal operation	25.0	756.0	218.4
19-May-04	AM5	1	8:47	9:47	Fine	normal operation	25.0	756.0	201.4
19-May-04	AM5	2	9:47	10:47	Fine	normal operation	25.0	756.0	187.9
19-May-04	AM5	3	10:47	11:47	Fine	normal operation	25.0	756.0	213.4
19-May-04	AM6	1	9:20	10:20	Fine	normal operation	25.0	756.0	257.8
19-May-04	AM6	2	10:20	11:20	Fine	normal operation	25.0	756.0	235.7
19-May-04	AM6	3	13:00	14:00	Fine	normal operation	25.0	756.0	260.8
25-May-04	AM2	1	8:35	9:35	Fine	normal operation	26.0	757.0	205.3
25-May-04	AM2	2	9:35	10:35	Fine	normal operation	26.0	757.0	222.6
25-May-04	AM2	3	10:35	11:35	Fine	normal operation	26.0	757.0	219.7
25-May-04	AM3	1	8:50	9:50	Fine	normal operation	26.0	757.0	213.5
25-May-04	AM3	2	9:50	10:50	Fine	normal operation	26.0	757.0	220.1
25-May-04	AM3	3	10:50	11:50	Fine	normal operation	26.0	757.0	218.6
25-May-04	AM4	1	13:12	14:12	Fine	normal operation	26.0	757.0	194.4
25-May-04	AM4	2	14:12	15:12	Fine	normal operation	26.0	757.0	190.5
25-May-04	AM4	3	15:12	16:12	Fine	normal operation	26.0	757.0	188.3
25-May-04	AM5	1	13:17	14:17	Fine	normal operation	26.0	757.0	193.4
25-May-04	AM5	2	14:17	15:17	Fine	normal operation	26.0	757.0	197.1
25-May-04	AM5	3	15:17	16:17	Fine	normal operation	26.0	757.0	165.0
25-May-04	AM6	1	10:40	11:40	Fine	normal operation	26.0	757.0	207.7
25-May-04	AM6	2	13:02	14:02	Fine	normal operation	26.0	757.0	184.4
25-May-04	AM6	3	14:02	15:02	Fine	normal operation	26.0	757.0	183.2

Details of 1-Hour TSP Monitoring

Date	Receptor No.	Set No.	Time periods		Weather condition	Site condition	Temp. (°C)	Pressure (mmHg)	1-hour TSP Level ($\mu\text{g}/\text{g}^3$)
			Start	Finish					
31-May-04	AM2	1	9:00	10:00	Fine	normal operation	31.0	759.0	143.3
31-May-04	AM2	2	10:00	11:00	Fine	normal operation	31.0	759.0	128.9
31-May-04	AM2	3	11:00	12:00	Fine	normal operation	31.0	759.0	163.3
31-May-04	AM3	1	8:52	9:52	Fine	normal operation	31.0	759.0	115.5
31-May-04	AM3	2	9:52	10:52	Fine	normal operation	31.0	759.0	100.5
31-May-04	AM3	3	10:52	11:52	Fine	normal operation	31.0	759.0	125.2
31-May-04	AM4	1	8:19	9:19	Fine	normal operation	31.0	759.0	123.7
31-May-04	AM4	2	9:19	10:19	Fine	normal operation	31.0	759.0	101.1
31-May-04	AM4	3	10:19	11:19	Fine	normal operation	31.0	759.0	97.3
31-May-04	AM5	1	8:35	9:35	Fine	normal operation	31.0	759.0	151.8
31-May-04	AM5	2	9:35	10:35	Fine	normal operation	31.0	759.0	119.7
31-May-04	AM5	3	10:35	11:35	Fine	normal operation	31.0	759.0	122.6
31-May-04	AM6	1	8:40	9:40	Fine	normal operation	31.0	759.0	159.8
31-May-04	AM6	2	9:40	10:40	Fine	normal operation	31.0	759.0	143.3
31-May-04	AM6	3	10:40	11:40	Fine	normal operation	31.0	759.0	138.2

Appendix 7

Construction Noise Permits



本署編號
OUR REF: (4) in EP531/N01/TN0221-04
來函編號
YOUR REF:
電話
TEL. NO.: 2158 5823
圖文傳真
FAX NO.: 2685 1133
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.

CHINA HARBOUR ENG. CO. (GROUP) Contract T 7 - Ma On Shan
21 MAY 2004
RECEIVED
Subject File : 02.03 I
Serial No : 07188



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

Registered Post

20 May 2004

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

Dear Sir,

**Notice of Issue of Construction Noise Permit Pursuant
to Section 8(6) of the Noise Control Ordinance (Cap. 400)**

I write to inform you that, under section 8(6) of the Noise Control Ordinance, the Authority has decided to issue a construction noise permit in respect of your application, which was received by the Authority on 10 May 2004, for the use of powered mechanical equipment for carrying out construction work at Construction site of Trunk Road T7 at CH2350-CH2470 near Heng On Estate, Ma On Shan, N. T. for Road Paving Works.

The construction noise permit No. GW-TN0221-04 is enclosed.

You are advised to read the conditions of the permit carefully and to ensure compliance with these conditions. Any breaching of the conditions may lead to cancellation of the permit, subsequent prosecution action and the Authority's refusal to issue further permit for the above construction site.

Yours faithfully,

(SZETO Wing-kwok)
for Authority

**FORM 3
NOISE CONTROL ORDINANCE
(Chapter 400)
SECTION 8(9)**

[reg.5(a)]

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

CONSTRUCTION NOISE PERMIT NO. GW-TN0221-04

To: China Harbour Engineering Company (Group)

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

CONDITIONS

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

Full address: Construction site of Trunk Road T7 at CH2350-CH2470 near Heng On Estate,
Ma On Shan, N. T. for Road Paving Works Lot No. -----

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

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

3. Powered Mechanical Equipment

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

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

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

Date and time of commencement: 21 May 2004 At 1900 hours

Days and hours: General holiday including sundays between 0700 and 2300 hours and any day not being a general holiday including sundays between 1900 and 2300 hours.

This part of the permit expires on: 15 November 2004 At 2300 hours

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

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

Refer to attached sheet.

4. Prescribed Construction Work

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

<i>Identification code of type of prescribed construction work</i>	<i>Description of type of Prescribed construction work</i>
	NIL
/	

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

Date and time of commencement: Not applicable at Not applicable

Days and hours: Not applicable

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

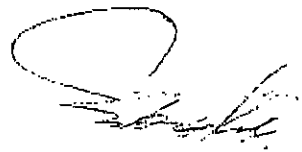
c. Site layout plan(s), endorsed by the Authority, may be attached with the permit to indicate the locations permitted for the carrying out of prescribed construction work described in this permit. The layout plan(s) is(are) required to be kept on the construction site and made available for inspection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

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

Not applicable

5. This construction noise permit or a copy thereof must be displayed on the construction site at All vehicular site entrance of the road section on a standing sign board of adequate size for public information at all times when the powered mechanical equipment covered by this permit are being used for carrying out construction work.

Dated this 20th Day of May 2004



Signed: _____

(SZETO Wing-kwok)

For Authority

* Delete as necessary

表格 3
噪音管制條例
(第 400 章)
第 8(9) 條

[第 5(a) 條]

建築噪音許可證
為進行建築工程 (擻擊式打樁除外)
而使用機動設備及 / 或進行訂明建築工程

建築噪音許可證編號: GW-TN0221-04致: 中國港灣建設(集團)總公司

本建築噪音許可證是按照《噪音管制條例》第 8 條的規定而發出的。現准予使用機動設備以進行擻擊式打樁工程以外的建築工程及 / 或進行訂明建築工程，但須受以下條件規限。若不按照該等條件進行建築工程，許可證可遭撤銷，而且會受到檢控。

條 件

1. 可使用機動設備及 / 或進行訂明建築工程的建築地盤：

詳細地址：新界馬鞍山 T7 公路近恒安邨錄距由 2350 至 2470 的建築地盤進行鋪設路面工程

地段編號：-----

地盤範圍(即可使用機動設備及進行訂明建築工程的地方範圍)已描劃於夾附的圖則上，而該圖則是本建築噪音許可證的一部分。

2. 該地盤部份 / 全部 * 位於指定範圍之內 / 外 *

3. 機動設備

- a. 在地盤範圍內可使用的各項機動設備：

各項機動設備的識辨代碼 (如適用的話)	各項機動設備的說明	數目
	參照附頁。	

- b. 可使用機動設備的建築噪音許可證有效期：

生效日期及時間：二零零四年五月二十一日晚上七時正

日期及時間：公眾假日包括星期日早上七時正至晚上十一時正及公眾假日包括星期日以外的任何一天晚上七時正至晚上十一時正。

此部分許可證屆滿日期及時間：二零零四年十一月十五日晚上十一時正

日期

時間

- c. 建築地盤須備有本建築噪音許可證所述每件機動設備的照片各一幀，供監督隨時查看；該等照片須經監督認可。

- d. 規限使用機動設備的其他條件：

參照附頁。

4. 訂明建築工程

a. 在地盤範圍內可進行的訂明建築工程：

訂明建築工程的識別代碼	訂明建築工程的類別的說明
	無

b. 可進行訂明建築工程的建築噪音許可證有效期期：

生效日期及時間：不適用

日期及時間：不適用

此部分許可證屆滿日期及時間：不適用

c. 本許可證可夾附經監督認可的地盤圖則，以顯示本許可證准予進行訂明建築工程的地點。該地盤圖則須存放於建築地盤供監督隨時查看。

d. 規限進行訂明建築工程的其他條件：

不適用

5. 本建築噪音許可證或其副本必須展示於建築地盤的所有車輛進出口處，道路工程所豎立的適當告示牌上，以便在使用此證內所載列的機動設備進行建築工程的任何時候，給予公眾人士參閱。

日期：二零零四年五月二十日



簽署：_____

(司徒永國代行)

監督

• 刪去不適用者

Sheet 1 of 1

**Sheet Attached to Construction
Noise Permit No. GW-TN0221-04**

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

<i>Identification code of Item of powered mechanical equipment (if applicable)</i>		<i>Description of item of Powered mechanical equipment</i>	<i>No. of units</i>
Group A :	CNP103 CNP201	Generator, super silenced, 70 dB(A) at 7 m Saw, circular, wood	One One
Group B :	CNP 081	Excavator, tracked	One

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

- i. Only one group of the above powered mechanical equipment shall be allowed to be operated at any time.
- ii. The above powered mechanical equipment shall not be operated when any powered mechanical equipment covered by the CNP GW-TN0124-04, GW-TN0200-04, GW-TN0213-04 or GW-TN0222-04 is being operated.
- iii. Generator, super silenced, 70 dB(A) at 7m (CNP 103) shall only be operated inside an acoustic enclosure such that no part of such equipment is **VISIBLE** from any nearby noise sensitive receivers. The acoustic enclosure shall be composed of four side-panels and one top-panel. The panels shall be made of minimum 10mm thick plywood or 1mm thick steel outer skin and minimum 50mm thick sound absorbing lining.
- iv. Colour copies of two pages of A3 size notice showing "Key Information" of this Construction Noise Permit shall be displayed at all times next to copies of this Construction Noise Permit.
- v. All care shall be taken to ensure that the construction work is carried out as quickly as possible with due regard for the potential noise intrusion which may result.



Signed :

(Signature)
 (SZETO Wing-kwok)
 for Authority

建築噪音許可證
編號GW-TN0221-04的附頁 (共一頁)

3a. 在地盤範圍內可使用的各項機動設備：

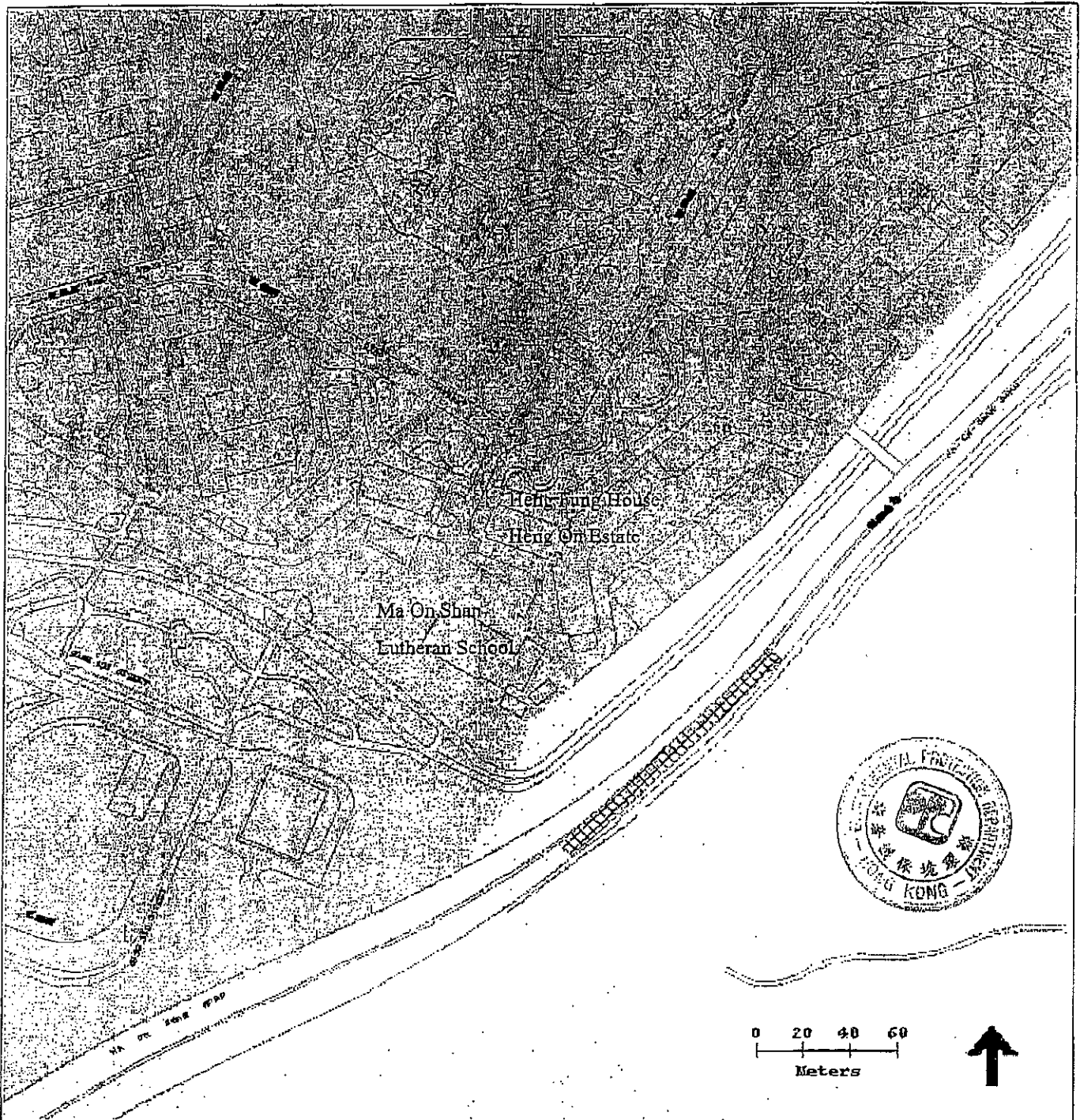
各項機動設備的識別代碼(如適用的話)		各項機動設備的說明	數目
A 組:	CNP 103 CNP 201	發電機·超低噪音型在7米距離時70分貝(A) 圓型木鋸	壹 壹
B 組:	CNP 081	挖土機,履帶式	壹

3d. 規限使用機動設備的其他條件：

- i. 在任何時間內,祇可使用一組上述的機動設備。
- ii. 當使用許可證編號GW-TN0124-04, GW-TN0200-04, GW-TN0213-04 或 GW-TN0222-04 的任何機動設備時,不可使用此許可證內載列的機動設備。
- iii. 發電機,超低噪音型在7米距離時70分貝(A)(CNP 103)祇可在隔音罩內操作,使該等設備的任何部份均無法在任何鄰近噪音感應強的地方見到。該隔音罩必須由四件則板障及一件上板障所組成及必須以不少於50毫米厚的吸音襯墊及10毫米厚的木板或1毫米厚的鐵板外皮造成。
- iv. 在任何時間內展示兩頁載有本建築噪音許可證內「主要資料」之A3尺寸告示的彩色副本於本建築噪音許可證旁。
- v. 本許可證持有人須確保竭力從速完成該等建築工程,並小心防範會引起的噪音干擾。



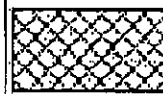
簽署： _____
監督
(司徒永國代行)



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

Scale
 比例
 1:2500

Legend 圖例



Construction Site
 建築地盤

Plan attached to Construction Noise Permit No. GW-TN0221-04
 建築噪音許可證編號 GW-TN0221-04 的附圖

主要資料 Key Information

建築噪音許可證編號:

Construction Noise Permit No.: **GW-TN0221-04**

許可證持有人:

中國港灣建設(集團)總公司

地點:

新界馬鞍山T7公路近恒安邨鍊距由2350至2470的建築地盤進行鋪設路面工程

有效期:

2004年5月21日至2004年11月15日

生效時間:

星期一至六(公眾假日除外) 晚上7時正至晚上11時正
公眾假日 早上7時正至晚上11時正

Permit Holder:

China Harbour Engineering Company (Group)

Location:

Construction site of Trunk Road T7 at CH2350-CH2470 near Heng On Estate, Ma On Shan, N. T. for Road Paving Works

Validity period:

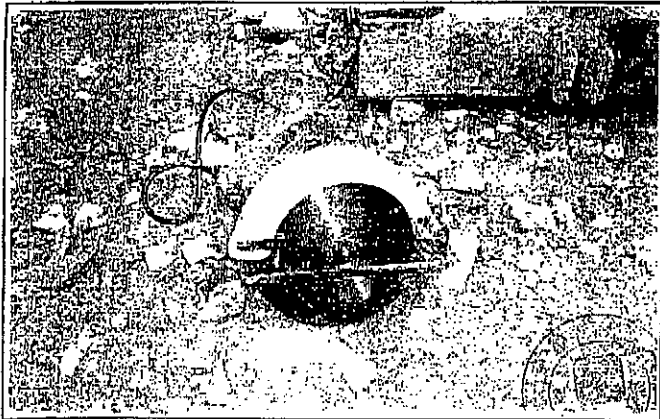
21 May 2004 to 15 November 2004

Permitted Hours:

Mon.-Sat.(except general holidays) 7:00pm to 11:00pm
General holiday 7:00am to 11:00pm

准許

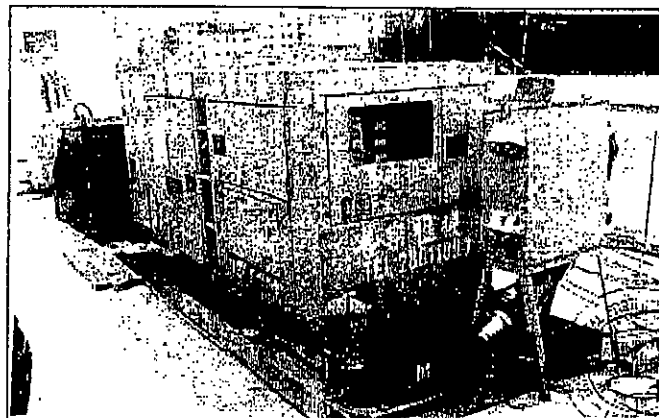
Permit



壹部 圓型木鋸
One Saw, circular, wood



壹部 挖土機·履帶式
One Excavator, tracked



壹部 發電機, 超低噪音型在7米距離時70分貝(A)
One Generator, super silenced, 70 dB(A) at 7 m

主要資料 Key Information**其他**

如欲了解其他獲准使用的機動設備或限制條件，請參閱建築噪音許可證 GW-TN0221-04。

投訴或查詢

如需即時協助請致電馬鞍山分區警署，電話 2640-0109。

如有需要，請於辦公時間內致電 環境保護署 要求跟進，電話 2838-3111。

*在星期一至六(假日除外)的上午7時至下午7時所進行的建築工程不受噪音管制條例管制。

Others

Please refer to the Construction Noise Permit GW-TN0221-04 for other permitted powered mechanical equipment or conditions.

Complaint or Enquiry

Please call **Ma On Shan Division Police Station** at **2640-0109** for immediate assistance.

Please call **Environmental Protection Department** during office hours at **2838-3111** for follow-up action, if necessary.

Construction work conducted between 7am - 7pm from Mon. to Sat. (except public holidays) is not controlled under the Noise Control Ordinance.

本署編號
OUR REF: (A) in EP531/N01/TN0222-04
來函編號
YOUR REF:
電話
TEL NO.: 2158 5823
圖文傳真
FAX NO.: 2685 1133
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
上禾輦路一號
沙田政府合署 10 樓

CHINA HARBOUR ENG. CO. (GROUP) Contract T7 - Ma On Shan
21 MAY 2004
RECEIVED
Subject File: 02.03 I
Serial No: 07189

Registered Post

20 May 2004

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

Dear Sir,

**Notice of Issue of Construction Noise Permit Pursuant
to Section 8(6) of the Noise Control Ordinance (Cap. 400)**

I write to inform you that, under section 8(6) of the Noise Control Ordinance, the Authority has decided to issue a construction noise permit in respect of your application, which was received by the Authority on 10 May 2004, for the use of powered mechanical equipment for carrying out construction work at Construction site of Trunk Road T7 at CH2200-CH2350 near Heng On Estate, Ma On Shan, N. T., for Road Paving Works.

The construction noise permit No. GW-TN0222-04 is enclosed.

You are advised to read the conditions of the permit carefully and to ensure compliance with these conditions. Any breaching of the conditions may lead to cancellation of the permit, subsequent prosecution action and the Authority's refusal to issue further permit for the above construction site.

Yours faithfully,

(SZETO Wing-kwok)
for Authority



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 May 2004
Our Ref.: T7/01.01/O/010342

Maunsell Consultants Asia Ltd
No.7 Lok Wo Shan Lane
Ma On Shan, N.T.

Attention: Mr. K. H. Cheng - CRE

Dear Sirs,

Contract No. ST86/2000
Construction of Road T7 in Ma on Shan
Construction Noise Permit for Road Paving Works at Trunk Road T7 Ch2200 – Ch2350 near Heng On Estate

We are pleased to inform you that EPD had issued a Construction Noise Permit No.: GW-TN0222-04 for the use of powered mechanical equipment for the road paving works at Trunk Road T7 Ch2200 – Ch2350 near Heng On Estate for all days during evening time (1900 to 2300 hours) from 21 May 2004 to 15 November 2004. Enclosed please find the attached construction noise permit for your record.

Thank you for your kind attention.

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

Chris Lau
Project Manager

CL/SMM/ADH/CL

Encl.

c.c. MCAL – H.O. (w/e)
CHEC – H.O. (w/o)
OAP – Angus Choi

Days and hours :

FORM 3
NOISE CONTROL ORDINANCE
 (Chapter 400)
 SECTION 8(9)

[reg.5(a)]

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

CONSTRUCTION NOISE PERMIT NO. GW-TN0222-04To: China Harbour Engineering Company (Group)

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

CONDITIONS

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

Full address: Construction site of Trunk Road T7 at CH2200-CH2350 near Heng On Estate,
 Ma On Shan, N. T., for Road Paving Works Lot No. -----

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

2. *PART/WHOLE of the site falls *WITHIN/OUTSIDE a designated area
 3. Powered Mechanical Equipment

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

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

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

Date and time of commencement : 21 May 2004 At 0700 hours

Days and hours General holiday including Sundays between 0700 and 1900 hours and any day
 not being a general holiday including Sundays between 1900 and 2300 hours.

This part of the permit expires on : 15 November 2004 At 1900 hours

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

Refer to attached sheet.

4. Prescribed Construction Work

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

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

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

Date and time of commencement : Not applicable at Not applicable

Days and hours : Not applicable

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

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


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

Not applicable

5. This construction noise permit or a copy thereof must be displayed on the construction site at both ends of the road section on a standing sign board of adequate size for public information at all times when the powered mechanical equipment covered by this permit are being used for carrying out construction work.

Dated this 20th Day of May 2004

Signed:



(SZETO Wing-kwok)

For Authority

* Delete as necessary

表格 3
噪音管制條例
(第400章)
第8(9)條

[第5(a)條]

建築噪音許可證
為進行建築工程(撞擊式打樁除外)
而使用機動設備及/或進行訂明建築工程

建築噪音許可證編號: GW-TN0222-04致: 中國港灣建設(集團)總公司

本建築噪音許可證是按照《噪音管制條例》第8條的規定而發出的。現准予使用機動設備以進行撞擊式打樁工程以外的建築工程及/或進行訂明建築工程，但須受以下條件規限。若不按照該等條件進行建築工程，許可證可遭撤銷，而且會受到檢控。

條 件

1. 可使用機動設備及/或進行訂明建築工程的建築地盤：

詳細地址：新界馬鞍山T7公路近恒安邨鍊距由2200至2350的建築地盤進行鋪設路面工程

地段編號：-----

地盤範圍(即可使用機動設備及進行訂明建築工程的地方範圍)已描劃於夾附的圖則上，而該圖則是本建築噪音許可證的一部分。

2. 該地盤部份/全部*位於指定範圍之內/外*
3. 機動設備

- a. 在地盤範圍內可使用的各項機動設備：

各項機動設備的識別代碼 (如適用的話)	各項機動設備的說明	數目
	參照附頁。	

- b. 可使用機動設備的建築噪音許可證有效期：

生效日期及時間：二零零四年五月二十一日早上七時正

日期及時間：公眾假日包括星期日早上七時正至晚上十一時正及公眾假日包括星期日以外的任何一天晚上七時正至晚上十一時正。

此部分許可證屆滿日期及時間：二零零四年十一月十五日晚上七時正

日期

時間

- c. 建築地盤須備有本建築噪音許可證所述每件機動設備的照片各一幀，供監督隨時查看；該等照片須經監督認可。

- d. 規限使用機動設備的其他條件：

參照附頁。

4. 訂明建築工程

a. 在地盤範圍內可進行的訂明建築工程：

訂明建築工程的識辨代碼	訂明建築工程的類別的說明
	無

b. 可進行訂明建築工程的建築噪音許可證有效期：

生效日期及時間：不適用日期及時間：不適用此部分許可證屆滿日期及時間：不適用

c. 本許可證可夾附經監督認可的地盤圖則，以顯示本許可證准予進行訂明建築工程的地點。該地盤圖則須存放於建築地盤供監督隨時查看。

d. 規限進行訂明建築工程的其他條件：

不適用

5. 本建築噪音許可證或其副本必須展示於建築地盤的道路工程前後兩端所豎立的適當告示牌上，以便在使用此證內所載列的機動設備進行建築工程的任何時候，給予公眾人士參閱。

日期：二零零四年五月二十日簽署：

(司徒永國代行)

監督

刪去不適用者

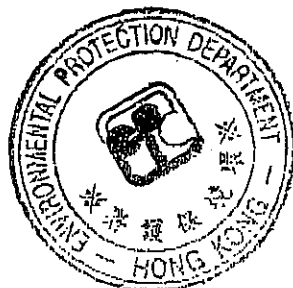
Sheet Attached to Construction
Noise Permit No. GW-TN0222-04

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

Identification code of item of powered mechanical equipment (if applicable)		Description of item of Powered mechanical equipment	No. of units
Group A :	CNP103	Generator, super silenced, 70 dB(A) at 7 m	One
	CNP201	Saw, circular, wood	One
Group B :	CNP 081	Excavator, tracked	One

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

- i. Only one group of the above powered mechanical equipment shall be allowed to be operated at any time.
- ii. The above powered mechanical equipment shall not be operated when any powered mechanical equipment covered by the CNP GW-TN0124-04, GW-TN0213-04 and GW-TN221-04 is being operated.
- iii. Generator, super silenced, 70 dB(A) at 7m (CNP 103) shall only be operated inside an acoustic enclosure such that no part of such equipment is VISIBLE from nearest domestic premises. The acoustic enclosure shall be composed of four side-panels and one top-panel. The panels shall be made of minimum 10mm thick plywood or 1mm thick steel outer skin and minimum 50mm thick sound absorbing lining.
- iv. Colour copies of two pages of A3 size notice showing "Key Information" of this Construction Noise Permit shall be displayed at all times next to copies of this Construction Noise Permit.
- v. All care shall be taken to ensure that the construction work is carried out as quickly as possible with due regard for the potential noise intrusion which may result.



Signed: _____
(SZETO Wing-kwok)
for Authority

附頁一

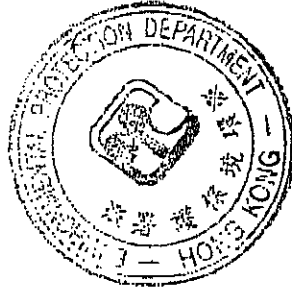
建築噪音許可證
編號GW-TN0222-04的附頁(共一頁)

3a. 在地盤範圍內可使用的各項機動設備：

各項機動設備的識別代碼(如適用的話)		各項機動設備的說明	數目
A 組:	CNP 103 CNP 201	發電機, 超低噪音型在 7 米距離時 70 分貝(A) 圓型木鋸	壹 壹
B 組:	CNP 081	挖土機, 履帶式	壹

3d. 規限使用機動設備的其他條件：

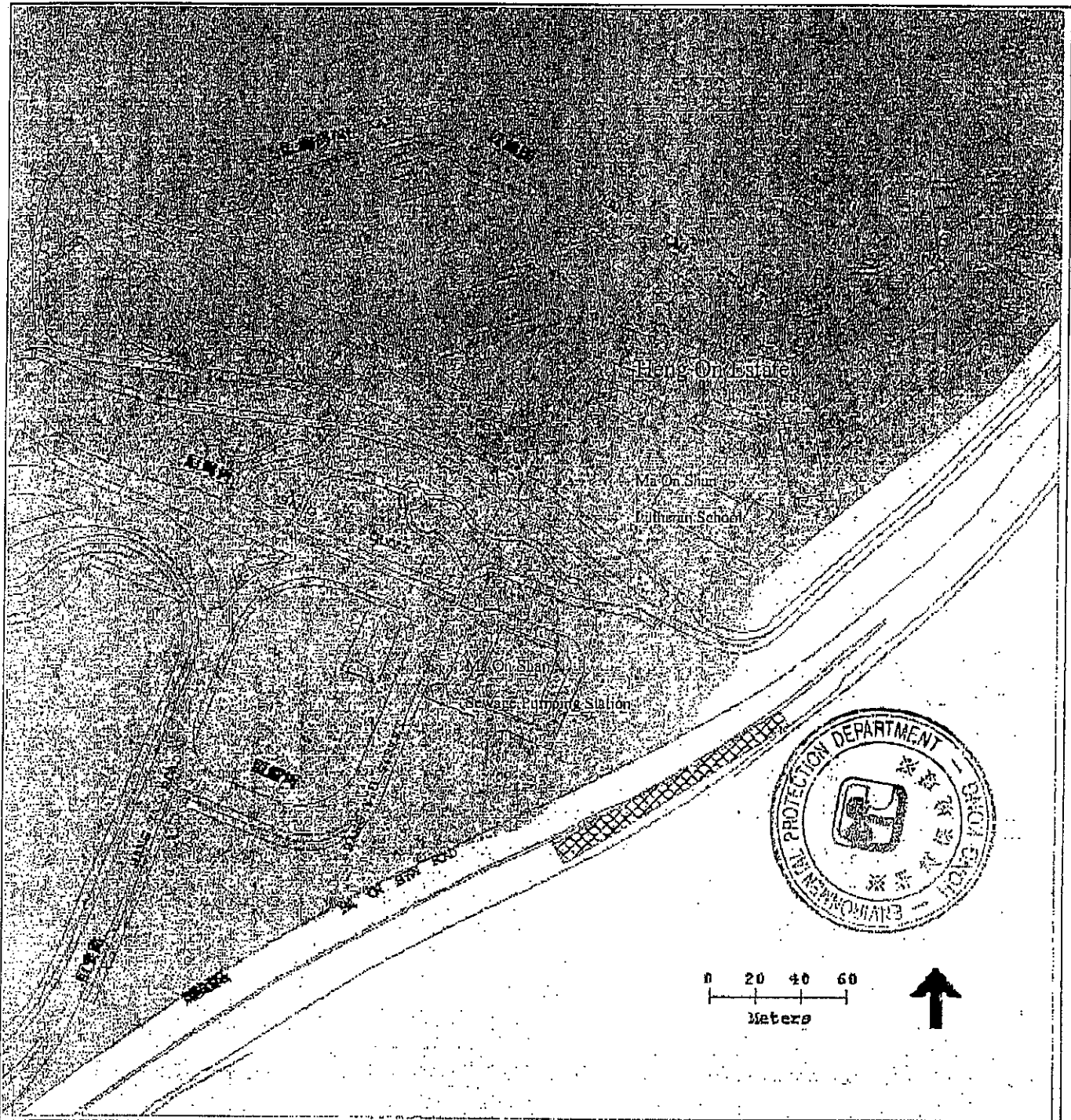
- i. 在任何時間內, 祇可使用一組上述的機動設備。
- ii. 當使用許可證編號GW-TN0124-04、GW-TN0213-04、GW-TN0221-04的任何機動設備時, 不可使用此許可證內載列的機動設備。
- iii. 發電機, 超低噪音型在 7 米距離時 70 分貝(A)(CNP 103)祇可在隔音罩內操作, 使該等設備的任何部份均無法在鄰近的民居見到。該隔音罩必須由四件側板障及一件上板障所組成及必須以不少於 50 毫米厚的吸音襯墊及 10 毫米厚的木板或 1 毫米厚的鐵板外皮造成。
- iv. 在任何時間內展示兩頁載有本建築噪音許可證內「主要資料」之 A3 尺寸告示的彩色副本於本建築噪音許可證旁。
- v. 本許可證持有人須確保竭力從速完成該等建築工程, 並小心防範會引起的噪音干擾。

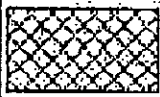


簽署：



監督
(司徒永國代行)



Environmental Protection Department Noise Control Authority 環境保護署 噪音管制監督	Scale 比例 1:2500	Legend 圖例 	Construction Site 建築地盤
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Plan attached to Construction Noise Permit No. GW-TN0222-04
 建築噪音許可證編號 GW-TN0222-04 的附圖

主要資料 Key Information

建築噪音許可證編號:

Construction Noise Permit No.: **GW-TN0222-04**

許可證持有人:

中國港灣建設(集團)總公司

地點:

新界馬鞍山T7公路近恒安邨鍊距由2200至2350的建築地盤進行鋪設路面工程

有效期:

2004年5月21日至2004年11月15日

生效時間:

星期一至六(公眾假日除外) 晚上7時正至晚上11時正
公眾假日 早上7時正至晚上11時正

Permit Holder:

China Harbour Engineering Company (Group)

Location:

Construction site of Trunk Road T7 at CH2200-CH2350 near Heng On Estate, On Ma On Shan, N. T., for Road Paving Works
21 May 2004 to 15 November 2004

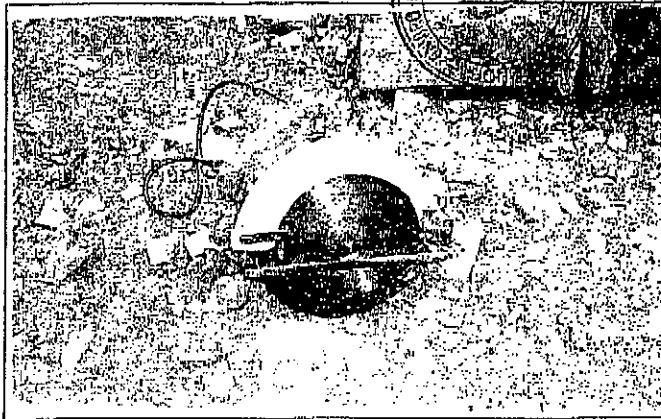
Validity period:

Permitted Hours:

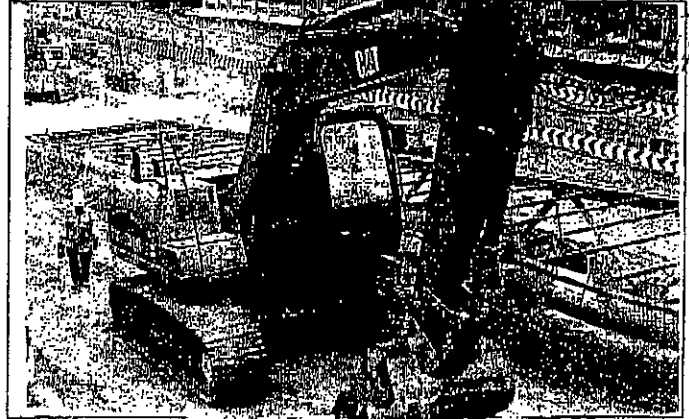
Mon.-Sat.(except general holidays) 7:00pm to 11:00pm
General holiday 7:00am to 11:00pm

准許

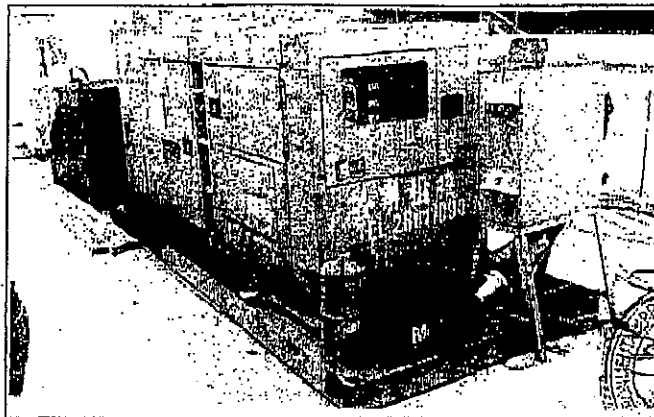
Permit



壹部 圓型木鋸
One Saw, circular, wood



壹部 挖土機，履帶式
One Excavator, tracked



壹部 發電機，超低噪音型在7米距離時70分貝(A) (必須在隔音罩內使用)
One Generator, super silenced, 70 dB(A) at 7 m (must be used inside an acoustic enclosure)

主要資料 Key Information

其他

如欲了解其他獲准使用的機動設備或限制條件，請參閱建築噪音許可證 GW-TN0222-04。

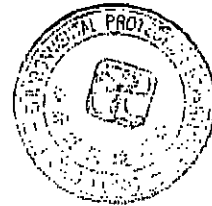
投訴或查詢

如需即時協助請致電馬鞍山分區警署，電話 2640-0109。

如有需要，請於辦公時間內致電 環境保護署 要求跟進，電話 2838-3111。

*在星期一至六(假日除外)的上午 7 時至下午 7 時所進行的建築工程不受噪音管制條例管制。

Others



Please refer to the Construction Noise Permit GW-TN0222-04 for other permitted powered mechanical equipment or conditions.

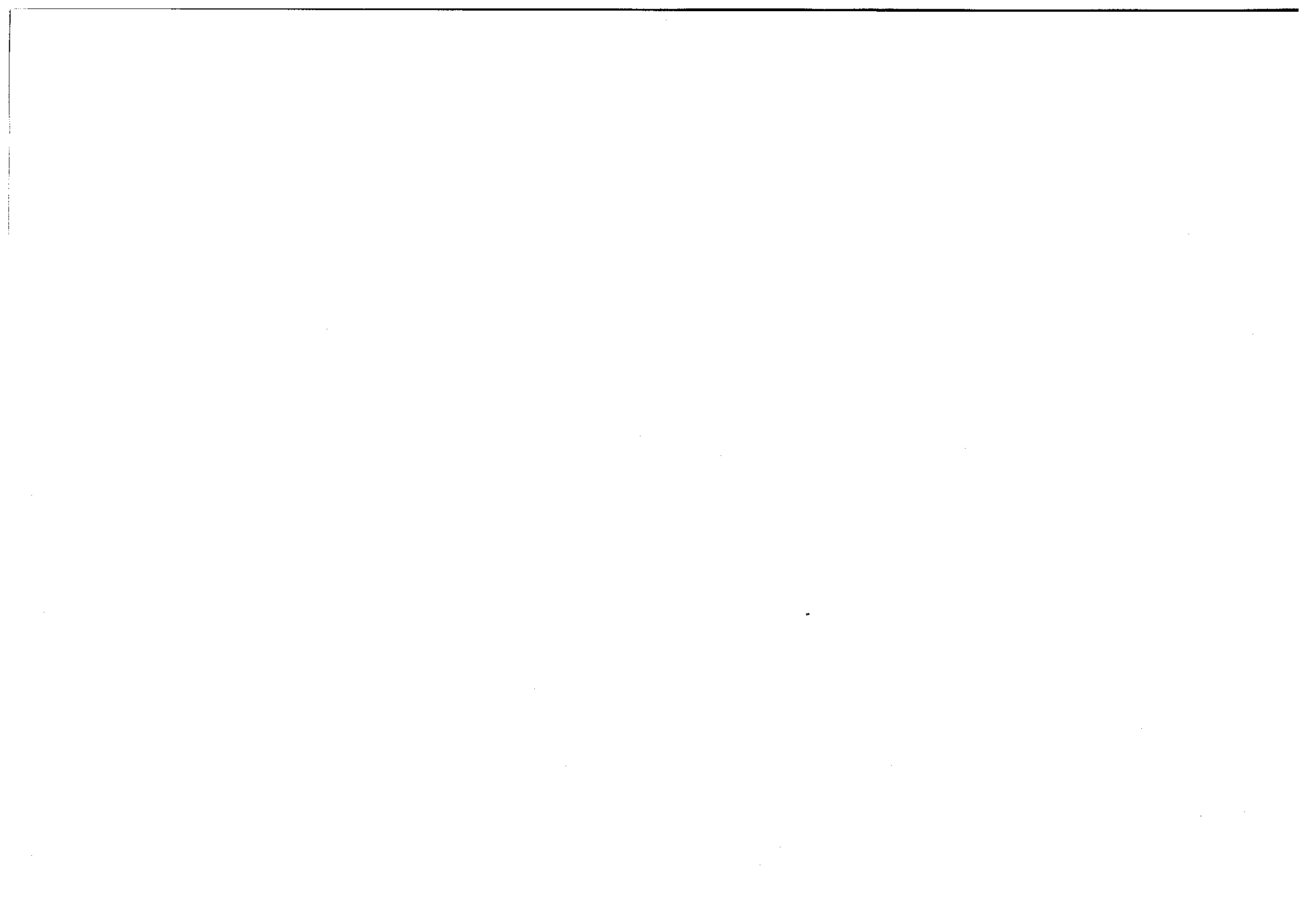
Complaint or Enquiry

Please call **Ma On Shan Division Police Station** at **2640-0109** for immediate assistance.

Please call **Environmental Protection Department** during office hours at **2838-3111** for follow-up action, if necessary.

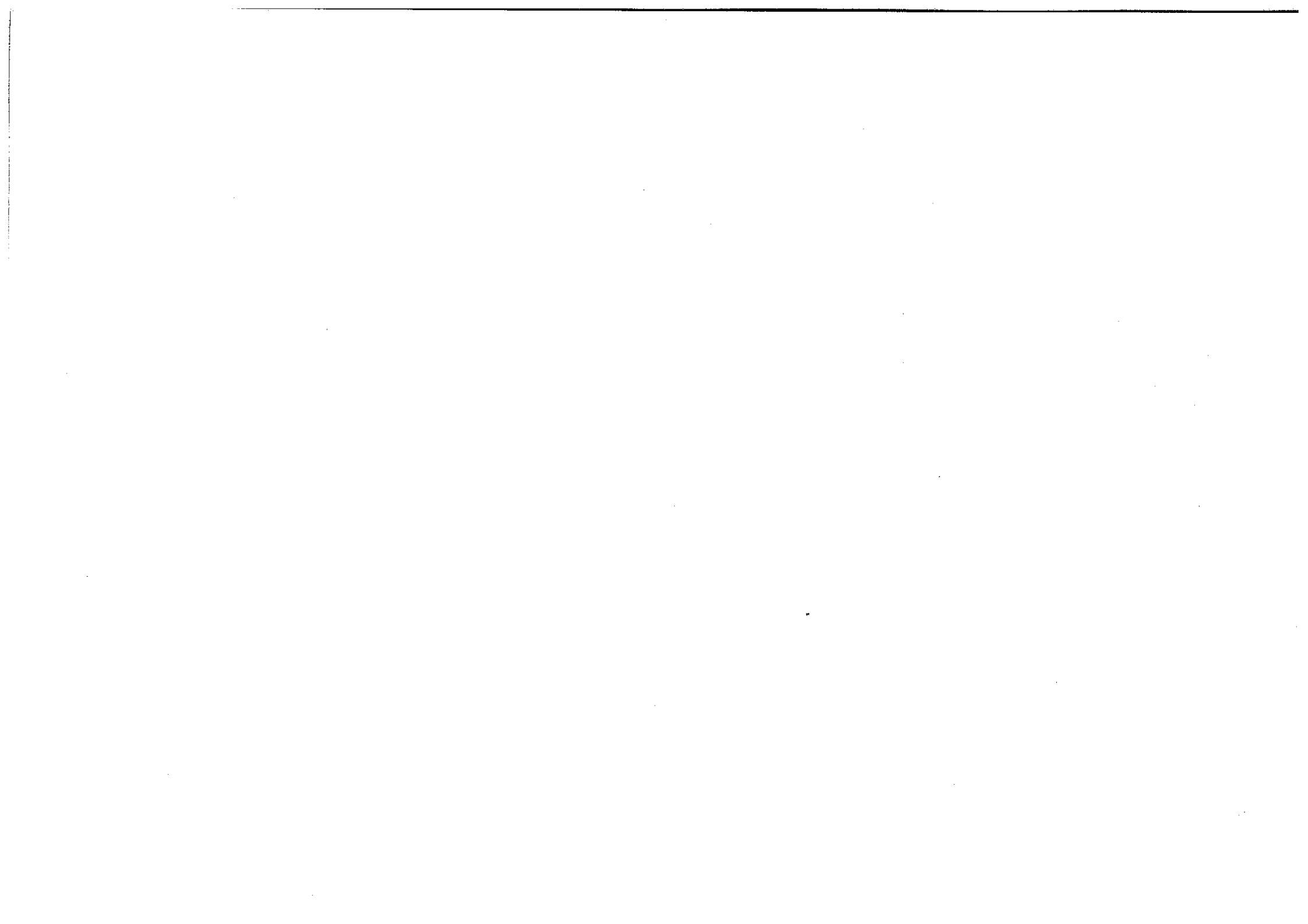
Construction work conducted between 7am - 7pm from Mon. to Sat. (except public holidays) is not controlled under the Noise Control Ordinance.





APPENDIX 8

Correspondences of Public Complaints



本署編號
 OUR REF: EP 580/E6/3/9
 來函編號
 YOUR REF:
 電話
 TEL NO.:
 圖文傳真
 FAX NO.: 2158 5823
 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

8 May 2004

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

(Attn: Mr Sam Tsoi)

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

Dear Sir,

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

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

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

Arup Acoustics		Job No. 23156
Master Ref. 205	Project Ref.	Date
Reply Ref.	By:	
Action Required:		
Received 10 MAY 2004		
Inits.	ST	FL
Action	ST	FL
Info.	ST	FL
Copy	ST	FL

Yours faithfully,

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

Encl.

c.c. (all w/e) TDD (Attn: Mr. Felix Yung)
 Maunsell (Attn: Mr. Albert Lam)
 CHEC (Attn: Mr. Chan Man)

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

NOTICE OF COMPLAINTComplaint Ref. : N01/TN/00009078-04

EPIC Ref:

EPIC URL:

CASE DETAILS

(1) Incident Date/Time: 06/05/2004 16:41

(2) Incident Location : BLOCK 1, Kam Ying Court,
Sha Tin地址 : 錦英苑 1 座,
沙田區

(3) TPU : 757

(4) Description : COMPLAINT OF NIGHT TIME CONSTRUCTION NOISE FROM T7 CONSTRUCTION SITE NEAR
BLOCK 1, KAM YING COURT, SHA TIN

(5) Nature

(6) Affected Party

(7) Pollution Pattern

N66 - General construction noise except
renovation DMS - Domestic Premises

(8) Priority class : C - Routine

i.e. substantive reply to be made on or before 28/05/2004

(9) Repeated Complaint Ref :

DETAILS OF THE SUSPECTED POLLUTER

(1) Premises Name :

姓名 : 中國路橋

(2) Premises Address :

地址 :

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

COMPLAINT CASE(S) NEAR INCIDENT LOCATION

00015700-03

<u>Complaint Ref.</u>	<u>Cpt. Received Date</u>	<u>Sub. Reply Date</u>	<u>Nature Code</u>	<u>Nature Description</u>
N01/TN/00015700-03	10/10/2003	21/10/2003	N66	General construction noise except renovation
N01/TN/00015658-03	10/10/2003	13/10/2003	N66	General construction noise except renovation
N01/TN/00015641-03	10/10/2003	13/10/2003	N66	General construction noise except renovation

COMPLAINANT

(1) Name :

(2) Tel. No. : Day :

Night :

Mobile:

(3) Address :

地址 :

(4) Email Address :

CHANNEL OF COMPLAINT

Source channel: 01 - Phone

Source code : P-Public

Remarks :

投訴上址T7中國路橋的地盤,連續幾晚於凌晨12:00-6:00傳出強烈的機械噪音,要求EPD儘快
跟進!**ACTION OFFICERS**

	Nature Code	SEPO	EPO	CI	Act. Off. 1	Act. Off. 2	Act. Off. 3
Coordinator	N66	S[TN]2		CI[TN]2			

CASE INPUTTED BY HAUEI

Date : 06/05/2004 Time : 16:48



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: 13 May 2004
Our Ref.: T7/01.01/O/010260

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

Attention : Mr. K.H. Cheng - CRE

Dear Sirs

Contract No. ST86/2000
Sha Tin New Town, Stage II
Construction of Road T7 in Ma On Shan
Environmental Complaint EC-81
Public Complaint - Night Work from Midnight to 6.00am

Arup Acoustics ~~22156~~ 22156

Job No.	
File No.	
Master Ref.	ST86/2000
Project Ref.	
Reply Ref.	
By:	
Date	
Action Required:	
Received 17 MAY 2004	
Init.	FL SHR AC
Action	ST / A
Info.	
Copy	

We refer to the letter from EPD as attached in your letter dated 11 May 2004 (Ref.: T7(ST86/2000)/M05/412(0299)) regarding the night work from midnight to 6.00am. We investigated that there was no construction activity being carried out after 11.00pm in the vicinity of Kam Ying Court. However, we would patrol more frequently around the site area.

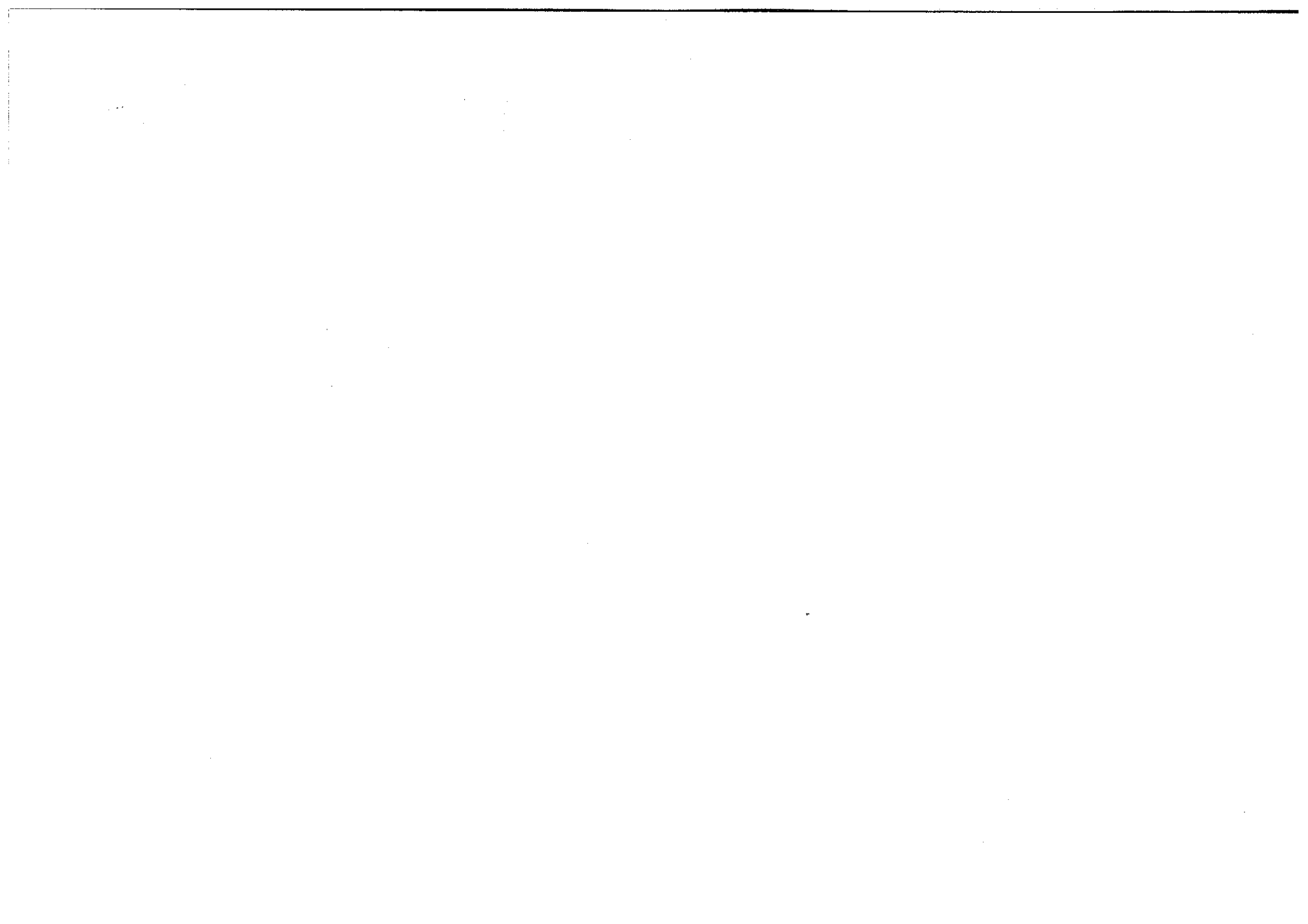
Thank you for your kind attention.

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

Chris Lau
Project Manager

CL/SMM/ADH/CL/fc ^{cc}

c.c. Ove Arup
MCAL - HO
CHEC - HO





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: 20 May 2004
Our Ref.: T7/01.01/O/010307

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

Attention: Mr. K.H. Cheng – CRE

Dear Sirs

Sha Tin New Town Stage II
Contract No. ST86/2000
Construction of Road T7 in Ma On Shan
Environmental Complaint EC-82
Public Complaint – Night Work Near Monte Vista

We refer to the letter from EPD as attached in your letter dated 17 May 2004 (Ref.: T7(ST86/2000)/M05/412(0303)) regarding the complaint from a resident in Blocks 1 & 2 of Monte Vista about night time construction noise.

We investigated that no construction activity was being carried out during night-time after 11.00pm in the vicinity of Monte Vista. However, we immediately contacted with the security department of Monte Vista and arranged to measure the noise level at the roof of Block 2 of Monte Vista on 14 May 2004, 15 May 2004 and 17 May 2004 respectively.

The captioned noise monitoring was carried out at 11.30pm together with a witness from Maunsell Consultants Asia Ltd. Please be informed that the noise level is within its limit, however we would patrol more frequently around the site area. Besides, it would be grateful if you can provide the contact number of the complainant in order to investigate the source of the noise. We are pleased to enclose herewith the noise monitoring record for your information and reference.

Thank you for your kind attention.

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

Chris Lau
Project Manager
CL/SMM/ADH/CL
Encl.
c.c. MCAL – HO
Ove Arup
CHEC – HO (w/o)

Arup Acoustics		Job No. 23156
Master Ref. T7/01.01/O/010307		File No.
Project Ref.:		
Reply Ref.:	By:	Date
Action Required:		
Received 24 MAY 2004		
Inits.	ST	FL
Action		SWT AC
Info.	ST	A
Copy		

Sha Tin New Town Stage II, Contract No. ST86/2000
 Construction of Road T7 in Ma On Shan
 Rock Excavation at slope opposite to Monte Vista
 Noise Monitoring Records in May 2004 (File, M05/405)

Noise Monitoring Point : Roof of Tower 2, Monte Vista : Noise Source : Stone Breaking at T7 Road

Time	Measurement Time	LAeq	LAmx	LAmn	LA05	LA10	LA50	LA90	LA95	Conducted by (CHEC)	Witness by (Maunsell)	Remarks
14/05/2004 23:35pm	00:30:00	54.3	80.3	49.4	55.8	53.2	51.5	50.7	50.6	Mr. Choi Kwok Fai	Tong	
15/05/2004 23:36pm	00:30:00	51.5	72.3	48.5	52.2	51.7	50.7	50	49.8	Mr. Choi Kwok Fai	Kwok	
17/05/2004 23:22pm	00:30:00	51.1	73.7	48.7	52.1	51.6	50.8	50	49.8	Mr. Choi Kwok Fai	Tong	

NOTICE OF COMPLAINT

Complaint Ref.: N01/TN/00009657-04
EPIC Ref:
EPIC URL:

CASE DETAILS

- (1) Incident Date/Time: 13/05/2004 00:00
- (2) Incident Location: BLOCK 1 & 2, Monte Vista, Sha Tin
地址: 翠擁华庭 1 & 2 座, 沙田區
- (3) TPU: 757
- (4) Description: COMPLAINT OF NIGHT TIME CONSTRUCTION NOISE FROM T7 TRUNK ROAD CONSTRUCTION SITE NEAR BLOCK 1 & 2 OF MONTE VISTA, SHA TIN
- (5) Nature:

N66 - General construction noise except renovation
--
- (6) Affected Party: DMS - Domestic Premises
- (7) Pollution Pattern:
- (8) Priority class: C - Routine
i.e. substantive reply to be made on or before 04/06/2004
- (9) Repeated Complaint Ref:

DETAILS OF THE SUSPECTED POLLUTER

- (1) Premises Name: UNKNOWN 姓名: 不知名
- (2) Premises Address: 地址:
- (3) Business Type: 511 - Construction site except renovation

COMPLAINANT

- (1) Name: 姓名: (2) Tel. No.: Day: Night: Mobile:
- (3) Address: 地址:
- (4) Email Address:

CHANNEL OF COMPLAINT

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

ACTION OFFICERS

	Nature Code	SEPO	EPO	CI	Act. Off. 1	Act. Off. 2	Act. Off. 3
Coordinator	N66	S[IN]2		CI[IN]2			

CASE INPUTTED BY TNTELE Date: 13/05/2004 Time: 16:49

