Maeda Corporation

Castle Peak Road Improvement Between Sham Tseng and Ka Loon Tsuen, Tsuen Wan West Contract No. HY/99/18

Monthly Environmental Monitoring and Audit Report June 2005

Third Issue

Maeda Corporation

West Contract No. HY/99/18 Castle Peak Road Improvement Between Sham Tseng and Ka Loon Tsuen, Tsuen Wan

Environmental Monitoring and Audit

Monthly Environmental Monitoring and Audit Report - June 2005

July 2005

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20 July 2005

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Your Ref:

Our

910-06/E05-51618

Ref:

For attention of: Mr. Sam Tsoi

Dear Mr. Tsoi

Contract HY/99/18 West Contract Castle Peak Road Improvement between Sham Tseng and Ka Loon Tsuen, Tsuen Wan Monthly EM&A Report (June 2005)

We refer to the electronic version of the captioned report submitted by your Mr. Fredrick Leung via e-mail on 8 July 2005 and subsequent revised page on 11 and 19 July 2005. We do not have further comment and endorsed the report.

Yours sincerely

Coleman Ng Independent Checker (Environmental) HYDER CONSULTING LIMITED

CC

MHJV Maeda Attention: Mr. Jeff Yu

Attention; Mr. Derek Elliott

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Document title En		Environmer	Environmental Monitoring and Audit Report – June 2005 File reference				
Document	t ref	23437-59					
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First Issue	07 July 2005	Description	Issue to IEC for con	nments			
			Prepared by	Checked by	Approved by		
		Name	Fredrick Leong	Sam Tsoi	Sam Tsoi		
		Signature	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10				
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Issue	2005	Description	Issue to IEC for cor	Issue to IEC for comments			
	 		Prepared by	Checked by	Approved by	_	
		Name	Fredrick Leong	Sam Tsoi	Sam Tsoi	•	
		Signature				; !	
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		Name	Fredrick Leong	Sam Tsoi	Sam Tsoi		
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ABBREVIATIONS AND ACTONYMS

A/L Action or Limit Levels
AQO Air Quality Objectives

Arup Ove Arup & Partners Hong Kong Limited

ASR Area Sensitive Rating

BOD Biochemical Oxygen Demand

B&K Brüel & Kjær

CFM Cubic Feet per Minute
CNP Construction Noise Permit

CT Contractor

C&D Construction & Demolition

DO Dissolved Oxygen

DGPS Differential Global Positioning System

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

HKPSG Hong Kong Planning Standards and Guidelines HKSAR Hong Kong Special Administrative Region

HOKLAS The Hong Kong Laboratory accreditation Scheme

HVS High Volume Sampler

IC(E) Independent Checker (Environment)

IEC International Electrotechnical Commission Publications

K Degrees KelvinMC Maeda Corporation

MHJV Mouchel Halcrow Joint Venture

NAMAS National Measurement accreditation Service

NTU Nephelometric Turbidity Unit NSR Noise Sensitive Receiver

SCFM Standard Cubic Feet per Minute

SS Suspended Solids

TSP Total Suspended Particulates

Tby Turbidity

EXECUTIVE SUMMARY

This is the 41st monthly environmental monitoring and audit (EM&A) report presenting the progress of environmental monitoring and audit works for the period between 1 to 30 June 2005, including air quality monitoring and noise monitoring. Air quality was measured in terms of 1-hour Total Suspended Particulates (TSP) and 24-hour TSP. Noise was measured in terms of Leq_(30min) with L₁₀ and L₉₀ measurements as references. Environmental works included the weekly environmental audit and the bi-weekly landscape and visual monitoring and audit.

Air Quality

A total of 5 sets of 3 consecutive 1-hour TSP measurements were conducted during the reporting month. The highest 1-hour TSP level of 337.8 μ g/m³ was recorded at G/F, Regent Height, Hong Kong Garden (WA4) on 10 June 2005 while the lowest 1-hour TSP level of 67.3 μ g/m³ was recorded at Car Park L3, Block 6, Phase 2, Sea Crest Villa (WA9) on 16 June 2005.

A total of 5 sets of 24-hours TSP measurement were conducted during the reporting month. The highest 24-hour TSP level of 144.6 $\mu g/m^3$ was recorded at G/F, Tsing Lung Tau Temple (WA6) on 3 June 2005 while the lowest 24-hour TSP level of 19.1 $\mu g/m^3$ was recorded at Podium, Block 1, Phase 1, Sea Crest Villa (WA10) on 15 June 2005.

There is no 1-hour and 24-hours exceedance of the Action and Limit (A/L) Levels registered during the monitoring period.

Noise

A total of 4 sets of daytime (0700 – 1900 hours) noise monitoring were conducted during the reporting month. The highest noise level of 74.5 dB(A) was recorded at G/F, Carpark, Lido Garden Tower 1 (WN16) on 6 June 2005 while the lowest noise level of 64.2 dB(A) was recorded at G/F, Hong Kong Garden (between Block 1 & 2) (WN7) on 28 June 2005.

No exceedance of the noise A/L Levels was recorded during the monitoring period.

Marine Water Quality

No marine water quality monitoring was conducted in June 2005.

Environmental Auditing

A total of 5 environmental site audits were conducted on a weekly basis in June 2005. No non-compliance with the environmental requirements was identified during the reporting period. The improvement actions against observations of the site audits for the Contractor included:

- Water quality: cleaning of open channels and mud trails.
- Air quality: exposed slope covering.
- Construction Noise: reduction of construction noise.
- Waste Management: clearing accumulated oil stain and proper storage of empty oil drums; improvement of house keeping of the store rooms.

Mosquito Control: moisture control against stagnant water within the site.

Landscape and Visual

A total of 2 landscape and visual monitoring and audits were carried out on a biweekly basis in June 2005. The Registered Landscape Architect had recommended as follows:

- The Contractor was reminded to clear away all scattered litter, garbage, etc. as found on site, and keep the site in a tidy condition at all times.
- The Contractor was reminded to carry out more frequent watering of the site during dry periods to prevent dust nuisance.
- No tree transplanting work was carried out during the month. Up to the end of June 2005, 100% tree transplanting survival rate was reported.
- As a number of slopes had been completed since last year, the Contractor was reminded to carry out the required planting works.

Waste Disposal

A total of 16 loads of Construction & Demolition (C&D) waste materials and a total of 737 loads of C&D materials (Public Fill) were disposed of at WENT Landfills and Public Filling Area in Tuen Mun respectively in June 2005. No chemical waste was disposed of in the reporting period.

Complaint Record

One environmental complaint was received on 10 June 2005 regarding the obstructions and mosquitoes found in the footway near Sea Crest Villa Phase 4. The Contractor took the following corrective actions on 14 June 2005 to rectify the situation: cleaning up the precast footbridge deck; realigning the existing mill barriers to widen the adjacent footbridge deck and spaying appropriate insecticide.

Non-compliances

There were no non-compliances for TSP air quality and noise monitoring during the reporting month.

Notification of Summons and Successful Prosecution

There was neither notification of summons nor prosecution received during the reporting month.

Environmental Licenses

No new CNP was granted during the reporting month.

1. INTRODUCTION

Ove Arup & Partners Hong Kong Limited (Arup) was appointed by the Contractor-Maeda Corporation (MC) as the Environmental Team (ET) for Contract No. HY/99/18 Castle Peak Road Improvements between Sham Tseng and Ka Loon Tsuen, Tsuen Wan (hereafter called the "Project"). Environmental parameters including air quality, construction noise, water quality and landscape & visual issues were selected for impact monitoring for the Project. The major construction period of the Project are anticipated as 45 months from December 2001 to August 2005.

1.1 Project Background

The Castle Peak Road improvements works consists of upgrading the existing Castle Peak Road to provide a dual two-lane carriageway of "Rural Road A" classification between Area 2, Tsuen Wan and Ka Loon Tsuen, and all associated utility, junction and pedestrian facilities. The Castle Peak Improvement project is divided into three contracts. This Environmental Monitoring and Audit (EM&A) exercise only concerns the West Contract No. HY/99/18 between Sham Tseng and Ka Loon Tsuen, Tsuen Wan. Figure 1-1 shows the site location plan and the detailed site layout plans are provided in Appendix A.

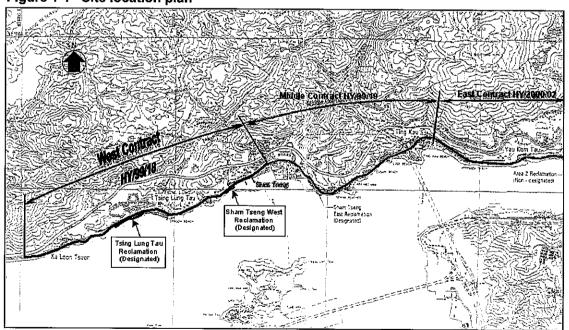


Figure 1-1 Site location plan

The scope of the construction work includes:

- Improvement to Castle Peak Road between Area 2 and Ka Loon Tsuen, Tsuen Wan to a dual two-lane carriageway;
- Provision of pedestrian facilities in the form of footpaths, subways, footbridges, and Crossings;
- Road junction and signal design and the re-provision of access roads and connections to existing road networks;
- Construction of associated drainage and landscaping works;
- Environmental mitigation measures:
- Design and construction of watermains;
- Construction of entrusted sewerage works; and
- Dredging and reclamation (designated project see also Section 1.2)

1.2 Designated Project

The marine reclamation and the construction of the associated seawall at Tsing Lung Tau and Sham Tseng West within Contract No. HY/99/18 had been classified as designated projects under the Environmental Permits No. EP-093/2001 and EP-094/2001 respectively.

1.3 Impact EM&A Requirements

The impact environmental monitoring and audit included air quality monitoring (both 1-hour and 24-hour TSP), noise, water quality, landscape and visual monitoring, and environmental audit.

1.4 Purpose of the Report

The purpose of the monthly EM&A report is to provide the information on monitoring methodology, monitoring results, environmental permit status, site audit findings, recommendations and conclusions.

This is the fortieth monthly EM&A report prepared by Arup for the submission to Maeda Corporation summarising the monitoring methodology, locations, periods, frequencies, results and any observation from the air quality, noise, marine water quality, and landscape and visual monitoring and audit from 1 June to 31 June 2005.

2. ENVIRONMENTAL STATUS

2.1 Construction Programme

The construction work was commenced in February 2002. An up-to-date construction programme is given in Appendix B.

2.2 Construction Activities of the Month

The major construction activities carried out by the Contractor (CT) in June 2005 included:

- Construction of footbridges FB01, FB02, FB12;
- Construction of noise barriers NM01, NM02, NM03 and NM04;
- Construction of culverts and outfalls;
- Construction of retaining wall RW01 and
- Construction of utility and water mains works.

The major sea works at level below +2.5mPD had been completed in July 2003 and sand placement activities at Seawall B completed on 13 August 2004.

3. SUMMARY OF EM&A REQUIREMENTS

Air quality, construction noise, marine water quality and landscape issues are significant environmental impacts identified for the construction period of the project. In accordance with the Project specific EM&A Manual^[1], air quality, noise, water quality, landscape and visual monitoring and audit shall be performed by an ET at all specified monitoring locations during the construction and operational stages. As instructed by the Contractor, the marine monitoring was suspended since 10 October 2003 as the major sea works at level below +2.5mPD had been completed in July 2003. Marine monitoring was resumed in August from 2 August to 27 August 2004 during and after beach reinstatement activity took place in August 2004.

The monitoring schedule for June 2005 and the tentative schedule for July 2005 are attached in Appendix C.

3.1 Air Quality Monitoring

3.1.1 Monitoring Parameters

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

3.1.2 Monitoring Frequency

24-hour TSP and 1-hour TSP levels were monitored during the course of construction in accordance with the EM&A Manual. The monitoring parameters and frequency are specified in Table 3-1.

Table 3-1 TSP monitoring parameters and frequency

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

3.1.3 Monitoring Locations

A total of eleven locations had been specified for the air quality monitoring and they are given in Table 3-2 and presented in Figures 3-1a to 3-1d.

Table 3-2 Air quality monitoring locations

Air Monitoring Station No.	Location	Location description	
WA1	Bayside Villas	G/F, Bayside Villas (Temporary Suspended)	
₩A2	Grand Bay Villas	G/F, Grand Bay Villas (Temporary Suspended)	
WA3	Hong Kong Garden	G/F, Hong Kong Garden (Regent Heights)	
WA4	Hong Kong Garden	G/F, Hong Kong Garden (Between Blk 1 & 2)	

Air Monitoring Station No.	Location	Location description		
WA5	Hong Kong Garden	G/F, Hong Kong Garden (Block 4)		
WA6	Tsing Lung Tau Tin Hau Temple	G/F, Tsing Lung Tau Tin Hau Temple		
WA7	Sea Crest Villa	Podium, Sea Crest Villa (Phase 4 Block 12)		
WA8	Sea Crest Villa	Podium, Sea Crest Villa (Phase 3 Block 8)		
WA9	Sea Crest Villa	Car Park (L3), Sea Crest Villa (Phase 2 Block 6)		
WA10	Sea Crest Villa	Podium, Sea Crest Villa (Phase 1 Block 1)		
WA11	Lido Garden	G/F, Carpark, Lido Garden Tower 1		

Note: Bayside Villas (WA1) and Grand Bay Villas (WA2) are no longer the air sensitive receivers as all residents of Bayside Villas and Grand Bay Villas were moved out since September 2002. Therefore, the air quality monitoring at Bayside Villas and Grand Bay Villas were temporary suspended since October 2002 after approval from IC(E) and EPD.

3.1.4 Wind Monitoring

Wind monitoring data, which included the wind speed and wind directions are extracted from Hong Kong Observatory – Tsing Yi Wind Monitoring Station.

3.2 Construction Noise Monitoring

3.2.1 Monitoring Parameters

Construction noise monitoring was 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.

3.2.2 Monitoring Frequency

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

Table 3-3 Construction noise monitoring parameters and frequency

Time Period (when construction activity is found)	Parameters	Monitoring Frequency	No. of Measurements for Each Monitoring	
Between 0700-1900 hours on normal weekdays	Leg(30 min)		1	
Between 1900-2300 hours on normal weekdays	Leq(5 min)*	Once per week		
Between 2300-0700 hours of next day			3 (consecutive)	
Between 0700-1900 hours on holidays				

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

3.2.3 Monitoring Locations

A total of sixteen noise monitoring locations had been specified. They are given in Table 3-4 and presented in Figures 3-1a to 3-1d. The measurements were taken at a position 1m from the exterior of building façade and at a position of 1.2m above ground.

Table 3-4 Construction noise monitoring locations

Noise Monitoring Station No.	Location	Monitoring Point House No.3, Ka Loon Tsuen House No.15, Ka Loon Tsuen Upper G/F, Bayside Villas (Temporary Suspended) Lower G/F, Bayside Villas (Temporary Suspended) G/F, Grand Bay Villas (Temporary Suspended) G/F, Hong Kong Garden (Recent Heights)	
WN1	Ka Loon Tsuen	House No.3, Ka Loon Tsuen	
WN2	Ka Loon Tsuen	House No.15, Ka Loon Tsuen	
ENW.	Bayside Villas	Upper G/F, Bayside Villas (Temporary Suspended)	
WN4	Bayside Villas	Lower G/F, Bayside Villas (Temporary Suspended)	
WN5	Grand Bay Villas	G/F, Grand Bay Villas (Temporary Suspended)	
WN6	Hong Kong Garden	G/F, Hong Kong Garden (Regent Heights)	
WN7	Hong Kong Garden	G/F, Hong Kong Garden (Between Blk 1 & 2)	
WN8	Hong Kong Garden	G/F, Hong Kong Garden (Block 4)	
WN9	Tsing Lung Tau Village	House 1,Tsing Lung Tau Village	
WN10	Tsing Lung Tau Village	House 60-64,Tsing Lung Tau Village	
WN11	Villa Alfavista	G/F, Villa Alfavista	
WN12	Sea Crest Villa	Podium, Sea Crest Villa (Phase 4 Block 12)	
WN13	Sea Crest Villa	Podium, Sea Crest Villa (Phase 3 Block 8)	
WN14	Sea Crest Villa	Car Park (L3), Sea Crest Villa (Phase 2 Block 6)	
WN15	Sea Crest Villa	Podium, Sea Crest Villa (Phase 1 Block 1)	
WN16	Lido Garden	G/F, Carpark, Lido Garden Tower 1	

Note: Bayside Villas (WN3 and WN4) and Grand Bay Villas (WN5) are no longer the noise sensitive receivers as all residents of Bayside Villas and Grand Bay Villas were moved out since September 2002. Therefore, the noise monitoring at Bayside Villas and Grand Bay Villas were temporary suspended since October 2002 after approval from IC(E) and EPD.

3.3 Water Quality (Designated Project)

3.3.1 Monitoring Parameters

Water quality monitoring includes Turbidity (Tby) in the unit of NTU, Dissolved Oxygen (DO) in the unit of mg/L and Suspended Solids (SS) in the unit of mg/L. In addition to the water quality parameters, other relevant data, such as monitoring location/position, time, water depth, water temperature, salinity, DO saturation, weather conditions, sea conditions, tidal stage will be recorded including any special phenomena, work underway at the construction site, etc.

3.3.2 Monitoring Frequency

Water quality monitoring during the impact stage was conducted three times per week, during mid-flood and mid-ebb tides and at sixteen designated sampling. The interval between two sets of monitoring will not be less than 36 hours except where exceedances above the Action Level or Limit Level were detected (see also Section 3.5). In these cases, the monitoring frequency will be increased.

3.3.3 Monitoring Locations

A total of sixteen locations, 9 for impact and 7 for control were originally selected for marine water quality monitoring and the locations are given in Table 3-5a and presented in Figure 3-1b to 3-1e.

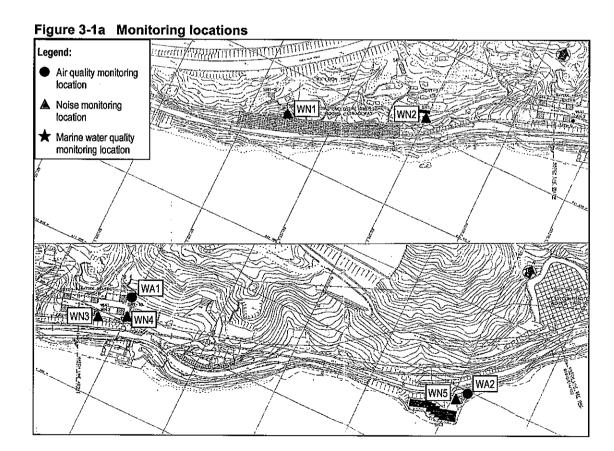
The new marine water quality monitoring programme, was commenced on 12 February 2003 and suspended on 10 October 2003, as agreed by the IC(E) and EPD. A total of twelve locations, 8 for impact and 4 for control were selected for the new marine water quality monitoring programme and the locations are given in Table 3-5b and presented in Figure 3-1b to Figure 3-1e.

Table 3-5a Water quality monitoring locations (Original)

Water Monitoring Statio	n No	Loc	ation	
water monitoring statio	ii NO.	Eastings	Northings	
Tsing Lung Tau	WW1 (Impact Station)	822260	824491	
	WR1 (Control Station)	822278	824459	
Tsing Lung Tau	WW2 (Impact Station)	822352	824538	
	WR2 (Control Station)	822363	824505	
Tsing Lung Tau	WW3 (Impact Station)	822506	824609	
	WR3 (Control Station)	822518	824578	
Tsing Lung Tau	WW4 (Impact Station)	822820	824640	
	WR4 (Control Station)	822800	824603	
Angler's Beach: Sham	WW5 (Impact Station)	823697	824937	
Tseung	WR5 (Control Station)	823700	824905	
Angler's Beach: Sham	WW6 (Impact Station)	823775	824991	
Tseung	WW7 (Impact Station)	823797	825042	
	WR6/WR7 (Control Station)	823797	824964	
Angler's Beach	WW8 (Impact station)	823994	825141	
	WR8 (Control Station)	824006	825107	
Ma Wan Fish Culture Zone	FCZ1 (Impact Station)	823500	823870	

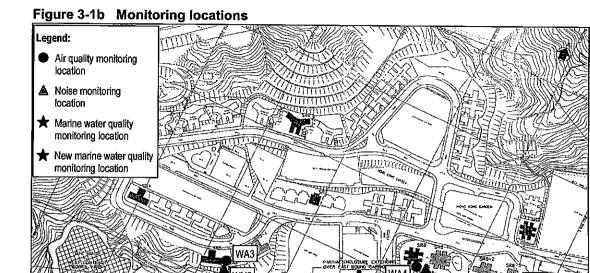
Table 3-5b Water quality monitoring locations (New)

Water Monitoring Station No.		Location		
water monitoring o	Ration No.	Eastings	Northings	
Tsing Lung Tau	WW1 (Impact Station)	822306	824405	
	WW2 (Impact Station)	822377	824462	
	WW3 (Impact Station)	822529	824500	
	WW4 (Impact Station)	822775	824560	
	WR-E-1234 (Control Station for Mid-Ebb Tide)	822204	824312	
	WR-F-1234 (Control Station for Mid-Flood Tide)	822850	824519	
Angler's Beach:	WW5 (Impact Station)	823700	824905	
Sham Tseung West	WW6/7 (Impact Station)	Eastings tion) 822306 tion) 822377 tion) 822529 tion) 822775 rol Station for Mid-Ebb Tide) 822204 rol Station for Mid-Flood Tide) 822850 tion) 823700 tation) 823797 tion) 823900 rol Station for Mid-Ebb Tide) 823590 rol Station for Mid-Flood Tide) 823994	824964	
	WW8 (Impact Station)	823900	825023	
	WR-E-5678 (Control Station for Mid-Ebb Tide)	823590	824830	
	WR-F-5678 (Control Station for Mid-Flood Tide)	823994	825034	
Ma Wan Fish Culture Zone	FCZ1 (Impact Station)	823500	823870	



WA5 WN8

PRELIMINARY CRAWIN



★WW3

★WR3

New WW3

★ WW2

★ WR2

★ New WW2

Figure 3-1c Monitoring locations

★ New WR-E-1234

🖈 WW1

★ WR1

★ New WW1

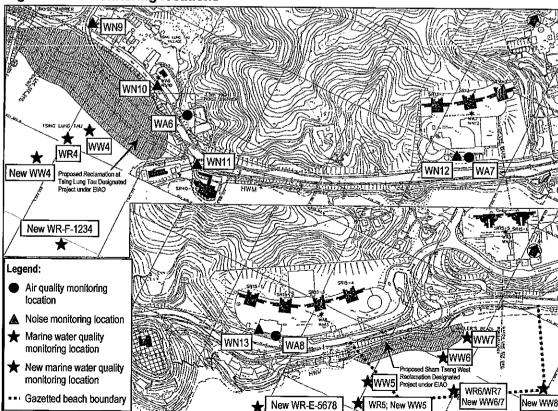


Figure 3-1d Monitoring locations

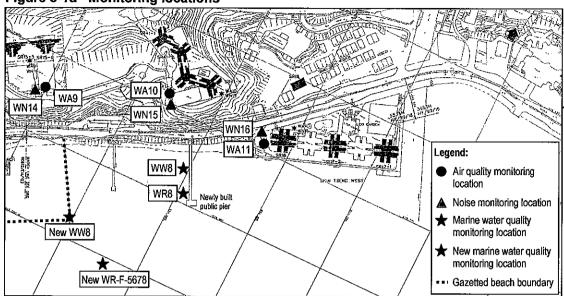
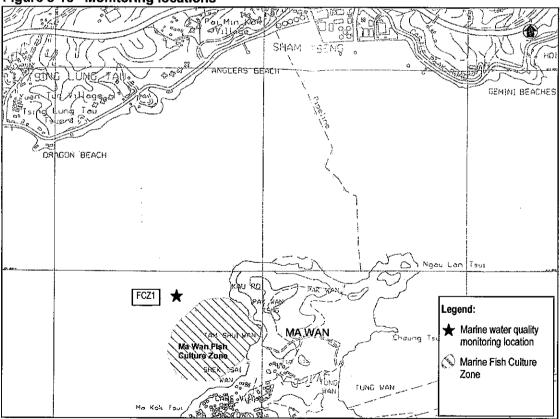


Figure 3-1e Monitoring locations



3.4 Landscape and Visual Monitoring and Audit

3.4.1 Audit Parameters

All landscape and visual mitigation measures undertaken by both the CT and the Landscape Contractor during the construction phase and during the first year of the operational phase shall be audited by a Registered Landscape Architect, to ensure compliance with the intended aims of the mitigation measures.

3.4.2 Audit Frequency

The landscape and visual monitoring and audit shall be undertaken at least once every two weeks throughout the construction period and once every two months during the operational phase.

3.4.3 Audit Location

The landscape and visual monitoring and audit shall be conducted throughout the entire site area.

3.5 3.5 Performance Limits and Event-Action Plans

The monitoring results shall be checked against appropriate standards and requirements. A two-tier system performance limits have been established in the Project specific EM&A Manual. The "Action Level" and the "Limit Level" (A/L) are established according to the EPD requirements. ET, ER, IC(E), and CT will take corresponding actions in accordance with the Event-Action Plans if the monitoring results exceed the performance limits.

3.5.1 Air Quality

The action and limit levels for air quality have been established during the baseline monitoring and are provided in Table 3-6.

Table 3-6 Action and Limit Level for air quality

Air Monitoring	1-hour TSP L	evel in μg/m³	24-hour TSP L	evel in μg/m³
Station No.	Action Level	Limit Level	Action Level	Limit Level
WA1	350		187	·
WA2	362		192	
WA3	353		190	•
WA4	362		187	
WA5	346		185	
WA6	362	500	204	260
WA7	351		187	
WA8	347		188	
WA9	345		182	
WA10	352		183	
WA11	357		195	

Table 3-7 details the actions required to be carried out by different parties in case of an exceedance of performance limits being detected.

3.5.2 Construction Noise Impact

The action and limit levels for the construction noise extracted from the Baseline Monitoring Report^[2] are tabulated in Table 3-8.

Table 3-8 Action and Limit Levels for construction noise

Time Period	Action	Limit
0700 – 1900 hours on any day not being a Sunday or public holiday		75dB(A) ⁽¹⁾
19:00 – 23:00 hours on all days and 07:00 – 23:00 on general holidays (including Sundays)	When one documented complaint is received	55(2) / 70(3)
23:00 – 07:00 hours on all days		40(2) / 55(3)

Remarks:

- (1) For educational establishments the limit level shall be 70dB(A) and reduced to 65dB(A) during examination periods.
- (2) Refers to the types of Plant regulated under the Technical Memorandum on Noise from Construction Work in Designated Areas (DA-TM).
- (3) Refers to the types of Plant regulated under the Technical Memorandum on Noise Other than Percussive Piling (GW-TM).
- (4) Owing to the high background noise level recorded at WN5, WN9, and WN10, the noise impact monitoring results at these 3 locations will be corrected by its background using the following background correction equation: Leq(30min)= 10 log (10^{m/10} -10^{b/10}) as m= Measured Leq(30min), b=Average Baseline Leq(30min).

Only up to the maximum of 3dB(A) is allowed to be deducted after the background correction.

Table 3-9 details the actions required to be carried out by different parties in the case of an exceedance of performance limits being detected.

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Table 3-7 Event/Action plan for air quality

;	-			Antion				
Event		All the state of t	-	Action				
		Ef Leader		IC(E)		ER		Contractor
Action Level								
 Exceedance for 		Identify the source.	τ.	Check monitoring data submitted by the ET	<u>-</u>	Notify the Contractor.	-	Rectify any unacceptable practice.
one sample	7	Inform the IC(E) and the ER.		Leader.			2	Amend working methods if
	က်	Repeat measurement to confirm finding.	7	Check Contractor's working method.			i	ite,
	4.	Increase monitoring frequency to daily.						
Exceedance for		Identify the source.	-	Check monitoring data submitted by the ET		Confirm receipt of notification of failure	-	Submit proposals for remedial actions
two or more	7	Inform the IC(E) and the ER.		Leader,		in writing.	:	to IC(E) within 3 working days of
consecutive	က	Repeat measurements to confirm findings.	7	Check the Contractor's working method.	ائ	Notify the Contractor.		notification.
sattibles	4	Increase monitoring frequency to daily.	က	Discuss with the ET Leader and the	က	Ensure remedial measures properly	7	implement the agreed proposals.
	'n	Discuss with the IC(E) and the Contractor on remedial		Contractor on possible remedial measures.		implemented.	κį	Amend proposal if appropriate.
		actions required.	4	Advise the ER on the effectiveness of the				
	Ġ	If exceedance continues, arrange meeting with the	ι	•				
		IC(E) and the EK.	റ്	Supervisor implementation of remedial				
	~	If exceedance stops, cease additional monitoring.		measures,				
Limit Level								
 Exceedance for 		Identify the source.	-	Check monitoring data submitted by the ET	-	Confirm receipt of notification of failure		Take immediate action to avoid
one sample	7	Inform the ER and the EPD.		Leader.		in writing.	:	exceedance.
	ന	Repeat measurement to confirm finding.	7	Check the Contractor's working method.	2	Notify the Contractor.	~	Suhmit proposals for remedial actions
	4	Increase monitoring frequency to daily	٠.	Discuss with the ET Leader and the	~	Energy remodial measures proporty	i	to IC(F) within 3 working days of
	- r	Account offsetiments of Contracted and Indian	;	Contractor on nossible remedial measures	;	implemented		notification.
	<i>i</i>	and keep the IC(F) the EDD and the ER informed of	4	Advise the FR on the effectiveness of the			۲.	Implement the acreed proposals
		the results.	:	proposed remedial measures.			4	Amend proposal if appropriate
			Ŋ	Supervisor implementation of remedial			:	
				measures.				
Exceedance for	<u>-</u>	Notify the IC(E), the ER, the EPD and the Contractor.	τ-	nongst the ER, the E	-	Confirm receipt of notification of failure	- -	Take immediate action to avoid
two or more	2	identify the source.		and the Contractor on the potential		in writing.		øi.
consecutive	က	Repeat measurements to confirm findings.		remedial actions.	7	Notify the Contractor.	۲;	Submit proposals for remedial actions
Samples	4	Increase monitoring frequency to daily.	2	Review the Contractor's remedial actions	က်	In consultation with the IC(E), agree		to IC(E) within 3 working days of
	κj	Carry out analysis of the Contractor's working		whenever necessary and advise the ER		with the remedial measures to be		notification.
		procedures to determine possible mitigation to be		accordingly.		implemented.	<i>ش</i>	Implement the agreed proposals.
		implemented.	mi	the implementation of remedial	4.	Ensure remedial measures are	4.	Resubmit proposals if problem still
	ဖ	Arrange meeting the IC(E) and the ER to discuss the		measures.		properly implemented.		not under control.
		remedial actions to be taken.			ś	If exceedance continues, consider	ć.	Stop the relevant activity of works as
	7.	Assess effectiveness of the Contractor's remedial				what activity of the work is responsible		determined by the ER until the
		actions and keep the IC(E), the EPD and the ER informed of the results				and instruct the Contractor to stop that activity of work until the exceedance is		exceedance is abated.
	oc	If exceedance stone cease additional monitoring				abated.		

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Table 3-9 Event/Action plan for construction noise

311011	1				
Event		and construction of the co	Action		
		ET Leader	IC(E)	ER	Contractor
Action Level	~ :	Notify the IC(E) and the Contractor.	1. Review with analysed results	1. Confirm receipt of notification	1. Submit noise mitigation
	- 5	Carry out investigation.	submitted by the ET.		proposals to IC(E).
	<u>က်</u>	Report the results of investigation to the IC(E) and the Contractor.	 Review the proposed remedial measures by the Contractor and advise the ER accordingly. 	 Notify the Contractor. Require the Contractor to 	 Implement noise mitigation proposals.
	4.	Discuss with the Contractor and formulate remedial measures.	Supervise the implement of remedial measures.	propose remedial measures for the analysed noise problem.	
	5.	Increase monitoring frequency to check mitigation measures.		 Ensure remedial measures are properly implemented. 	
Limit Level	ب	Notify the IC(E), the ER, the EPD and the Contractor.	1. Discuss amongst the ER, the ET Leader and the Contractor on the	1. Confirm receipt of notification of failure in writing.	1. Take immediate action to avoid further exceedance.
	2	Identify the source.	potential remedial actions.	2. Notify the Contractor.	2. Submit proposals
	რ	Repeat measurement to confirm findings.	2. Review the Contractor's remedial actions whenever necessary to	3. Require the Contractor to	remedial actions to IC(E)
	4.	Increase monitoring frequency.	assure their effectiveness and	propose remedial measures for the analysed noise problem.	notification.
	ശ്	Carry out analysis of Contractor's working procedures to determine possible militarion to be implemented.	3. Supervise the implementation of remodial measures	Ensure remedial measures are properly implemented.	Implement the agreed proposals.
	ώ	Inform the IC(E), the ER, and the EPD the causes & actions taken for the		5. If exceedance continues, consider what activity of the work is responsible and instruct	Resubmit proposals if problem still not under control.
	7.	Assess effectiveness of the contractor's remedial actions and keep the IC(E), the EPD and the ER informed of the results.		the Contractor to stop that activity of work until the exceedance is abated.	 Stop the relevant activity of works as determined by the ER until the exceedance is abated.
	∞;	If exceedance stops, cease additional monitoring			

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3.5.3 Water Quality (Designated Project)

The action and limit levels for the water quality have been established in accordance with the EM&A Manual and approved by EPD on 15 October 2002. EPD and IC(E) had agreed on 10 April 2003 to apply the "Direct Comparison" method for evaluation of the marine water quality exceedance. The A/L levels had been revised in April 2003 and are presented in Table 3-10.

Parameters				Monitoring Location	
газанц	ilei S	WW1 to	WW8	FC	Z1
		Action Level	Limit Level	Action Level	Limit Level
Mid-Eb	b				
DO (mg/L)	Surface & Middle-	4.9	4.8	4.7	4.6
(mg/L)	Bottom	4.8	4.8	4.0	4.0
		17.0	23.4	For EPD: 12.9	<u>For EPD</u> : 14.0
SS (mg/ (Depth-	/L) averaged)			For AFCD: 12.9 and 120% of upstream control station's SS at the same tide of the same day	For AFCD: 14.0 and 130% of upstream control station's SS at the same tide of the same day
		12.0	13.6	For EPD: 9.1	<u>For EPD</u> : 10.3
Tby (NT (Depth-	U) averaged)			For AFCD: 9.1 and 120% of upstream control station's Tby at the same tide of the same day	For AFCD: 10.3 and 130% of upstream control station's Tby at the same tide of the same day.
Mid-Flo	od				
DO (mg/L)	Surface & Middle	4.3	4.2	4.5	4.4
(mg/L)	Bottom	4.3	4.1	4.1	4.1
		25.3	28.7	For EPD: 23.3	For EPD: 25.9
SS (mg/ (Depth-a	L) averaged)			For AFCD: 23.3 and 120% of upstream control station's SS at the same tide of the same day	For AFCD: 25.9 and 130% of upstream control station's SS at the same tide of the same
		25.2	31.5	For EPD: 18.7	For EPD: 22.3
Tby (NT (Depth-a	U) averaged)			For AFCD: 18.7 and 120% of upstream control station's Tby at the same tide of the same day	For AFCD: 22.3 and 130% of upstream control station's Tby at the same tide of the same day.

"Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths. Notes: For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

In order to better differentiate between exceedance caused by the contract works and elevated readings arising from causes unrelated to contract works, all parties had agreed to introduce a term "Reaching of Trigger Value" to represent the scenario where the A/L levels were exceeded by the "Direct Comparison" evaluation method. Upon the detection of "Reaching of Trigger Value", an initial analysis would be carried out to determine whether it was caused by contract works. Exceedance and non-compliance should only be recorded in case where the "Reaching of Trigger Value" was caused by the contract works.

Table 3-11 details the actions required to be carried out by different parties in the case of water quality exceedance of performance limits being detected. The revised Event/Action Plan for water quality has been endorsed by IC(E) in June 2003, and will be finalised subject to agreement with EPD.

3.5.4 Landscape and Visual

The Final Tree Survey Report^[3] approved in April 2001 was adopted as the framework of the baseline landscape condition of this road section. In addition, a supplementary tree survey has been carried out in December 2001. The Supplementary Tree Survey Report (Revision A)^[4] completed in March 2002 is also adopted to provide supplementary information of the baseline landscape condition of this road section.

If any non-conformity on landscape and visual issue is observed, the actions in accordance with Event/Action Plan shown in Table 3-12 shall be carried out.

Table 3-12 Event/Action plan for landscape and visual impact

Event		Action		
CACIII	ET Leader	IC(E)	ER	Contractor
Non-conformity	Identify Source(s).	Check report.	1. Notify the	1. Amend
on one occasion	Inform the IC(E) and the ER.	Check the Contractor's working method.	Contractor. 2. Ensure remedial	working method.
	Discuss mitigation actions with the IC(E), the ER and the Contractor.	Discuss with the ET Leader and the Contractor on possible remedial measures.	measures are properly implemented.	Rectify damage and undertaken any necessary replacement.
	Monitor remedial actions until rectification has been	Advise the ER on effectiveness of proposed remedial measures.		•
	completed.	Check implementation of remedial measures.		
Repeated Non-	Identify Source(s).	Check monitoring report	1. Notify the	1. Amend
conformity	Inform the IC(E) and the ER.	Check the Contractor's working method	Contractor. 2. Ensure remedial	working method.
	Increase monitoring frequency	Discuss with the ET Leader and the	measures are properly implemented.	Rectify damage and undertaken
	Discuss mitigation actions with the IC(E)	Contractor on possible remedial measures.	,	any necessary replacement.
	, the ER and the Contractor.	Advise the ER on effectiveness of proposed remedial measures.		
	5. Monitor remedial			
	actions until rectification has been completed.	Supervise implementation of remedial measures.		
	If exceedance stops, cease additional monitoring			

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Table 3-11 Event/Action plan for water quality

Fvent			Action	
	ET Leader	IC(E)	ER	Contractor
Trigger Value				
Trigger Value being surpassed for one sampling day	Repeat in-situ measurement to confirm findings. Conduct investigation to identify the source(s) of impact. Check monitoring data, all plant, equipment, mitigation measures and the Contractor's working	If exceedance is confirmed as caused by the construction works, take relevant actions as detailed in "Action Level" and "Limit Level"	if exceedance is confirmed as caused by the construction works, take relevant actions as detailed in "Action Level" and "Limit Level"	If exceedance is confirmed as caused by the construction works, take relevant actions as detailed in "Action Level" and "Limit Level"
	4. Inform the IC(E), ER, EPD, HyD, Contractor and AFCD (if required) the investigation results. 5. If exceedance is confirmed as caused by the construction works, take relevant actions as detailed in "Action Level" and "Limit Level".			
Action Level				
Action level being exceeded by one sampling day and is caused by the	Discuss the current mitigation measures with the IC(E) and the Contractor. Pay attention on the monitoring results collected on the subsections scheduled monitoring date to eas if	Discuss with the ET Leader and the Contractor on the current mitgation measures.	Discuss with the IC(E) on the current mitgation measures.	Inform the ER and confirm notification of the exceedance in writing. Rectify unacceptable practice.
-	an exceedance, caused by the same or related construction works, is recurring.			 Check all plants and equipment. Consider changes of working methods. Discuss with the ET Leader and the IC(E) on the current militarion measures.
Action level being exceeded by more than one	Discuss mitgation measures with the IC(E) and the Contractor. Ensure the proposed mitgation measures are	 Discuss with the ET Leader and the Contractor on the proposed mitigation measures. 	Discuss with IC(E), the ET Leader and the Contractor on the proposed mitigation measures. Make agreement on the proposed mitigation.	"
consecutive days and is cause by the construction works	implemented. 3. Further evaluation of the monitoring results on the next scheduled monitoring day and report to all			Check all plants and equipment. Consider changes of working methods. Discuss with the ET Leader and the IC(E)
	concerned parties, if the affected monitoring stations are still being affected (or are no longer affected) by the construction works. 4. Prepare to increase the monitoring frequency to daily, if the Limit Level is exceeded as below.	 Assess the effectiveness of the implemented mitigation measures. 		and propose mitigation measures to the IC(E) and the ER within 3 working day. 6. Implement the agreed mitigation measures.
Limit Level				
Limit level being exceeded by one sampling day and is cause by the	Discuss mitigation measures with the IC(E), the ER and the Contractor. Ensure the proposed mitigation measures are implemented.	Discuss with the ET Leader and the Contractor on the proposed mitigation measures. Review proposes on mitigation	Discuss with IC(E), the ET Leader and the Contractor on the proposed mitigation measures. Request the Contractor to Critically review the working methods.	_
construction works	3. Prepare to increase the monitoring frequency to daily if further exceedances of the Limit Level are detected on the next sampling day.		3. Make agreement on the proposed mitigation measures to be implemented. 4. Assess the effectiveness of the implemented.	 Check all plants and equipment. Consider changes of working methods. Discuss with the ET Leader, the IC(E) and the ER, and propose mitigation measures to
		inplication in again.	mingation measures.	the IC(E) and the ER within 3 working days. 6. Implement the agreed mitigation measures.

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Discuss further mitigation measures with the IC(E), the ER and the Contractor. Ensure the proposed further mitigation measures are implemented.	+ 2	ER 1. Discuss with IC(E), the ET Leader and the Contractor on the proposed further mitigation measures. 2. Request the Contractor to Critically review the	Contractor 1. Inform the ER and confirm notification of the consecutive exceedance in writing. 2. Rectify unacceptable practice. 3. Check all plants and equipment.
Increase the monitoring frequency to daily until no exceedance of the Limit Level.	measures submitted by the Contractor and advised the ER accordingly. 3. Assess the effectiveness of the implemented further mitigation measures.	working methods. 3. Make agreement on the further mitgation measures to be implemented. 4. Assess the effectiveness of the implemented further mitgation measures. 5. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit Level.	 Consider changes of working methods. Discuss with the ET Leader, the IC(E) and the ER, and propose further mitigation measures to the IC(E) and the ER within 3 working days. Implement the agreed further mitigation measures. As directed by the ER, slow down or stop all As for and of the construction artistics.

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3.6 Site Inspection and Environmental Complaint Handling

3.6.1 Site Inspection Frequency and Areas Covered

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

Ad hoc site inspection will be carried out if significant environmental non-compliance is identified. Inspections June 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.

3.6.2 Site Inspection Procedures

- a) The CT and/or ER will advise the Environmental Auditor (EA) for 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.

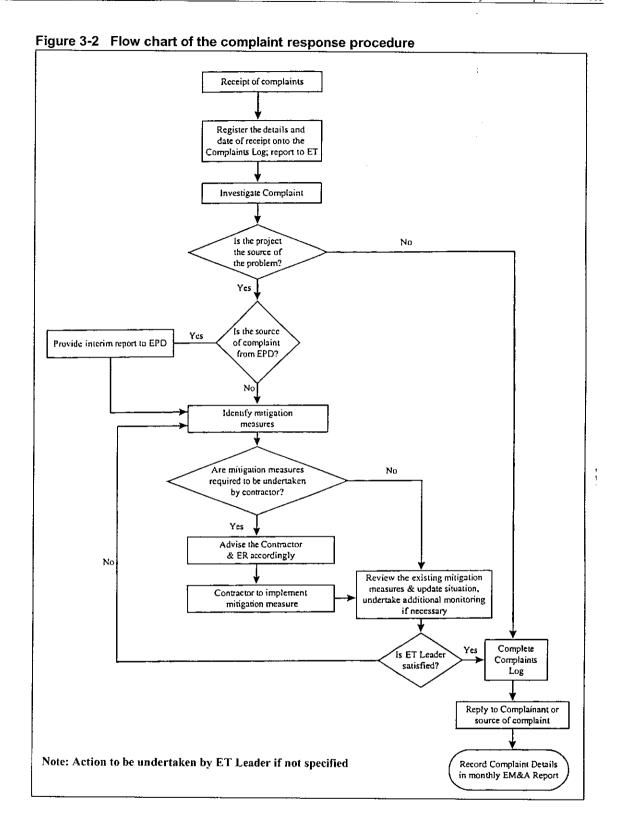
3.6.3 Environmental Complaints

In accordance with the EM&A Manual, 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 compliant 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 on providing all the necessary information and assistance for completion of the investigation. If mitigation measures are identified as necessary after the investigation, the CT shall promptly carry out the required mitigation to the satisfaction of ET. The ER shall ensure that the CT has carried out such identified measures.

A flow chart of the complaint response procedures is shown in Figure 3-2 for reference.



4. AIR QUALITY

4.1 Monitoring Parameters and Equipment

Impact air quality monitoring was conducted in terms of both 1-hour and 24-hour TSP using a direct reading meter, MIE Data-RAM Portable Real Time Aerosol Monitor (MIE) and High Volume Sampler (HVS) respectively. Table 4-1 shows the equipment list for air quality monitoring.

Table 4-1 Equipment list for air quality monitoring

Equipment	Manufacturer & Model No.	Measurement Parameter	Qty.
High Volume Sampler	GS-2310105 & TE-5170		11
Fibreglass Filter	G810	24-hour TSP	-
HVS Calibration Kit	GMW-2535		1
Photometric Aerosol Monitor	MIE personalDataRAM	1-hour TSP	10
Hand Held Barometer	Cole-Parmer EB833	Pa, Temperature	2

4.2 Methodology

4.2.1 1-hour TSP Monitoring

The procedure for 1-hour TSP monitoring is described as follows:

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:

i. data logging function: on

ii. log period: 5 minutes

iii. tag number: storage

iv. analogue output: 0-4.000mg/m³

v. calibration factor: 1.0

vi. averaging time: 10s

vii. battery charge: >50%

viii. remaining memory: >10%

The monitoring was started by pressing ENTER. The real-time concentration would display "CONC" and the time-averaged concentration would display "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.

4.2.2 24-hour TSP Monitoring

24-hour TSP by using a High Volume Sampler (HVS). The HVS should be in compliance with the following specifications:

- $0.6 1.7 \text{ m}^3/\text{min} (20 60\text{SCFM});$
- equipped with a timing/control device with +/- 5 minutes accuracy for 24 hours operation;
- installed with elapsed time meter with +/- 2 minutes accuracy for 24 hours operation;
- capable of providing a minimum exposed area of 406 cm² (63in²);
- flow control accuracy: +/-2.5% deviation over 24-hr sampling period;
- equipped with a shelter to protect the filter and sampler;
- incorporated with an electronic mass flow rate controller or other equivalent devices;
- equipped with a flow recorder for continuous monitoring;
- provided with a peaked roof inlet;
- incorporated with a manometer;
- able to hold and seal the filter paper to the sampler housing at horizontal position;
- · easy to change the filter; and
- capable of operating continuously for a 24-hour period.

4.2.3 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. The calibration kit will be re-calibrated by the manufacturer after one year of use. The calibration certificates of the HVS and the calibration kit are provided in Appendix D. The next calibration will be conducted on or before 31 July 2005 for the HVS and 10 February 2006 for the GMW-2535.

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 are provided in Appendix E. The next calibration dates for the MIE monitors are given in Table 4-2.

Table 4-2 Calibration dates of 1-hour TSP monitoring equipment

1-hour TPS monitoring equipment	Serial number	Last calibration date	Next calibration date (on or before)
	4496	25-Sep-03	25-Sep-05
	4715	21-Nov-03	21-Nov-05
	4615	15-Jan-04	15-Jan-06
	4705	15-Jan-04	15-Jan-06
MIE Data-RAM Portable Real Time	4492	27-Jul-04	27-Jul-06
Aerosol Monitor	4736	27-Jul-04	27-Jul-06
	3809	06-Oct-04	06-Oct-06
	3893	06-Oct-04	06-Oct-06
	4243	06-Oct-04	06-Oct-06
	4239	03-Feb-05	03-Feb-07

4.3 Results and Observations

4.3.1 Weather conditions and other factors

No adverse weather conditions, in particular adverse wind speed and wind direction that may significantly affect or invalidate the collected air quality monitoring data, were registered during the reporting period.

Neither unusual operation of the construction site nor abnormal TSP source was observed during the reporting period.

4.3.2 Summary of Results

1-hour TSP

A total of 5 sets of 3 consecutive 1-hour TSP measurements were conducted on 6, 10, 16, 22 and 28 June 2005.

The highest 1-hour TSP level of 337.8 μ g/m³ was recorded at G/F, Regent Height, Hong Kong Garden (WA4) on 10 June 2005 while the lowest 1-hour TSP level of 67.3 μ g/m³ was recorded at Car Park L3, Block 6, Phase 2, Sea Crest Villa (WA9) on 16 June 2005. There was no exceedance of the A/L Levels during the monitoring period.

Detailed monitoring results of 1-hour TSP are given in Appendix F and graphical presentation of the 1-hour TSP levels at each monitoring location is illustrated in Figure 4-1.

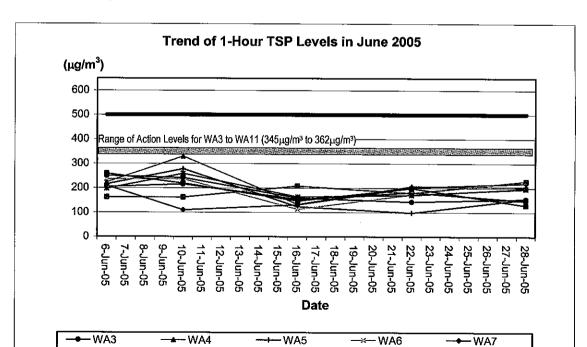


Figure 4-1 Graphical Presentation of 1-Hour TSP Levels for June 2005

WA8

-*--WA9

----WA10

-WA11

Limit Level

24-hourTSP

A total of 5 sets of 24-hour TSP measurement had been taken on 3, 9, 15, 21 and 27 June 2005.

The highest 24-hour TSP level of 144.6 μ g/m³ was recorded at G/F, Tsing Lung Tau Temple (WA6) on 3 June 2005 while the lowest 1-hour TSP level of 19.1 μ g/m³ was recorded at Podium, Block 1, Phase 1, Sea Crest Villa (WA10) on 15 June 2005. There was no exceedance of the A/L Levels during the monitoring period.

Detailed monitoring results of 24-hour TSP are given in Appendix F and graphical presentation of the 24-hour TSP levels at each monitoring location is illustrated in Figure 4-2.

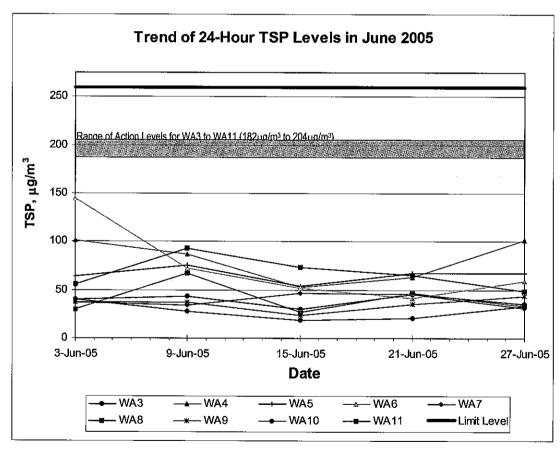


Figure 4-2 Graphical Presentation of 24-Hour TSP Levels in June 2005

4.3.3 Wind Monitoring Data

Detailed wind monitoring data for the June 2005 are extracted from Hong Kong Observatory – Tsing Yi Wind Monitoring Station and presented in Appendix H.

5. NOISE

5.1 Monitoring Equipment

Details of the integrating sound level meters used in the noise monitoring are shown in Table 5-1.

Table 5-1 Equipment list for construction noise monitoring

Equipment	Manufacturer & Model No.	Precision Grade	Qty.	
Integrating sound level meter	Brüel & Kjær 2231	150 054 T 4	2	
Integrating sound level meter	Brüel & Kjær 2238	IEC 651 Type 1	3	
Windshield	Brüel & Kjær UA0237	- IEC 804 Type 1	6	
Acoustical calibrator	Brüel & Kjær 4230	IEC 040 Tomo 4	2	
Acoustical calibrator	Brüel & Kjær 4226	- IEC 942 Type 1	1	
LCD wind speed indicator	Kestrel Vane Anemometer		2	

5.2 Methodology

5.2.1 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 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.

5.2.2 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 National Physical Laboratory in Teddington, London, which is accredited by National Measurement accreditation Service (NAMAS), annually calibrates the B&K calibrator model no. 4226. All in-house calibrations that are undertaken can be traced back to the National Physical Laboratory. The calibration certificates of the noise monitoring equipment are given Appendix I. The next calibration will be conducted on or before 15 July 2005 for the sound level meters and the acoustical calibrators.

5.3 Results and Observations

5.3.1 Weather Conditions and Other Factors

No adverse weather conditions, in particular adverse wind speed & wind direction and fog & rain that may significantly affect or invalidate the collected noise monitoring data, were registered during the reporting period.

Neither unusual operation of the construction site nor abnormal noise source was observed during the reporting period.

5.3.2 Summary of Results

A total of 4 set of noise measurement had been conducted between 0700-1900 hours on 6, 16, 22 and 28 June 2005.

The highest noise level of 74.5 dB(A) was recorded at G/F, Carpark, Lido Garden Tower 1 (WN16) on 6 June 2005 while the lowest noise level of 64.2 dB(A) was recorded at G/F, Hong Kong Garden (Between Blk 1 & 2) (WN7) on 28 June 2005.

Detailed construction noise monitoring results are given in Appendix J and graphical presentation of the noise levels at each monitoring location is illustrated in Figure 5-1.

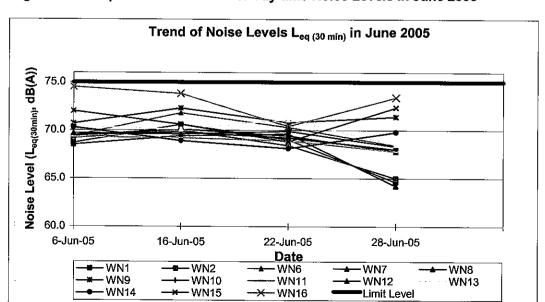


Figure 5-1 Graphical Presentation of Day-time Noise Levels in June 2005

6. WATER QUALITY (DESGINATED PROJECT)

6.1 Water Quality Equipment

Monitoring of Turbidity (Tby) in NTU, Dissolved Oxygen (DO) in mg/L and Suspended Solids (SS) in mg/L was carried out by the ET to ensure that any deteriorating water quality could be readily detected and timely action be taken to rectify the situation. Tby and DO were measured in-situ while SS was determined in the laboratory. A summary of the water quality monitoring equipment is provided in Table 6-1.

Table 6-1 Water quality monitoring equipment

Equipment	Manufacturer & Model No.	Qty
Handheld Salinity, Conductivity & Temperature System	YSI Model 30	1
Dissolved Oxygen Meter	YSI Model 52	1
pH meter	Hanna	1
Turbidimeter	HACH 2100P	1
Nephelometer	Analite Model 156	1

6.2 Methodology

Dissolved Oxygen and Temperature Measuring Equipment

The equipment to measure DO and temperature complies with the following:

- i. The instrument shall be a portable, weatherproof dissolved oxygen measuring instrument equipped with a cable and use a DC power source. It shall be capable of measuring:
 - A dissolved oxygen level in the range of 0-20 mg/L and 0-200% saturation; and
 - A temperature of 0-45°C.
- ii. It shall have a membrane electrode with automatic temperature compensation complete with a cable. Sufficient stocks of spare electrodes and cables shall be available for replacement where necessary (e.g. YSI model 59 meter, YSI 5739 probe, YSI 5795A submersible stirrer with reel and cable or an approved similar instrument).
- iii. Should salinity compensation not be integrated in the DO equipment, in-situ salinity shall be measured to calibrate the DO equipment prior to each DO measurement.

Turbidity Measurement Instrument

The instrument is a portable, weatherproof turbidity-measuring instrument completed with comprehensive operations manual. The equipment shall use a DC power source. It shall have a photoelectric sensor capable of measuring turbidity between 0-1000 NTU and be completed with a cable (e.g. Hach model 2100P or an approved similar instrument).

Suspended Solids

The following equipment is required to monitor the SS:

- i. A water sampler comprising a transparent PVC cylinder, with a capacity of not less than 2 litres and which can be effectively sealed with latex cups at both ends. The sampler shall have a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler is at the selected water depth (e.g. Kahlsico Water Sampler or an approved similar instrument).
- ii. Water samples for SS measurement of both the marine and freshwater environment shall be collected in high density polythene bottles, packed in ice (cooled at 4°C without being frozen) and delivered to the laboratory as soon as possible after collection.

Water Depth Detector

A portable, battery-operated echo sounder was used for the determination of water depth at each designated monitoring. This unit can either be handheld or affixed to the bottom of the monitoring boat, if the same vessel is to be used throughout the monitoring programme.

Salinity

A portable salinity meter capable of measuring salinity in the range of 0-40 ppt shall be provided for measuring salinity of the water at each monitoring location and setting salinity compensation on the DO Meter.

Location of the Monitoring Site

A hand-held or boat-fixed type Differential Global Positioning System (DGPS) or other equivalent instrument of similar accuracy shall be provided and used during monitoring to ensure the monitoring vessel is at the correct location before taking measurements. For the monitoring locations in the water courses a hand-held DGPS, together with a suitably scaled map shall be used.

6.2.1 Calibration and Accuracy of Instrumentation

All in-situ monitoring instruments were checked, calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme before use, and subsequently re-calibrated at 3 monthly intervals throughout all stages of the water quality monitoring. Responses of sensors and electrodes were checked with certified standard solutions before each use. Wet bulb calibration for a DO meter shall be carried out before measurement at each monitoring location.

For the on site calibration of field equipment, the BS 1427:1993, "Guide to Field and on-site test methods for the analysis of waters" shall be followed.

6.3 Marine Monitoring

As reported by the Contractor, major sea works at level below +2.5mPD had been completed in July 2003. The proposal on suspension of marine monitoring was submitted to IC(E), HyD, EPD and AFCD for comments on 25 September 2003. It was confirmed with IC(E) and AFCD that suspension of marine monitoring was acceptable if there is no "active" marine work being carried out. In future, if there is any marine work on or below +2.5mPD, the Contractor shall notify the relevant parties one month in advance and resume the marine monitoring. Subsequently, as instructed by the Contractor/ HyD, the marine monitoring was suspended since during the period from October 2003 to 31 July 2004. However, as instructed by the Contractor, the planned sand placement activities were conducted at Seawall B. Marine impact monitoring near Seawall B (i.e. WW1, WW2, WW3, WW4, WR-E-1234, WR-F-1234 and FCZ1) was resumed from 2 August to 27 August 2004. Since sand placement activities at Seawall B were ceased in August 2004, marine water monitoring was again suspended since September 2004.

7. LANDSCAPE AND VISUAL MONITORING AND AUDIT

The landscape and visual monitoring and audits were carried out on 9 and 23 June 2005 by a Registered Landscape Architect.

The audit findings and recommendations are summarised in the following paragraphs.

7.1 Summary of Inspection – 9 June 2005

7.1.1 Matters Arising from Previous Inspections

- The Contractor cleared the scattered litter at footbridge FB-02.
- The Contractor cleared away the construction wastes piles at NM-02, FB-02 and Slope 8 areas.
- Dry surface condition was observed at RW-01 area and NM-02. The Contractor was reminded to carry out more frequent watering of the area to prevent construction dust nuisance.

7.1.2 Site Clearance and Formation Works

- Construction waste piles were found at RW-01 area and also underneath FB-11 and FB-03. The Contractor was requested to clear it away as soon as possible.
- Empty cement bags and scrapt wood piles were found at NM-02 area. The Contractor was requested to clear it away as soon as possible.
- Untidy site conditions were observed at the area in front of the existing 6SE-C /C25 and Sea Crest Villa Phase 3. The Contractor was requested to tidy up the area as soon as possible.

7.1.3 Tree Felling and Transplanting Works

• No tree transplanting work was carried out during the inspection period.

7.1.4 Recommendations

- The Contractor was reminded to clear away all scattered litter, garbage, etc. as found within the construction site, and keep the site in a tidy condition at all times.
- The Contractor was reminded to carry out more frequent watering of the exposed dry and dusty areas during dry and windy days to prevent construction nuisance.
- A number of slopes were completed last year. The Contractor is reminded to carry out planting works as required as soon as possible.

7.2 Summary of Inspection – 23 June 2005

7.2.1 Matters Arising from Previous Inspections

- Contractor cleared the construction waste piles at RW-01 area.
- The Contractor cleared the empty cement bags and scrap wood piles at NM-02 area. New piles of construction waste and garbage were however observed. The Contractor was requested to clear it away as soon as possible.
- The Contractor tidied up the site area in front of the Sea Crest Villa Phase 3, except that of existing 6SE-C/C25. The Contractor was requested to tidy up the outstanding area as soon as possible.
- The Contractor cleared the construction waste piles at FB-11 and FB-03. New piles of construction waste and garbage were however observed at FB-03. The Contractor was requested to clear it away as soon as possible.
- No dry surface condition was observed during the inspection.

7.2.2 Site Clearance and Formation Works

- A construction waste pile was found at FB-01 area. The Contractor was requested to clear it all away as soon as possible.
- A construction waste pile was found at the entrance to Dragon Garden. The Contractor was requested to clear it away as soon as possible.

7.2.3 Tree Felling and Transplanting Works

No tree transplanting work was carried out during the inspection period.

7.2.4 Recommendations

- The Contractor was reminded to clear away all scattered litter, garbage, etc. and keep the site in a tidy condition at all times.
- A number of slopes were completed last year. The Contractor is reminded to carry out planting works as required as soon as possible.

7.3 Tree Transplanting Survival Rate

7.3.1 Tree Transplanting Survival Rate

 Tree transplanting survival rate of 100% was reported by the Contractor for the period up to the end of June 2005.

7.4 Audit Schedule

7.4.1 Audit Schedule for July 2005

The next audits are scheduled on 7 and 21 July 2005.

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8. SITE INSPECTION, WASTE DISOSPAL, ENVIRONMENTAL COMPLAINTS, ENVIRONMENTAL LICENSES AND NON-COMPLIANCE RECORDS

8.1 Site Audit Findings

Five occasions of weekly environmental site audits were carried out on 2, 9, 16, 23 and 30 June 2005. Findings of the site audits are summarised in Table 8-1.

Table 8-1 Findings of Weekly Environmental Site Audit in June 2005

Date of ssue Raisec	Observation Advice from EA		CT's Response / Environmental Outcomes	Closing Date
02 June 2005 (WC163)	. Muddy effluent at outfall opposite to SCV Phase 4 was found.	Contractor to improve the desilting efficiency.	Agreed with the EA's advice.	09 June 2005
(110,00)	. Slope 8 was exposed.	Contractor to add more sandbags for bunding.	Agreed with the EA's advice.	09 June 2005
	. Mud trails were found on public road near FB01.	Contractor to clean.	Agreed with the EA's advice.	09 June 2005
	. Waste accumulated along NM02.	Contractor to clear.	Agreed with the EA's advice.	09 June 2005
	. Implementation of pest control was observed.	Contractor to maintain.	Agreed with the EA's advice.	09 June 2005
09 June 2005	. Stagnant water was found at RW01.	Contractor to dry off the stagnant water.	Agreed with the EA's advice.	16 June 2005
(WC164)	. Mud trails were found on public road near FB03.	Contractor to clean.	Agreed with the EA's advice.	16 June 2005
	. Waste accumulated along NM03.	Contractor to clear.	Agreed with the EA's advice.	16 June 2005
	. No labeling for chemical stored in FB03.	Contractor to label.	Agreed with the EA's advice.	16 June 2005
	. Oil stains were found at FB03.	Contractor to clean.	Agreed with the EA's advice.	16 June 2005
16 June 2005	. Stagnant water was found at the end of Slope 6.	Contractor to dry off the stagnant water.	Agreed with the EA's advice.	23 June 2005
(WC165)	. Waste accumulated along NM03.	Contractor to clear.	Agreed with the EA's advice.	23 June 2005
	. Implementation of pest control was observed.	Contractor to maintain.	Agreed with the EA's advice.	16 June 2005
23 June 2005	. Stagnant water and poor house keeping was observed within the store room near Slope 6.	Contractor to dry off the stagnant water and improve house keeping.	Agreed with the EA's advice.	30 June 2005
	. Mud trails were found on public road near Dragon Garden	Contractor to clean.	Agreed with the EA's advice.	30 June 2005

Date of ssue Raised	Observation	Advice from EA	CT's Response / Environmental Outcomes	Closing Date
	. Construction waste was piled at FB03	Contractor to clear.	Agreed with the EA's advice.	30 June 2005
30 June 2005	The state of the s		, -	To be followed-up in
			next environmental site audit.	
·	Implementation of mosquito control measures was observed.	Contractor to maintain.	Agreed with the EA's advice.	
	Rock drilling at Sea Crest Phase 3 was noisy.	Contractor to improved.	Agreed with the EA's advice.	
	Poor house keeping was observed within the stite near Sea Crest Phase 3.	Contractor to improved by replacing sandbags to rectify silt/sand leakage.	Agreed with the EA's advice.	

8.2 Waste Disposal

Disposal of waste material in the reporting month complied in general with the corresponding waste disposal requirements. The waste disposal quantity in the reporting month is summarised in Table 8-2.

Table 8-2 Waste disposal quantity in June 2005

Type of waste or material		Disposal at	No. of loads or quantities	Remarks
C&D waste	9	WENT Landfill	16 loads	
C&D mate	rial	Public Filling Area in Tuen Mun	737 loads	
Grease tra	p waste	Interim Grease Trap Waste Treatment Facility at WENT Landfill	0	
Chemical waste	Spent lube oil	Collected by licensed collector	0	**

8.3 Complaint Record

One environmental complaint was received on 10 June 2005 regarding the obstructions and mosquitoes found in the footway near Sea Crest Villa Phase 4. The following corrective actions were taken on 14 June 2005 to rectify the situation:

- Thorough cleaning up around the precast footbridge deck;
- Realigning the existing mill barriers to widen the adjacent footbridge deck;
 and
- Spaying appropriate insecticide.

Detail of the complaint is given in Appendix L. A log record on the environmental complaints is given in Appendix M and a cumulative statistics on environmental complaints is given in Table 8-3.

A log record on the environmental complaints is given in Appendix M and a cumulative statistics on environmental complaints is given in Table 8-3.

Table 8-3 Cumulative statistics on environmental complaints

No. of complaints received in the reporting month	No. of outstanding complaints	Cumulative no. of complaints received since the commencement of project
0	0	37

8.4 Non-compliances

Neither air quality nor noise non-compliance was registered during the reporting period.

8.5 Notification of Summons and Successful Prosecution

Neither notification of summons nor prosecution was received during the reporting month.

8.6 Environmental Licenses

No new CNP was granted during the reporting period.

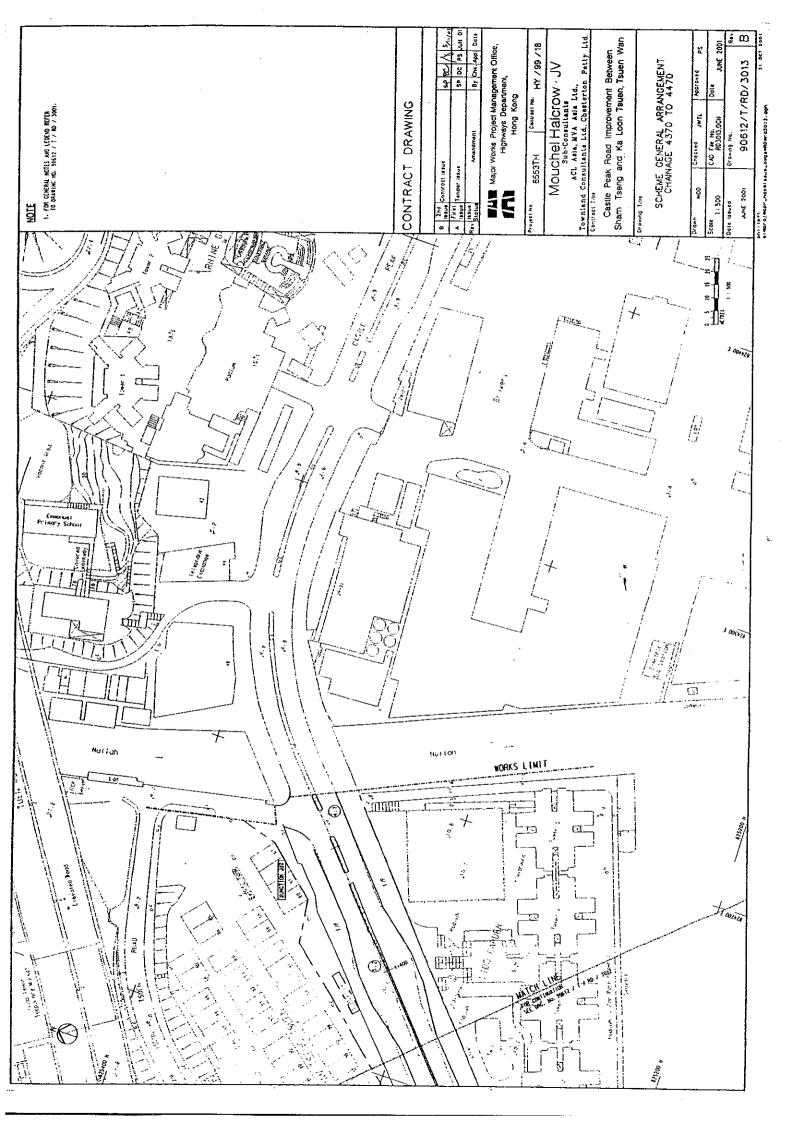
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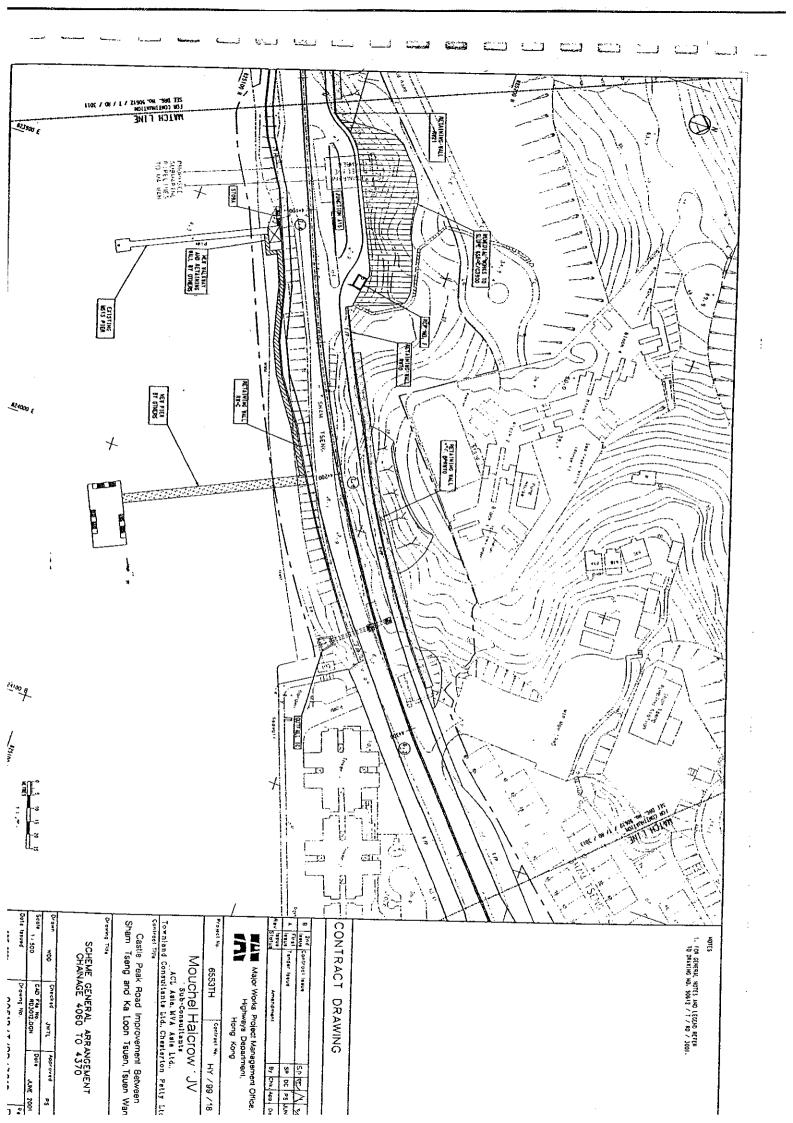
- [1] Mouchel Halcrow Joint Venture. 2001. Castle Peak Road Improvement between Area 2 and Ka Loon Tsuen, Tsuen Wan West Contract No. HY/99/18, Environmental Monitoring & Audit Manual.
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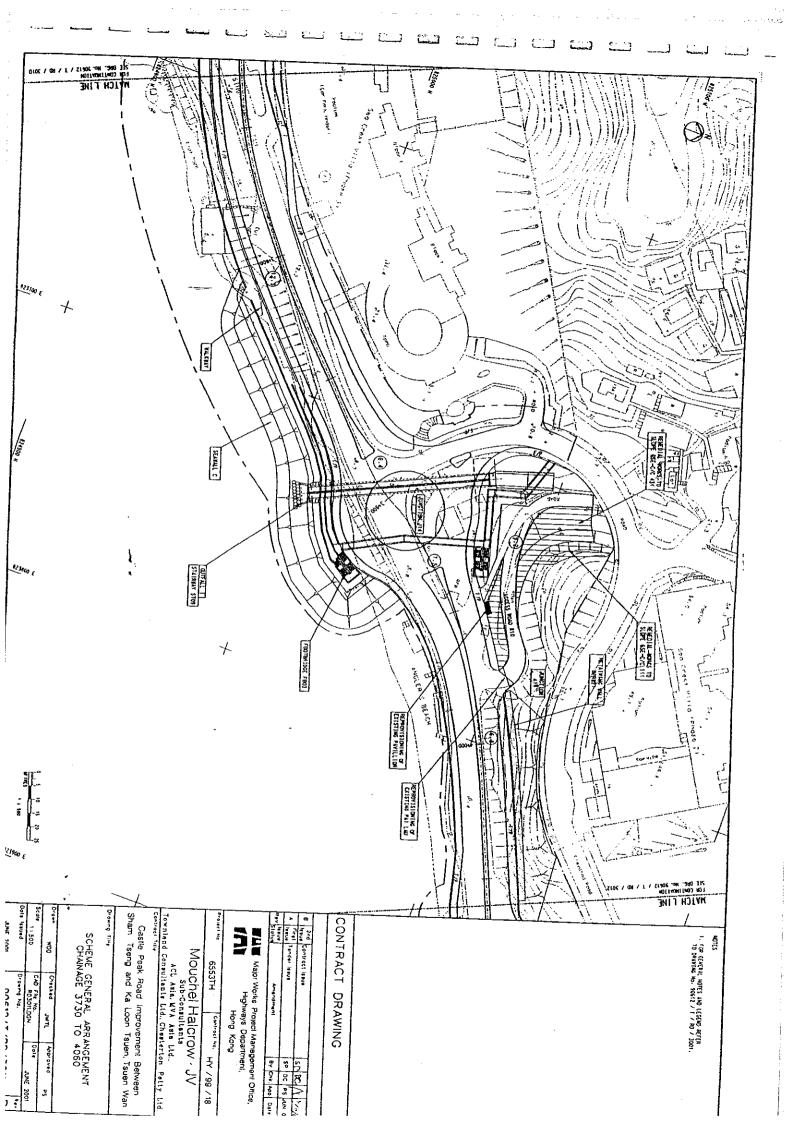
APPENDIX A

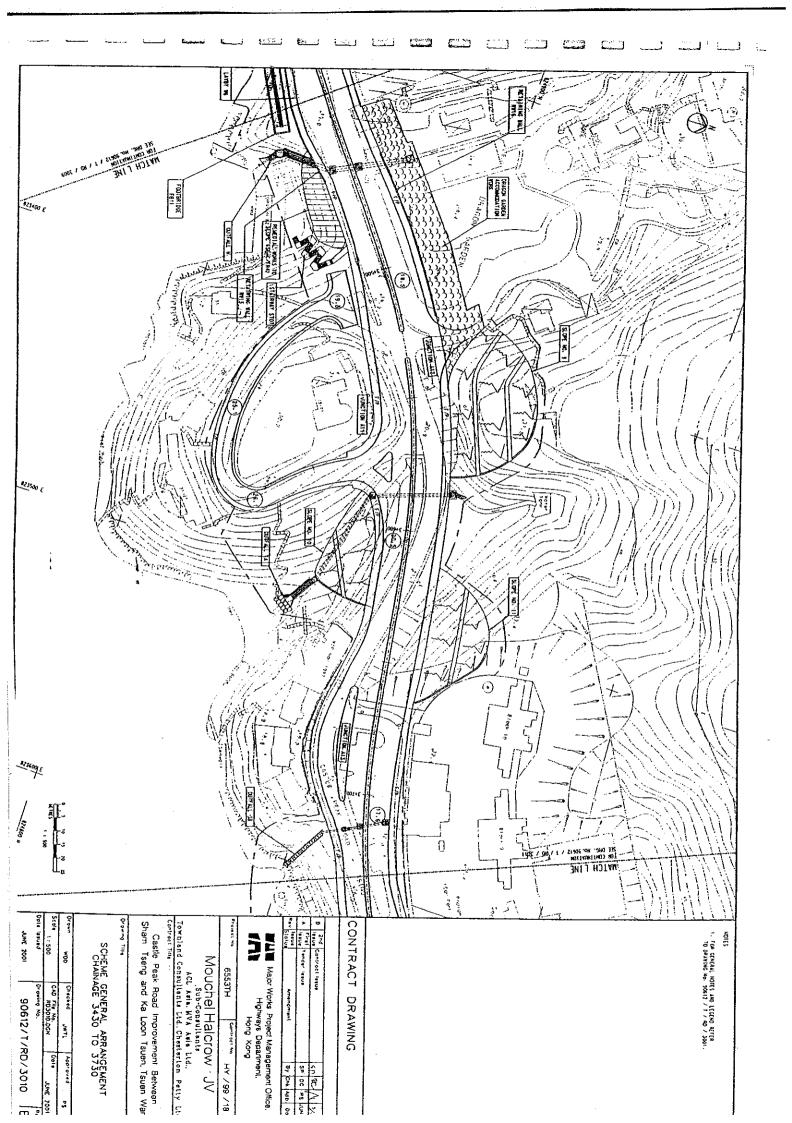
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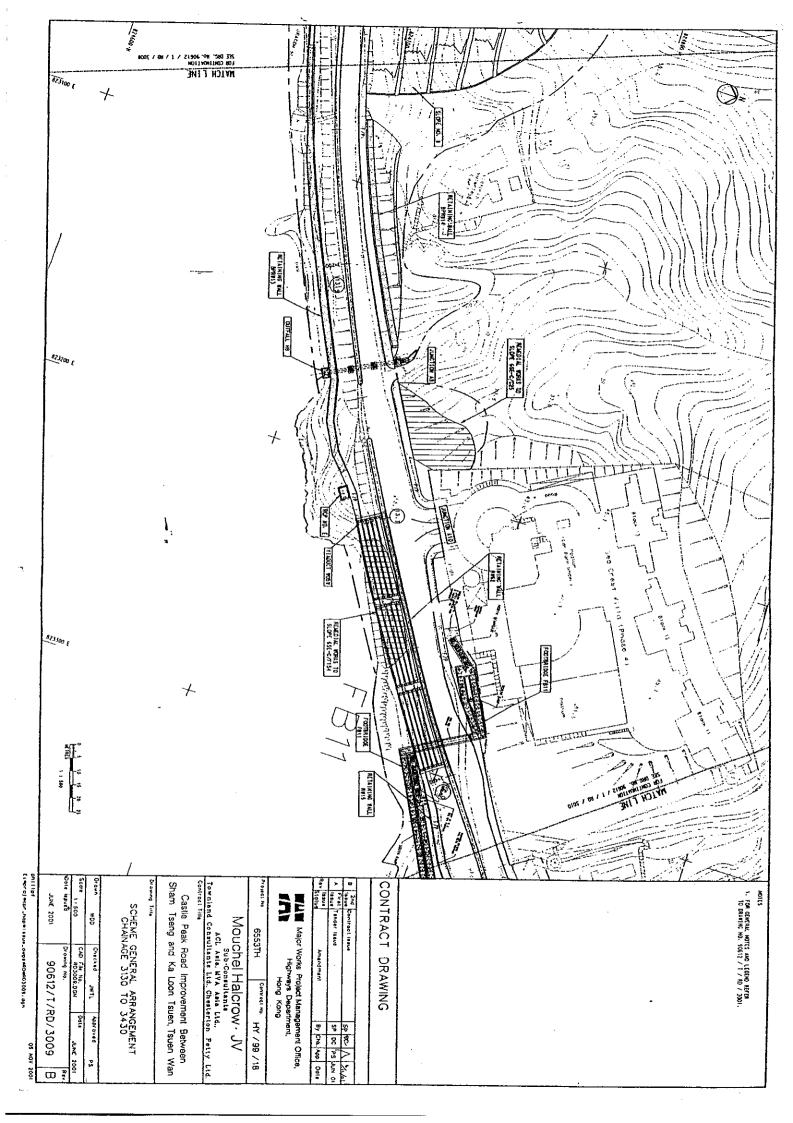
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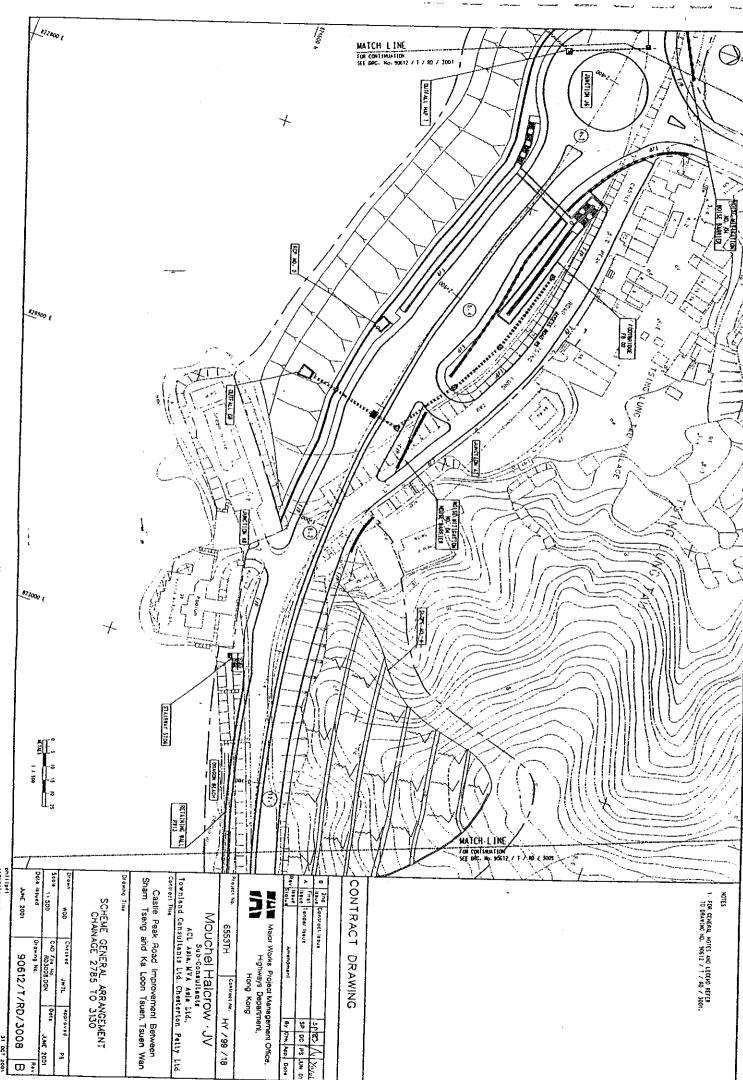












7.2 Summary of Inspection – 23 June 2005

7.2.1 Matters Arising from Previous Inspections

- Contractor cleared the construction waste piles at RW-01 area.
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- The Contractor tidied up the site area in front of the Sea Crest Villa Phase 3, except that of existing 6SE-C/C25. The Contractor was requested to tidy up the outstanding area as soon as possible.
- The Contractor cleared the construction waste piles at FB-11 and FB-03. New piles of construction waste and garbage were however observed at FB-03. The Contractor was requested to clear it away as soon as possible.
- No dry surface condition was observed during the inspection.

7.2.2 Site Clearance and Formation Works

- A construction waste pile was found at FB-01 area. The Contractor was requested to clear it all away as soon as possible.
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7.2.3 Tree Felling and Transplanting Works

No tree transplanting work was carried out during the inspection period.

7.2.4 Recommendations

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- A number of slopes were completed last year. The Contractor is reminded to carry out planting works as required as soon as possible.

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Date of ssue Raisec	Observation	Advice from EA	CT's Response / Environmental Outcomes	Closing Date	
	. Construction waste was piled at FB03	Contractor to clear.	Agreed with the EA's advice.	30 June 2005	
30 June 2005	Refuse was found at RW01 W23 gate	Contractor to remove.	Agreed with the EA's advice.	To be followed-up in next environmental site audit	
	Drainage channel/U-Channel at RW01 near W23 was silty.	Contractor to clear.	Agreed with the EA's advice.		
	Implementation of mosquito control measures was observed.	Contractor to maintain.	Agreed with the EA's advice.	Site dudit.	
	Rock drilling at Sea Crest Phase 3 was noisy.	Contractor to improved.	Agreed with the EA's advice.		
	Poor house keeping was observed within the stite near Sea Crest Phase 3.	Contractor to improved by replacing sandbags to rectify silt/sand leakage.	Agreed with the EA's advice.		

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8.6 Environmental Licenses

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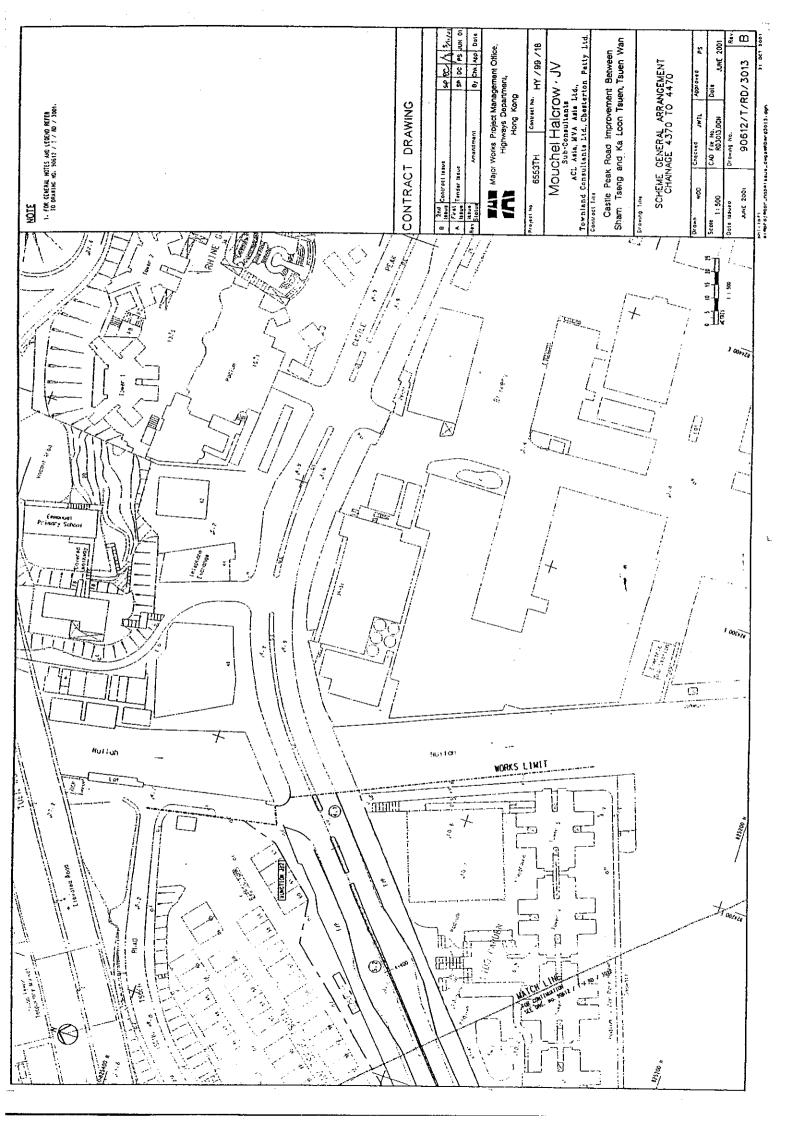
9. REFERENCES

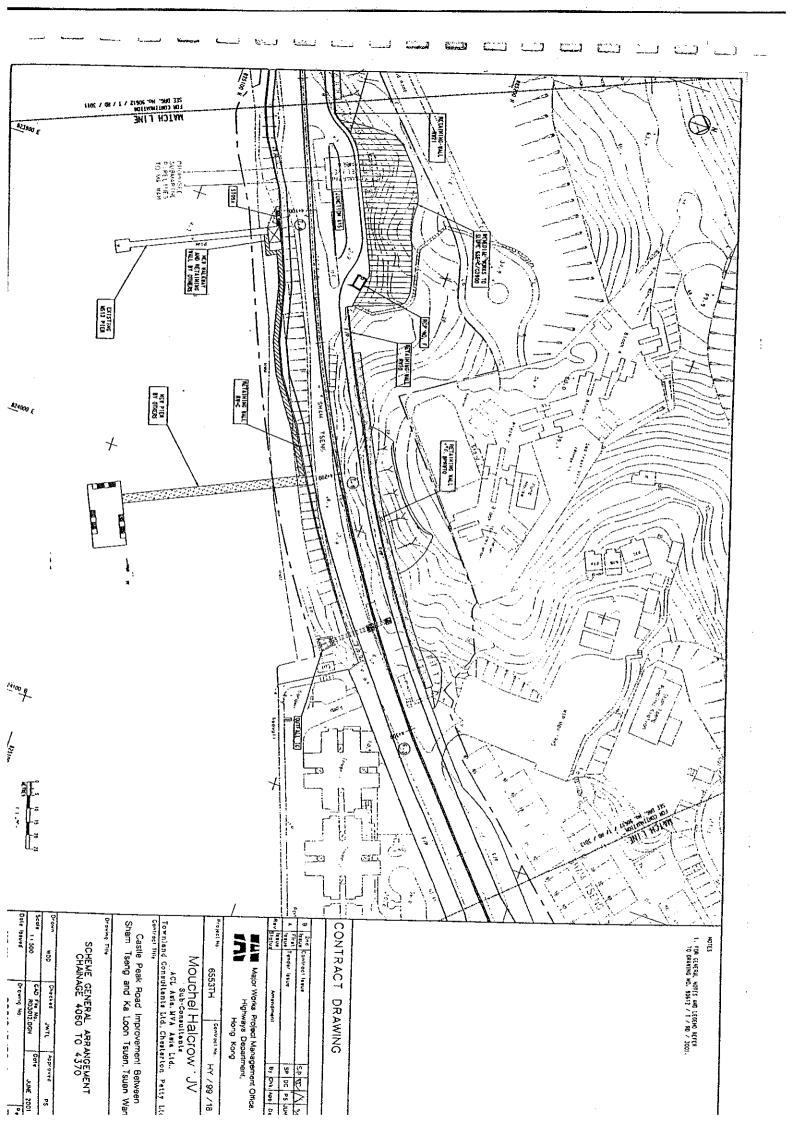
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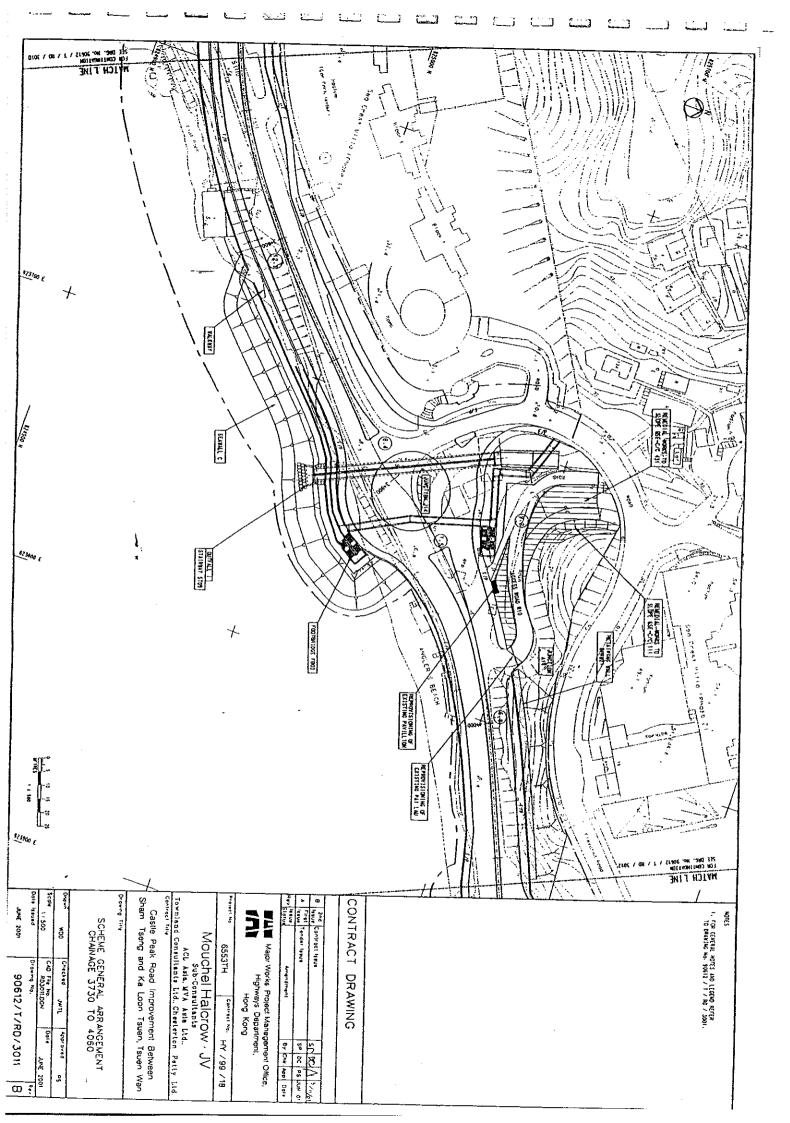
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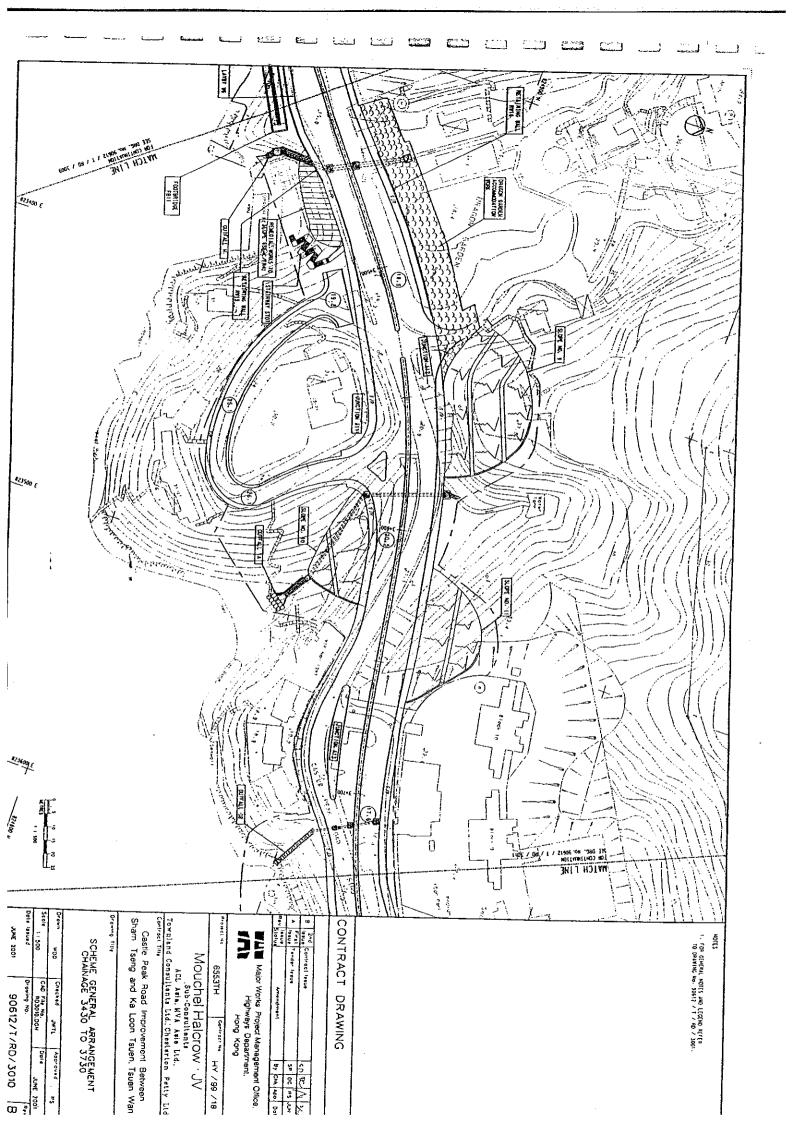
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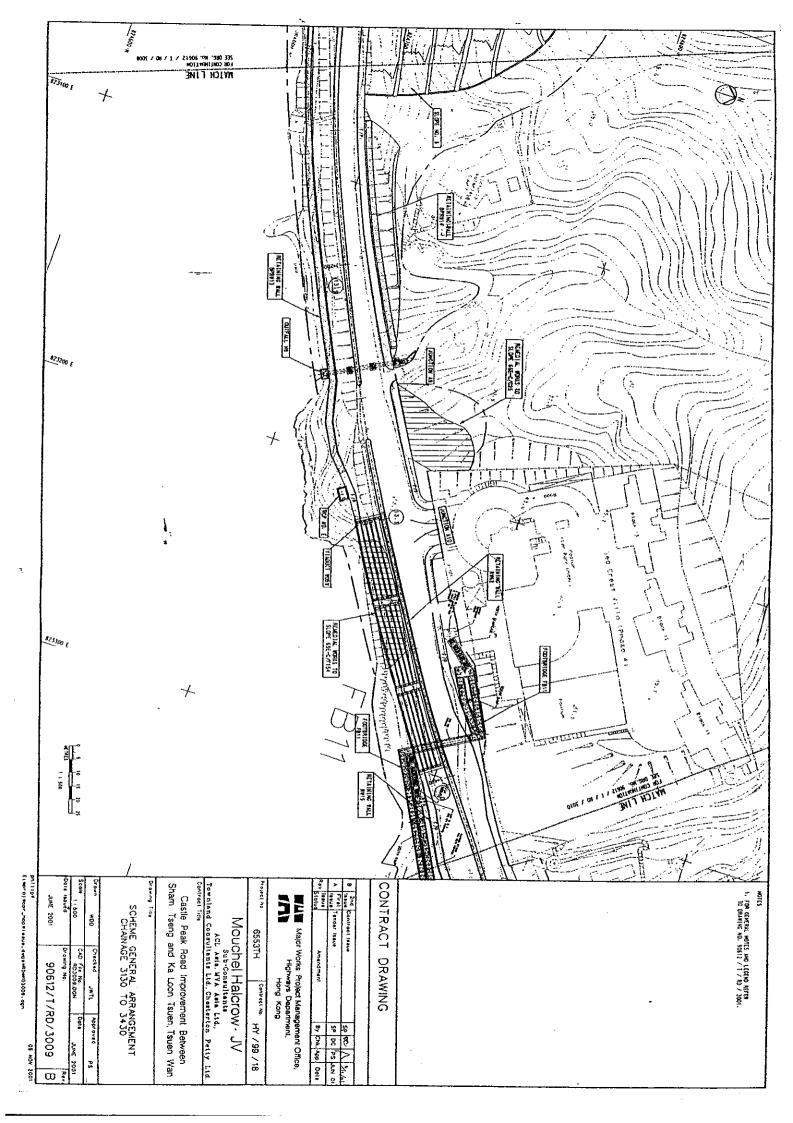
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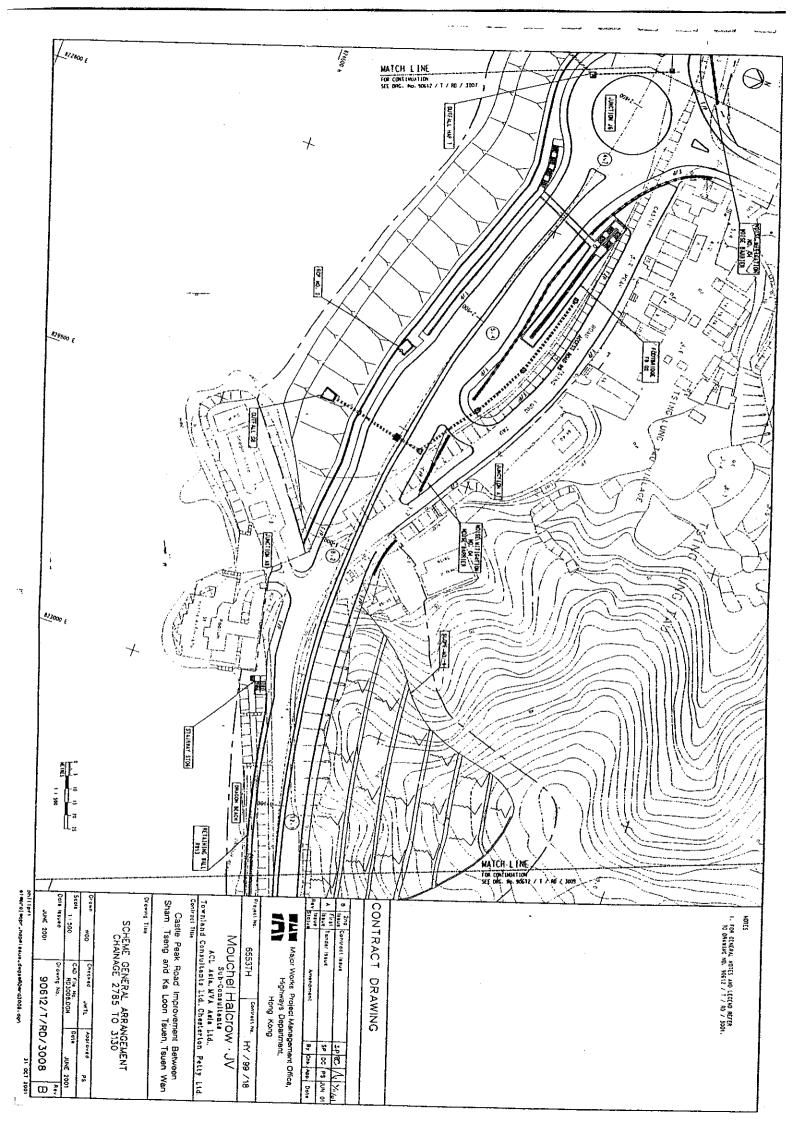


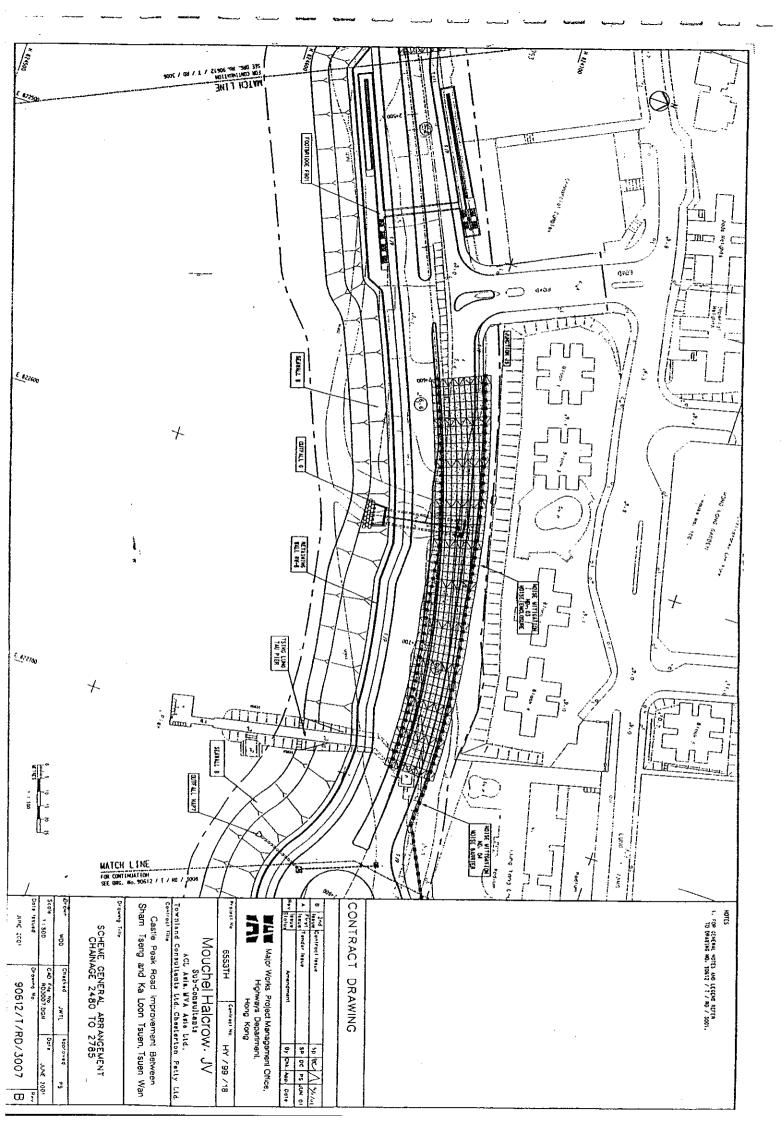


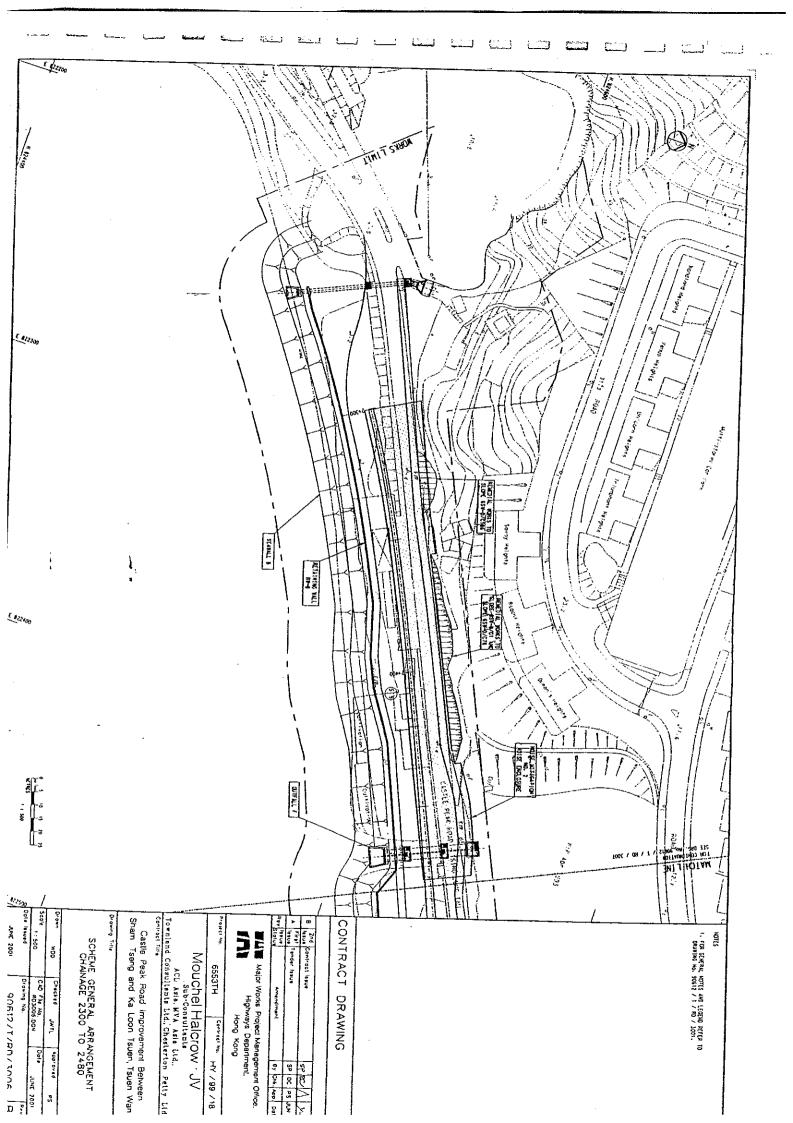


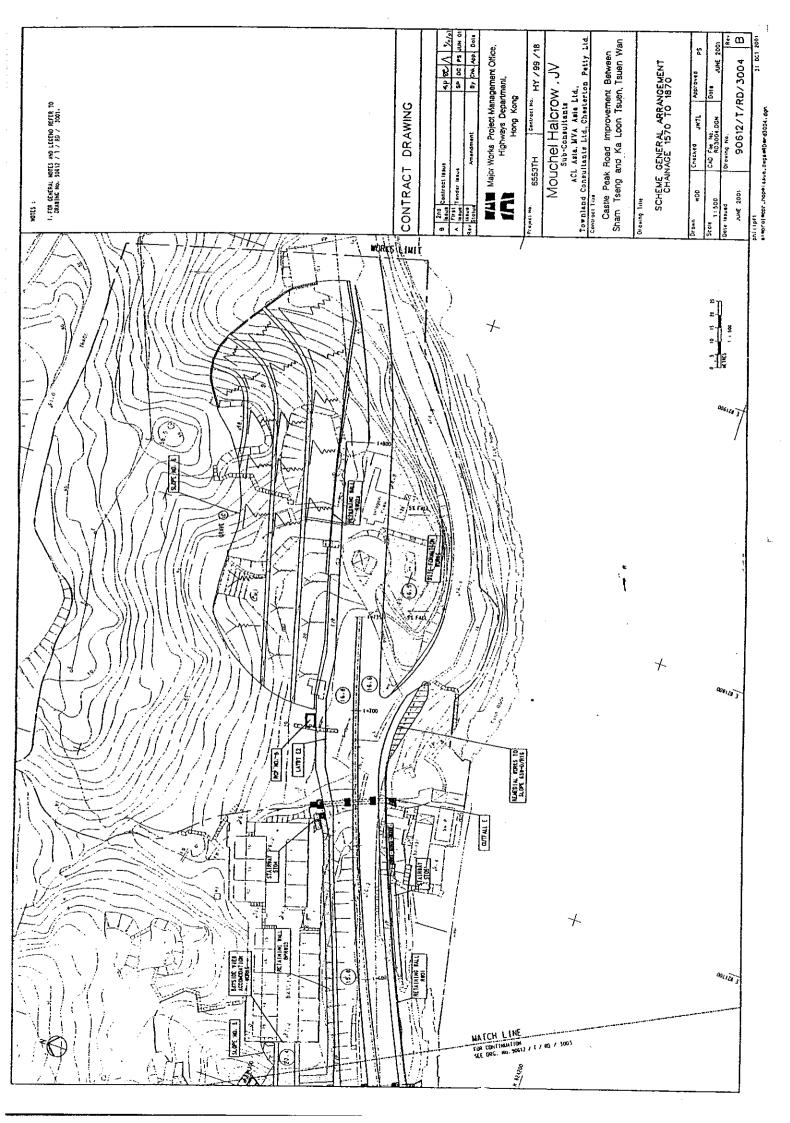


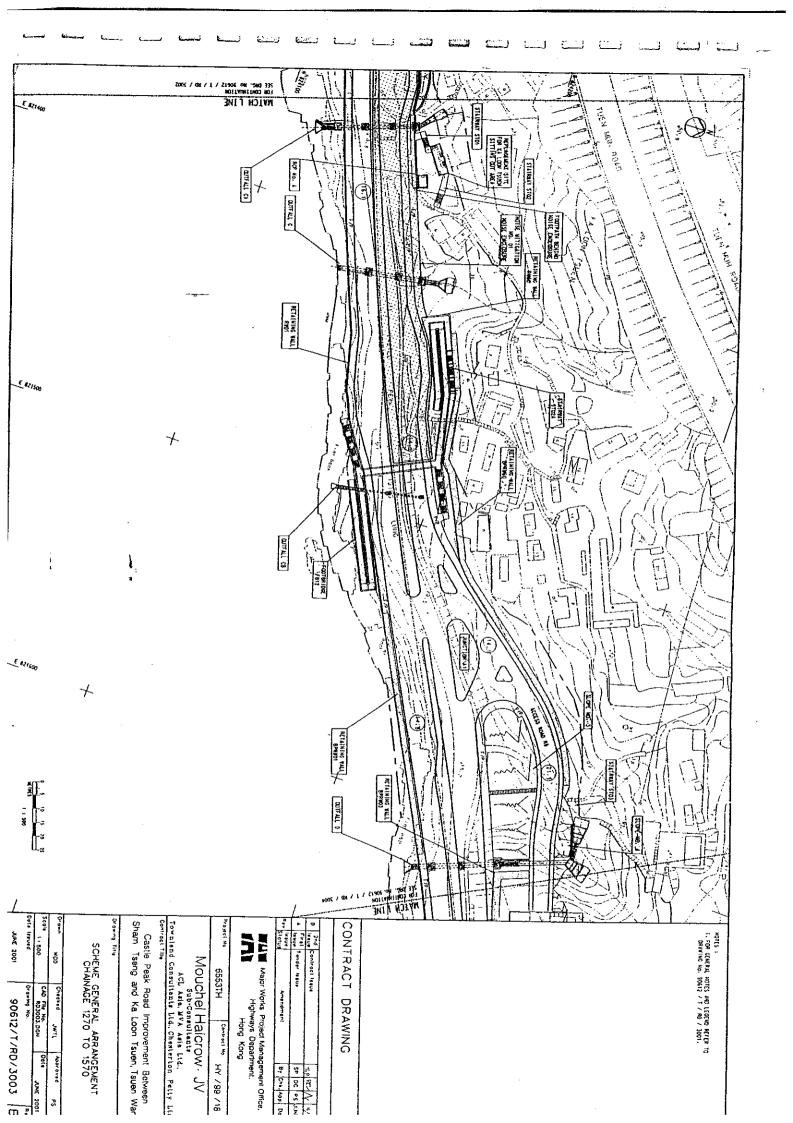


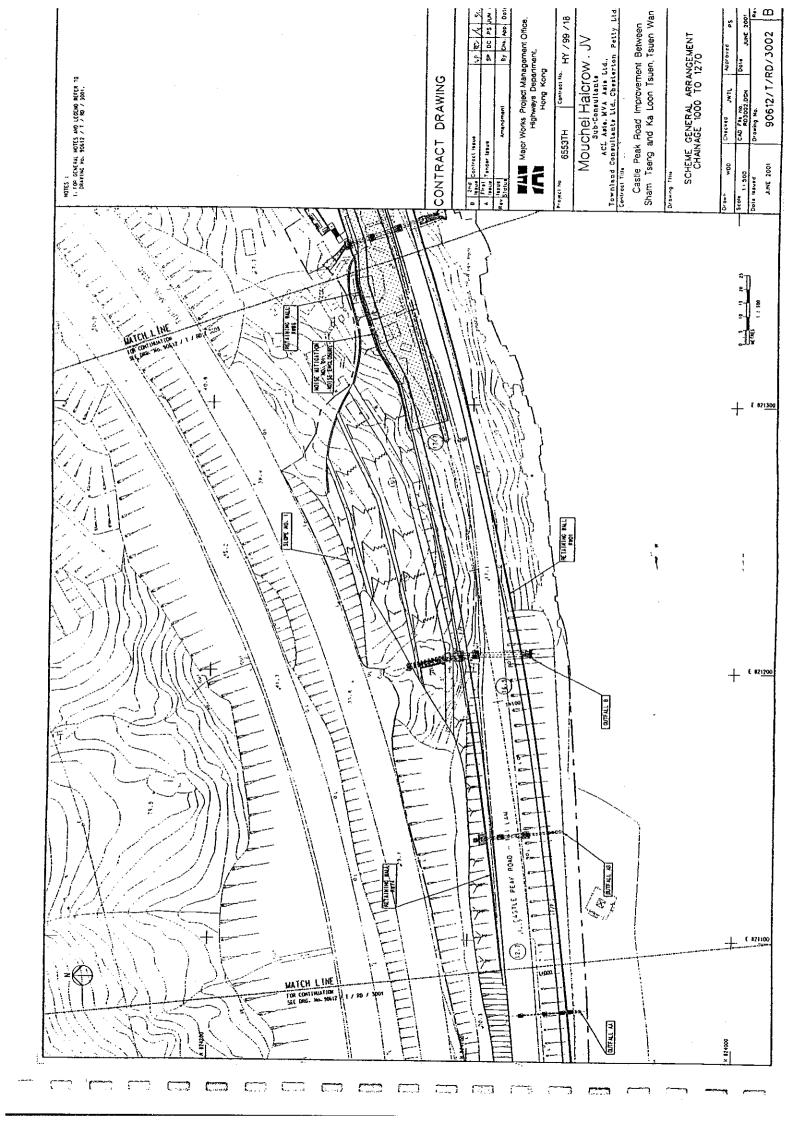


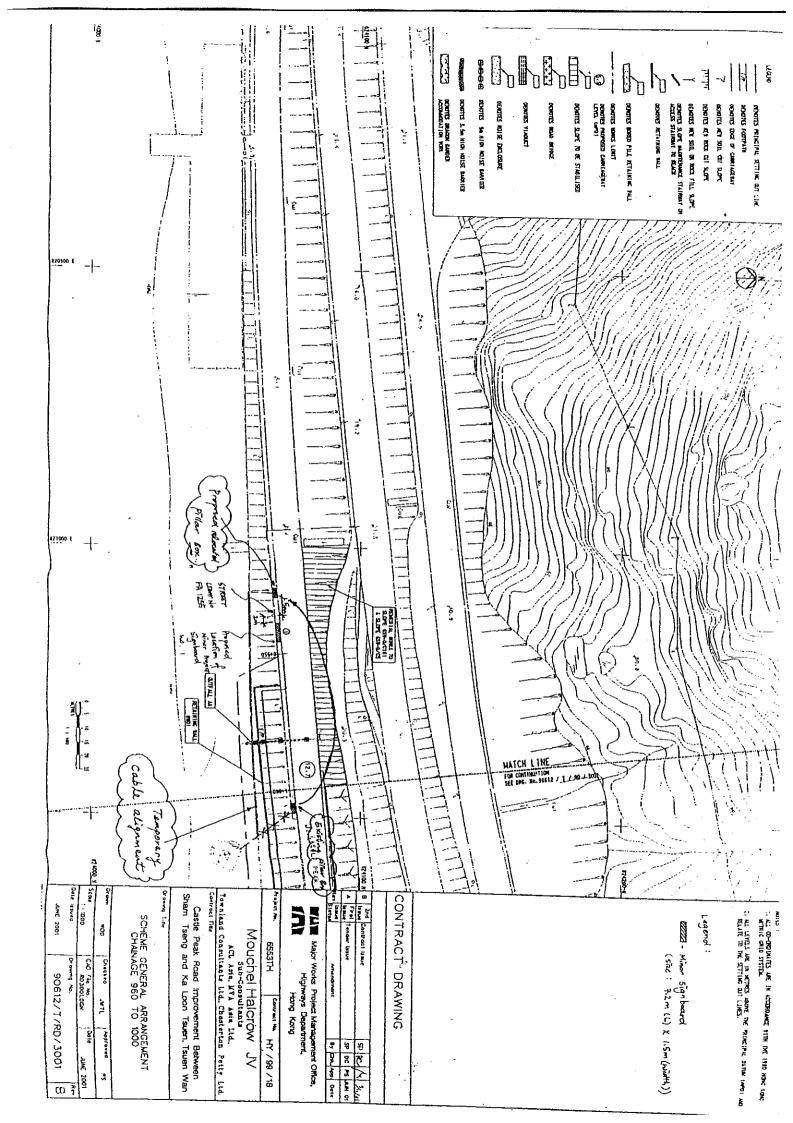












APPENDIX B

Construction programme

AUG	4 11 12 12 12 12 12 12 12 12 12 12 12 12		• •							建筑地域的建筑,这是对于一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	-											A CALLED TO THE				1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			Date Revision 1. Revision Chrone Approach	722AAD04 fersion 03 722AAD04 fersion 03 725AAD04 fersion 03 725AAD04 fersion 03A		MAEDA
Early Total Anti-Control NAV MAY THE First Final Part Control			18JULOS* 0		31OCT05 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31AUG05		31AUG05 0		310CT06 0	を表現し	31AUG05 0	_		31AUG05 0	To the state of th			19MAY05 -15	20MAY05 -15					19.11.05		7	[63]	Maeda Corporation	HY/99/18 - Castle Peak Road Improvement	3 - Month Rolling Programme	
Orig Early Dur Starth	Tseng & Ka Loon Tsuc		0		1,236 24NOV01A	1,171 21DEC01A		1,171 24NOV01A		1,601 08MAR02A		1,171 01DEC01A		· · · · · · · · · · · · · · · · · · ·	EC01A	00 to Chainage 1+870	機能を表された	8 05AUG04A	13 09APR05A	13 14APR05A	05-1464 13 15APR05A	4 17JUN05	4 20JUN05	2010125 81	4 14.01.05	1-1700 8 14JUL05	8 14JUL05	ENGLICATION OF THE STATE OF THE	Progress Bar	Critical Activity		
Activity Activity	GPR Improvement bet Sham Important Dates	100-VD6 Handover Portion No. 6 to Francisco		ng	Waste Management	01-1166 Implement & Monitor WMP	Maintenance of Traffic Flow	01-1153 Maintain Traffic Flow	Christian Monitoring & Audit	Interfacing and Country of Audit	01-1173 Coordination/Internation with laterfacing Water	01-1174 Provide Reasonable Access to Other Contractors	16. Site Safety	Safety Management System	16-1612 Implement & Maintain Safety Management System	CPR from Chainage 0+900 to Chainage 1+870	ᄝ	01-120256 Proposed CATV on E/B C,way CH1800-1860		01-12083 Proposed HKBN on W/B C,way CH1205-1464	T	01-120714 HKT Cross Rd. Ducts at E/B CH1285	01-12054 Proposed HT on F/R C way CH1205 1470		01-121922 CLP Cross Rd. Ducts at W/B CH1555	01-12193 Proposed HKT on W/B C,way CH1550-1700	01-12195 Proposed HKBN on W/B C,way CH1550-1700		to _	Run Date 27MAY05 10:40	© Primayora Systems to	or a second of second, more

ID Descr	Description	Dur Start	Finish	Float 5 10 10 10 10 10 10 10 10 10 10 10 10 10	A CONTRACTOR OF THE PROPERTY O	20		2	15
Proposed Utility Works		野田 でんせい はんだい	PAX.						
01-121932 HKT Cross Rd. Ducts at W/B CH1670	/B CH1670	4 16JUL05	21JUL05	-13					
$\neg \tau$	ray CH1550-1700	8 20JUL05	28JUL05	Ŧ					
6	WB CH1680	4 20JUL05	23JUL05	-13	A CAMPANIA DE LA CAMPANIA DE CAMPANIA CAMPANIA CAMPANIA CAMPANIA DE CAMPANIA D		and the second s	To be a second to the second t	V to the promote t
	WB CH1680	4 22JUL05	26JUL05	<u>-13</u>			•		
	way CH1550-1680	8 25JUL05	02AUG05			w			
1	way CH1680-1700	4 02AUG05	05AUG05	φ				11.20	
01-12025 Proposed HKT on E/B C,way CH1680-1700	av CH1680-1700	4 06AUG05	10AUG05	9					in the same
01-120242 Proposed HT on E/B C.way CH1680-1700	way CH 1680-1700	4 11AUG05	15AUG05	9- 4					
		CONCLUSION OF THE PROPERTY OF	SOCIULI	2			-		
		を こう とは ないがらば			-				
EWO.1		Anong Acolog					 	•	
. 02		SO DEAFROSA	1430NU3	7.7					
03-3126 Drainage along W/R Chest bet CH1550-1700	3.1	AND STANFOLDS	TOTAL STATE OF THE	200		-			
	bet CH1280-1464	40 26MAY05	13.11.105	2 6		COMPANIES NEW YORK			
2	H1500-1575	12 10AUG05	23AUG05	- 60					Marion of Chile
Pipe Works (Local Supply Watermains)	ermains)					,			
03-3151 Pipe Works on E/B C'way bet CH1280-1500	set CH1280-1500	30 22JUN05	28JUL05	13	-			THE WASHINGTON	
Road Works		高された とうきゅう	を選出していた						-
03-32182 Construct rd pave & f/p; Access Rd R8	cess Rd R8	12 22NOV04A	083UN05	-14					
03-32180 Demolish eixst, RW2a & Install Gate, Bay Side VII	stafl Gate, Bay Side VII	39 10JAN05A	OBJUNOS	-14		- 14	. .		
	: W/B CH1205-1464	20 04APR05A	17MAY05	-18					
~	B CH1205-1464	20 16APR05A	25MAY05	-17					
1	ings; W/B CH1464-1500	_	18MAY05	-18					
Ì	B CH1464-1500		23MAY05	-19					
03-32144 Rd linishes, marking & lighting; W/B CH1205-1500	ING: W/B CH1205-1500	6 19MAY05	25MAY05	6		-		;	
03-31113 Diver Traffic to W/B CWay CH 1203-1464	CH1203-1464	0 0	25MAY05		• • • • • • • • • • • • • • • • • • •				
	ing; Access Rd R8	2 09JUN05	10JUN05	4-					
03-3115 Formation, sub-base & edgings; W/B CH1500-1700	ings; W/B CH1500-1700	15 11JUL05	28JUL05	-13					
	; E/B CH1205-1550	25 11JUL05	09AUG05	7			ALL COMMANDED TO SERVICE AND S		
T	B CH1500-1700	15 19JUL05	04AUG05	-13					
	3 CH1205-1500		18AUG05	7					75.25.25.15.15.25.15.15.15.15
4	Ing; W/B CH1500-1700	6 03AUG05	09AUG05	-13	de mais annuales en manuales annuales manuales manuales que que esta de la companya de la companya de la compa		annes de la commune desse company i model ce ce est personale	A CONTRACT DESCRIPTION OF THE PROPERTY OF THE	and the first of the second
	Cway CH1500 -1700	0	09AUG05	-13					•
	h; E/B CH1500-1700		05SEP05	4-					
03-31114 Rd finishes, marking & lighting; E/B CH1205-1500	Ing; E/B CH1205-1500	6 17AUG05	23AUG05	7		-			a'kw
Footbridges					-				,
Footbridge FB12									
	for FB12 (North)	30 06JAN05A	30MAY05	26					
	ad for FB12 (South)	40 14MAR05A	14MAY05A			-	•		
05:5340 Const./Erect Deck of Main Span for FB12	Span for FB12	45 14APR05A	043UN05	21			-		
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Activity			記り記載されて、 この記載	5-4-A-15-(A-1-1)	
Ð	Activity Description	Orig Early	Early	Total	A CONTRACTOR OF THE CONTRACTOR
Footbridge FB12	ge FB12			Float 2	23 37 30 36 6 73 20 20 27 4 3 711 718
05-53402	Erect Steelwork & Roofing of Main Span for FB12	45 06JUN05	30JUL05	21	
05-53506	Erect Steelwork & Roofing for FB12 (South)	30 27JUN05	02AUG05	19	
0/5-2-70	Works for Foc	30 05301.05	09AUG05	19	
ं रहिंहा	6. Retaining Walls				
L-Shaped Walls	d Walls.			145 145 145 145 145 145 145 145 145 145	
06-6105	Retaining Wall RW01 (CH1554-1680); 13 bays	184* 17NOV04A	04.101.05	-13	
06-61051	Excavate/temp soil nalling for bays 53-65	100 17NOV04A	П		
06-61052	Construct base/wall for bays 53-65	80 01FEB05A	Г	-13	
06-61054	Construct plinth for bays 53-65	26 02JUN05	04JUL05	7.	
7. Noise	7. Noise Structures				
Procuren	Procurement of Noise Barrier	於一個一個一個一個一個一個一個一個一個一個一個一個一個一個一個一個一個一個一個	が表		
07-7060	Fabrication of Steel Members for Notes Barrier		ŶΓ	2. 1000	
07-7080	Delivery of Steel Members for Noise Barrier	90 10 II 04 A	033UN05	-28	
07-7070	Fabrication of Panels for Noise Barrier	100 16MARDEA	\top	97-	
05-2080	Delivery of Panets for Notse Barrier	OO 17MAYOR	Т		
Noise Mit	Noise Mitigation No. 01		14 A U G U S	100	
07-7114	Erect Steel Members at North Supports for NM01	30 140CT04A	A THE OF		
07-7123	Erect Steel Members at South Supports for NM01	30 16EEB05A	OZMANOE A	AI.	
07-7111	Foundation of NM01 (N): CH1300-1350 (bavs 8-10)	40 26MAY05	13,1111.05	10	
07-7115	Erect Wall Panels at North Supports for NM01	30 07 11 105	11411605	<u> </u>	
07-7130	Erect Roof Steel Members for NM01	30 22301.05	25AUG05	010	
07-7150	Erect Roof Panels for NM01	30 05AUG05	08SEP05	-19	Transfer of the state of the st
8. Culver	8. Culverts and Outfalls				
Culvert-O	Culvert-Outfall C				
08-84029	1.5m DI pipe/Step Channel: Outside RW01	10 15APR05A	20MAY05	15	
08-8403	Excavate Culvert-Outfall C (within Exist CPR)	6 26MAY05	01JUN05	1	
08-84032	Const. Culvert-Outfall C (within Exist CPR)	12 02JUN05	16JUN05	17	
Culvert-Outfall CB	utfall CB				
Т	Exc. Culvert-Outfall CB (North of Exist CPR)	6 28MAY05	01JUN05	17	
08-816012	Const. Culvert-Oulfall CB (North of Exist CPR)	12 02JUN05	16JUN05	17	
Culvert-Outfall D	utfall D				
	Exc. Culvert-Outfall D (South)	6 04APR05A	19MAY05	.2	
T	Const. 2 Manholes & 1.5m Conc. Pipe (South)	16 26MAY05	14JUN05	۲.	
08-85033	Const. 1.5m Stepped Channel & Outlet (South)	12 15JUN05	28JUN05		
Ō	Culvert-Outfall E				
\neg	Outfall E (S) section behind RW01	12 23MAR05A	23MAY05	2	
T	Oulfall E (S) Outlet	12 24MAY05	06JUN05	2	
8	Const. 1.5m Stepped Channel (South)	12 07JUN05	21JUN05	2	
T	Exc. Culvert-Outfall E (SMHE1-Inlet)	18 13JUN05	04JUL05	4-	
08-86032	Const. Culvert-Outfall E (SMHE1-Infet)	30 25JUN05	01AUG05	-14	
		,			

Activity		Orig	Early		MAYALL	2005			Aug
ΩI		·	Finish	Float 2 7 9 1 1	23	30 77 6 2 7 20 27	114 18	25.	8 115
(10) Geo	. Geotechnical & Slope Works	The state of the s				-			
Existing	Existing Slope Works								
10-102112	Remedial Works to Slope No. D/R16 (skin wall)	30 04APR05A	30MAY05	21					
12. Entr	12. Entrusted Watermains								
Entrusted	Entrusted Water Mains						-		
12-1205	DN1000FW/Associated Wks (W/B C'way	30 07JUN05	13JUL05	-13					
13. Repr	Reprovisioning of LCSD & FEHD Facilities	6.5			•				
FEHD Facilities	Sellition Sellition	· · · · · · · · · · · · · · · · · · ·							
13-1340	Reprovision of Sitting Out Area at Ka Loon Tsuen	75 13SEP03A	02JUN05	74					
Stairways			世界 からから						
13-1315	Construct Stairway ST05 & Ramp ST05A	40 02JUN05	21JUL05	1					
13-1314		30 02AUG05	05SEP05	-14					Photo Control of the Land
14. Land	14. Landscape Works					A Total			
Landscar	Landscape Softworks	を表現のでは、 は、 は、 は、 は、 は、 は、 は、 は、 は、	建造度建筑水水						
14-14115	L'scape Works in Slope No. 6	40 17MAY05	04JUL05	-28					
14-14119	L'scape Works bet CPR CH1205-1705	150 17MAY05	14NOV05	-12					Charles and the same best and
14-14114	L'scape Works in Slope No. 1	30 05JUL05	09AUG05	-28		1 (A 34c			- 11
14-14116	Slopes C161 & D	36 10AUG05	21SEP05	-28					
18. Varie	18. Variation Works								
Vehicular	Vehicular Parapets	建筑的种种	美国的地名和	在 之 之 之 之 之 之 之 之 之 之 之 之 之					
VO-24940	Addillonal Vehicular Parapets at CH 1555-1885	30 15JUN05	21JUL05	-13					
PR fro	PR from Chainage 2+210 to Chainage 3+010	3+010				-			
1. Prelim	Preliminaries			The state of the s					
Proposec	Proposed Utility Works	語が生産経入なる	できる。			-			
01-12124	Proposed CATV at E/B CH2830-2950	6 17MAY04A	18MAY05	-23				-	
01-12143	Proposed CATV on E/B C,way CH2300-2580	14 02JUN05	18JUN05	11		AND			_
01-12145	Proposed HKT on E/B C,way CH2300-2580	14 09JUN05	25JUN05	<u> </u>					
01-12153	Proposed CATV on E/B C.way CH2500-2580	14 109 1005	25JUN05						
01-12144	Proposed HT on E/B C,way CH2300-2580	14 173UN05	04,101,05	17	Colored Parlicular Manager Colored Col	A THE STATE OF THE	A COMPANY OF PRINCIPLE AND A P	arra des anapenta pelebata del colonida en mesodo.	· · · · · · · · · · · · · · · · · · ·
01-12155	Proposed HKT on E/B C,way CH2580-2800	11 17JUN05	29JUN05	152					
01-12157	Proposed HKBN on E/B C,way CH2580-2800	11 17JUN05	29JUN05	12		EN PART DE LA PRESENTA DE LA PERSONA DE LA P			
01-12146	Proposed CLP on E/8 C,way CH2300-2580	14 24JUN05	11JUL05	1		-			
01-12154	Proposed HT on E/B C,way CH2580-2800	11 24JUN05	07JUL05	12					
01-12156	Proposed CLP on E/B C,way CH2580-2800	11 02JUL05	14JUL05	12				New your control was a control of the control of th	
Program	Programme for SA No. 3		中的中国的工程						
01-0110	Programme for SA No. 3	609* 29SEP03A	29MAY05	-10					
01-0118	Prepare final SA	12 25NOV03A	22MAY05	0					
01-01110	Prepare formal copies of SA for execution SA Execute SA	7 23MAY05	29MAY05	00			•		2
			2010				-	-	

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Activity	A					2011年度過過時期	2005			
Ω	Description	Dur Start	Finish		MAY 23	30 6 113	20	101	18 25	AUG 1 8 15
Junction,	J6 (at Lung Yu Re									-
	Close western lane of Lung Yuen Rd	1 24JUN05	24JUN05	0			-			
J6-14	Expose existing UUs at western lane	12 25JUN05	09JUL05	00						
J6-18.	Lay UU cross rd	12 19JUL05	01AUG05	गंड					***************************************	
J6-20	Const. wester lane of Lung Yuen Rd	12 26JUL05	08AUG05	0				_	Villa Villa	San Service Control of the Control o
5. Footbi										
Footbridge FB01	1e FB01					-				
05-5130	North Pile caps for FB01; 5 Nos.	25 04APR05A	20MAY05	-8						
05-51302	North Columns & Column head for FB01; 9 Nos.	35 20APR05A	06JUN05	-10				· ••• • • • • • • • • • • • • • • • • •		
05-5140	Const./Erect Deck of Main Span for FB01	45 29APR05A	18JUN05	- -	WARE SERVICES	CHANT WELL SHANDON ON THE STREET SHEET	28.0			1
05-51402	Construct Ramp for FB01 (North) Frect Steelwork & Roofing of Main Span for FB04	30 20 II NIOS	01AUG05	위-			CALEBOOK CONTROL OF THE PARTY O		NAME OF THE PARTY	
05-51604	Construct Stairway for FB01 (North)	30 25.11,005	01411905	- 05	an tea or water monators of the comme	The state of the s				- total defined summer control process to also uncontrol or
05-51606	Erect Steelwork & Roofing for FB01 (North)	30 02AUG05	05SEP05	후						History - Adams Charles and the conservation
05-5170	E&M and Finishing Works for Footbridge FB01	30 09AUG05	12SEP05	-10				, <u> </u>	-	Water the State of State
7. Noise	Structures									
Noise Mit	Nolse Mitigation No. 02	建筑地域的								
07-7221	Foundation of NM02 (North)	84* 19JAN05A	04MAY05A				-			
07-72218	Const. R.C. barriers/columns; NM02 (Bays 14-23)	24 04APR05A	04MAY05A							
07-72217	Const. R.C. barriers/columns; NM02 (Bays 24-26)	18 11APR05A	17MAY05	27						
07-7212	Erect Steel Members at North Supports for NM02	30 07MAY05A	25MAY05	27	弱			· 		-
07.7230	Frect Roof Steel Members for NM02	30 09MAY05A	02JUN05	29	A STANCE OF THE PARTY.		BEARING TO THE PROPERTY OF THE			The man theory consists and the constraints of many manual contractions and
07-7240	Erect Wall Panels at North Supports for NMU2 Frect Roof Panels for NM02	30 26MAY05	30JUN05	27		And a second sec				,
07-7250	E&M Works for NM02	30 24.11305	30.111 05	27.6		<u> </u>				
Noise Miti	Noise Mitigation No. 03									
07-7321	Foundation of NM03 (North)	82* 21FEB05A	01JUN05	.3					-	-
07-73214	Construct base for NM03 (North)	30 28FEB05A	10MAY05A							
07-73216	Construct wall stem for NM03 (North)	30 14MAR05A	23MAY05	-3			-	<u>.</u> .		
07-7312	Freet Steel Members of North Supports for NM03	24 30APR05A	01JUN05	6) 6						
07-7330	Erect Roof Steel Members for NM03	30 17JUN05	23JUL05	3		manus de la companya		make the second	and the second of the second o	orth Wilson de charles to the commencer and complete the commencer and c
07-7313	Erect Wall Panels at North Supports for NM03	30 02JUL05	06AUG05	5						STATES AND A STATE OF THE STATES AND A STATES AND A STATE OF THE STATES AND A STATE OF THE STATES AND A STATE
07-7340	Erect Roof Panels for NM03	30 16JUL05	20AUG05	-3			_ i-			
07-7350		30 01AUG05	03SEP05	£-				-		A STATE OF THE PROPERTY OF THE PARTY OF THE
Noise Mit	Noise Mitigation No. 04	一般 できる できる						- · · -		i .
07-740413	Stub Column of NM04 (bays 12-13)	8 13MAY05A	23MAY05	23						
07-74042	Stub Columns of NM04 (bays 1-4)	8 17MAY05	25MAY05	21	TO SERVICE STATES					
07-7408	Erect Frame for NM04 (bays 1-4 & 12-13)	30 26MAY05	30NUL05	21		ANNAPARAKAN MERINGHERIA KEMBURAN MERINGHERI KINAPARAKAN				
07-74072	Erect Panels for NM04	30 02 3 0 0 0 5	06AUG05	21				Kertelling and Land		
8, Culve	8. Culverts and Outfalls									
Culvert-0	Culvert-Outfall GB	を 100mm 10				STATE OF THE STATE				
108-89202	Culvert-Outfall GB (remaining); VO165	25 17MAY05	15JUN05	9 1	TO SECURITION OF THE SECURITIO	AND THE STATE OF T				4.

Activity			Early				2008			The state of the s	
			Finish	Float 2	MAY 33 30	NI	Jack UC			AUG	!
9. Seawalls a	9. Seawalls and Marine Works								27	89	1
90	が一般では、100mmのでは、100m										,
00-91551 Repro	Reprovision of Pavillion at Sea Wall B	570* 19JUN03A	7	-23				-			
US-8 333 K00	03-5 I 533 KGOlng/starrcase/flooring & finishings	40 07JUN04A	23MAY05	83							
	lical & Slope Works		是"多"的""A"的"A"。	W. Control of				-			
დ	Works	が必要を含め		では、				-			
09-921246 Draina	Drainage, Toe of Slope 6SW-D/C1&78/VO386G	18 03MAY05A	27MAY05	41	The state of the s						
11. Entrusted	11. Entrusted Sewerage Works		•								-
Entrusted Sewers/Drains	ers/Drains										
	Sewer Works at Access Road R9 at West	40 24MAR05A	25MAY05	-23				. <u>.</u>			
1	Sewer Works at Access Road R9 at East	40 01APR05A	Т	6							
2	Sewer Works at CPR CH2580-2650	20 25APR05A		5	**************************************						
11-1131 Sewer	Sewer Works at CPR CH2650-2750	25 26MAY05	24JUN05	co	12 CARCARIO (18 CARCARIO) (18 CARCARIO (18 C						
Sewel Sewel		20 30JUN05	25JUL05	-23			-I				
"12: Entruster	12: Entrusted Watermains	San Sale									İ
Entrusted Water Mains	r Mains		建筑建筑					-			
12-1232 DN150	DN150 cross rd & fire hydrant at CH L600	12 03MAY05A	14MAY05A								
12-12322 DN150	12-12322 DN150 & Thrust Blocks of S.V. Chamber at CH L605	12 17MAY05	1	17							
14. Landscap	e Works			1							
Landscape Softworks	works	というない。		71.4				-			
14-14111 Landsc	cape Works CH2300-3010	150 30MAYOR	TO CLASE	- Control							
18 Variation	18. Variation Works	COL AMOR SOCI	20NOV05	.23						and bigging a state of the	11.5
Add. Fishermen	Add. Fishermen's Access Staircase at Sewall B	高いなどを表	たが変異なる							- · · -	
VO-35600 Constru	Construct Fishermen's Access Statroase: VO356	10 1711/06	POINT 90			- Contraction of the Contraction			· • · ·		
6 MOUNTED	CTR from Champage 3400 to Champage 32.720	2-720	CONOCO	71		THE WAR					-
1. Preliminarie	Se								-	· 	
90	/ Works					- 1		- · ·			
T	Gasmain on W/B CH3300-3460 incl. Cross Rd. Ducts	6 30MAR05A	19MAY05	-26	-					·· <u> </u>	
T	Proposed CLP on W/B C.way CH3400-3530	7 07JUN05	15JUN05	31						·	
01-12412 Projosi	Proposed HK I on W/B C,way CH3400-3580	7 16JUN05	23JUN05	31		A COLUMN	100 m	-		•••	
Т	Drossed Office of E/B CH2995	4 24JUN05	28JUN05	m			THE SECTION				
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7	CATV Cross Rd. Ducts at E/B CH3030	4 29JUN05	04JUL05	3							
T	Proposed HKT on E/B C,way CH2950-3130	9 02JUL05	12JUL05	-5							
\top	Proposed HKBN on E/B C,way CH2950-3130	9 02JUL05	12JUL05	-5							
	HT Cross Rd. Ducts at E/B CH3035	4 05JUL05	08JUL05	က				-		·	
2	CLP Cross Rd. Ducts at E/B CH3080	4 09JUL05	13JUL05	3							
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7	Figures of the Charles Charles CH2850-3130	9 16JUL05	27JUL05	-2							
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NE CHASOD: 3400 10JUNOS -38	03-33145	Lay sub-base, kerbs & edgings; W/B CH3300-3400	7 06MAY05A	04JUN05	-38			
See CH3010-3400 C	03-33146	Construct rd pave & f/p; W/B CH3300-3400	6 04JUN05	10JUN05	-38			,
Street S	03-33161	Divert Traffic on W/B Perma C'way CH3300-3400	0	10JUN05	-38			
13 12 13 13 13 13 13 13	03-3317	Formation/sub-base, kerbs; E/B CH3010-3460	il	14SEP05	-38			Charles and the second
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r Footbridge FB11 30 05JUL05 09AUG05 19	05-55402	Erect Steelwork & Roofing of Main Span for FB11	30 27JUN05	02AUG05	19		ARIEM SERVICE CONSTRUCTION	5
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rced Earth Wall 14 Mass conc./Install panet & mesh/Backfill/coping 60 21MAR05A 08JUN05	S. Retail						•	,
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06-6580	Construct Retaining Wall RW15	244* 09AUG04A	04JUN05	-38							
06-65806	Base/wall for RW15; bays 4-6	40 21FEB05A		-38							
06-65808	Plinth for RW15; bays 4-6	16 11APR05A	04JUN05	29							·• ·•-
06-65807	Backfill for RW15; bays 4-6	10 18APR05A		38							
6. Culive	8. Culverts and Outfalls										
Culvert - (Culvert - Outfall HB									-	
08-81020	Temp. Works & Exc. Culvert-Outfall HB (Middle)	21 10.JAN05A	17MAY05	1 00							
08-810202	Const. Culvert-Outfall HB (Middle)	30 18MAY05	22JUN05	2 2				·			· • · • • · • · • · • · • · • · • · • ·
08-810203	Jivert-Outfall HB (North)	30 23JUN05	29JUL05	-20				_			<u>.</u>
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08-81130	Exc. Culvert-Outfall H (Remaining Portlon)	12 17MAY05	30MAY05	-23					<u> </u>		
08-811302	Const. SMHH2; Outfall H	10 31MAY05	10JUN05	-23							
08-811303	Const. 1.65m pipe with conc. suround; Outfall H	10 13JUN05	23JUN05	-23						-	
08-811304	Const. 1.65m cascade; Outfall H	10 24JUN05	OBJULOS	-23							
10. Geore	10. Geotechnical & Slope Works										
Existing S	Existing Slope Works										=
10-1092	Remedial Works to Slope No. FR41	540* 26.IUI 03A	23MAY05	13					er a Jaka .		
10-10928	Fill behind RW104 & Finishing Work	16 07JAN04A	23MAY05	2 E							
11 Entru	11. Entrusted Sewerage Works	1.45									
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11-114001	350mm Twin Rising Mains at CH 3000-3130	40 01APR05A	15JUN05	-21			_				
11-114002	350mm Twin Rising Mains at CH 3130-3250	40 18APR05A	07JUL05	81,							 -
11-1140	Sewer at E/B CH3000-3130	40 17MAY05	04JUL05	-21			-				
\neg	Sewer at E/B bet CH3130-3250	40 10JUN05	29JUL05	-20							
6	350mm Twin Rising Mains at CH 3250-3460	40 27JUN05	13AUG05	-38							A SAME AND A SAME
11-11402	Sewer at E/B bet CH3250-3460	40 28JUĽ05	12SEP05	-38	majoritation of the best of the control of the cont	THE PERSON NAMED AND PARTY OF THE PE	And the state of t	de project de desta de del de la bernia de de	and the second state of the second se		production of the state of the
12. Entru	12. Entrusted Watermains										-
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12-1230	DN1000FW/Associated Wks E/B CH2970-§100	50 03MAR05A	25MAY05	-21							
12-12301	DN1000FW/Associated Wks E/B CH3130-3250	50 01APR05A	307UN05	18							
12-1221	DN1000FW/Associated Wks(W/B Cway CH3400-3470	26 04JUN05	06JUL05	-23							·
12-12302	DN1000FW/Associated Wks E/B CH3250-3400		11AUG05	-38				-			
13. Repro	13. Reprovisioning of LCSD & FEHD Facilities						-				
Stairways											
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13-13328	Finishing & railing; ST07	12 17.IAN05A	23MAY05	- 12			_				-
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14-14101	Landscape Works bet CH3010-3730	150 17 II NOS	140ECOR	STATE OF THE PARTY	-			_			
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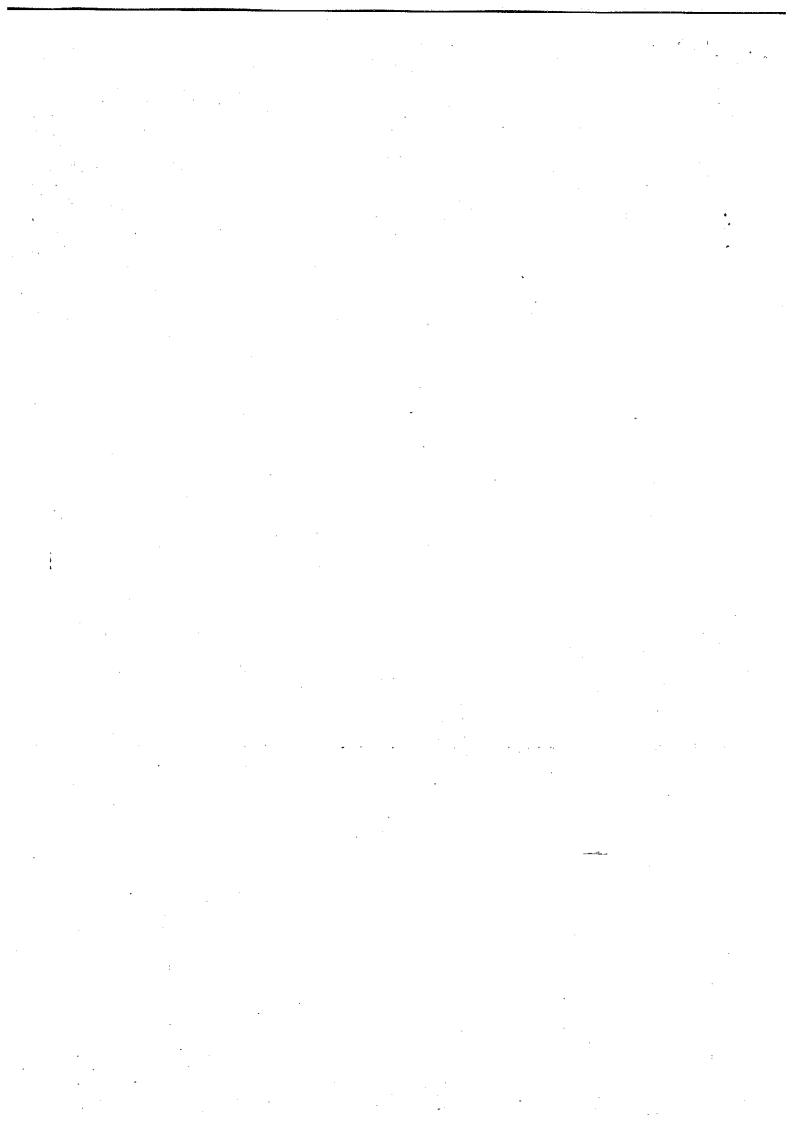
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Interface Control Co	V0-24960 Additional Vehicular Parapets at CH 3400-3425	AY05	28			
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HKT Cross Rd. Ducts at WIR CH4363	Т	30JUN05	40			-
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Activity	Activity	<u>5</u>	Early	Early	Total Total	AND MAY WELL THE RESERVE TO THE TOTAL THE PROPERTY OF THE PRO
S Rozolyorks		During	Start	Finish.	Float 2 W	23 45 45 45 45 45 45 45 45 45 45 45 45 45
Utility Diversion		走賽里				
03-34506	Expose/project UUs at E/B CH 3850-3900	30 01	30 01FEB05A	24MAY05	-40	
03-34505	Expose/protect UUs at E/B CH 3630-3850	30 05		08JUL05	-34	
Earthworks	KS					
03-3401	Road formation at W/B C'way CH3730-3850	12 16	12 18APR05A	04MAY05A		
03-34012	Road formation at W/B C'way CH3630-3730	10 02	10 02JUN05	14JUN05	-34	
03-3402	Road Formation at W/B CH3950-4200	20 08	Γ	04JUL05	-35	
03-34022	Road Formation at W/B CH4200-4330	20 14	Γ	06AUG05	-26	
Drainage Works	Works					
03-3465	Construct drainage/backfill at E/B CH4300-4470	148 25	148 25AUG04A	20MAY05	-34	
3 03-34201	Drainage Works at W/B C'way CH3610-3730	30 24	П	02JUN05	-31	
03-3421	Drainage Works at W/B C'way CH3950-4200	50 30		25JUN05	-35	
03-34212	Drainage Works at W/B C'way CH4200-4330	50 05	_	08JUL05	-26	
03-3423	Drainage Works at E/B C'way CH3850-3900	30 31	30 31MAY05	06JUL05	-40	
03-3425	Drainage Works at W/B Cway CH4330-4470	48. 02	48* 02JUN05	30701.05	-34	
03-34252	Trial pits/Shet piling/excavate for drainage	40 05	40 02JUN05	21JUL05	-34	
03-34254	Construct drainage/backfill at W/B CH4330-4470	40 13	40 13JUN05	30701.05	-34	
03-3422	Drainage Works at E/B C'way CH3670-3850	45 05	45 05JULOS	26AUG05	-34	
03-34204	Drainage Works at W/B C'way CH3900-3950	10 19	10 19JUL05	29JUL05	-40	
03-3444	Drainage Works at E/B C'way CH4050-4160	40 20	40 20JUL05	03SEP05	-35	THE STATE OF THE PARTY OF THE P
Pipe Worl	Pipe Works (Local Supply Watermains)					
03-3434	Pipe Works at W/B C'way bet CH3950-4200	30 17	30 17MAR05A	18JUN05	-35	
03-34310	Pipe Works at W/B C'way bet CH3600-3700	20 18	20 18APR05A	06JUN05	-34	
03-3440	Pipe Works at E/B C'way bet CH3850-3900	36 18	36 18APR05A	15JUN05	-33	
03-34341	Pipe Testing & Connection at CH3950-4200	18 20		11JUL05	-29	
03-34342	Pipe Works at W/B C'way bet CH4200-4330	30 24		30JUL05	-26	
03-3441	Pipe Works at W/B C'way bet CH4330-4370	30 05		09AUG05	-34	
03-34314	Pipe Works at W/B CH3910-3950	10 30	\top	10AUG05	-40	
03,34345	Total of Charles of E/B C way bet CH35/0-3850	30 04	T	07SEP05	-34	
Road Works	Ks.	18 11	18 11AUG05	31AUG05	-40 40	
03-34534	Starte 3 TTA (works at E/B slow lane)	254* 23 II II: 04 A		O1 HINDE	i William	
03-34561	lay sub-base, kerbs & edgings; E/B CH4330-4470	12 15		26MAY05	1 40	
03-34556	Construct rd pave; R10	8 20	Ī	20MAY05	-2	
03-3450	Lav sub-base; W/B CH3730-3850	4 05		17MAY05	.27	
03-34502	Construct rd pave & f/p; W/B CH3730-3850	8 17		25MAY05	28	
03-345423	Construct rd pave & f/p; E/B CH4330-4470	8 24		01JUN05	-34	
03-3452	Divert Traffic to W/B Perma C'way CH3730-3850	0	Γ	25MAY05	-28	•
03-3412	Divert Traffic to E/B C'way CH4330-4470	0	Ü	01JUN05	-34	•
03-34535	Stage 4 TTA (works at W/B carriage way)	68* 02JUN05		23AUG05	-34	
03-34501	Lay sub-base, kerbs & edgings; W/B CH3630-3730	8 09	SONILLEO	18JUN05	-34	
03-3451	Lay sub-base, kerbs & edgings; W/B CH3950-44150	20 17,		11JUL05	-35	
03-34503	Construct rd pave & f/p; W/B CH3630-3730	8 20		28JUN05	-34	
2 C+C+C	Louisitudi rd pave & (p); VV/B CH3950-4150	20 24	20 24JUN05	19JUL05	-35	

Market M	Activity	Activity	7 <u>1</u>	Early	Total	MAY			August NOT	2005				AttG	
Description to the property of the property	2	Describtion	- ,	Finish	Float 2		73	6	П	27		18	25 1	æ	
	Road Wo	rks			意味が					-					
Ref. imministration and seek of the content of th	03-34520	Divert Traffic to W/B Perma C'way CH3630-3730	0	28JUN05	-34					•					
We further where a full mine, A fortune 03-3464	Rd. formation/sub-base,kers; E/B CH3850-3900	10 28JUN05		-40									· .		
Chemited Trade to Week Chemistry Should Not Activities Chemistry Should Shou	03-34558	Rd finishes, marking & lighting; R10	4 02JUL05		47							er andre er e			
Cheer Turning Loss (200 to 180 to 1	03-34642	Construct rd pave & f/p; E/B CH3850-3900	10 06JUL05		-40										
### 17 19 19 19 19 19 19 19	03-34672	Divert Traffic to E/B Cway CH3850-3950	0	16JUL05	-40			· <u> </u>				•		~ .	
27 1970 19	03-34522	Divert Traffic to W/B Perma C'way CH3950-4150	0		-35							*			_
Continued case & Continue Wile CHASTA-4170 12 (JANUEGO 12-ANGEGOS 2-34	03-345122	Lay sub-base, kerbs & edgings; W/B CH4200-4330	20 22JUL05		-26						-			Sandring and the same	Res
Communication grows & factor with Contraction of the Charles of	03-34511	Lay sub-base, kerbs & edgings; W/B CH4330-4470	12 03AUG0		-34			_	-					Many Carry	
Unificient Provide A (Park B) Unificient Provided A (Park B) Unificient Pr	03-345124	Construct rd pave & (/p; W/B CH4200-4330	20 03AUG0		-26		-							Salar salva et leat	難なり記され
Figure 2 Fourier Section Figure 2 Fou	33-34513	Construct rd pave & f/p; W/B CH4330-4470	12 10AUG0:		-34									2.00	di mondo
Detect Selection for Fig. 1	5. Footb														
Fierd Statement As Declaration for PEGG 1700 1-10 1-	Footbride	le FB03	(1) · 是一种中国	はあるというない。											
Fines and Pine Teatron (2 Most Area 2	35-54606	Erect Steetwork & Roofing for FB03 (North)	30 08NOV0	Г	.10				-						
Pierce and Pierce Annual Constitution 20 Journals 23 Journals 24 Journals 24 Journals 24 Journals 24 Journals 24 Journals 25	35-54508	Erect Steelwork & Roofing for FB03 (South)	30 08JAN05		27	100									
Midlie Floation # Column Factor Front 12 January 13 January 13 January 13 January 13 January 14 January 15	35-54122	Piling and Pile Testing (2 Nos.); FB03 (Middle)	30 04APR0£		-38									·	
Constituence Allenia Wales Columne and Charles 24 (0.1), UNIONS 2.48 (1.1)	35-54123	Middle Pile cap for FB01; 1 Nos.	12 20MAY0		-34			_							
Construct Relation With Day 25-35 26 Hours 26 Hou	35-54124	Middle Column & Column head for FB01	24 03JUN05		-34					Ī					
Secret Statework & Northing of Nato San for Floors Sol Bauluos Sol)5-5440	Const./Erect 2 Nos. Main Deck Beams for FB03	70 03JUN05		-30					I				VA Absorbaggy sand	Marian or sit de
Courte Strict Outfalls	15-54402	Erect Steelwork & Roofing of Main Span for FB03	50 28301.05		-26									a cet i le commence	History Co.
Executive Current Current Early CPR1	Culve							· · · · ·							
Ecc. Culvart-Outfail IB (within EB of CPR) 6 28 JUN05 05 JUL05 34	Culvert-O		でもなりを表現					-							_
Const. Culvari-Outsin B within Ele of CPR) 24 Ozulvids 3-4 Ozulv	38-81510	Exc. Culvert-Outfall IB (within E/B of CPR)			-34			-							
Excavate Culvert bave 5-7: Outfall 1 24 GYMAROSA 22.UNOS 4.0)8-815102		24 07JUL05		-34										
Excavale Culver bavs 5-7: Outfall 24 07MAR05A 02JUN05 40	Culvert-0														
Construct Retaining Wall RW.C; bay 26:17.21 48 John Vota at EB Cwar bet CH3870-380 49 John Cota at EB	38-81330	Excavate Culvert bays 5-7; Outfall I	24 07MAR0	П	-40										
C (460 m Lerigth) 2 28FEBGS 08JUN05 2.5 28 28 28 28 28 28 28 2	38-813302	Const. Culvert bays 5-7; Outfall I	30 03MAY0E		-40										
C (460 m Lerigith) Granular Fill behind RW-C; Bave 25-33	. Seawe	- ;-												-	
Granular Fill Dehind RW-C: Bays 25-33 24 28FEB05A 08JUN05 -26	Seawall C	(460 m Length)	世界が必然と	新作业的和来证						-					
Granular Fill behind RW-C; Bays 3-6/17-24 12 21MaY06 03JUN05 -33	19-9264	Granular Fill behind RW-C; Bays 25-33	24 28FEB05		-26					,				·	-
Construct Retaining Wall RW-C: bay 25-33 50 0aJuLo5 36 A 128* 29JaN04A 09JULo5 36 A 128* 29JaN05A 25 0aJuLo5 38 A 128* 29JaN05A 39JuLo5 38 A 128* 29JuNo5 38 A 128* 29JuNo5 38 A 128* 29JuNo5 39JuLo5	9-9262	Granular Fill behind RW-C; Bays 3-6/17-24	12 21MAY05		-33										
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2 Construct Retaining Wall RW-C: Bays 5-6/17-21 40 IoJAN05A 05MAY05A 33 12 Construct Retaining Wall RW-C: bay 4-6/17-21 48 Io4MAR05A 30MUL05 -38 12 Construct Retaining Wall RW-C: bays 1-2 20 I6JUN05 -36 12 Construct Retaining Wall RW-C: bays 1-2 20 I6JUN05 -36 12 Construct Retaining Wall RW-C: bays 1-2 20 I6JUN05 -36 14 Sewer Works at E/B C Way bet CH3850-3800 30 IsBMAY05 29JUN05 -40 Sewer Works at E/B CH4050-4180 40 I1AUG05 15SEP05 -35	9-92509	Construct Retaining Wall RW-C; bay 25-33	50 08JAN05												
22 Construct Retaining Wall RW-C; bay 4-6/17-21 48 04MAR05A 30MAY05 33 23 16JUN05 09JUL05 -36 17 1Stad Sawers/Drains 18 Sewer Works at E/B CH4050-4180 29 16JUN05 15SEP05 -35 10 16JUN05 15SEP05 -35 10 16JUN05 10SUNAY05 -36 20 16JUN05 10SUNAY05 -36 20 16JUN05 10SUNAY05 -36 20 16JUN05 10SUNAY05 -36 20 16JUN05 15SEP05 -36	9-925073	Protect slope/excavate for RW-C;Bays 5-6/17-21	40 10JAN05												•
Construct Retaining Wall RW-C: Bays 1-2 20 16JUNO5 09JULO5 -38	9-925092	Construct Retaining Wall RW-C; bay 4-6/17-21	48 04MAR0		-33										-
ted Sewers/Drains 40 17JUN05 15SEP05 30 25MAY06 29JUN05 40 Sewer Works at E/B CH4050-4180 40 01AUG05 15SEP05 -35 -35	79-925062	Construct Retaining Wall RW-C; bays 1-2	20 16JUN05		-36			-							
Sewer Works at E/B Cway bet CH3850-3850 30 25MAY05 29JUN05 -40 Sewer Works at E/B Cway bet CH3850-3850 45 17JUN05 10AUG05 -34 Sewer Works at E/B CH4050-4180 40 01AUG05 15SEP05 -35				1		***									
Sewer Works at E/B CH4050-4180 30 25MAY05 29JUN05 -40 Sewer Works at E/B CH4050-4180 40 01AUG05 15SEP05 -35	Entrusted	Sewers/Drains				-					***			-	
Sewer Works at E/B CH4050-4180 45 17JUN05 10AUG05 -34 10AUG05 -34 10AUG05 -35 15SEP05 -35	11-1123	Sewer Works at E/B C'way bet CH3850-3900	30 25MAY05		-40					ŀ	-				1
Sewer Works at E/B CH4050-4180 40 01AUG05 15SEP05 -35	11-1122	Sewer Works at E/B C'way bet CH3670-3850	45 17JUN05		-34								V - 1 - 1 - 1 - 1	property of the "	•
	11-1127	Sewer Works at E/B CH4050-4180	40 01AUG05		-35						<u>:</u>			STATE STATE OF	なる状まれる
								-							-

C2. Entrusted Water Mains Entrusted Water Mains 12-1225 DN 1000FW/Associated Wks E/B bet CH4320-4470 23 12-12254 DN 1000FW/Associated E/B Wks bet CH4320-4470 12-1223 12-1223 DN 1000FW/Associated Wks W/B bet CH3610-3730 12-1223 12-1223 DN 1000FW/Associated Wks W/B bet CH3910-3950 12-1223 12-12223 DN 1000FW/Associated Wks W/B bet CH3910-3950 12-1223					8
Entrusted Water Mains 12-1225 DN1000FW/Associated Wks E/B bet CH4320-4470 12-12254 DN1000FW/Associated E/B Wks bet CH 4320-4470 12-1221 DN1000FW/Associated Wks W/B bet CH3610-3730 12-1223 DN1000FW/Associated Wks W/B bet CH300-4200 12-1223 DN1000FW/Associated Wks W/B bet CH300-4310 12-1223 DN1000FW/Associated Wks W/B bet CH3010-3950	1000 · 1	はは悪ちに伝き		-	
12-1225 DN1000FW/Associated Wks E/B bet CH4320-4470 12-12254 DN1000FW/Associated E/B Wks bet CH 4320-4470 12-12221 DN1000FW/Associated Wks W/B bet CH3610-3730 12-1223 DN1000FW/Associated Wks W/B bet CH350-4200 12-12232 DN1000FW/Associated Wks W/B bet CH4200-4310 12-12223 DN1000FW/Associated Wks W/B bet CH3010-3950					
12-1223 DN1000FW/Associated E/B Wks bet CH 4320-4470 12-12221 DN1000FW/Associated Wks W/B bet CH3610-3730 12-1223 DN1000FW/Associated Wks W/B bet CH3950-4200 12-1223 DN1000FW/Associated Wks W/B bet CH4200-4310 12-12223 DN1000FW/Associated Wks W/B bet CH3010-3950	231 23JUL04A	04MAY05A			
12-12221 DN1000FW/Associated Wks W/B bet CH3610-3730 12-1223 DN1000FW/Associated Wks W/B bet CH3950-4200 12-12232 DN1000FW/Associated Wks W/B bet CH4200-4310 12-12223 DN1000FW/Associated Wks W/B bet CH3910-3950	152 13AUG04A	04MAY05A			
12-1223 DN1000FW/Associated Wks W/B bet CH3950-4200 12-12232 DN1000FW/Associated Wks W/B bet CH4200-4310 12-12223 DN1000FW/Associated Wks W/B bet CH3910-3950	30 22FEB05A	27MAY05	-28		
12-1223 DN1000FW/Associated Wks W/B bet CH4200-4310 12-12223 DN1000FW/Associated Wks W/B bet CH3910-3950	48 23FEB05A	14JUN05	-35		
12-12223 DN1000FW/Associated Wks W/B bet CH3910-3950	50 24MAY05	23JUL05	-26		
	12 11JUL05	25JUL05	-36	The state of the s	The second secon
S S REPROVISIONING OF LOSU & MEHU MACHIN	es,				7.
FEHD Facilities	ができる。 では、 では、 では、 では、 では、 では、 では、 では、	のですると			
13-1350 Reprovision Pavillion & Pai Lau	478* 22DEC03A	06AUG05	10		January - State
13-13521 Finishing Works of Pai Lau	30 12APR05A	25MAY05	77	经监控部分的	
13-1353 Substructure of Pavilion	18 26MAY05	16JUN05	9		.
13-1354 Superstructure of Pavilion	42 17JUN05	06AUG05	0.		
13-1322 Construct RCP F	30 12AUG05	15SEP05	19		, administra
Stairways	1800年の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の				
13-1334 Construct Stairway ST09	20 31MAY05	23JUN05	37		
13-1335 Construct Stairway ST09A	20 24JUN05	19JUL05	37		
14. Landscape Works					
	書 の				
14-14102 Landscape Works bet CH3730-4470	150 15JUN05	12DEC05	36		
18. Variation Works					-
Stairways					
13-1336 Const. New Pavilion/ret. wall/stair; VO 211	182* 15NOV04A	28JUN05	9		
	40 11APR05A	14MAY05A			
13-13368 Const. New Pavillon/stair, VO 211	24 31MAY05	28JUN05	9	Service of the servic	
na		語の表現の対			-
	12 20JUL05	02AUG05	-30		
08-81825 Construct SMM12/MICP1/675mm twin pipes	18 03AUG05	23AUG05	-30		See and the seed of the seed of
Additional Works at RW-C; Bays 2-4					
VO-39509 Temp, works/Excavation/Mass concrete; Bay 2	10 03JUN05	15JUN05	-36		
Remedial Works to Existing Feature No. 68E-C/C22		を対象を対象			
VO-30904 Remove existing shortcrete	12 28FEB05A	23MAY05	47		
VO-30906 Construct 12 nos. test nails	18 05MAR05A	26MAY05	47		
ī	40 11MAR05A	08JUN05	47		
VO-30910 Construct drainage & maint, stairway		23JUN05	47		
VO-30912 Lav erosoin mat and hydroseeding	6 24JUN05	30JUN05	47		



APPENDIX C

Monitoring schedule for June and July 2005

Updated on 7/12/2005

Castle Peak Road Improvement Between Sham Tseng and Ka Loon Tsuen, Tsuen Wan Environmental Monitoring and Audit

Tentative Environmental Monitoring and Audit Schedule - June 2005

Note 1: L30 denotes Leg(30 min) monitoring

TSP denotes Total Suspended Particulate monitoring Note 2:

Note 3: MW denotes Marine Water Quality monitoring Note 4: L&V denotes Landscape and Visual audit and monitoring

			Jun-2005			
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
-29	30	31	+	2	3	4
	L30 3 x 1-hour TSP			Site Inpsection	24-hour TSP	
		:				
ر کا	9		8	0	10	
	730			24-hour TSP	3 x 1-hour TSP	
	3 x 1-hour TSP			Site Inpsection + L&V		
2	43	X X	r t	0.4	17	
	?]	<u>-</u>	24-hour TSP	L30	=]	<u>8</u>
				3 x 1-hour TSP		
	×			Site Inpsection		
19	20	21	22	23	24	25
		76-TQUT 107-	L30	Site Inpsection + L&V		
•			3 x 1-hour TSP			
26	27	28	29	30		× ×
	24-hour ISP	P30		Site Inpsection		24-hour TSP
		3 x 1-hour TSP				
					×	

Castle Peak Road Improvement Between Sham Tseng and Ka Loon Tsuen, Tsuen Wan

Environmental Monitoring and Audit

Tentative Environmental Monitoring and Audit Schedule - July 2005

Note 1: L30 denotes Leg30 min) monitoring Note 2: TSP denotes Total Suspended Particulate monitoring

Note 3: MW denotes Marine Water Quality monitoring Note 4: L&V denotes Landscape and Visual audit and r

L&V denotes Landscape and Visual audit and monitoring

			Jul-2005			
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
26	27	28		30	-	2 24-hour TSP
3	4	5	9	7 Site Inosection + I.8 V	8 34 hour 1980	6
		3 x 1-hour TSP				
2	11 L30	12	13	14 24-hour TSP	15	16
	3 x 1-hour TSP			Site Inpsection	3 x 1-hour TSP	
11	18	. 61	20 24-hour TSP	21 L30	22	23
				3 x 1-hour TSP		
77	25	X	1	Site Inpsection + L&V		
		24-hour TSP		28 Site Inpsection	59	30
			3 x 1-hour TSP	-		
	×					
2	24-hour TSP	2	6	4	2	9
		3 x 1-hour TSP				
×						

Updated on 7/11/2005

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APPENDIX D

Calibration certificates of 24-hour TSP monitoring equipment

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TISCH ENVIROMENTAL, INC.
145 SOUTH MIAMI AVE.
VILLAGE OF CLEVES, OH 45002
513.467.9000
877.263.7610 TOLL FREE
513.467.9009 FAX
WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Fo	eb 10, 200! Tisch	Rootsmeter Orifice I.I		833620 1378	Ta (K) - Pa (mm) -	292 - 754.38
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA NA	NA NA NA NA	1.00 1.00 1.00 1.00	1.4010 0.9870 0.8840 0.8420 0.6960	3.2 6.3 7.8 8.7 12.5	2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
1.0087 1.0045 1.0024 1.0013 0.9961	0.7200 1.0178 1.1340 1.1892 1.4313	1.4234 2.0130 2.2506 2.3604 2.8468		0.9957 0.9917 0.9896 0.9884 0.9834	0.7107 1.0047 1.1194 1.1739 1.4129	0.8799 1.2443 1.3912 1.4591 1.7597
Qstd slop intercept coefficie	(b) = ent (r) =	2.00216 -0.02053 0.99997		Qa slope intercept coefficie	(b) =	1.25372 -0.01269 0.99997
y axis =	SQRT [H2O (P	a/760) (298/1	(a)]	y axis =	SQRT [H2O (T	- 'a/Pa)]

CALCULATIONS

Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta)
Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa] Qa = Va/Time

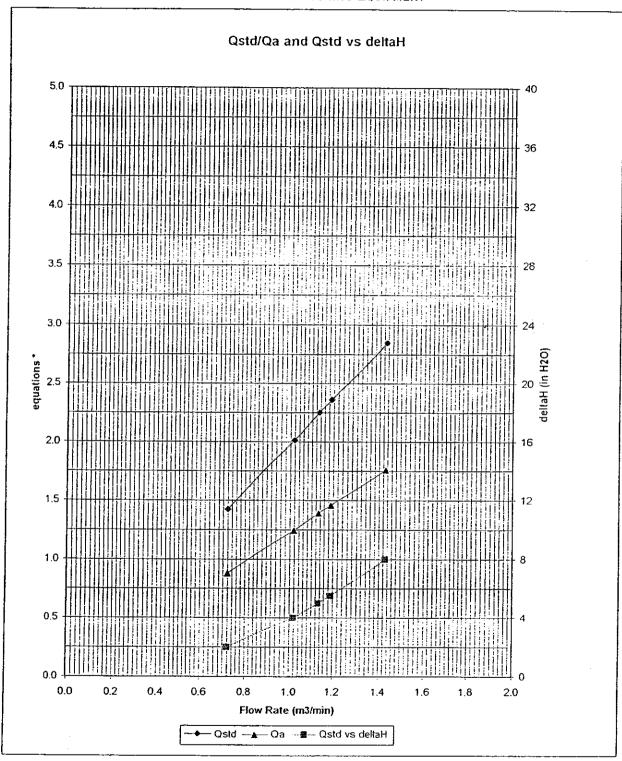
For subsequent flow rate calculations:

Qstd = $1/m\{[SQRT(H2O(Pa/760)(298/Ta))] - b\}$ Qa = $1/m\{[SQRT H2O(Ta/Pa)] - b\}$



TISCH ENVIROMENTAL, INC. 145 SOUTH MIAMI AVE. VILLAGE OF CLEVES, OH 45002 513.467.9000 877.263.7610 TOLL FREE 513.467.9009 FAX WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT



* y-axis equations:

Qstd series:

$$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$$

Qa series:

$$\sqrt{(\Delta H (Ta / Pa))}$$

1378

High Volume Air Sampler Calibration Worksheet

Calibration date

1-Jun-05

Barometric pressure

760 mm Ha

Calibration due date

31-Jul-05

Tempature (°C)

28 °C

Sampler location

WA3 - Hong Kong Garden (Regent Heights)

Tempature (K)

301 K

Sampler model

TE-5170

 P_{std}

760 mm Hg

Sampler serial number

0505

 T_{std}

298 K

Calibrator model

GMW-2535

Calibrator serial number

1378

Slope of the standard curve, m s

2.00216

Intercept of the standard curve, b s

-0.02053

Resistance Plate No.	Manometer Reading (inch H ₂ O)	Flow Recorder Reading (CFM)	Calculated Q _{std} (m³/min)	Continuous Flow Recorder Reading IC (CFM)
5	3.30	34.00	- 0.91	33.83
7	4.70	40.00	1.09	39.80
10	7.30	49.00	1.35	48.76
13	9.80	55.00	1.57	54.73
18	11.80	59.00	1.72	58.71

Calibration Curve

70.00 60.00 50.00 40.00 30.00 20.00 y = 31.0727x + 5.917010.00 $R^2 = 0.9972$ 0.00 0.00 0.50 1.00 1.50 2.00

Linear Regression

Sampler slope (m):

31.0727

Sampler intercept (b):

5.9170

Correlation coefficient (R²): 0.9972

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

Performed by:

Date:

Checked by:

High Volume Air Sampler Calibration Worksheet

Calibration date

20-Jun-05

Barometric pressure

754 mm Hg

Calibration due date

19-Aug-05

Tempature (°C)

28 °C

Sampler location

WA4 - Hong Kong Garden (Between Blk1 & Blk2)

Tempature (K)

301 K

Sampler model

TE-5170

 P_{std}

760 mm Hg

Sampler serial number

0512

 T_{std}

298 K

Calibrator model

GMW-2535

Calibrator serial number

1378

Slope of the standard curve, m s

2.00216

Intercept of the standard curve, b s

-0.02053

Resistance Plate No.	Manometer Reading (inch H ₂ O)	Flow Recorder Reading (CFM)	Calculated Q _{std} (m³/min)	Continuous Flow Recorder Reading IC (CFM)
5	_ 3.80	30.00	0.98	29.73
77	5.80	38.00	1.20	37.66
10	8.70	48.00	1.47	47.57
13	11.50	54.00	1.69	53.52
18	13.80	58.00	1.85	57.48

Calibration Curve

70.00				
60.00				_
50.00			•	
40.00		سعد		
30.00				
20.00			v = 32.12	20x - 0.9718
10.00				0.9941
0.00				
0.00	0.50	1.00	1.50	2.00

Linear Regression

Sampler slope (m):

32.1220

Sampler intercept (b):

-0.9718

Correlation coefficient (R2): 0.9941

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

Performed by:

Date:

Date:

20-6-05

High Volume Air Sampler Calibration Worksheet

Calibration date

20-Jun-05

Barometric pressure

754 mm Hg

Calibration due date

19-Aug-05

Tempature (°C)

28 °C

Sampler location Sampler model

WA5 - Hong Kong Garden (Blk4) TE-5170

Tempature (K)

301 K

Sampler serial number

0511

 P_{std} Tstd

760 mm Hg 298 K

Calibrator model

GMW-2535

Calibrator serial number

1378

Slope of the standard curve, m s

2.00216

Intercept of the standard curve, b,

-0.02053

Resistance Plate No.	Manometer Reading (inch H₂O)	Flow Recorder Reading (CFM)	Calculated Q _{std} (m³/min)	Continuous Flow Recorder Reading IC (CFM)
5	3.10	31.00	0.88	30.72
7	4.60	38.00	1.07	37.66
10	6.90	49.00	1.31	48.56
13	8.00	53.00	1.41	52.53
18	10.00	59.00	1.58	58.47

Calibration Curve

70.00									
60.00								_	
50.00									
40.00									
30.00				•					
20.00						У	= 40.879	96x - 5.5	113
10.00						•		0.9980	
0.00					-		=		
0.00	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.80

Linear Regression

Sampler slope (m):

40.8796

Sampler intercept (b):

-5.5113

Correlation coefficient (R²): 0.9980

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

Performed by:

Date:

20-6-05 21-6-05

High Volume Air Sampler Calibration Worksheet

Calibration date

1-Jun-05

Barometric pressure

756.8 mm Hg

Calibration due date

31-Jul-05

Tempature (°C)

28 °C

Sampler location

WA6 - Tsing Lung Tau Temple

301 K

Sampler model

TE-5170

Tempature (K) P_{std}

760 mm Hg

Sampler serial number

0529

 T_{std}

298 K

Calibrator model

GMW-2535

Calibrator serial number

1378

Slope of the standard curve, m.

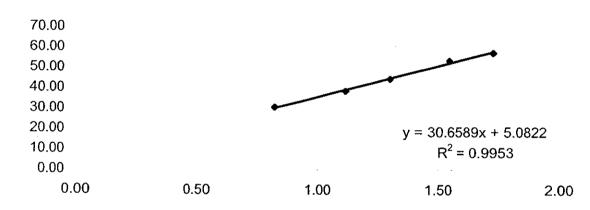
2.00216

Intercept of the standard curve, b .

-0.02053

Resistance Plate No.	Manometer Reading (inch H ₂ O)	Flow Recorder Reading (CFM)	Calculated Q _{std} (m³/min)	Continuous Flow Recorder Reading IC (CFM)
5	2.70	31.00	0.83	30.78
7	5.00	39.00	1.12	38.72
10	6.80	45.00	1.30	44.68
13	9.60	54.00	1.55	53.62
18	12.00	58.00	1.73	57.59

Calibration Curve



Linear Regression

Sampler slope (m):

30.6589

Sampler intercept (b):

5.0822

Correlation coefficient (R²): 0.9953

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

Performed by:

Date:

Checked by:

High Volume Air Sampler Calibration Worksheet

Calibration date

1-Jun-05

Barometric pressure

760 mm Hg

Calibration due date

31-Jul-05

Tempature (°C)

28 °C

Sampler location

WA7 - Sea Crest Villa

(Phase 4 Blk 12)

Tempature (K)

301 K

Sampler model

TE-5170

 P_{std}

760 mm Hg

Sampler serial number

0517

T_{std}

298 K

Calibrator model

GMW-2543

Calibrator serial number

1378

Slope of the standard curve, m s

2.00216

Intercept of the standard curve, b s

-0.02053

Resistance Plate No.	Manometer Reading (inch H ₂ O)	Flow Recorder Reading (CFM)	Calculated Q _{std} (m³/min)	Continuous Flow Recorder Reading IC (CFM)
5	2.90	33.00	0.86	32.84
7	5.30	41.00	1.15	40.80
10	7.20	47.00	1.34	46.77
13	10.00	53.00	1.58	52.74
18	12.40	59.00	1.76	58.71

Calibration Curve

70.00 60.00 50.00				•
40.00				
30.00				
20.00			y = 28.4196x	+ 8.3036
10.00			$R^2 = 0.99$	
0.00		•••	0.00	
0.00	0.50	1.00	1.50	2.00

Linear Regression

Sampler slope (m):

28,4196

Sampler intercept (b):

8.3036

Correlation coefficient (R2): 0.9985

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

Performed by:

Date:

Checked by:

High Volume Air Sampler Calibration Worksheet

Calibration date

1-Jun-05

Barometric pressure

760 mm Hg

Calibration due date

31-Jul-05

Tempature (°C)

28 °C

Sampler location

WA8 - Sea Crest Villa (Phase 3 Block 8)

Tempature (K)

301 K

Sampler model

TE-5170

 P_{std}

760 mm Hq

Sampler serial number

0526

 T_{std}

298 K

Calibrator model

GMW-2535

Calibrator serial number

1378

Slope of the standard curve, m s

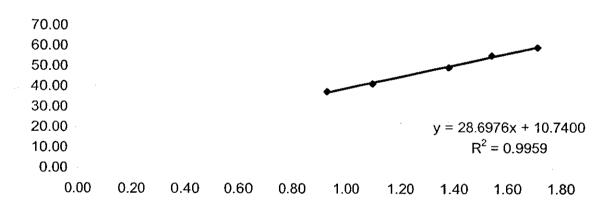
2.00216

Intercept of the standard curve, b.

-0.02053

Resistance Plate No.	Manometer Reading (inch H₂O)	Flow Recorder Reading (CFM)	Calculated Q _{std} (m³/min)	Continuous Flow Recorder Reading IC (CFM)
5	3.40	38.00	0.93 -	37.81
7	4.80	42.00	1.10	41.79
10	7.60	50.00	1.38	49.75
13	9.50	56.00	1.54	55.72
18	11.70	60.00	1.71	59.70

Calibration Curve



Linear Regression

Sampler slope (m): Sampler intercept (b): 28.6976

Correlation coefficient (R²): 0.9959

10.7400

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

Performed by:

Date:

Checked by:

High Volume Air Sampler Calibration Worksheet

Calibration date

20-Jun-05

Barometric pressure

754 mm Ha

Calibration due date

19-Aug-05

Tempature (°C)

28 °C

Sampler location

WA9 - Sea Crest Villa (Phase 2 Blk 6)

Tempature (K)

301 K

Sampler model

TE-5170

 P_{std}

760 mm Hg

Sampler serial number

0523

 T_{std}

298 K

Calibrator model

Calibrator serial number

GMW-2535

1378

Slope of the standard curve, m s

2.00216

Intercept of the standard curve, b s

-0.02053

Resistance Plate No.	Manometer Reading (inch H₂O)	Flow Recorder Reading (CFM)	Calculated Q _{std} (m³/min)	Continuous Flow Recorder Reading IC (CFM)
· 5	3.40	30.00	0.92	29.73
7	5.10	36.00	1.13	35.68
10	7.50	43.00	1.37	42.62
13	10.80	51.00	1.64	50.54
18	12.80	55.00	1.78	54.51

Calibration Curve

60.00 50.00 40.00 30.00 20.00 y = 28.9657x + 3.018810.00 $R^2 = 0.9999$ 0.00 0.00 0.50 1.00 1.50 2.00

Linear Regression

Sampler slope (m):

28.9657

Sampler intercept (b):

3.0188

Correlation coefficient (R2): 0.9999

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

Performed by:

Date:

High Volume Air Sampler Calibration Worksheet

Calibration date

1-Jun-05

Barometric pressure

760 mm Hq

Calibration due date

31-Jul-05

Tempature (°C)

28 °C

Sampler location

WA10 - Sea Crest Villa (Phase 1 Blk 1)

Tempature (K)

301 K

Sampler model

TE-5170

 \mathbf{P}_{std}

760 mm Hg +

Sampler serial number

0507

 T_{std}

298 K

Calibrator model

GMW-2535

Calibrator serial number

1378

Slope of the standard curve, m s

2.00216

Intercept of the standard curve, b s

-0.02053

Resistance Plate No.	Manometer Reading (inch H ₂ O)	Flow Recorder Reading (CFM)	Calculated Q _{std} (m³/min)	Continuous Flow Recorder Reading IC (CFM)
5	3.40	30.00	0.93	29.85
77	5.20	36.00	1.14	35.82
10	8.00	42.00	1.42	41.79
13	10.10	46.00	1.59	45.77
18	12.20	52.00	1.75	51.74

Calibration Curve

60.00 50.00 40.00 30.00 20.00 10.00 0.00

y = 25.5736x + 6.1030

 $R^2 = 0.9916$

0.00

0.50

1.00

1.50

2.00

Linear Regression

Sampler slope (m):

25.5736

Sampler intercept (b):

6.1030

Correlation coefficient (R2): 0.9916

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

Date:

Checked by:

High Volume Air Sampler Calibration Worksheet

Calibration date

1-Jun-05

Calibration due date

31-Jul-05

Sampler location

WA11 - Lido Garden Tower 1

Sampler model

TE-5170

Barometric pressure

760 mm Hg

Tempature (°C) Tempature (K)

28 °C

298 K

 P_{std} T_{std}

301 K 760 mm Ha

Calibrator model

0521

GMW-2535

Calibrator serial number

Sampler serial number

1378

Slope of the standard curve, m ,

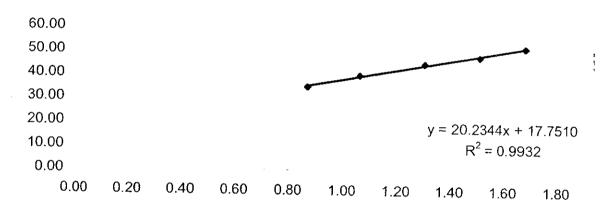
2.00216

Intercept of the standard curve, b s

-0.02053

Resistance Plate No.	Manometer Reading (inch H ₂ O)	Flow Recorder Reading (CFM)	Calculated Q _{std} (m³/min)	Continuous Flow Recorder Reading IC (CFM)
5	3.00	35.00	0.87	34.83
7	4.50	40.00	1.06	39.80 .
10	6.80	45.00	1.31	44.78
13	9.10	48.00	1.51	
18	11.30	52.00	1.68	47.76 51.74

Calibration Curve



Linear Regression

Sampler slope (m):

20.2344

Sampler intercept (b):

17.7510

Correlation coefficient (R2): 0.9932

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

Date:

Checked by:

Date:

1-6-05

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APPENDIX E
Calibration certificates
of 1-hour TSP monitoring equipment

1 -

MASTER # 2026

THERMO ELECTRON

27 FORGE PARKWAY FRANKLIN MA 02038 TOLL-FREE: 866-282-0430

TEL: 508-553-6949 FAX: 508-541-8366 WWW.THERMO.COM

PDR-1000 CALIBRATION CERTIFICATE

This calibration is traceable to the National Institute of Standards and Testing

SERIAL NUMBER:

<u>4615</u>

CALIBRATION RATIO:

1.008

AVG. PDR-1000 CONCENTRATION:

151 <u>ug/m3</u>

CALIBRATION MASTER AVG. CONCENTRATION:

140<u>ug/m3</u>;

DR BACKROUND CONCENTRATION:

123 ug/m3

TEMPERATURE:

69F

HUMIDITY:

18%

TECHNICIAN: Hacke, pelle

DATE: 1/15/04

27 FORGE PARKWAY FRANKLIN MA 02038 TOLL-FREE: 866-282-0430

TEL: 508-553-6949 FAX: 508-541-8366 WWW.THERMO.COM

MASTER # 2026

PDR-1000 CALIBRATION CERTIFICATE

This calibration is traceable to the National Institute of Standards and Testing

SERIAL NUMBER:

4705

CALIBRATION RATIO:

.991

AVG. PDR-1000 CONCENTRATION:

176 <u>ug/m3</u>

CALIBRATION MASTER AVG. CONCENTRATION:

174<u>ug/m3</u>

DR BACKROUND CONCENTRATION:

141 ug/m3

TEMPERATURE:

69F

HUMIDITY:

18%

TECHNICIAN: Haclapelle

DATE: <u>1/15/04</u>



Thermo Andersen 500 Technology Ct., Smyrna, GA 30082 Toll-Free:1-800-241-6898 Tel: 770-319-9999 Fax: 770-319-0336 www.Thermoandersen.com

PersonalDataRAM Calibration Certificate

Record the serial number		
Record the calibration ratio:	S/N 4715	
Record the average pDR concentration:	0.994	_
Record the calibration Master average concentration:	382 ug/r	n ³
Record the pDR background concentration:	326. ug/a	13
Temperature	124 на/п	ı ³
Humidity	72. "	=
Technician:	33 % Date:	,
Ramon	11-21-03	

27 FORGE PARKWAY FRANKLIN MA 02038 TOLL-FREE: 866-282-0430

TEL: 508-553-6949 FAX: 508-541-8366 WWW.THERMO.COM

MASTER # D320

PDR-1000 CALIBRATION CERTIFICATE

This calibration is traceable to the National Institute of Standards and Testing

SERIAL NUMBER: 4736 CALIBRATION RATIO: 1.004 AVG. PDR-1000 CONCENTRATION: 2.75 mg/mCALIBRATION MASTER AVG. CONCENTRATION: 2.44 mg/mDR BACKROUND CONCENTRATION: .271 mg/mTEMPERATURE: 74F **HUMIDITY:** 44% TECHNICIAN<u>K. Lachapelle</u> DATE: 7/27/04



Thermo Andersen 500 Technology Ct., Smyrna, GA 30082 Toll-Free: 1-800-241-6898 Tel: 770-319-9999 Fax: 770-319-0336 www.Thermoandersen.com

Personal Data RAIVI Calibration Certificate

<u> </u>	1		
Record the serial number	S/N	4496	·
Record the calibration ratio:		0.998	
Record the average pDR concentration:		i249	កន/យ ្ធ
Record the calibration Master average concentration:		1070	ក់ ತ ុយ ₃
Record the pDR background concentration:		189	ក់ដ/ឍ ្វ
Temperature		75.	. °F
Humidity		45	%
Technician: Roman -	Date:	9-25-0	3

3.04 mg/m

<u>75F</u>

27 FORGE PARKWAY FRANKLIN MA 02038 TOLL-FREE: 866-282-0430

TEL: 508-553-6949 FAX: 508-541-8366 WWW.THERMO.COM

MASTER # D320

SERIAL NUMBER:

PDR-1000 CALIBRATION CERTIFICATE

This calibration is traceable to the National Institute of Standards and Testing

4492 CALIBRATION RATIO: 1.013AVG. PDR-1000 CONCENTRATION:

CALIBRATION MASTER AVG. CONCENTRATION: 2.69 mg/m3

DR BACKROUND CONCENTRATION: <u>.291 mg/m3</u>

TEMPERATURE:

HUMIDITY: 52%

TECHNICIAN<u>K. Lachapelle</u> DATE: 7/27/04

27 FORGE PARKWAY FRANKLIN MA 02038 TOLL-FREE: 866-282-0430

TEL: 508-553-6949 FAX: 508-541-8366 WWW.THERMO.COM

MASTER # D325 LAST CALIBRATED 12/17/04

PDR-1000 CALIBRATION

CERTIFICATE

This calibration is traceable to the National Institute of Standards and Testing

SERIAL NUMBER:

4239

CALIBRATION RATIO:

0.9900

AVG. PDR-1000 CONCENTRATION:

2.53 <u>mg/m3</u>

CALIBRATION MASTER AVG. CONCENTRATION:

2.24 mg/m3

DR BACKROUND CONCENTRATION:

.280 <u>mg/m3</u>

TEMPERATURE:

71.7F

HUMIDITY:

21%

TECHNICIAN:

DON MCELMAN

DATE:

2/03/05

27 FORGE PARKWAY FRANKLIN MA 02038 TOLL-FREE: 866-282-0430

TEL: 508-553-6949 FAX: 508-541-8366 WWW.THERMO.COM

MASTER # D320 LAST CALIBRATED 10/1/04

PDR-1000 CALIBRATION CERTIFICATE

This calibration is traceable to the National Institute of Standards and Testing

SERIAL NUMBER:	4243
CALIBRATION RATIO:	999
AVG. PDR-1000 CONCENTRATION:	2.72 <u>mg/m3</u>
CALIBRATION MASTER AVG. CONCENTRATION:	2.45 <u>mg/m3</u>
DR BACKROUND CONCENTRATION:	268 mg/m3
TEMPERATURE:	<u>78F</u>
HUMIDITY:	22%
TECHNICIAN <u>K. Lachapelle</u>	DATE: 10/6/04

MASTER # D320 LAST CALIBRATED 10/1/04

THERMO ELECTRON

27 FORGE PARKWAY FRANKLIN MA 02038 TOLL-FREE: 866-282-0430

TEL: 508-553-6949 FAX: 508-541-8366 WWW.THERMO.COM

DATE:

10/6/04

PDR-1000 CALIBRATION CERTIFICATE

This calibration is traceable to the National Institute of Standards and Testing

SERIAL NUMBER: 3809 CALIBRATION RATIO: 1.009 AVG. PDR-1000 CONCENTRATION: 2.91 mg/m3 CALIBRATION MASTER AVG. CONCENTRATION: $2.45 \frac{\text{mg/m}3}{\text{mg}}$ DR BACKROUND CONCENTRATION: .448 mg/m3 TEMPERATURE: 78F HUMIDITY: 22% TECHNICIAN<u>K</u>. Lachapelle

27 FORGE PARKWAY FRANKLIN MA 02038 TOLL-FREE: 866-282-0430

TEL: 508-553-6949 FAX: 508-541-8366 WWW.THERMO.COM

MASTER # D320 LAST CALIBRATED 10/1/04

PDR-1000 CALIBRATION CERTIFICATE

This calibration is traceable to the National Institute of Standards and Testing

SERIAL NUMBER: 3893 CALIBRATION RATIO: . 994 AVG. PDR-1000 CONCENTRATION: $2.74 \, \text{mg/m3}$ CALIBRATION MASTER AVG. CONCENTRATION: 2.42 mg/m3 DR BACKROUND CONCENTRATION: .262 mg/m3 TEMPERATURE: 78F **HUMIDITY:** 22% TECHNICIAN K. Lachapelle DATE: 10/6/04

APPENDIX F

Detailed air quality (1-hour TSP) monitoring results

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Details of 1-Hour TSP Monitoring

Date	Receptor No.	Set No.	Time Start	periods Finish	Weather condition	Site condition	Temp. (°C)	Pressure (mmHg)	1-hour TSP Level (µg/m³)	Remarks
6-Jun-05	WA3	1	9:01	10:01	Fine	Normal Operation	28.0	754.0	204.6	
6-Jun-05	WA3	2	10:01	11:01	Fine	Normal Operation	28.0	754.0	192.9	
6-Jun-05	WA3	3	11:01	12:01	Fine	Normal Operation	28.0	754.0	219.1]
6-Jun-05 6-Jun-05	WA4 WA4	1	8:55	9:55	Fine	Normal Operation	28.0	754.0	222.5	}
6-Jun-05	WA4	3	9:55 10:55	10:55 11:55	Fine Fine	Normal Operation	28.0	754.0	194.1	
6-Jun-05	WA5	1	13:03	14:03	Fine	Normal Operation Normal Operation	28.0 28.0	754.0	240.0	ŀ
6-Jun-05	WA5	2	14:03	15:03	Fine	Normal Operation	28.0	754.0 754.0	215.2 218.6	
6-Jun-05	WA5	3	15:03	16:03	Fine	Normal Operation	28.0	754.0	207.3	
6-Jun-05	WA6	1	13:02	14:02	Fine	Normal Operation	28.0	754.0	236.2	
6-Jun-05	WA6	2	14:02	15:02	Fine	Normal Operation	28.0	754.0	239.0	
6-Jun-05	WA6	3	15:02	16:02	Fine	Normal Operation	28.0	754.0	227.2	{
6-Jun-05	WA7	1	13:36	14:36	Fine	Normal Operation	28.0	754.0	208.7	l
6-Jun-05	WA7	2	14:36	15:36	Fine	Normal Operation	28.0	754.0	235.7	Ì
6-Jun-05 6-Jun-05	WA7	3	15:36	16:36	Fine	Normal Operation	28.0	754.0	246.2	
6-Jun-05	WA8 WA8	1 2	13:45 14:45	14:45 15:45	Fine	Normal Operation	28.0	754.0	162.4	
6-Jun-05	WA8	3	15:45	16:45	Fine Fine	Normal Operation Normal Operation	28.0	754.0	188.0	
6-Jun-05	WA9	1	9:00	10:00	Fine	Normal Operation	28.0 28.0	754.0 754.0	184.7 197.4	
6-Jun-05	WA9	2	10:00	11:00	Fine	Normal Operation	28.0	754.0	198.4	ļ
6-Jun-05	WA9	3	11:00	12:00	Fine	Normal Operation	28.0	754.0	160.5	
6-Jun-05	WA10	1	8:57	9:57	Fine	Normal Operation	28.0	754.0	249.8	
6-Jun-05	WA10	2	9:57	10:57	Fine	Normal Operation	28.0	754.0	252.4	ŀ
6-Јил-05	WA10	3	10:57	11:57	Fine	Normal Operation	28,0	754.0	215.1	1
6-Jun-05	WA11	1	8:59	9:59	Fine	Normal Operation	28.0	754.0	258.6	ļ
6-Jun-05	WA11	2	9:59	10:59	Fine	Normal Operation	28.0	754.0	260.7	
6-Jun-05 10-Jun-05	WA11 WA3	3 1	10:59 13:08	11:59	Fine	Normal Operation	28.0	754.0	223.7	
10-Jun-05 10-Jun-05	WA3	2	14:08	14:08 15:08	Sunny Sunny	Normal Operation Normal Operation	30.0	751.0	215.0	
10-Jun-05	WA3	3	15:08	16:08	Sunny	Normal Operation	30.0 30.0	751.0 751.0	219.2 196.6	
10-Jun-05	WA4	1	13:02	14:02	Sunny	Normal Operation	30.0	751.0 751.0	329.0	İ
10-Jun-05	WA4	2	14:02	15:02	Sunny	Normal Operation	30.0	751.0	337.8	i
10-Jun-05	WA4	3	15:02	16:02	Sunný	Normal Operation	30.0	751.0	282.1	
10-Jun-05	WA5	1	13:06	14:06	Sunny	Normal Operation	30.0	751.0	277.3	
10-Jun-05	WA5	2	14:06	15:06	Sunny	Normal Operation	30.0	751.0	278.1	
10-Jun-05	WA5	3	15:06	16:06	Sunny	Normal Operation	30.0	751.0	245.2	
10-Jun-05	WA6	1	13:02	14:02	Sunny	Normal Operation	30.0	751.0	236.2	
10-Jun-05 10-Jun-05	WA6 WA6	3	14:02 15:02	15:02 16:02	Sunny	Normal Operation	30.0	751.0	239.5	
10-Jun-05	WA7	1	9:00	10:02	Sunny Sunny	Normal Operation Normal Operation	30.0 30.0	751.0 751.0	227.2	
10-Jun-05	WA7	2	10:00	11:00	Sunny	Normal Operation	30.0	751.0 751.0	109.2 100.2	
10-Jun-05	WA7	3	11:00	12:00	Sunny	Normal Operation	30.0	751.0	141.0	
10-Jun-05	WA8	1	8:49	9:49	Sunny	Normal Operation	30.0	751.0	161.4	
10-Jun-05	WA8	2	9:49	10:49	Sunny	Normal Operation	30.0	751.0	155.2	
10-Jun-05	WA8	3	10:49	11:49	Sunny	Normal Operation	30.0	751.0	165.4	
10-Jun-05	WA9	1	8:59	9:59	Sunny	Normal Operation	30.0	751.0	258.3	
10-Jun-05	WA9	2	9:59	10:59	Sunny	Normal Operation	30.0	751.0	221.6	
10-Jun-05 10-Jun-05	WA9 WA10	3	10:59	11:59	Sunny	Normal Operation	30.0	751.0	234.0	
10-Jun-05	WA10	1 2	8:04 9:04	9:04 10:04	Sunny	Normal Operation	30.0	751.0	241.4	
10-Jun-05	WA10	3	10:04	11:04	Sunny Sunny	Normal Operation Normal Operation	30.0 30.0	751.0	210.3	
10-Jun-05	WA11	1	9:01	10:01	Sunny	Normal Operation	30.0	751.0 751.0	221.0	
10-Jun-05	WA11	2	10:01	11:01	Sunny	Normal Operation	30.0	751.0	217.9 191.2	
10-Jun-05	WA11	3	11:01	12:01	Sunny	Normal Operation	30.0	751.0	212.9	
6-Jun-05	WA3	1	9:23	10:23	Rainy	Normal Operation	27.0	753.0	153.2	
6-Jun-05	WA3	2	10:23	11:23	Rainy	Normal Operation	27.0	753.0	123.5	
6-Jun-05	WA3	3	13:00	14:00	Rainy	Normal Operation	27.0	753.0	92.3	
6-Jun-05 6-Jun-05	WA4	1	9:00	10:00	Rainy	Normal Operation	27.0	753.0	132.6	
6-Jun-05 6-Jun-05	WA4 WA4	2 3	10:00 13:00	11:00 14:00	Rainy	Normal Operation	27.0	753.0	180.0	
6-Jun-05	WA5	1	13:52	14:00	Rainy Rainy	Normal Operation Normal Operation	27.0 27.0	753.0	200.8	
6-Jun-05	WA5	2	14:52	15:52	Rainy	Normal Operation	27.0 27.0	753.0 753.0	122.9 123.8	
6-Jun-05	WA5	3	15:52	16:52	Rainy	Normal Operation	27.0	753.0	123.8 166.5	
6-Jun-05	WA6	1	13:57	14:57	Rainy	Normal Operation	27.0	753.0	112.1	
6-Jun-05	WA6	2	14:57	15:57	Rainy	Normal Operation	27.0	753.0	173.5	
6-Jun-05	WA6	3	15:57	16:57	Rainy	Normal Operation	27.0	753.0	188.4	
6-Jun-05	WA7	1	9:03	10:03	Rainy	Normal Operation	27.0	753.0	130.6	
6-Jun-05	WA7	2	10:03	11:03		Normal Operation	27.0	753.0	139.0	
6-Jun-05 6-Jun-05	WA7	3	11:03	12:03		Normal Operation	27.0	753.0	153.7	
6-Jun-05	WA8 WA8	1 2	9:09 10:09	10:09 11:09		Normal Operation	27.0	753.0	207.6	
6-Jun-05	WA8	3	11:09	12:09		Normal Operation Normal Operation	27.0 27.0	753.0	214.1	
6-Jun-05	WA9	1	13:20	14:20		Normal Operation	27.0	753.0 753.0	218.2 163.0	
6-Jun-05	WA9	2	14:20	15:20		Normal Operation	27.0	753.0	93.9	
6-Jun-05	WA9	3	15:20	16:20	-	Normal Operation	27.0	753.0	67.3	
6-Jun-05	WA10	1	9:11	10:11		Normal Operation	27.0	753.0	158.5	
6-Jun-05	WA10	2	10:11	11:11		Normal Operation	27.0	753.0	162.8	
6-Jun-05	WA10	3	11:11	12:11	- 1	Normal Operation	27.0	753.0	164.8	
6-Jun-05	WA11	1	9:04	10:04		Normal Operation	27.0	753.0	146.4	
6-Jun-05	WA11	2	10:04	11:04		Normal Operation	27.0	753.0	170.9	
6-Jun-05	WA11 WA3	3	11:04 9:18	12:04 10:18		Normal Operation	27.0	753.0	186.7	
2-Jun-05					Rainy	Normal Operation	25.0	755.0	181.7	

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Details of 1-Hour TSP Monitoring

Date	Receptor No.	Sat Na		periods	Weather	Site	Temp.	Pressure	1-hour TSP	
		Set No.	Start	Finish	condition	condition	(°C)	(mmHg)	Level (µg/m³)	Remarks
22-Jun-05 22-Jun-05	WA3 WA4	3 1	11:18	12:18	Rainy	Normal Operation	25.0	755.0	107.6	
22-Jun-05 22-Jun-05	WA4		9:15	10:15	Rainy	Normal Operation	25.0	755.0	206.1	
22-Jun-05 22-Jun-05	WA4	2	10:15	11:15	Rainy	Normal Operation	25.0	755.0	183.2	
22-Jun-05 22-Jun-05	WA5	1	11:15	12:15	Rainy	Normal Operation	25.0	755.0	179.6	
22-Jun-05 22-Jun-05			13:04	14:04	Rainy	Normal Operation	25.0	755.0	97.6	
	WA5	2	14:04	15:04	Rainy	Normal Operation	25.0	755.0	127.3	
22-Jun-05 22-Jun-05	WA5	3	15:04	16:04	Rainy	Normal Operation	25.0	755.0	137.0	
	WA6		13:02	14:02	Rainy	Normal Operation	25.0	755.0	172.7	
22-Jun-05	WA6	2	14:02	15:02	Rainy	Normal Operation	25.0	755.0	176.9	
22-Jun-05	WA6	3	15:02	16:02	Rainy	Normal Operation	25.0	755.0	177.8	
22-Jun-05	WA7	1 1	13:07	14:07	Rainy	Normal Operation	25.0	755.0	200.9	
22-Jun-05	WA7	2	14:07	15:07	Rainy	Normal Operation	25.0	755.0	198.3	
22-Jun-05	WA7	3	15:07	16:07	Rainy	Normal Operation	25.0	755.0	196.6	
22-Jun-05	WA8	1	13:03	14:03	Rainy	Normal Operation	25.0	755.0	178.6	
22-Jun-05	WA8	2	14:03	15:03	Rainy	Normal Operation	25.0	755.0	169.7	
22-Jun-05	WA8	3	15:03	16:03	Rainy	Normal Operation	25.0	755.0	169.0	
22-Jun-05	WA9	1	9;17	10:17	Rainy	Normal Operation	25.0	755.0	170.3	
22-Jun-05	WA9	2	10:17	11:17	Rainy	Normal Operation	25.0	755.0	171.7	
22-Jun-05	WA9	3	11:17	12:17	Rainy	Normal Operation	25.0	755.0	176.3	
22-Jun-05	WA10	1	9:16	10:16	Rainy	Normal Operation	25.0	755.0	142.4	
22-Jun-05	WA10	2	10:16	11:16	Rainy	Normal Operation	25.0	755.0	142.3	
22-Jun-05	WA10	3	11:16	12:16	Rainy	Normal Operation	25.0	755.0	152.9	
22-Jun-05	WA11	1	9:00	10:00	Rainy	Normal Operation	25.0	755.0	198.7	
22-Jun-05	WA11	2	10:00	11:00	Rainy	Normal Operation	25.0	755.0	198.3	
22-Jun-05	WA11	3	11:00	12:00	Rainy	Normal Operation	25.0	755.0	200.9	
28-Jun-05	WA3	1	14:08	15:08	Fine	Normal Operation	32.0	753.0	146.1	
28-Jun-05	WA3	2	15:08	16:08	Fine	Normal Operation	32.0	753.0	112.8	
28-Jun-05	WA3	3	16:08	17:08	Fine	Normal Operation	32.0	753.0	140.2	
28-Jun-05	WA4	1	14:00	15:00	Fine	Normal Operation	32.0	753.0	203.1	
28-Jun-05	WA4	2.	15:00	16:00	Fine	Normal Operation	32.0	.753.0	189.6	
28-Jun-05	WA4	3	16:00	17:00	Fine	Normal Operation	32.0	753.0	193.5	
28-Jun-05	WA5	1	13:50	14:50	Fine	Normal Operation	32.0	753.0	154.8	
28-Jun-05	WA5	2	14:50	15:50	Fine	Normal Operation	32.0	753.0	132.1	
28-Jun-05	WA5	3	15:50	16:50	Fine	Normal Operation	32.0	753.0	137.8	
28-Jun-05	WA6	1	13:37	14:37	Fine	Normal Operation	32.0	753.0	194.3	
28-Jun-05	WA6	2	14:37	15:37	Fine	Normal Operation	32.0	753.0	181.3	
28-Jun-05	WA6	3	15:37	16:37	Fine	Normal Operation	32.0	753.0	179.0	
28-Jun-05	WA7	1	8:58	9:58	Fine	Normal Operation	32.0	753.0	218.5	
28-Jun-05	WA7	2	9:58	10:58	Fine	Normal Operation	32.0	753.0	223.6	
28-Jun-05	WA7	3	10:58	11:58	Fine	Normal Operation	32.0	753.0	194.9	
28-Jun-05	WA8	1	9:11	10:11	Fine	Normal Operation	32.0	753.0	226.4	
28-Jun-05	WA8	2	10:11	11:11	Fine	Normal Operation	32.0	753.0	214.0	
28-Jun-05	WA8	3	11:11	12:11	Fine	Normal Operation	32.0	753.0	222.5	
28-Jun-05	WA9	1	13:19	14:19	Fine	Normal Operation	32.0	753.0	196.6	
28-Jun-05	WA9	2	14:19	15:19	Fine	Normal Operation	32.0	753.0	191.9	
28-Jun-05	WA9	3	15:19	16:19	Fine	Normal Operation	32.0	753.0	190.9	
28-Jun-05	WA10]	1	13:19	14:19	Fine	Normal Operation	32.0	753.0	153.7	
28-Jun-05	WA10	2	14:19	15:19	Fine	Normal Operation	32.0	753.0	136.9	
28-Jun-05	WA10	3	15:19	16:19	Fine	Normal Operation	32.0	753.0	132.6	
28-Jun-05	WA11	1	13:17	14:17	Fine	Normal Operation	32.0	753.0	127.6	
28-Jun-05	WA11	2	14:17	15:17	Fine	Normal Operation	32.0	753.0	109.7	
28-Jun-05	WA11	. з	15:17	16:17	Fine	Normal Operation	32.0	753.0	99.3	

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APPENDIX G

Detailed air quality (24-hour TSP) monitoring results

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Details of 24-Hour TSP Monitoring

Contract No. HV99418
Castle Peak Road Improvement between Sham Tseng and Ka Loon Tsuen
Environmental Monitoring and Audit

Weather Site Filter Weight (g) TSP Flow Rate (m²/min) Fine Normal Operation 2.9075 2.9090 0.0342 1.4869 1.6868 Fine Normal Operation 2.9075 2.9090 0.0346 1.1406 1.1475 Fine Normal Operation 2.9075 3.1613 0.0500 1.1406 1.1475 Fine Normal Operation 2.9075 3.1613 0.0500 1.1406 1.1475 Fine Normal Operation 2.9075 2.9439 0.0500 1.0406 1.1475 Fine Normal Operation 2.9075 2.9439 0.0500 1.1416 1.1475 Cloudy Normal Operation 2.9072 2.9430 0.0366 1.1416 1.1475 Cloudy Normal Operation 2.9072 2.9430 0.143 0.913 0.7141 1.1475 Cloudy Normal Operation 2.9072 2.9430 0.0156 1.1406 1.1475 Cloudy Normal Operation 2.9072									~~~							
WAA Fine WORD CONDITION	i	Receptor	Weather	Site	Filter W(alght (g)	TSP	Flow Rate	_	Average Flow	Elapse	-	Sampling	Total	24-hour TSP	
WAAA Fine Normal Operation 2387 21409 0.047 Fine Vortact Operation 2387 21409 0.047 Fine Vortact Operation 2387 21409 0.047 Fine Vortact Operation 2387 21409 0.047 Fine Vortact Operation 2387 21409 0.047 Fine Vortact Operation 2387 21409 0.048 Fine Vortact Operation 2387 2289 0.048 Fine Fine Vortact Operation 2388 0.048 Fine <th>Date</th> <th>Ö</th> <th>condition</th> <th>condition</th> <th>Initial</th> <th>Ella</th> <th>weight (g)</th> <th>Initial</th> <th>Final</th> <th>. 3</th> <th></th> <th></th> <th>ime (mins.)</th> <th>m</th> <th>6 n</th> <th>Remarks</th>	Date	Ö	condition	condition	Initial	Ella	weight (g)	Initial	Final	. 3			ime (mins.)	m	6 n	Remarks
WAM Fine Numan Oberation 2,875 3,007 0,1346 0,144	3-Jun-05	WA3	i ii	Normal Operation	2.9087	2.9999	0.0912	1.4989	1.6688	1.5839		-	1440.60	2281.69	40.0	
WAS Fine Numeral Operation 2,8875 3,145 1,440 1,149 4,440 1,140	3-100-05	WA4	Fine	Normal Operation	2.9075	3.0407	0.1332	0.9069	0.9146	0.9108		5341,98	1440.00	1311.48	101.6	
WARD Fine Nummal Oberation 2,8025 2,948 1,1997 1,1997 1,1998 1,	3-20n-05	WAS	Fine	Normal Operation	2.8879	2.9939	0.1060	1.1406	1.1475	1.1441		5308.27	1440.00	1647.43	64.3	
WAY Fine Normal Operation 2.9488 0.0470 1.0786 1.0773 2.0385 5.528.23 4.440.00 154.135 WAY Fine Normal Operation 2.9544 2.9442 0.0326 1.0387 0.7703 0.773 0.773 0.773 0.773 0.771 0.773 0.773 0.771 0.771 0.773 0.773 0.771 0.771 0.771 0.771 0.773 0.771 0.771 0.771 0.771 0.771 0.771 0.771 0.771 0.772 0.771 0.772 0.772 0.773 0.772 0.773 0.772 0.773 0.772 0.773 0.773 0.772 0.773	3-Jun-05	WA6	Hine	Normal Operation	2.9025	3,1513	0.2488	1.1910	1,1987	1,1949		1663,05	1440.00	1720.58	144.6	
WAR Fine Normal Operation 2.976.2 2.046.2 0.377.1 1.357.1 1.340.0	3-Jun-05	WA7	Fine	Normal Operation	2.8898	2.9468	0.0570	1.0669	1,0747	1.0708		5323,24	1440.00	1541.95	37.0	
WA46 Fine Normal Operation 2.6867 2.0269 0.0707 0.7070 0	3-Jun-05	WA8	Fire	Normal Operation	2.8760	2.9342	0.0582	1.3513	1.3612	1,3563		376.89	1440.00	1953.00	8 60	
WA10 Fine Normal Operation 2.8857 3.0045 2.0867 2.0867 0.1077 1.0867 2.6847 0.0070 0.1150 1.0870 2.6848 1.0870 0.0140 WA3 Cloudy Normal Operation 2.8867 0.0057 1.1119 1.0877 1.0875 0.0175 0.0140 WA3 Cloudy Normal Operation 2.8887 0.0057 0.0147 1.0876 0.0167 0.0147 1.0876 0.0167 0.0147 0.0167 0.0167 0.0167 0.0167 0.0167 0.0167 0.0167 0.0167 0.0167 0.0167 0.0167 0.0167 0.0167 0.0167 0.0167 0.0167 0.0168 0.0167 0.0168	3-Jun-05	WA9	Fine	Normal Operation	2.9054	2,9439	0.0385	0.7070	0.7133	0.7102		3414 12	1440 00	1022.62	34.6	
WA41 File Normal Operation 200404 Normal Operation 200405 1,000 1,000 1,000 347,10 1,400 <th< td=""><td>3-Jun-05</td><td>WA10</td><td>Fine</td><td>Normal Operation</td><td>2.8875</td><td>3.0076</td><td>0.1201</td><td>2.0850</td><td>2 0982</td><td>2 0016</td><td></td><td>269.95</td><td>747000</td><td>3044 00</td><td>9 6</td><td></td></th<>	3-Jun-05	WA10	Fine	Normal Operation	2.8875	3.0076	0.1201	2.0850	2 0982	2 0016		269.95	747000	3044 00	9 6	
WAS Cloudy Named Operation 2.8867 2.0867 1.4113 1.3127 1.3862 555.99 1.440.00 1851.28 WAS Cloudy Normal Operation 2.8867 2.0009 1.145 1.3672 557.59 555.59 1.440.00 1851.24 WAS Cloudy Normal Operation 2.8897 2.000 1.1457 1.147 1.2547 550.82 557.50 1.440.00 1851.34 WAS Cloudy Normal Operation 2.8995 2.8816 1.050 1.8897 1.8816 6.871.58 1.440.00 1.881.34 WAS Cloudy Normal Operation 2.902 2.917 0.8846 1.0897 1.8816 1.440.00 1.882.32 1.440.00 1.882.32 1.440.00 1.888.22 1.440.00 1.888.22 1.440.00 1.888.23 1.440.00 1.888.23 1.440.00 1.888.23 1.440.00 1.888.23 1.440.00 1.888.23 1.440.00 1.888.23 1.440.00 1.888.23 1.440.00 1.888.23 1.440.00	3-Jun-05	WA11	Fine	Normal Operation	2 8943	2.9821	0.0878	1 0806	1 0917	1 0862		1477 40	1440.00	1564.06	0.00	
WA4 Cloudy Named Operation 28876 5,001 0,143 0,317 0,318 0,018	9-Jun-05	WA3	Cloudy	Normal Operation	29029	2 9886	0.0857	1 4113	1 3127	1 2620		000000	440.00	1304.00	20.	
WAS Cloudy Normal Operation 28891 3.0242 0.1251 1.317 1.0157 5.03128 5.0320 1.4400 1.0141 1.0145 1.0147 1.0145 5.0320 5.0323 1.4400 1.0146 1.0146 1.0147 6.0324 6.0232 1.4400 1.0146 1.0147 6.0242 9.000 1.0146 1.0147 6.0242 9.000 1.000 <td>9-Jun-05</td> <td>WAd</td> <td>Clouds</td> <td>Normal Operation</td> <td>28876</td> <td>3,0010</td> <td>0.1143</td> <td>0.127</td> <td>2100</td> <td>2000</td> <td></td> <td>2533.90</td> <td>1440.00</td> <td>07.106</td> <td>15.7</td> <td></td>	9-Jun-05	WAd	Clouds	Normal Operation	28876	3,0010	0.1143	0.127	2100	2000		2533.90	1440.00	07.106	15.7	
WAG Cloudy Normal Operation 2,559 1,1367 1,1457 1,1457 1,1457 1,1457 1,1450 1,1450 1,1450 1,1450 1,1450 1,1440 1	9- hm-05	WAS	200	Normal Operation	2 8004	2000	2 0	200	21,00	0.2		3303.96	00.04	1314.14	0,78	
WAA Cloudy Normal Operation 2,9995 1,995 1,1996 1,1994 4,685,10 6,887,20 1,1906 1,1724 1,1777 532,32 5,837,20 1,400,00 1,985 1,1774 1,1777 5,323,24 5,347,24 1,400,00 1,683,50 WAA Cloudy Normal Operation 2,9073 2,973 0,0699 1,2967 1,895 1,2967 1,640,00 1,667,81 WAA1 Cloudy Normal Operation 2,9073 0,0699 1,2967 1,6875 1,896 5,699,80 5,699,80 1,699,80 1,699,80 1,699,80 1,699,90 1,640,00 1,667,81 1,700,80 1,440,00 1,667,81 1,700,80 1,440,00 1,667,81 1,700,80 1,440,00 1,667,81 1,700,80 1,667,81 1,700,80 1,640,90 1,667,81 1,700,80 1,640,90 1,667,81 1,700,80 1,640,90 1,700,90 1,700,80 1,700,80 1,700,80 1,700,80 1,700,80 1,700,80 1,700,80 1,700,80 1,700,80 1,	000	200	5000	idolliai Operation	2.0991	3,0242	C71.7	1,146/	1.1447	1.1457		5332.27	1440.00	1649.81	75.8	
WAA Cloudy Normal Operation 2,9072 2,9955 1,778 1,177 5,523,24 5,534,24 4,44,00 1,665,60 WAA Cloudy Normal Operation 2,907 2,995 1,299	co-un-s	0 VA	Cloudy	Normal Operation	2.8986	3.0338	0.1352	1.3926	1.1956	1.2941		1687.05	1440.00	1863.50	72.6	
WAA Clouddy Normal Operation 2.9027 2.9845 0.0699 1.2895 1.2897 1.2894 1.2894 1.2894 1.2895 1.2897 1.2891 1.2895 1.2891 5414.12 1.40,00 1.805 WAA1 Clouddy Normal Operation 2.9079 2.9815 0.0756 1.8897 1.8897 1.8894 2.9079 1.9897 1.8897 1.8894 2.9086 0.0088 1.1414 1.4859 1.4800 1.8808 2.9086 0.0088 0.0099 1.9097 1.9097 1.9097 1.9097 1.9097 1.9097 1.9097 1.9097 1.9097 1.9098 1.4000 1.9097 1.9098 1.4000 1.9097 1.9097 1.9098 1.4000 1.9097 1.9098 1.4000 1.9097 1.9098 1.4000 1.9097 1.9098 1.4000 1.9097 1.9098 1.4000 1.9097 1.9099 1.9097 1.9097 1.9090 1.9090 1.9090 1.9090 1.9090 1.9090 1.9090 1.9090	co-unc-s	WA/	Cloudy	Normal Operation	2.9020	2.9605	0.0585	1.1789	1.1764	1.1777		347.24	1440.00	1695,82	34.5	
WAA1 Cloudy Normal Operation 2.9973 2.0894 1.2895 1.2894 1.2894 1.2894 1.2894 1.4400 1.2894 1.2894 1.2894 1.2894 1.2894 1.2894 1.2894 1.4400 1.6822 1.4400 1.6822 1.2894 1.2894 1.4400 1.4400 1.6822 1.4400 <th< td=""><td>8-7m-05</td><td>WA8</td><td>Cloudy</td><td>Normal Operation</td><td>2.9027</td><td>2.9845</td><td>0.0818</td><td>1,9150</td><td>1.8420</td><td>1.8785</td><td></td><td>400.89</td><td>1440.00</td><td>2705.04</td><td>30.2</td><td></td></th<>	8-7m-05	WA8	Cloudy	Normal Operation	2.9027	2.9845	0.0818	1,9150	1.8420	1.8785		400.89	1440.00	2705.04	30.2	
WA11 Cloudy Normal Operation 2.9977 2.9977 2.9977 2.9977 2.9979 2.9977 2.9979 2.9977 2.9979 2.9977 2.9979 <th< td=""><td>9-Jun-05</td><td>WA9</td><td>Cloudy</td><td>Normal Operation</td><td>2:9032</td><td>2.9731</td><td>0.0699</td><td>1,2995</td><td>1.2967</td><td>1.2981</td><td></td><td>438.12</td><td>1440.00</td><td>1859.26</td><td>37.4</td><td></td></th<>	9-Jun-05	WA9	Cloudy	Normal Operation	2:9032	2.9731	0.0699	1,2995	1.2967	1.2981		438.12	1440.00	1859.26	37.4	
WA11 Cloudy Normal Operation 2,908 3,054.1 1,0804 1,087.7 1,0804 1,087.7 1,0804 1,087.7 1,0804 1,0904 1,0004	9-Jun-05	WA10	Cloudy	Normal Operation	2.9079	2,9815	0.0736	1.8632	1,8597	1.8615		202.85	1440.00	2680.40	27.5	
WA3 Rainy Normal Operation 2.8964 2.0096 11496 1.5631 1.3534 528-59 353.39 144000 1957.46 WA4 Rainy Normal Operation 2.8784 2.9678 0.0685 0.9833 0.9110 568.68 589.68 135.99 1440.00 137.54 WA5 Rainy Normal Operation 2.9064 2.988 0.0893 11824 1182 487.60 140.00 1130.54 WA5 Rainy Normal Operation 2.9785 0.0893 11824 1182 487.60 1710.00	9-Jun-05	WA11	Cloudy	Normal Operation	2,9080	3.0541	0.1451	10904	1.0872	_		501.10	1440.00	1667 07	3.5	
WA4 Rainy Normal Operation 2,8994 2,5679 0,5983 0,9119 0,9101 14020 1503-149 14000 1503-149 14000 1503-149 14000 1503-149 14000 1503-149 14000 1503-149 14000 1503-149 14000 1503-149 14000 1503-140 14000 1503-140 1503-140 14000 1503-140 1503-140 14000 1503-140 1503-140 14000 1503-140 1503-140 14000 1503-140	15-Jun-05	WA3	Rainy	Normal Operation	2.8968	2.9064	9600.0	1 149F	1 5691	T	5200 00 5	222 003	1440.00	1067 48	33.2	
WA5 Rainy Normal Operation 2.9168 3.000 1.1435 1.1431 3.000 3.000 1.1435 4.440 1.510	15-Jun-05	WA4	Rainv	Normal Oneration	2 8994	2 9679	0.0585	0000	00110		200000000000000000000000000000000000000	200.00	1440.00	04.700	4 C	
WAG Rainy Normal Operation 2.9042 2.9938 0.1179 1.1492 4427.00 1749.00 <th< td=""><td>15-Jun-05</td><td>WAS</td><td>Rainy</td><td>Normal Operation</td><td>2 9 1 2 8</td><td>2001</td><td>0,000</td><td>11410</td><td>1 1 1 1 1 3</td><td></td><td></td><td>200.00</td><td>1440.00</td><td>1310,54</td><td>52.3</td><td></td></th<>	15-Jun-05	WAS	Rainy	Normal Operation	2 9 1 2 8	2001	0,000	11410	1 1 1 1 1 3			200.00	1440.00	1310,54	52.3	
WAS Rainy Normal Operation 2,904 2,905 1,194 1,194 485/102 1,194,0 2,194,1 1,194,0 1,1	15-Jun-05	WAB	Zain,	Normal Operation	20046	0000	0.000	2 2 2	7,72		4520.20	07.005	1440.00	1645.57	53.9	
WAY Rainy Normal Operation 2,900 2,804 0,055 1,175 0,1767 5447 0,1767<	15. Jun 05	2000	, coin	Normal Operation	2.3043	2.3930	0,0893	1.1924	1.1960		4687,05 4	1711,05	1440.00	1719,65	51.9	
WARD Rainty Normal Operation 2.9239 2.9756 0.6566 1.4222 1.4272 1.4276 5.590.89 5.441.89 1.440.00 2.051.42 WA10 Rainy Normal Operation 2.9764 0.0551 1.0775 1.0775 5.548.12 5.462.12 1.440.00 2.051.42 WA11 Rainy Normal Operation 2.9762 3.0273 1.0975 5.551.10 1.440.00 2.051.70 WA3 Rainy Normal Operation 2.9762 3.021 0.1151 1.0856 1.7056 3.580.80 5.41.00 2.051.70 1.440.00 2.051.70 WA4 Rainy Normal Operation 2.7097 2.9092 0.1151 1.1086 1.1087 1.1084 4.41.00 1.440.00 1.562.36 WA5 Rainy Normal Operation 2.8019 0.1096 1.130 1.1082 1.4246 5.41.48 5.41.40 1.562.36 WA5 Rainy Normal Operation 2.8019 2.0196 1.1337 1.1284 4	13-341-03 45 1-15 07	,	y sally	Normal Operation	Z.90b0	2.9588	0.0528	0.8241	0.7572			371.24	1440.00	1138.54	46.4	
WAVE Rainy Normal Operation 2.9161 2.9554 0.0373 1.0755 1.0755 5438.12 548.0.72 1.440.00 1548.72 WAVI Rainy Normal Operation 2.9162 2.9054 0.01531 1.0326	13-70U-02	WAB	Kalny	Normal Operation	2.9239	2.9795	0.0556	1.4222	1.4270	_	5390.89 5	414.89	1440.00	2051.42	27.1	
WA10 Rainy Normal Operation 2.8775 2.8775 1.9323 1.9353 5370.75 5334.75 1.440.00 2786.76 WA31 Rainy Normal Operation 2.7847 2.9052 0.0151 1.0879 1.0853 5370.75 532.30 1.440.00 2786.76 WA3 Rainy Normal Operation 2.7847 2.8098 0.1151 1.2824 1.2665 5389.98 5413.98 1.440.00 1.823.76 WA5 Rainy Normal Operation 2.7897 2.9098 0.1151 1.2824 4.710.6 4.735.0 1.440.00 1.823.76 WA5 Rainy Normal Operation 2.8019 0.0570 1.1264 1.2665 538.98 1.440.00 1.823.76 1.440.00 1.823.76 WA5 Rainy Normal Operation 2.8076 2.8736 0.0670 0.3652 0.3653 1.340 1.3536.1 1.440.00 1.823.76 WA5 Rainy Normal Operation 2.8076 2.8852 0.0727 1.113 </td <td>ch-uni-ci</td> <td>WA9</td> <td>Kainy</td> <td>Normal Operation</td> <td>2.9181</td> <td>2.9554</td> <td>0.0373</td> <td>1.0735</td> <td>1.0775</td> <td></td> <td>5438.12 5</td> <td>462,12</td> <td>1440.00</td> <td>1548.72</td> <td>24.1</td> <td></td>	ch-uni-ci	WA9	Kainy	Normal Operation	2.9181	2.9554	0.0373	1.0735	1.0775		5438.12 5	462,12	1440.00	1548.72	24.1	
WA41 Rainy Normal Operation 2.9662 3.0213 0.1151 1.0826 1.0863 550.110 552.510 1.440.00 1.562.76 WA43 Rainy Normal Operation 2.7897 2.9086 0.1151 1.5624 1.7229 1.6847 582.30 537.50 1.440.00 2.440.37 WA5 Rainy Normal Operation 2.7847 2.9093 0.1151 1.2624 1.7026 1.562.00 1.440.00 1.802.33 WA5 Rainy Normal Operation 2.8019 2.0150 1.1094 1.1062 4.710.6 4.710.0 1.440.00 1.562.33 WA5 Rainy Normal Operation 2.8019 2.01570 1.1887 1.1024 4.710.6 4.710.0 4.710.0 1.66.33 WA5 Rainy Normal Operation 2.8075 2.8032 0.0570 1.4206 1.4246 5.414.89 5.436.9 1.440.00 1.562.75 WA5 Fine Normal Operation 2.8075 2.9022 1.4186 1.4246 </td <td>15-Jun-05</td> <td>WA 10</td> <td>Rainy</td> <td>Normal Operation</td> <td>2.8175</td> <td>2.8706</td> <td>0.0531</td> <td>1.9323</td> <td>1.9382</td> <td></td> <td>5370.75 5</td> <td>394,75</td> <td>1440.00</td> <td>2786.76</td> <td>19.1</td> <td></td>	15-Jun-05	WA 10	Rainy	Normal Operation	2.8175	2.8706	0.0531	1.9323	1.9382		5370.75 5	394,75	1440.00	2786.76	19.1	
WA3 Rainy Normal Operation 2.7897 2.9008 0.1111 1.6665 1.7329 1.6947 5323.90 5347.90 1.440.00 2440.37 WAA Rainy Normal Operation 2.7847 2.8098 0.1151 1.2624 1.2706 538.99 6.413.98 1.440.00 1.622.93 WAA Rainy Normal Operation 2.8014 2.8746 0.0727 1.1261 1.1337 1.1294 4771.05 473.00 1.626.33 WAA Rainy Normal Operation 2.8016 2.8756 0.0670 0.9654 5.71.24 4771.05 473.00 1.350.14 WAA Rainy Normal Operation 2.8075 0.0670 0.9654 5.71.24 471.05 473.05 1.440.00 1.350.12 1.440.00 1.562.33 WAA Rainy Normal Operation 2.8075 0.0670 1.540 1.553 541.86 541.80 5438.90 1.440.00 1.582.93 WAA Fine Normal Operation 2.8075	15-Jun-05	WA11	Rainy	Normal Operation	2.9062	3,0213	0.1151	1.0826	1.0879		5501,10 5.	525.10	1440.00	1562.76	73.7	
WA4 Rainy Normal Operation 2.7847 2.8998 0.1151 1.2824 1.2706 1.2665 5389.98 5443.98 1.1094 1.2706 1.2665 5389.98 1440.00 1622.37 WA5 Rainy Normal Operation 2.8074 2.8074 2.8746 0.00727 1.1294 1.1064 4735.05 1440.00 1562.93 WA7 Rainy Normal Operation 2.8074 2.8746 0.0570 0.9654 5271.24 5385.24 1440.00 1360.13 WA7 Rainy Normal Operation 2.8076 2.0872 0.9654 5371.24 5385.24 1440.00 1360.13 WA7 Rainy Normal Operation 2.8070 2.0872 1.480 1.335 1.440.00 1362.16 WA7 Fine Normal Operation 2.8072 2.0078 1.507 1.087 1.085 1.440.00 1562.69 WA7 Fine Normal Operation 2.8072 2.0078 1.507 1.3052 1.353 1.440	21-Jun-05	WA3	Rainy	Normal Operation	2.7987	2.9098	0.1111	1.6565	1.7329		5323,90 5	347.90	1440.00	2440.37	45.5	
WA5 Rainy Normal Operation 2.7897 2.9093 0.1996 1.1034 1.1062 4350.20 4374.20 1440.00 1592.93 WA7 Rainy Normal Operation 2.8019 2.8736 0.0570 1.1294 471.00 437.00 1440.00 1592.93 WA7 Rainy Normal Operation 2.8076 0.0570 1.1294 471.00 473.00 1440.00 1302.10 WA9 Rainy Normal Operation 2.8076 2.8928 0.0570 1.330 1.3406 5.414.89 543.89 1440.00 2051.42 WA4 Rainy Normal Operation 2.8075 2.8928 0.0459 1.4306 1.353 546.21 1.440.00 2051.42 WA4 Fine Normal Operation 2.8075 2.8928 0.0459 1.4306 1.250 543.00 1.440.00 1.562.83 WA4 Fine Normal Operation 2.8017 2.8918 0.1017 1.0787 1.0917 1.082 5525.10 543.0	21-Jun-05	WA4	Rainy	Normal Operation	2.7847	2.8998	0.1151	1.2624	1.2706		5389.98 5	413.98	1440.00	1823.76	63.1	
WAR Rainy Normal Operation 2.8049 2.8746 0.0727 1.1251 1.1294 4711.05 4735.05 1440.00 1626.34 WAY Rainy Normal Operation 2.8066 2.8736 0.0854 5371.24 4711.05 4735.05 1440.00 1380.10 WAY Rainy Normal Operation 2.8075 2.0829 0.0780 1.3306 1.4246 541.89 543.89 1440.00 1380.10 WAY Rainy Normal Operation 2.8075 2.8855 0.0780 1.3307 1.6271 440.00 2.27.75 WAY Fine Normal Operation 2.8075 2.9142 0.0159 1.5471 5.530.75 5418.75 1.440.00 1.582.75 WAA Fine Normal Operation 2.8052 2.919 0.1837 1.087 1.2616 1.2616 5415.30 1440.00 188.25 WAA Fine Normal Operation 2.8052 2.919 0.1837 1.2616 1.2636 4315.30 144	21-Jun-05	WAS	Rainy	Normal Operation	2.7997	2.9093	0.1096	1.1030	1.1094		4350.20 4.	374.20	1440.00	1592.93	68.8	
WA7 Rainy Normal Operation 2.8736 0.0870 0.3812 0.9654 537.1.24 5356.24 1440.00 1350.10 WA9 Rainy Normal Operation 2.8103 2.0072 0.0872 1.4306 1.4306 543.89 1440.00 2051.42 WA9 Rainy Normal Operation 2.8075 2.00780 1.5471 1.5530 1.5471 5283.89 1.440.00 2051.75 WA1 Rainy Normal Operation 2.872 0.0459 1.5411 1.5530 1.5471 528.11 1.440.00 2227.75 WA4 Fine Normal Operation 2.872 0.0459 1.5411 1.5530 552.50 552.90 1.440.00 1582.26 WA4 Fine Normal Operation 2.8092 0.0459 1.5471 1.055 1.440.00 1946.25 WA4 Fine Normal Operation 2.8092 0.0698 1.1023 1.1023 4374.20 4399.45 1440.00 1867.31 WA5 Fine <td>21-Jun-05</td> <td>WA6</td> <td>Rainy</td> <td>Normal Operation</td> <td>2.8019</td> <td>2.8746</td> <td>0.0727</td> <td>1.1251</td> <td>1.1337</td> <td></td> <td>4711.05 4.</td> <td>735.05</td> <td>1440.00</td> <td>1626.34</td> <td>44.7</td> <td></td>	21-Jun-05	WA6	Rainy	Normal Operation	2.8019	2.8746	0.0727	1.1251	1.1337		4711.05 4.	735.05	1440.00	1626.34	44.7	
WAR9 Rainy Normal Operation 2.8075 0.029 1.4806 1.4246 5414.89 5436.89 1440.00 2051.42 WAR9 Rainy Normal Operation 2.8076 2.8076 1.3305 1.3400 1.3535 5462.15 1440.00 2051.42 WA10 Rainy Normal Operation 2.8470 2.8929 0.01649 1.440 1.541 1.440.00 2227.75 WA10 Rainy Normal Operation 2.8979 0.0167 1.0787 1.0917 1.0852 5525.10 549.10 1.440.00 1562.69 WAA Fine Normal Operation 2.8016 0.167 1.0787 1.0917 1.0852 5542.90 1.440.00 1562.69 WAA Fine Normal Operation 2.8019 0.168 1.1023 1.1023 4374.20 4398.20 1440.00 1862.85 WAA Fine Normal Operation 2.8049 0.1068 1.1023 1.1023 4374.20 4398.20 1440.00 1820.89 <td>21-Jun-05</td> <td>WA7</td> <td>Rainy</td> <td>Normal Operation</td> <td>2.8066</td> <td>2.8736</td> <td>0.0670</td> <td>0.9612</td> <td>0.9695</td> <td></td> <td>5371.24 5.</td> <td>395,24</td> <td>1440.00</td> <td>1390.10</td> <td>48.2</td> <td></td>	21-Jun-05	WA7	Rainy	Normal Operation	2.8066	2.8736	0.0670	0.9612	0.9695		5371.24 5.	395,24	1440.00	1390.10	48.2	
WA9 Rainy Normal Operation 2.8855 0.0780 1.3305 1.3400 1.3353 5462.12 5486.12 1440.00 1922.76 WA10 Rainy Normal Operation 2.8470 2.8959 0.0787 1.377 1.3977 1.5471 1.5530 1.5471 1.440.00 1522.75 WA11 Rainy Normal Operation 2.8142 0.1017 1.777 1.0917 1.0850 5525.75 1.440.00 1.552.66 WA4 Fine Normal Operation 2.8005 2.8043 0.0688 1.4007 1.3052 5.552 0.537.30 1440.00 1846.26 WA5 Fine Normal Operation 2.8017 2.8017 1.021 1.023 4.153 6.415.30 6.416.00 1867.31 WA5 Fine Normal Operation 2.8085 2.8465 0.0668 1.7620 1.7793 5436.89 1440.00 1867.31 WA5 Fine Normal Operation 2.7860 2.8285 0.0668 1.7795 1.7	21-Jun-05	WA8	Rainy	Normal Operation	2.8103	2.9032	0.0929	1.4186	1.4306		5414.89 5	438.89	1440.00	2051.42	45.3	
WA10 Rainy Normal Operation 2.83470 2.8329 0.0459 1.5411 1.5530 1.5471 5394.75 5418.75 1440.00 2227.75 WA31 Fine Normal Operation 2.8042 0.0459 1.5417 1.0787 1.0562 5625.10 5648.70 1440.00 1562.69 WA3 Fine Normal Operation 2.8063 0.0688 1.00787 1.0561 1.2616 5415.30 5371.90 1440.00 1846.25 WA5 Fine Normal Operation 2.8049 0.1837 1.2616 1.2616 5415.30 5438.30 1440.00 1887.31 WA5 Fine Normal Operation 2.8049 0.1688 1.1023 1.1023 4374.20 4399.45 1440.00 1887.31 WA5 Fine Normal Operation 2.8045 0.1068 1.1023 1.7793 5438.20 1440.00 1827.31 WA8 Fine Normal Operation 2.7860 2.8485 0.0650 1.7793 5438.28 <	21-Jun-05	WA9	Rainy	Normal Operation	2.8075	2,8855	0.0780	1.3305	1.3400		5462.12 5	486.12	1440.00	1922.76	40.6	
WA1 Rainy Normal Operation 2.812.5 2.914.2 0.1017 1.0787 1.0917 1.0882 £555.01 £525.01 <th< td=""><td>20-un-12</td><td>WATO</td><td>Kainy</td><td>Normal Operation</td><td>2.8470</td><td>2.8929</td><td>0.0459</td><td>1.5411</td><td>1.5530</td><td></td><td>5394.75 5</td><td>418.75</td><td>1440.00</td><td>2227.75</td><td>20.6</td><td></td></th<>	20-un-12	WATO	Kainy	Normal Operation	2.8470	2.8929	0.0459	1.5411	1.5530		5394.75 5	418.75	1440.00	2227.75	20.6	
WA3 Fine Normal Operation 2.8062 2.8693 0.0688 1.4007 1.3052 1.3530 5347.90 5371.90 1440.00 1948.25 WA4 Fine Normal Operation 2.8082 2.9919 0.1837 1.2616 1.2616 4415.00 1393.30 1440.00 1986.73 WA5 Fine Normal Operation 2.8085 2.9210 0.1125 1.4146 1.2387 4775.45 4799.45 1440.00 1920.89 WA7 Fine Normal Operation 2.7880 2.8485 0.0550 1.2387 1.2387 5395.24 4140.00 1920.89 WA9 Fine Normal Operation 2.7860 2.8153 0.0650 1.7897 1.7793 5495.89 1440.00 2552.12 WA9 Fine Normal Operation 2.7860 2.8153 0.0483 1.7665 0.7492 5496.89 5462.89 1440.00 1078.85 WA9 Fine Normal Operation 2.7860 2.8154 0.0889 1.27	21-Jun-05	WA11	Rainy	Normal Operation	2,8125	2.9142	0.1017	1.0787	1.0917		5525.10 5.	549.10	1440.00	1562.69	65.1	
WA4 Fine Normal Operation 2.8919 0.1837 1.2816 1.2616 5415.30 5439.30 1440.00 1816.70 WA5 Fine Normal Operation 2.8017 2.9078 0.1068 1.1023 1.1023 4374.20 4399.45 1440.00 1587.31 WA5 Fine Normal Operation 2.8085 2.9210 0.1125 1.4487 1.2837 1.3347 4374.20 4775.45 4799.45 1440.00 1587.31 WA7 Fine Normal Operation 2.7880 2.8825 0.0650 1.7895 1.7793 5438.89 5462.89 1440.00 2562.12 WA9 Fine Normal Operation 2.7860 2.8143 0.0443 0.7492 0.7492 5462.89 1440.00 2562.12 WA9 Fine Normal Operation 2.7780 0.0843 1.7795 0.7492 546.12 1440.00 1078.85 WA10 Fine Normal Operation 2.2769 2.814 0.0843 1.2729 1.27	27-Jun-05	WA3	Fine	Normal Operation	2.8005	2.8693	0.0688	1.4007	1.3052	ı	5347.90 5.	371.90	1440.00	1948.25	35.3	
WA6 Fine Normal Operation 2.8087 0.1068 1.1023 1.1023 4374.20 4398.20 1440.00 1587.31 WA7 Fine Normal Operation 2.8085 2.921.00 0.1178 1.71023 1.1023 4374.20 4398.20 1440.00 1920.89 WA7 Fine Normal Operation 2.7885 2.8485 0.0650 1.7783 1.7387 5395.24 5419.24 1440.00 1920.89 WA9 Fine Normal Operation 2.7860 2.8523 0.0843 1.7796 1.7793 5436.83 546.12 1440.00 1078.85 WA10 Fine Normal Operation 2.8760 2.8152 0.0843 1.7796 1.7793 5436.10.12 1440.00 1078.85 WA10 Fine Normal Operation 2.8760 2.8152 0.0474 0.7492 0.7492 6.7492 1440.00 1078.85 WA10 Fine Normal Operation 2.8774 2.8159 0.0889 1.2789 1.2789 <	27-Jun-05	WA4	Fire	Normal Operation	2.8082	2.9919	0.1837	1.2616	1.2616		5415.30 5	439.30	1440 00	1816.70	101	
WA6 Fine Normal Operation 2.8036 2.9210 0.1125 1.4146 1.2533 1.3340 4775.45 4796.45 1440.00 1920.89 WA7 Fine Normal Operation 2.7835 2.8485 0.0550 1.2387 1.2387 5395.24 5419.24 1440.00 1783.73 WA9 Fine Normal Operation 2.7660 2.8523 0.0843 1.7793 0.7492 0.7492 1440.00 2562.12 WA9 Fine Normal Operation 2.27660 2.8134 0.0444 0.7492 0.7492 0.7492 548.61.2 1440.00 1078.85 WA10 Fine Normal Operation 2.2769 2.9159 0.0886 1.2729 1.2729 5549.10 5549.10 1440.00 1778.85	27-Jun-05	WAS	Fine	Normal Operation	2.8017	2.9085	0.1068	1.1023	1,1023		4374.20 4;	398.20	1440.00	1587.31	67.3	
WA7 Fine Normal Operation 2.7935 2.8485 0.0550 1.2387 1.2387 5395.24 5416.24 1440.00 2562.12 WA8 Fine Normal Operation 2.7860 2.8523 0.0843 1.7765 1.7763 5438.89 5462.89 1440.00 2562.12 WA91 Fine Normal Operation 2.2871 2.9159 0.0886 1.2726 1.7729 5486.12 5573.10 140.00 2562.12 WA11 Fine Normal Operation 2.2754 2.8674 0.0890 1.2729 1.2729 5548.10 1440.00 2718.65	27-Jun-05	WA6	Fine	Normal Operation	2.8085	2.9210	0.1125	1,4146	1.2533		4775.45 4:	799 45	1440 00	1920 89	a d	
WAB Fine Normal Operation 2.7860 2.8523 0.0843 1.7965 1.7793 5438.83 5462.89 1440.00 2.5627.2 WA9 Fine Normal Operation 2.8754 0.843 0.0474 0.7492 0.7492 6.7492 546.12 5510.12 1440.00 1078.85 WA10 Fine Normal Operation 2.2874 2.8159 0.0889 1.3289 1.8493 548.75 544.275 1440.00 2778.65 WA11 Fine Normal Operation 2.7784 2.8674 0.0890 1.2729 1.2729 5549.10 5573.10 1440.00 1822.96	27-Jun-05	WA7	Fine	Normal Operation	2,7935	2.8485	0.0550	12387	12387		5395 24 5	419.24	1440.00	1783 73		
WA9 Fine Normal Operation 2.7660 2.8134 0.0474 0.7492 0.7492 6.	27-Jun-05	WA8	Fine	Normal Operation	2.7680	2.8523	0.0843	1.7965	1.7620	-		162.89	1440.00	25,000	3000	
W410 Fine Normal Operation 2.8271 2.9159 0.0888 1.9266 1.8493 1.8890 5418.75 5442.75 140,000 2718.65 W411 Fine Normal Operation 2.7784 2.8674 0.0890 1.2729 1.2729 5549.10 5573.10 1440.00 1832.98	27-Jun-05	WA9	Fine	Normal Operation	2.7660	2.8134	0.0474	0.7492	0.7492		5486.12 5	510.12	1440.00	1078 85	43.0	
WA11 Fine Normal Operation 2.7784 2.8674 0.0890 1.2729 1.2729 1.2729 5549.10 5573.10 1440.00 1832.98	27-Jun-05	WA10	File	Normal Operation	2.8271	2.9159	0.0888	1.9266	1.8493		5418.75 54	442.75	1440.00	2718.65	32.7	
2000	27-Jun-05	WA11	Fine	Normal Operation	2.7784	2.8674	0.0890	1.2729	1.2729			573.10	1440 00	1832 98	48.5	

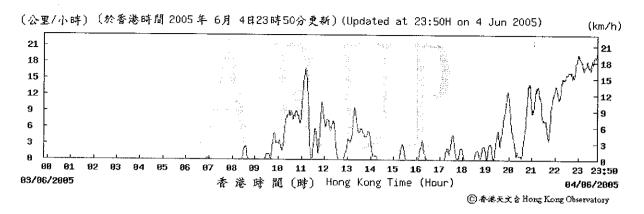
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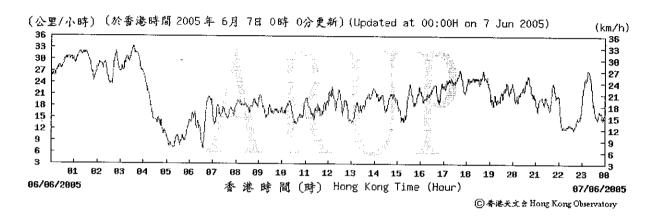
APPENDIX H

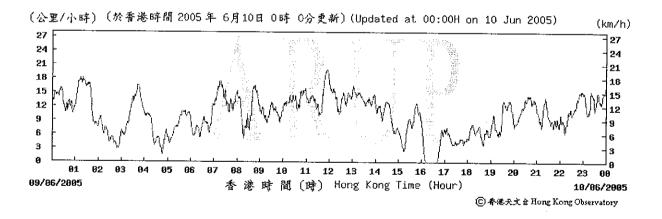
Detailed wind monitoring data for the air quality monitoring period

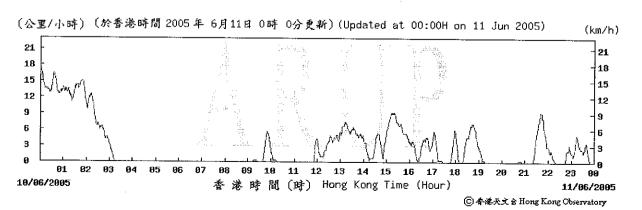
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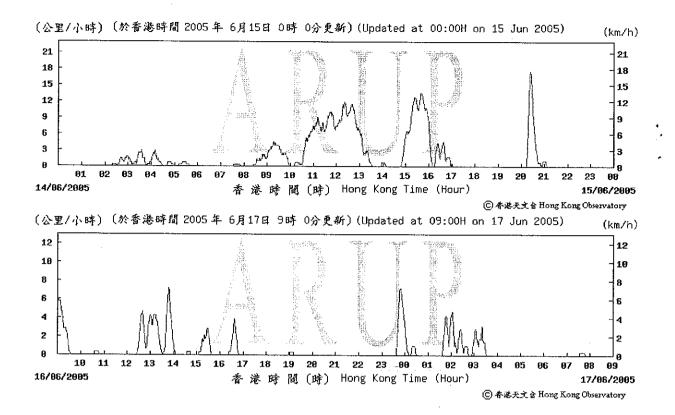
Wind Monitoring Data - Wind Speed during air quality monitoring in June 2005

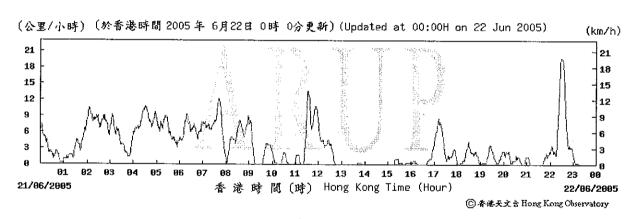


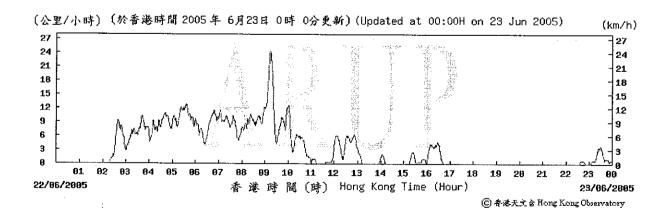


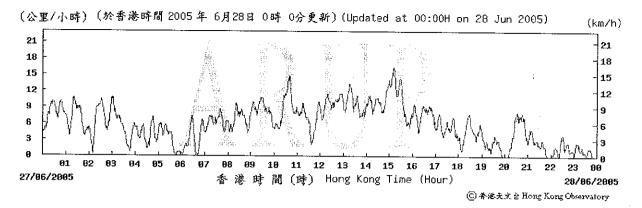


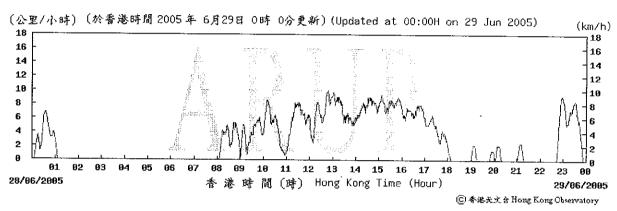












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APPENDIX I

Calibration certificates of noise monitoring equipment

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Level 5 Festival Walk 80 Tal Chee Avenue Kowloon Tong, Kowloon HONG KONG

AAc Certificate No. 2004001

Fax: +852 2268 3950

Tel: +852 2268 3216

CERTIFICATE OF CONFORMITY

Description of Test Instrument Bruel & Kjaer Acoustic Calibrator

Type No 4230

Serial No 1233887

Date of Test:

16 July 2004

Carried out by: Steven Wong

Approved by:

William Ng

Signature: 🥰 -----

Signature:

Wilm My

Ambient Conditions During Test

Atmospheric Pressure:

1KPa

Air Temperature:

28°C

Relative Humidity:

58%

This document is to certify that the above Test Instrumentation did conform to the manufacturer's original specification on the date of the test. Any adjustments that were required to bring the instrumentation back into specification are duly noted in this document. The tests were carried out using the reference calibrator

Description of Reference Calibrator

Type No

Serial No

Brüel & Kjær Multi Frequency Calibrator

4226

1531372 1531372

Brüel & Kjær Coupler

UA0915

Certificate of Calibration Serial No.

12701

By Brüel & Kjær (UK) Ltd Calibration Date: NAMAS Accredited Calibration Laboratory No.

20 April 2004

0174

The reference calibrator, Type 4226, has traceable calibration back to National Measurement Standards. As such it is used as Arup Acoustics own 'Primary Standard' and is used only for controlled laboratory calibration tests on all sound measuring equipment owned by Arup Acoustics.

Footnote:

Arup Acoustics is not a registered NAMAS accredited calibration laboratory. This certificate is for internal use only (unless otherwise authorised) and is part of Arup Acoustics development and commitment to QC and QA



Level 5 Festival Walk 80 Tat Chee Avenue Kowloon Tong, Kowloon HONG KONG

AAc Certificate No. 2004002

Fax: +852 2268 3950

Tel: +852 2268 3216

CERTIFICATE OF CONFORMITY

<u>Description of Test Instrument</u> Bruel & Kjaer Acoustic Calibrator

Type No 4231 Serial No

2314016

Date of Test:

16 July 2004

Carried out by: Steven Wong

Approved by: Wi

William Ng

Signature:

your-

Signature:

W:h

Ambient Conditions During Test

Atmospheric Pressure:

1KPa

Air Temperature:

28°C

Relative Humidity:

58%

This document is to certify that the above Test Instrumentation did conform to the manufacturer's original specification on the date of the test. Any adjustments that were required to bring the instrumentation back into specification are duly noted in this document. The tests were carried out using the reference calibrator described below.

Description of Reference Calibrator	Type No	Serial No
Brüel & Kjær Multi Frequency Calibrator Brüel & Kjær Coupler	4226 HA0915	15 3137 2

Certificate of Calibration Serial No.

12701

By Brüel & Kjær (UK) Ltd Calibration Date:

20 April 2004

NAMAS Accredited Calibration Laboratory No.

0174

The reference calibrator, Type 4226, has traceable calibration back to National Measurement Standards. As such it is used as Arup Acoustics own 'Primary Standard' and is used only for controlled laboratory calibration tests on all sound measuring equipment owned by Arup Acoustics.

Footnote:

Arup Acoustics is not a registered NAMAS accredited calibration laboratory. This certificate is for internal use only (unless otherwise authorised) and is part of Arup Acoustics development and commitment to QC and QA procedures.

CERTIFICATE OF CALIBRATION

Certificate No.: 2KS040905-5

Page 1 of 2

Calibration of:

Description Manufacture: Sound Level Meter

Brüel & Kiær

Type No. Serial No.

2238 2320707 Microphone

4188 2179479

Client:

Ove Arup & Partners Hong Kong Ltd.

Level 5. Festival Walk, 80 Tat Chee Avenue,

Kowloon Tong, Kowloon,

Hong Kong.

Calibration Conditions:

Air Temperature :

23.1 °C

Air Pressure

101.4 kPa

Relative Humidity:

58 %

Test Specifications:

The Sound Level Meter has been calibrated in accordance with the requirements as specified in IEC 60651 and IEC 60804 type 1, and vendor specific procedures.

The measurements has been performed with the assistance of:

Brüel & Kjær's Sound Level Meter Calibration System B&K 9600 CAL2238A, Ver.25.10.1999 The standard(s) and instrument(s) used in the calibration are traceable to international standard and are calibrated on a schedule which is adjusted to maintain the required accuracy level.

Test Result:

A list of the performed (sub) tests is stated on page 2 of this certificate. Actual Measurement are documented on worksheet.

Date of Calibration: 09 September, 2004

Calibrated By:

Certificate issued: 10 September, 2004

Approved signatory:

Fox Ng

Reproduction of the complete certificate is allowed. Parts of the certificate may only be reproduced after written permission.

Unit 706 7/F, Miramar Tower, 132 Nathan Road, Tsim Sha Tsur, Kowloon, Hong Kong 老办转头 但 废 敦 追 132 號 美 善 鞋 大 瘪 7 婁 7 0 6 室

Tel: (852) 2548 7486 Fax: (852) 2858 1168

CERTIFICATE OF CALIBRATION

Certificate No.: 2KS040905-5 Page 2 of 2

Results:

List of performed (sub) test with test status:

"OK" Means the result of the (sub)test is Inside the tolerances stated in the test specifications.

"-" Means the result of the (sub)test is Outside these tolerances.

Test:	Subtest :	Status:
Noisc	. A	ОК
Noise	С	OK
Noise	Lin	OK
Frequency Weighting	A	OK
Frequency Weighting	· C	OK
Frequency Weighting	Lîn	OK
Level Range Control	1000 Hz	OK
Linearity Range	SPL 10dB 4000 Hz	OK
Linearity Range	SPL 1dB 1000 Hz	OK
Linearity Range	Leq	OK
Linearity Range	SEL	OK
RMS Detector	CF 3	OK
RMS Detector	CF 5	OK
RMS Detector	CF 10	OK
RMS Detector	Symmetry	OK
Time Weighting	Difference Indication	OK
Time Weighting	Single Burst FAST	OK
Time Weighting	Single Burst SLOW	OK
Time Weighting	Single Burst IMPULSE	OK
Time Weighting	Repetitive Burst	OK
Time Weighting	Peak	OK
Time Averaging		OK
Pulse Range		OK
Overload	SPL	OK
Overload	SEL	OK
Acoustic Response	A	OK
Acoustic Response	Lin	OK

Calibration Equipment:

Brüel & Kjær's Sound	Level Meter Calib	ration System	B&K 9600 CAL	.2238A, Ver.25.10.1999
Description :	Make & Model:	Serial No.:	Last Cal. Date:	Traceable to:
Digital Multi-meter	Datron 1281	27361	08 Oct, 2003	HKSCL (HOKLAS)
Sine/Noise Generator	B&K 1049	1314978	Test	B&K Conformance
Test Waveform Generator	B&K 5918	1482949	Test	B&K Conformance
Acoustical Calibrator	B&K 4226	1551627	22 Jun, 2004	NPL via B&K (UKAS)

Calibrated By: 1-6X Date: 09 September, 2004 Checked By: Jeuly, Date: 10 September, 2004

CERTIFICATE OF CALIBRATION

Certificate No.: 2KS040905-4

Page 1 of 2

Calibration of:

Description

Sound Level Meter

Microphone

Manufacture: Type No.

Brüel & Kjær

2238

4188

Serial No.

2320696

2274286

Client:

Ove Arup & Partners Hong Kong Ltd.

Level 5, Festival Walk, 80 Tat Chee Avenue,

Kowloon Tong, Kowloon,

Hong Kong.

Calibration Conditions:

Air Temperature :

23.2 °C

Air Pressure

101.2 kPa

Relative Humidity:

59 %

Test Specifications:

The Sound Level Meter has been calibrated in accordance with the requirements as specified in IEC 60651 and IEC 60804 type 1, and vendor specific procedures.

The measurements has been performed with the assistance of:

Brüel & Kjær's Sound Level Meter Calibration System B&K 9600 CAL2238A, Ver.25.10.1999 The standard(s) and instrument(s) used in the calibration are traceable to international standard and are calibrated on a schedule which is adjusted to maintain the required accuracy level.

Test Result:

A list of the performed (sub) tests is stated on page 2 of this certificate. Actual Measurement are documented on worksheet.

Date of Calibration: 10 September, 2004

Calibrated By:

Certificate issued: 10 September, 2004

Approved signatory:

Fox Ng

Jacky Leung

Reproduction of the complete certificate is allowed. Parts of the certificate triay only he reproduced after written pertrainstant.

Certificate No.: 2KS040905-4 Page 2 of 2

Results:

List of performed (sub) test with test status:

"OK" Means the result of the (sub)test is Inside the tolerances stated in the test specifications.

"-" Means the result of the (sub)test is Outside these tolerances.

Test:	Subtest :	Status:
Noise	Λ	OK
Noise	C	OK
Noise	Lin	OK
Frequency Weighting	Α	OK
Frequency Weighting	- C	OK
Frequency Weighting	Lin	OK
Level Range Control	1000 Hz	OK
Linearity Range	SPL 10dB 4000 Hz	OK
Linearity Range	SPL 1dB 1000 Hz	OK
Linearity Range	Leq	OK
Linearity Range	SEL	OK
RMS Detector	CF 3	OK
RMS Detector	CF 5	OK
RMS Detector	CF 10	OK
RMS Detector	Symmetry	OK
Time Weighting	Difference Indication	ОК
Time Weighting	Single Burst FAST	OK
Time Weighting	Single Burst SLOW	OK
Time Weighting	Single Burst IMPULSE	OK
Time Weighting	Repetitive Burst	OK
Time Weighting	Peak	OK
Time Averaging		OK
Pulse Range		OK
Overload	SPL	OK
Overload	SEL	OK
Acoustic Response	Α	OK
Acoustic Response	Lin	OK

Calibration Equipment:

Bruel & Kjær's Sound	Level Meter Calibi	ration System	B&K 9600 CAL	2238A, Ver.25.10.1999
Description:	Make & Model:	Serial No. :	Last Cal. Date:	Traceable to:
Digital Multi-meter	Datron 1281	27361	08 Oct, 2003	HKSCL (HOKLAS)
Sine/Noise Generator	B&K 1049	1314978	Test	B&K Conformance
Test Waveform Generator	B&K 5918	1482949	Test	B&K Conformance
Acoustical Calibrator	B&K 4226	1551627	22 Jun, 2004	NPL via B&K (UKAS)

Calibrated By: 10x Ng
Date: 10 September, 2004

Checked By: July Date: 10 September, 2014

Certificate No.: 2KS040905-3

Page 1 of 2

Calibration of:

Description

Sound Level Meter

Microphone

Manufacture: Type No.

Brüel & Kjær 2238

4188

Serial No.

2320694

2274284

Client:

Ove Arup & Partners Hong Kong Ltd.

Level 5, Festival Walk, 80 Tat Chee Avenue,

Kowloon Tong, Kowloon,

Hong Kong.

Calibration Conditions:

Air Temperature

23.2 °C

Air Pressure

101.2 **kPa**

Relative Humidity:

59 %

Test Specifications:

The Sound Level Meter has been calibrated in accordance with the requirements as specified in IEC 60651 and IEC 60804 type 1, and vendor specific procedures.

The measurements has been performed with the assistance of:

Brüel & Kjær's Sound Level Meter Calibration System B&K 9600 CAL2238A, Ver.25.10.1999 The standard(s) and instrument(s) used in the calibration are traceable to international standard and are calibrated on a schedule which is adjusted to maintain the required accuracy level.

Test Result:

A list of the performed (sub) tests is stated on page 2 of this certificate. Actual Measurement are documented on worksheet.

Date of Calibration: 10 September, 2004

Calibrated By:

Certificate issued: 10 September, 2004

Approved signatory:

Fox Ng

Jacky Leung

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Certificate No.: 2KS040905-3

Page 2 of 2

Results:

List of performed (sub) test with test status:

"OK" Means the result of the (sub)test is Inside the tolerances stated in the test specifications.

Means the result of the (sub)test is Outside these tolerances.

Test:	Subtest:	Status:
Noise	Α	ОК
Noise	C	OK
Noise	Lin	OK
Frequency Weighting	A	OK
Frequency Weighting	С .	OK
Frequency Weighting	Lin	OK
Level Range Control	1000 Hz	OK
Linearity Range	SPL 10dB 4000 Hz	OK
Linearity Range	SPL 1dB 1000 Hz	OK
Linearity Range	Leg	OK
Linearity Range	SEL	OK
RMS Detector	CF 3	OK
RMS Detector	CF 5	OK
RMS Detector	CF 10	OK
RMS Detector	Symmetry	OK
Time Weighting	Difference Indication	OK
Time Weighting	Single Burst FAST	OK
Time Weighting	Single Burst SLOW	OK
Time Weighting	Single Burst IMPULSE	OK
Time Weighting	Repetitive Burst	OK
Time Weighting	Peak	OK
Time Averaging		OK
Pulse Range		OK
Overload	SPL	OK
Overload	SEL	OK
Acoustic Response	Α	OK
Acoustic Response	Lin	OK

Calibration Equipment:

Brüel & Kjær's Sound	Level Meter Calib	ration System	B&K 9600 CAL	2238A, Ver.25.10.1999
Description :	Make & Model:	Serial No. :	Last Cal. Date:	Traceable to:
Digital Multi-meter	Datron 1281	27361	08 Oct, 2003	HKSCL (HOKLAS)
Sine/Noise Generator	B&K 1049	1314978	Test	B&K Conformance
Test Waveform Generator	B&K 5918	1482949	Test	B&K Conformance
Acoustical Calibrator	B&K 4226	1551627	22 Jun, 2004	NPL via B&K (UKAS)

Calibrated By: Lox Na Date: 10 September, 2004

Checked By Janh Date: 10 September, 2004

Certificate No.: 2KS040905-1

Page 1

Calibration of:

Description

Sound Level Meter

Microphone

Manufacture: Type No.

Brüel & Kjær 2231

4188

Serial No.

1294630

2179478

Client:

Ove Arup & Partners Hong Kong Ltd.

Level 5, Festival Walk. 80 Tat Chee Avenue.

Kowloon Tong, Kowloon.

Hong Kong.

Calibration Conditions:

Air Temperature :

23.2 °C

Air Pressure

101.2 **kPa**

Relative Humidity:

59 %

Test Specifications:

The Sound Level Meter has been calibrated in accordance with the requirements as specified in IEC 60651 and IEC 60804 type 1, and vendor specific procedures.

The measurements has been performed with the assistance of:

Brüel & Kjær's Sound Level Meter Calibration System B&K 9600 C2231_10, Ver.03.11.1995 The standard(s) and instrument(s) used in the calibration are traceable to international standard and are calibrated on a schedule which is adjusted to maintain the required accuracy level.

Test Result:

A list of the performed (sub) tests is stated on page 2 of this certificate. Actual Measurement are documented on worksheet.

Date of Calibration: 10 September, 2004

Calibrated By:

Certificate issued: 10 September, 2004

Approved Signatory:

Fox Ng

Jacky Leung

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Certificate No.: 2KS040905-1 Page 2 of 2

Results:

List of performed (sub) test with test status:

"OK" Means the result of the (sub)test is Inside the tolerances stated in the test specifications.

"-" Means the result of the (sub)test is Outside these tolerances.

Test:	Subtest:	Status :
Noise	Α	OK
Noise	ϵ	OK
Noise	Lin	OK
Noise	Lin Lim	OK
Frequency Weighting	Α	OK
Frequency Weighting	С	OK
Frequency Weighting	Lin	OK
Frequency Weighting	Lin Lim	OK
Frequency Weighting	Random	OK
Level Range Control	4000 Hz	OK
Linearity Range	SPL 10dB 1000 Hz	OK
Linearity Range	SPL 1dB 4000 Hz	OK
Linearity Range	Leq	OK
Linearity Range	SEL	OK
RMS Detector	CF 3	OK
RMS Detector	CF 5	OK
RMS Detector	CF 10	OK
RMS Detector	Symmetry	OK
Time Weighting	Difference Indication	OK
Time Weighting	Single Burst FAST	OK
Time Weighting	Single Burst SLOW	OK
Time Weighting	Single Burst IMPULSE	, OK
Time Weighting	Repetitive Burst	OK
Time Weighting	Peak	OK
Time Averaging	Leq-SEL	OK
Pulse Range	SEL-Leq	OK
Overload	SPL	OK
Overload	SEL	OK
Internal Reference		OK
Acoustic Response	A	OK
Acoustic Response	Lin	OK

Calibration Equipment:

Bruel & Kjær's Sound Level Meter Calibration System B&K 9000 C2231_10, Ver.03.11.1993						
Description:	Make & Model:	Serial No. :	Last Cal. Date:	Traceable To		
Digital Multi-meter	Datron 1281	27361	08 Oct 2003	HKSCL(HOKLAS)		
Sine/Noise Generator	B&K 1049	1314978	Test	B&K Conformance		
Test Waveform Generator	B&K 5918	1482949	Test	B&K Conformance		
Acoustical Calibrator	B&K 4226	1551627	22 Jun, 2004	NPL via B&K (UKAS)		

Calibrated By: No. No. Date: 10 September, 2004

Checked By: July Date: 10 September, 2004

Certificate No.: 2KS040905-2

Page 1 of 2

Calibration of:

Description :

Sound Level Meter

Microphone

Manufacture:

Brüel & Kjær 2231

4188

Type No. Serial No.

1709184

2179476

Client:

Ove Arup & Partners Hong Kong Ltd.

Level 5, Festival Walk, 80 Tat Chee Avenue,

Kowloon Tong, Kowloon,

Hong Kong.

Calibration Conditions:

Air Temperature :

23.2 °€

Air Pressure

101.2 kPa

Relative Humidity:

59 %

Test Specifications:

The Sound Level Meter has been calibrated in accordance with the requirements as specified in IEC 60651 and IEC 60804 type 1, and vendor specific procedures.

The measurements has been performed with the assistance of:

Brüel & Kjær's Sound Level Meter Calibration System B&K 9600 C2231_10, Ver.03.11.1995 The standard(s) and instrument(s) used in the calibration are traceable to international standard and are calibrated on a schedule which is adjusted to maintain the required accuracy level.

Test Result:

A list of the performed (sub) tests is stated on page 2 of this certificate. Actual Measurement are documented on worksheet.

Date of Calibration: 10 September, 2004

Calibrated By:

Certificate issued: 10 September, 2004

Approved Signatory:

Fox No

.

Jacky Lenn

Reproduction of the complete certificate is allowed. Parts of the certificate may only be reproduced after written permission.

Certificate No.: 2KS040905-2

Page 2 of 2

Results:

List of performed (sub) test with test status:

"OK" Means the result of the (sub)test is Inside the tolerances stated in the test specifications.

"-" Means the result of the (sub)test is Outside these tolerances.

Test:	Subtest:	Status:
Noise	A	OK
Noise	C	OK
Noise	Lin	OK
Noise	Lin Lim	OK
Frequency Weighting	Α	OK
Frequency Weighting	C	OK
Frequency Weighting	Lin	OK
Frequency Weighting	Lin Lim	OK
Frequency Weighting	Random	O K -
Level Range Control	4000 Hz	OK
Linearity Range	SPL 10dB 1000 Hz	OK
Linearity Range	SPL IdB 4000 Hz	OK
Linearity Range	Leq	OK
Linearity Range	SEL	OK
RMS Detector	CF 3	OK
RMS Detector	CF 5	OK
RMS Detector	CF 10	OK
RMS Detector	Symmetry	OK
Time Weighting	Difference Indication	OK
Time Weighting	Single Burst FAST	OK
Time Weighting	Single Burst SLOW	OK
Time Weighting	Single Burst IMPULSE	OK
Time Weighting	Repetitive Burst	OK
Time Weighting	Peak	OK
Time Averaging	Leq-SEL	OK
Pulse Range	SEL-Leq	OK
Overload	SPL	OK
Overload	SEL	OK
Internal Reference		OK
Acoustic Response	Α	OK
Acoustic Response	Lin	OK

Calibration Equipment:

Brüel & Kjær's Sound Le	vel Meter Calibratio	n System B&k	く 9600 C2231_10, V	/er.03.11.1995
Description:	Make & Model:	Serial No. :	Last Cal. Date:	Traceable To
Digital Multi-meter	Datron 1281	27361	08 Oct 2003	HKSCL(HOKLAS)
Sine/Noise Generator	B&K 1049	1314978	Test	B&K Conformance
Test Waveform Generator	B&K 5918	1482949	Test	B&K Conformance
Acoustical Calibrator	B&K 4226	1551627	22 Jun, 2004	NPL via B&K (UKAS)

Calibrated By: No X No Date: 10 September, 2004 Checked By: Date: 10 September, 2004

APPENDIX J

Detailed noise monitoring results

Details of Noise Impact Monitoring

	NSR	Time	periods	Weather	Avg. wind	l No	ina Lauri	ID/A)	1 1.0
Date	No.	Start	Finish	condition	speed (m/s)		ise Level		Influencing factors/
6-Jun-05	WN1	14:40	15:10	Fine	1.1	L _{eq} 68.7	L ₁₀	L ₉₀	Site condition
6-Jun-05	WN2	15:20	15:50	Fine	1.4	69.2	71.0	66.5	Normal Operation
6-Jun-05	WN6	9:15	9:45	Fine	2.2	69.4	72.0	67.0	Normal Operation
6-Jun-05	WN7	10:00	10:30	Fine	1.8		73.0	67.5	Normal Operation
6-Jun-05	WN8	10:35	11:05	Fine	1.8	68.5	72.0	66.5	Normal Operation
6-Jun-05	WN9	11:20	11:50	Fine	0.9	69.4	72.5	66.0	Normal Operation
6-Jun-05	WN10	13:00	13:30	Fine	1.5	70.7 69.5	73.0	68.0	Normal Operation
6-Jun-05	WN11	13:40	14:10	Fine	1	1	72.0	67.0	Normal Operation
6-Jun-05	WN12	13:25	13:55	Fine	1.3 1.3	69.3	73.0	66.5	Normal Operation
6-Jun-05	WN13	15:00	15:30	Fine	1.4	69.7	73.5	63.0	Normal Operation
6-Jun-05	WN14	9:15	9:45	Fine	1	70.4	73.5	64.0	Normal Operation
6-Jun-05	WN15	10:10	10:40	Fine	1.4 1.5	70.3	73.5	62.5	Normal Operation
6-Jun-05	WN16	11:05	11:35	Fine	1	72.0	78.0	62.5	Normal Operation
16-Jun-05	WN1	13:30	14:00	Cloudy	1.2	74.5	77.5	73.0	Normal Operation
16-Jun-05	WN2	14:15	14:45	Cloudy	1.6	70.6	72.5	68.5	Normal Operation
16-Jun-05	WN6	9:45	10:15		1.6	70.0	71.5	68.0	Normal Operation
16-Jun-05	WN7	10:30	11:00	Cloudy	2.6 2.3	71.8	73.0	70.0	Normal Operation
16-Jun-05	WN8	11:10	11:40	Cloudy		69.4	71.5	66.5	Normal Operation
16-Jun-05	WN9	15:15	15:45	Cloudy	1.8	70.1	72.0	67.5	Normal Operation
16-Jun-05	WN10	10:10	10:40	Cloudy	1.4	72.3	74.0	70.0	Normal Operation
16-Jun-05	WN11	15:55	1	Cloudy	1.6	69.8	72.5	67.0	Normal Operation
16-Jun-05	WN12	11:20	16:25 11:50	Cloudy	1.8	69.2	71.5	67.5	Normal Operation
16-Jun-05	WN13	10:40	11:10	Cloudy	1.9	69.6	72.5	66.0	Normal Operation
16-Jun-05	WN14	15:30	16:00	Cloudy	2.1	70.1	72.5	66.0	Normal Operation
16-Jun-05	WN15	13:30	14:00	Cloudy	1.7	68.9	72.0	65.5	Normal Operation
16-Jun-05	WN16	9:20	9:50	Cloudy Cloudy	1.6	70.6	74.0	68.5	Normal Operation
22-Jun-05	WN1	14:15	14:45	Cloudy	1.5	73.8	77.3	71.5	Normal Operation
22-Jun-05	WN2	15:00	15:30	,	1.9	69.0	71.5	67.5	Normal Operation
22-Jun-05	WN6	10:00	10:30	Cloudy Cloudy	1.8	68.4	71.0	66.5	Normal Operation
22-Jun-05	WN7	10:40	11:10	Cloudy	2.6 2.0	70.3	72.0	68.5	Normal Operation
22-Jun-05	WN8	11:30	12:00	Cloudy	2.0 2.1	69.6	72.0	68.0	Normal Operation
22-Jun-05	WN9	13:15	13:45	Cloudy	∠. i 1.5	69.4	71.5	68.5	Normal Operation
22-Jun-05	WN10	9:00	9:30	Cloudy	1.9	70.8 69.2	72.5	69.0	Normal Operation
22-Jun-05	WN11	9:40	10:10	Cloudy	1.9	68.9	71.5	68.0	Normal Operation
22-Jun-05	WN12	15:30	16:00	Cloudy	1.7		70.5	67.0	Normal Operation
22-Jun-05	WN13	13:50	14:20	Cloudy	1.7	69.9	73.0	67.5	Normal Operation
22-Jun-05	WN14	9:30	10:00	Cloudy	1.4	71.1 68.1	73.5	66.5	Normal Operation
22-Jun-05	WN15	10:20	10:50	Cloudy	2.0	68.8	70.5	65.0	Normal Operation
22-Jun-05	WN16	11:00	11:30	Cloudy	2.0	70.4	71.5	67.5	Normal Operation
28-Jun-05	WN1	14:30	15:00	Fine	1.8	64.6	72.5	68.0	Normal Operation
28-Jun-05	WN2	15:05	15:35	Fine	1.6		66.1	62.1	Normal Operation
28-Jun-05	WN6	15:55	16:25	Fine	2.3	65.0	67.1	63.6	Normal Operation
28-Jun-05	WN7	16:35	17:05	Fine	2.3	68.4	70.1	67.1	Normal Operation
28-Jun-05	WN8	13:00	13:30	Fine	1.5	64.2 67.8	66.6	62.1	Normal Operation
28-Jun-05	WN9	11:15	11:45	Fine	1.0		70.1	66.1	Normal Operation
28-Jun-05	WN10	10:00	10:30	Fine	1.0	71.4 68.0	73.6	70.1	Normal Operation
28-Jun-05	WN11	10:00	10:35	Fine	1.8	67.8	70.1	66.6	Normal Operation
28-Jun-05	WN12	9:35	10:45	Fine	1.3		69.6	66.1	Normal Operation
28-Jun-05	WN13	9:00	9:30	Fine	1.7	68.3 68.5	70.6	66.1	Normal Operation
28-Jun-05	WN14	15:00	15:30	Fine	1.7		71.1	67.1	Normal Operation
28-Jun-05	WN15	14:00	14:30	Fine	2.6	69.8 72.4	62.1 73.6	67.6	Normal Operation
28-Jun-05	WN16	13:00	13:30	Fine	2.8	73.4	73.6 75.1	70.1	Normal Operation
		. 0.00	10.00	1 1115	۷.0	73,4	75.1	70.6	Normal Operation

I

APPENDIX K

Landscape and visual monitoring and audit report

Contract No. HY/99/18 Castle Peak Road Improvements between Sham Tseng and Ka Loon Tsuen

Landscape & Visual Audit and Monitoring Monthly Inspection Report No. 40 (June 2005)

Prepared by

URBIS LIMITED

Prepared by:

Tran Tuan Huy

4th July 2005

Approved by:

Alexande Dixogie

4th July 2005

1.0 INTRODUCTION

This is a Landscape and Visual Audit conducted to fulfill the requirements of the EIA during the Construction and Operational Phases of the project, and is based on the procedures and requirements as set out in the Castle Peak Road Improvements between Area 2 and Ka Loon Tsuen, Tsuen Wan - Environmental Monitoring and Audit Manual – West Contract.

Under the EIA, the proposed mitigation measures include both the planting works and treatment to structures. As stated in 6.4.2 of the EM & A, all measures undertaken by both the Contractor and the Landscape Contractor during the construction phase and the first 12 months of the operational phase shall be audited on a bi-weekly and bi-monthly basis respectively to ensure compliance with the intended aims of the mitigation measures.

2.0 SCOPE OF AUDIT

The broad scope of the audit on mitigation measures is as detailed below:

2.1 Planting Proposals

- Regular inspection of the agreed works areas to ensure no unnecessary intrusion by the Contractor outside the limit of the works;
- Regular review of the progress of engineering works to identify the earliest practical opportunity for the landscape works;
- Monitoring of tree transplanting and planting operations;
- Monitoring of works around the area of existing trees to be retained and protected:
- Monitoring of protection works for existing trees;
- Ensure planting works are carried out in accordance with the Specification and within the right planting season;
- Monitoring of the maintenance operations during the Establishment Period to ensure all plants are well watered and nutrients applied.

2.2 Standard Treatment to Structures

 Monitoring and review to ensure the proposed architectural treatments to retaining walls, viaducts, bridges, and noise barriers are implemented in accordance with the approved design, and where appropriate, to soften the hard edges to structures with planting works.

1.0 INTRODUCTION

This is a Landscape and Visual Audit conducted to fulfill the requirements of the EIA during the Construction and Operational Phases of the project, and is based on the procedures and requirements as set out in the Castle Peak Road Improvements between Area 2 and Ka Loon Tsuen, Tsuen Wan - Environmental Monitoring and Audit Manual – West Contract.

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2.0 SCOPE OF AUDIT

The broad scope of the audit on mitigation measures is as detailed below:

2.1 Planting Proposals

- Regular inspection of the agreed works areas to ensure no unnecessary intrusion by the Contractor outside the limit of the works;
- Regular review of the progress of engineering works to identify the earliest practical opportunity for the landscape works;
- Monitoring of tree transplanting and planting operations;
- Monitoring of works around the area of existing trees to be retained and protected;
- Monitoring of protection works for existing trees;
- Ensure planting works are carried out in accordance with the Specification and within the right planting season;
- Monitoring of the maintenance operations during the Establishment Period to ensure all plants are well watered and nutrients applied.

2.2 Standard Treatment to Structures

 Monitoring and review to ensure the proposed architectural treatments to retaining walls, viaducts, bridges, and noise barriers are implemented in accordance with the approved design, and where appropriate, to soften the hard edges to structures with planting works.

3.0 INSPECTIONS

3.1 Summary of Inspection – 9th June 2005

3.1.1 Matters Arising from Previous Inspections

- The Contractor had cleared away the scattered litter previously found at the area of footbridge FB-02.
- The Contractor had cleared away the construction waste piles previously found at NM-02, FB-02, and Slope 8 areas.
- Dry surface condition was observed at retaining wall RW-01 and Noise Mitigation NM-02 areas during the inspection. The Contractor was reminded to carry out more frequent watering of the site to prevent dust nuisance.

3.1.2 <u>Site Clearance and Formation Works</u>

- Construction waste piles were found at RW-01 area. The Contractor was requested to clear it away as soon as possible.
- Empty cement bags and scrap woodpiles were found at NM-02 area. The Contractor was requested to clear it away as soon as possible.
- Untidy site conditions were observed at the areas in front of existing slope 6SE-C/C25 and Sea Crest Villa (Phase 3). The Contractor was requested to tidy up these areas as soon as possible.
- Construction waste piles were found underneath footbridges FB-11 and FB-03.
 The Contractor was requested to clear it away as soon as possible.

3.1.3 <u>Tree Felling and Transplanting Works</u>

No tree transplanting works was carried out during the inspection period.

3.1.4 Recommendations

- The Contractor was reminded to clear away all scattered litter, garbage, etc. as found on site, and keep the site in a tidy condition at all times.
- The Contractor was reminded to carry out more frequent watering of the site during dry periods to prevent dust nuisance.
- A number of slopes that were completed last year are ready for planting works, the Contractor was recommend to carry out planting works as soon as possible.

3.2 Summary of Inspection – 23rd June 2005

3.2.1 <u>Matters Arising from Previous Inspections</u>

- The Contractor had cleared away the construction waste piles found at RW-01 area.
- The Contractor had cleared away the empty cement bags and scrap woodpiles found at NM-02 area. However, new construction waste and garbage pile was found, and the Contractor was requested to clear it away as soon as possible.
- The Contractor had tidied up the site area in front of Sea Crest Villa (Phase 3).
 However, tidy up of site area in front of existing slope 6SE-C/C25 was outstanding and the Contractor was requested to tidy up the area as soon as possible.
- The Contractor had cleared away the construction waste piles found underneath footbridges FB-11 and FB-03. However, new construction waste pile was found at footbridge FB-03 area, the Contractor was requested to clear it away as soon as possible.
- No dry surface condition was observed during the inspection.

3.2.2 Site Clearance and Formation Works

- A construction waste pile was found at footbridge FB-01 area. The Contractor was requested to clear it away as soon as possible.
- A construction waste pile was found at the entrance to Dragon Garden. The Contractor was requested to clear it away as soon as possible.

3.2.3 Tree Felling and Transplanting Works

No tree transplanting work was carried out during the inspection period.

3.2.4 Recommendations

- The Contractor was reminded to clear away all scattered litter, garbage, etc. as found on site, and keep the site in a tidy condition at all times.
- A number of slopes that were completed last year are ready for planting works, the Contractor was recommend to carry out planting works as soon as possible.

4.0 TREE TRANSPLANTING SURVIVAL RATE

4.1 Tree Transplanting Survival Rate

The tree transplanting survival rate as reported by the Contractor for the period up to the end of June is 100%.

5.0 AUDIT SCHEULE

5.1 Audit Schedule for July 2005

The next audits are schedule to be conducted on 7th and 21st July 2005.

APPENDIX L

Detail of the complaint

1 -

MAEDA CORPORATION

Enquiry / Complaint Follow Up Form	Enquiry	/ Com	plaint	Follow	Up Form
---	----------------	-------	--------	--------	---------

	99/18 - Castle Peak Ro	oad between Sha	m Tseng and Ka Lo	on Tsuen, Tsu	en Wan
Call Details					✓ Environmental
Log No	204	Туре	Complaint		Complaint
	Highways Department	Date	10-Jun-2005	Time	11:07 AM
Call Details					
lame el iddress		Organisation Fax		E-mail	Private Organization
U	HKHOWN				
Details of Eng	juiry / Complaint			W8	
ocation Se	ea Crest Villa Phase 4				
escription Obstructions a	and lots of mosquitoes are	found in the footwa	y near the captioned p	remises.	
Details of Acti	ion Taken	•			
Report to RE	Ms. Mable Leung	Date 14-Jun-	2005 Report Tin	ne 03:30 PM	Report By
Action by	C.K.Chan	Date 14-Jun-			Simon Li
(2) Realign exist	ean-up around the precast foo ting mill barriers to widen the priate insecticide.	otbridge deck. adjacent footway as fa	ar as possible.		
follow up by	-	Follow up date		Follow up time	-
ollow up		I			
-					
emarks					
Response to Hyl	D's ICC case: 1-58444639 red	ceived by Maeda on 1	3 June 2005.		

APPENDIX M

Log record on environmental complaints

·

Log Record on Environmental Complaints

No.	Date of Complaint	Description	Propopsed Actions	Completion	Remarks
	Received	·		Date	Keindiks
029	12-Aug-02	Complaint from Mr. Au regarding muddy water washing out from Kowloon Bound Lane from the construction site	Enlarge concrete paving at site entrance; further improvement to the existing temporary drainage system to minimise wash-off of waste water to the adjacent road; and make sure temporary water supply points are properly turned off during lunch break or other times when they are not in use.	16-Aug-02	
036	31-Aug-02	Complaint from Mrs. Chung regarding the generation of fugitive dust from the construction site in front of Tsing Lung Tau Village	Frequent watering of the related works area with the aid of water browser	31-Aug-02	
054	7-Dec-02	Complaint from Mr. Lo regarding the stagnant water ponding in front of the construction site at Sham Tseng	Explained to the complainant that the water ponding was a wheel washing bay	7-Dec-02	
067	3-Mar-03	Complaint from Hong Kong Garden Management Office regarding the noise from vehicular movement over the temporary road cover at Castle Peak Road provided by the Contractor	The Contractor has added extra welding to improve the rigidity of the temporary steel deck. The work was completed dring the off-peak hours in the period between 12-Mar-03 to 17-Mar-03.	. 17-Mar-03	The Contractor has taken noise readings and found that the noise level was within the baseline levels.
068	11-Mar-03	Complaint from Mr. Leung at Hong Kong Garden regarding the noise from evening road traffic, travelling over the steel decking plate on the adjacnt temporary road diversion.	The Contractor has added extra welding to improve the rigidity of the temporary steel deck. The work was completed dring the off-peak hours in the period between 12-Mar-03 to 17-Mar-03.	17-Mar-03	The Contractor has taken noise readings and found that the noise level was within the baseline levels.
070	6-Mar-03	Complaint from EPD regarding the reclamation works at Seawall B opposite to Hong Kong Garden on Sunday	The Contractor has previously informed the subcontractor of the statutory requirements as noise, dust emission, water discharge, and waste management. The Contractor agreed to keep vigilant in monitoring and survellance of the site and continue to remind the subcontractors of the statutory requirements.	10-Mar-03	The Contractor has formally closed all site area for the Chinese New Year. Entrances of all site area were barricaded before the Contractor's staff vacnated the sites on 30 January 2003.
070	6-Mar-03	Complaint from EPD regarding dust emission from the reclamation works at Seawall B opposite to Hong Kong Garden.	The Contractor has previously informed the subcontractor of the statutory requirements as noise, dust emission, water discharge, and waste management. The Contractor agreed to keep vigilant in monitoring and surveillance of the site and continue to remind the subcontractors of the statutory requirements.	10-Mar-03	The Contractor has investigated and confirmed that the marine works towards the eastern end of Seawall B was wet and the concreting works at the west end of the Seawall B were not dusty and no dust was emitted. Ground surface was also covered with crushed rock. The Contractor was also further reminded to spray water before and during unloading and moving of rock boulders and onto the haul road.
070		construction noise at Seawall B opposite to Hong Kong Garden.	The Contractor agreed to continuously monitor and review the operation in the vicinity opposite to Lung tang Court, in order to minimize the noise impact caused to the public. In addition the Contractor will respond to the complaints received on the 24- hours Contract Complaint Hotline 2496 2555 in the first instant.		No exceedance was recorded at the noise monitoring station WN6, WN7 and WN8 from January 2003 to March 2003. It was suspected that the noise was due to traffic noise together with operational noise of plant equipment at Seawall B. The Contractor was also reminded if reorganzation of working arrangement is necessary, mitigation proposal should be submitted to IC(E) for review. Additional noise monitoring shall also be conducted at the noise monitoring station WN8 once the mitigation proposal is implemented.

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Log Record on Environmental Complaints

	Date of		T	1	
No.	Complaint Received	Description	Propopsed Actions	Completion Date	Remarks
076	15-Apr-03	Complaint from Mr. Wong of TL 60 Management Limited regarding the noise nuisance generated from the vehicle movement over the temporary steel decking in front of Hong Kong Garden at Castle Peak Road provided by the Contractor.	The Contractor has replaced the isolated decking plate by 17 April 2003 and agreed to frequently inspect the condition of the steel decking. Further improvement works were completed on 25 April 2003.	25-Apr-03	
078	15-Apr-03	Complaint from Mr. Chau of Hong Kong Garden regarding the noise nuisance generated from vehicle movernent over the temporary steel plate in front of the premises.	The Contractor has explained to Mr. Chau that the improvement works were completed on 25 April 2003 and agreed to carry out daily inspection to check the condition of the steel plate.	29-Apr-03	The complainant agreed that the noise nuisance has abated.
080	5-May-03	Complaint from Mr. Tsao / Mr. Chan of Mbi Yuen, opposite to Bayside Villas regarding water leakage from the rocky slope behind his house and the damage of water pipes by cleaning works.	The water pipe was repaired on 9 May 2003. The Contractor has explained that the rocky slope was ouside the site boundary.	9-May-03	
082	7-May-03	Complaint from Ms. Chan regarding water ponding on existing footpath along Castle Peak Road near the Contractor's site office.	The Contractor has formed holes at existing upstand wall to drain off water trapped in the adjacent footpath and to patch up local depression at the affected footway with plain concrete.	19-May-03	
084	21-May-03		The Contractor has observed low-noise emission construction equipment were being used at the time of inspection and proposed to speed up the works to limit the duration of daytime construction noise impact. The Contractor has provided additional information in their letter ref. HY/99/18/M45/300/40/10229 dated 25 June 2003. Additional noise monitoring had been taken by the Contractor on 22 May 2003 at WN15 obtaining the result of 66.6dB(A), which was below the limit level of 75dB(A). After reviewing the findings and investigation details, the Contractor confirmed that no further remedial actions was required.	25-Jun-03	The Contractor was requested to submit mitigation proposal to IC(E) for review and to implement the mitigation proposal. Additional noise monitoring is required to be conducted at the noise monitoring station WN15 once the mitigation proposal is implemented. The IC(E) had no comment on the Contractor's findings. Since no mitigation measures were implemented, additional noise monitoring was not conducted.
086		in the drainage and wheel washing bay near the entrance of Sea Crest Villa Phase IV and the damage of road surface near L1 main gate and	Explained to the complainant that the stagnant water inside the wheel washing bay was for cleaning of vehicle. The leakage found the temporary water pipe was repaired. The water and silt trapped in the U-channel near the main entrance of the estate was removed and the kerb on west side of the run-in to Gate L1 was reinstated.		The Contractor will properly maintain the wheel washing facility, regularly inspect and clean the drainage channel and the gully pots near the main entrance of the estate. The damaged paving slab and cable pit near the power supply room will be restored to original condition after completion of the adjacent substructure works around mid August 2003.
088	3-Jun-03	Complaint from EPD regarding construction dust from Seawall B.	The Contractor proposed to place the concerned area under higher priority and endeavor to water the concerned haul road more frequently during dry days.		No rock breaking activity has been observed in site audits since 5 June 2003. The haul road at Seawall B was observed wetted in the site audits. The Contractor was reminded to provide water spraying if there is rock breaking activity in this vicinity.

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Log Record on Environmental Complaints

	Date of		T		T***
No.	Complaint Received	Description	Propopsed Actions	Completion Date	Remarks
088	3-Jun-03	Complaint from EPD regarding construction noise from Seawall B.	The Contractor reported that there may be occasional crashing noise for the piling works when rock level is reached. The Contractor has been providing mitigation measures, such as barrier and restriction of the rate of concerned works. The Contractor will also endeavor to expedite the works to reduce the duration of perceived daytime impact. The Contractor proposed to perform additional ad hoc inspections on Mondays, Wednesday and Fridays at the concerned area to confirm continual implementation of measures and to conduct additional noise monitoring where appropriate.	6-Jun-03	No rock breaking activity has been observed in site audits since 5 June 2003. Contractor has been reminded to submit mitigation proposal to IC(E) for review and to implement the mitigation proposal if provision of additional mitigation measures is required. The Contractor was also advised to provide portable noise barrier if there is rock breaking activity. Additional noise monitoring is also required to be conducted at the noise monitoring station WN8 once the mitigation proposal is implemented. The IC(E) had no comment on the Contractor's findings. Since no mitigation measures were implemented, additional noise monitoring was not conducted.
091	16-Jun-03	Complaint from Ms. Chan of Sea Crest Villa Phase 1 regarding noise from drilling works carried out at BPRW70 outside Sea Crest Villa Phase 1 before 07:00.	Upon investigation, the Contractor confirmed that there has been no construction work being conducted before 07:00. Nevertheless, the Contractor has scheduled the concerned work to be commenced at 08:00 as on 17 July 2003.	17-Jun-03	
092	16-Jun-03	Complaint from Mrs. Chung of Lido Garden regarding noise from drilling works carried out at BPRW70 opposite to Lido Garden before 07:00.	Upon investigation, the Contractor confirmed that there has been no construction work being conducted before 07:00. Nevertheless, the Contractor has scheduled the concerned work to be commenced at 08:00 as on 17 July 2003.	17-Jun-03	
097	27-Jun-03	Complaint from Mr Fok of Kai Shing Management Services regarding noise nuisance and the ponding of stagnant water arising from the construction activities outside Sea Crest Villa Phase III.	Upon investigation, the condition of water pumps installed separately at east end of the slope close to SCV Phase III and Pai Min Kok Stream Course has been checked. Noise generated from the ongoing construction works in these areas has been monitored. The rock breaking with jackhammer at PMK had been completed on 26 June 2003.		After further enquiry into the nature of the complaint, its appears that the complaint refers to the extended duration of construction works in the concerned area (i.e. inconvenienve caused due to lengthy works program). The Contrator's Mr Peter Ip has explained the nature of the works to the Management Office. There have been no further complaints from SCV Phase III since the briefing.
103	31-Jul-03	Complaint from Hong Kong Management Office regarding the noise generated by vehicles running over the steel decking plate on the Castle Peak Road close to Hong Kong Garden.	The existing steel decking plate had been repaired during off peak hours and regular inspection on the condition of steel plate and adjacent road surface was agreed to be conducted.		There had been no further complaints after the repair.
105		felt of all old trees along section of Castle Peak Road near Ma Wan Pier.	After investigation on the matter, it had been confirmed that the felling and the transplanting of group of trees along the Castle Peak Road near Ma Wan Pier had been carried out in compliance with approved plans and schedules. No follow up is required.	16-Aug-03	
108		Complaint from Mr Edith Lee of Sea Creat Vilta Phase I complained that it was very dusty at her house and she found that there was no water spraying at the construction site of the slope near Ma Wan Pier.	After investigation on the matter, water browser was arranged for spraying through the haul road. Rock breaking location would be sprayed directly connected from water supply point. To follow up the case, water browser would be arranged every 2 to 3 hours depends on drying up condition. A worker would be arranged for spraying water through out the rock breaking process.	11-Sep-03	

Log Record on Environmental Complaints

No.	Date of Complaint Received	Description	Propopsed Actions	Completion Date	Remarks
112	10-Oct-03	Complaint from Mr Cheung of FEHD that egarding the general refuse being accumulating on the pedestrian walkway between Sea Crest Villa Phase III and Phase II and the drainage channel at Pai Min Kok Village.			
114	25-Nov-03	received on 25 November 2003 regarding the muddy water found on the beach	An inspection for the concerned site area	26-Nov-03	-
115	30-Nov-03	of Sham Tseng Latrine was received on 30	An inspection for the concerned site area was carried out. The water ponding was confirmed to be overflow from the terminal manhole, which was a part of public latrine system. The maintenance of the public latrine and the associated systems were the responsibility of FEHD. The Contractor had contacted FEHD to follow up the issue.	1-Dec-03	
116	6-Dec-03	Office was received on 6 December 2003 regarding construction noise during early hours of 8:00am.	Inspection of concern area and no abnormal construction activities was found. The Contractor had explained to the Complainer that no statutory permit was required for construction work other than percussive piling at 8:00arn and the nature of works conducted at the area was well within permitted limits. ET was reminded the Contractor to implement noise mitigation proposal in accordance with EM&A Manual.	8-Dec-03	Noise generated from the ongoing construction works in these areas was monitored and no exceedance was found. As the Contractor had responded to the complainant and no further complaint was recorded, the Contractor proposed that no further remedial/ preventative measures were necessary.
123		TL60 Management Ltd	Condition of the decking plat was checked on 23 February 2004 and was repaired on 24 February 2004 during off peak hours.		Regular inspection will be conducted and adjacent works was be expedited to allow early road diversion for permanent removal of the steel plates.
139		Complaint from EPD was received on 9 July 2004 regarding noise arising from prescribed construction works or works using power mechanical equipment at night near Seawall-B area opposite to Hong Kong Garden	After investigation on the matter, there was no evidence of carrying out the prescribed constuction works or using power mechanical equipment between 1900 and 2300 on 3 July 2004.	23-Jul-04	
140	10-Jul-04	Complaint from Highway Department was received on 10 July 2004 regarding	After investigation on the matter, there vas no evidence of rock breaking activities undertaken in the vicinity of Sea Crest Villa Phase 3.	23-Jul-04	

Log Record on Environmental Complaints

No.	Date of Complaint	Description	Propopsed Actions	Completion Date	Remarks
149	Received 11-Aug-04	Complaint from EPD regarding the sandy wake of a marine vessel carrying sand to the beach reinstatement area of Seawall B	After investigation on the matter, the following action was proposed. The vessel and water depth should be thoroughly checked prior to sand placing. If shadow water need to be approached, another shallower vessel should be used. The land co-ordinator should cease the sand placing operation if muddy plumes were noticeable.	31-Aug-04	·
154	25-Aug-04	Complaint from Ms Tang regarding littering on the slope close to the Sea Crest Villa Phase 2.	After investigation on the matter, there was no evidence that the problem was caused by any construction activities.	27-Aug-04	
156	18-Sep-04	Complaint from Mr Chu regarding excessive garbage trapped along the adjacent shore of Seawall B west end.	It was out of control over the accumulation of floating rubbish drifting toward the shore. However, the contractor would remove them as soon as possible.	20-Sep-04	
166	4-Nov-04	Complaint from Mr Wong regarding the accumulation of foul ground and sewage waters in the trench in front of the strip of restaurants at Sharn Tseng.	Contractor placed a sludge separation plant to treat the accumulated water prior to discharge and pumped away the accumulated water as regularly as possible. An CNP has been attained for the pumping of concerned areas.	11-Nov-04	
172	5-Jan-05	Complaint from Mr Raymond Chan regarding the daytime construction noise started 7:30am over the past few days.	Contractor clarified with Mr Chan that construction work at 7:30am was within regulation guidelines. However, the contractor still agreed to arrange noisy activities be carried out after 8:00am.	5-Jan-05	
175	28-Jan-05	Complaint from Mr Kan regarding the rubbish discarded at the finished RERW slopes and Outfalls opposite to Sea Crest Villa Phase II and III.	Contractor inspected the concerned area, taken photographs and carry out maintenance works as requested.	31-Jan-05	
193		Highways Department regarding the daytime noise generated from the use of power mechanical equipment during the hours between 8am to 12am near Sea Crest Villa	Contractor responded to the complainant that daytime construction noise generated from activities was well within the guidelines of prevailing standards and promise to look for opportunities to disperse noisy works more evenly throughout the day and make appropriate improements to works schedudling for the concerned works wherever practicable.	4-May-05	
194		complaint was received on 10 June 2005 regarding the obstructions and	Thorough cleaning up around the precast footbridge deck;Realigning the existing mill barriers to widen the adjacent footbridge deck; and Spaying appropriate insecticide.	14-Jun-05	

1. INTRODUCTION

Ove Arup & Partners Hong Kong Limited (Arup) was appointed by the Contractor - Maeda Corporation (MC) as the Environmental Team (ET) for Contract No. HY/99/18 Castle Peak Road Improvements between Sham Tseng and Ka Loon Tsuen, Tsuen Wan (hereafter called the "Project"). Environmental parameters including air quality, construction noise, water quality and landscape & visual issues were selected for impact monitoring for the Project. The major construction period of the Project are anticipated as 45 months from December 2001 to August 2005.

1.1 Project Background

The Castle Peak Road improvements works consists of upgrading the existing Castle Peak Road to provide a dual two-lane carriageway of "Rural Road A" classification between Area 2, Tsuen Wan and Ka Loon Tsuen, and all associated utility, junction and pedestrian facilities. The Castle Peak Improvement project is divided into three contracts. This Environmental Monitoring and Audit (EM&A) exercise only concerns the West Contract No. HY/99/18 between Sham Tseng and Ka Loon Tsuen, Tsuen Wan. Figure 1-1 shows the site location plan and the detailed site layout plans are provided in Appendix A.

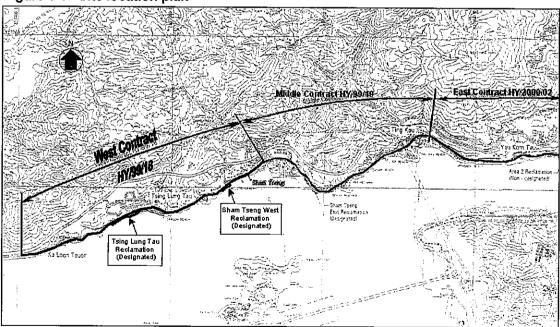
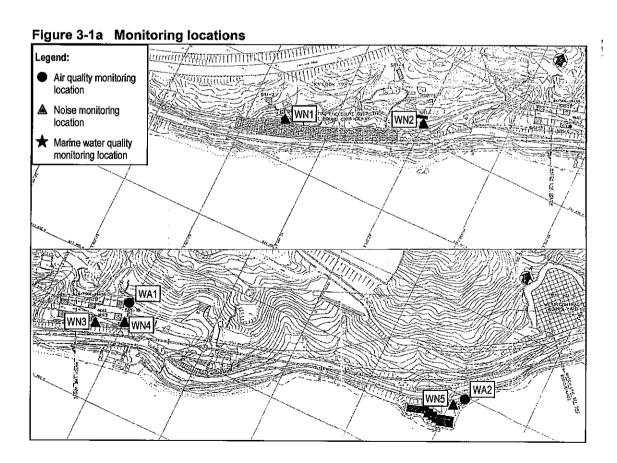


Figure 1-1 Site location plan

Table 3-5b Water quality monitoring locations (New)

Water Monitoring S	Itation No.	Location		
water monitoring c	ration No.	Eastings	Northings	
Tsing Lung Tau	WW1 (Impact Station)	822306	824405	
	WW2 (Impact Station)	822377	824462	
	WW3 (Impact Station)	822529	824500	
	WW4 (Impact Station)	822775	824560	
	WR-E-1234 (Control Station for Mid-Ebb Tide)	822204	824312	
	WR-F-1234 (Control Station for Mid-Flood Tide)	822850	824519	
Angler's Beach:	WW5 (Impact Station)	823700	824905	
Sham Tseung West	WW6/7 (Impact Station)	823797	824964	
	WW8 (Impact Station)	823900	825023	
	WR-E-5678 (Control Station for Mid-Ebb Tide)	823590	824830	
	WR-F-5678 (Control Station for Mid-Flood Tide)	823994	825034	
Ma Wan Fish Culture Zone	FCZ1 (Impact Station)	823500	823870	



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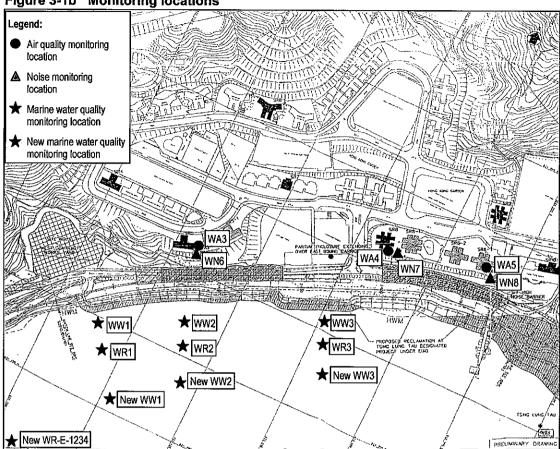
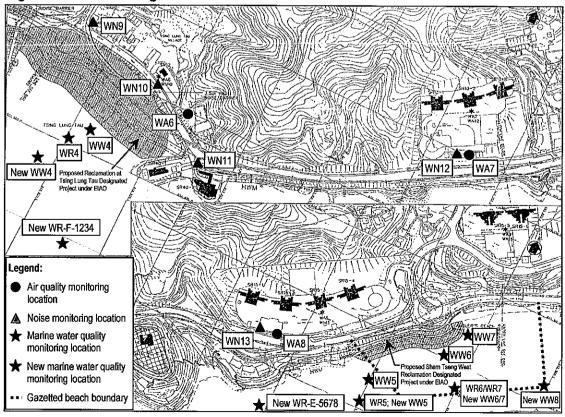


Figure 3-1c Monitoring locations



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Figure 3-1d Monitoring locations

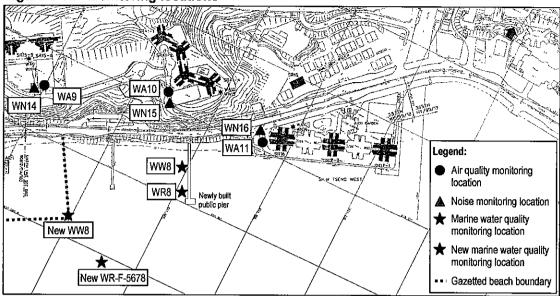
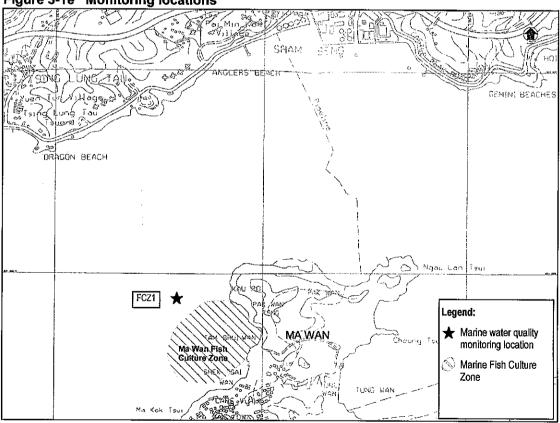


Figure 3-1e Monitoring locations



4.3 Results and Observations

4.3.1 Weather conditions and other factors

No adverse weather conditions, in particular adverse wind speed and wind direction that may significantly affect or invalidate the collected air quality monitoring data, were registered during the reporting period.

Neither unusual operation of the construction site nor abnormal TSP source was observed during the reporting period.

4.3.2 Summary of Results

1-hour TSP

A total of 5 sets of 3 consecutive 1-hour TSP measurements were conducted on 6, 10, 16, 22 and 28 June 2005.

The highest 1-hour TSP level of 337.8 μ g/m³ was recorded at G/F, Regent Height, Hong Kong Garden (WA4) on 10 June 2005 while the lowest 1-hour TSP level of 67.3 μ g/m³ was recorded at Car Park L3, Block 6, Phase 2, Sea Crest Villa (WA9) on 16 June 2005. There was no exceedance of the A/L Levels during the monitoring period.

Detailed monitoring results of 1-hour TSP are given in Appendix F and graphical presentation of the 1-hour TSP levels at each monitoring location is illustrated in Figure 4-1.

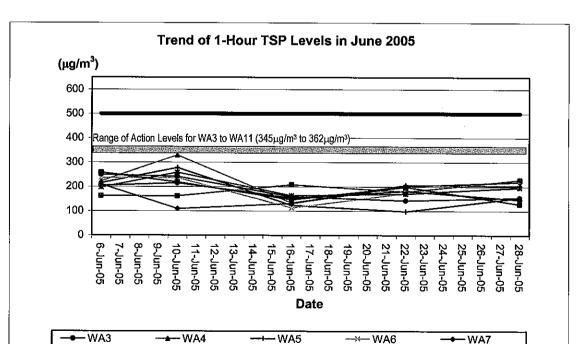


Figure 4-1 Graphical Presentation of 1-Hour TSP Levels for June 2005

WA8

◆ WA10

■ WA11

-- WA9

Limit Level

24-hourTSP

A total of 5 sets of 24-hour TSP measurement had been taken on 3, 9, 15, 21 and 27 June 2005.

The highest 24-hour TSP level of 144.6 µg/m³ was recorded at G/F, Tsing Lung Tau Temple (WA6) on 3 June 2005 while the lowest 1-hour TSP level of 19.1 µg/m³ was recorded at Podium, Block 1, Phase 1, Sea Crest Villa (WA10) on 15 June 2005. There was no exceedance of the A/L Levels during the monitoring period.

Detailed monitoring results of 24-hour TSP are given in Appendix F and graphical presentation of the 24-hour TSP levels at each monitoring location is illustrated in Figure 4-2.

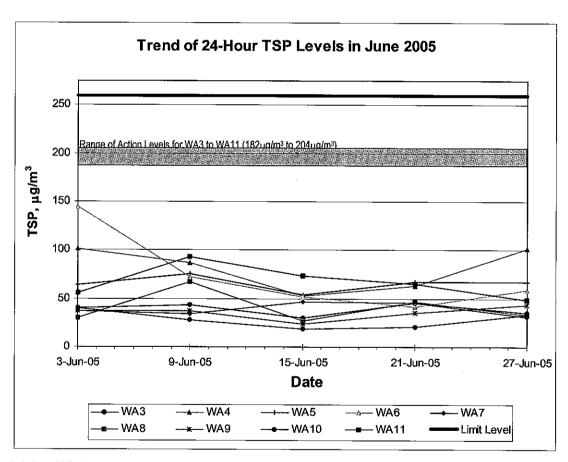


Figure 4-2 Graphical Presentation of 24-Hour TSP Levels in June 2005

4.3.3 Wind Monitoring Data

Detailed wind monitoring data for the June 2005 are extracted from Hong Kong Observatory – Tsing Yi Wind Monitoring Station and presented in Appendix H.

The National Physical Laboratory in Teddington, London, which is accredited by National Measurement accreditation Service (NAMAS), annually calibrates the B&K calibrator model no. 4226. All in-house calibrations that are undertaken can be traced back to the National Physical Laboratory. The calibration certificates of the noise monitoring equipment are given Appendix I. The next calibration will be conducted on or before 15 July 2005 for the sound level meters and the acoustical calibrators.

5.3 Results and Observations

5.3.1 Weather Conditions and Other Factors

No adverse weather conditions, in particular adverse wind speed & wind direction and fog & rain that may significantly affect or invalidate the collected noise monitoring data, were registered during the reporting period.

Neither unusual operation of the construction site nor abnormal noise source was observed during the reporting period.

5.3.2 Summary of Results

A total of 4 set of noise measurement had been conducted between 0700-1900 hours on 6, 16, 22 and 28 June 2005.

The highest noise level of 74.5 dB(A) was recorded at G/F, Carpark, Lido Garden Tower 1 (WN16) on 6 June 2005 while the lowest noise level of 64.2 dB(A) was recorded at G/F, Hong Kong Garden (Between Blk 1 & 2) (WN7) on 28 June 2005.

Detailed construction noise monitoring results are given in Appendix J and graphical presentation of the noise levels at each monitoring location is illustrated in Figure 5-1.

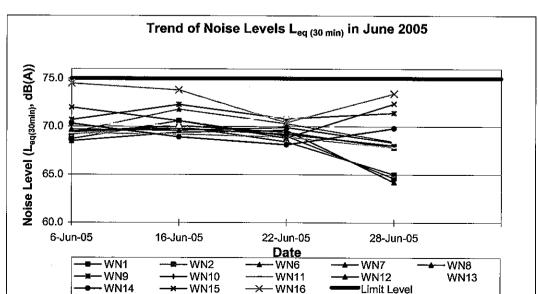


Figure 5-1 Graphical Presentation of Day-time Noise Levels in June 2005