

Maeda Corporation

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

Quarterly Environmental
Monitoring and Audit
Summary Report
November 2004 to
January 2005

Second 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

Quarterly Environmental Monitoring and Audit Summary Report

November 2004 to January 2005

February 2005

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Dear Mr. Tsoi

Contract HY/99/18 West Contract

**Castle Peak Road Improvement between Sham Tseng and Ka Loon Tsuen, Tsuen Wan
Quarterly EM&A Report (November 2004 to January 2005)**

We refer to the electronic version of the captioned report submitted by your Mr. Angus Choi via e-mail on 4 February 2005 and subsequent revised page on 7 February 2005. We do not have further comment and endorsed the report.

Yours sincerely

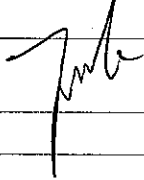


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ABBREVIATIONS AND ACTONYMS

A/L	Action or Limit Levels
AQO	Air Quality Objectives
Arup	Ove Arup & Partners Hong Kong Limited
ASR	Area Sensitive Rating
B&K	Brüel & Kjær
CFM	Cubic Feet per Minute
CNP	Construction Noise Permit
CT	Contractor
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
IEC	International Electrotechnical Commission Publications
K	Degrees Kelvin
MC	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 twelfth quarterly environmental monitoring and audit (EM&A) summary report summarising the site inspection findings, air quality, noise impact and landscape and visual monitoring and audit works for the period from November 2004 to January 2005.

Monitoring works included air quality monitoring at 9 locations and noise monitoring at 13 locations. Air quality was recorded in terms of 1-hour Total Suspended Particulates (TSP) and 24-hour TSP. Noise was measured in terms of $L_{eq(30min)}$ with L_{10} and L_{90} measurements as references.

Air Quality

The highest 1-hour TSP level was $316.4\mu g/m^3$ recorded at G/F of Carpark, Lido Garden (WA11) on 12 January 2005 while the lowest 1-hour TSP level was $101.1\mu g/m^3$ recorded at Podium of Sea Crest Villa Phase 1 Block 1 (WA10) on 1 November 2004. There was no exceedance of Action and Limit Levels in the reporting period.

The highest 24-hour TSP level was $297.8\mu g/m^3$ recorded at Tsing Lung Tau Temple (WA6) on 10 November 2004 while the lowest 24-hour TSP level was $37.6\mu g/m^3$ recorded at G/F of Regent Heights, Hong Kong Garden (WA3) on 21 November 2004. There were three exceedances of Action and Limit Levels in the reporting period.

Noise

The highest noise level was 73dB(A) recorded at Lido Garden (WN16) on 3 January 2005 while the lowest noise level was 61dB(A) recorded at Podium of Sea Crest Villa Phase 3 Block 8 (WN13) on 9 December 2004. There was no exceedance of the A/L Levels during the monitoring period.

Marine Water Quality

The sand placement activities at Seawall B were ceased in August 2004. No marine water quality was conducted for the period from November 2004 to January 2005.

Landscape and Visual

A total of 6 times of the landscape and visual monitoring and audits had been carried out in the reporting period by a Registered Landscape Architect. Frequently watering and tidying up of the construction site had been suggested after the landscape and visual monitoring and audits. The CT was informed of the recommendations for action.

Waste Disposal

A total of 65 loads of Construction & Demolition (C&D) waste had been disposed of at WENT Landfill in the reporting period. A total of 4,296 loads of C&D fill materials (Public Fill) had

been disposed of at Public Filling Area in Tuen Mun by dump trucks in the reporting period. There was no chemical waste disposed of in the reporting period.

Complaint Records

A total of 3 environmental complaints, regarding accumulation of foul ground and sewage waters in the trench in front of the strip of restaurants at Sham Tseng, daytime construction noise and the rubbish discarded at the finished RERW slopes and outfalls opposite to Sea Crest Villa Phase II and III, were received in the reporting period. The complaints had been resolved after investigation.

Non-compliance

There were three non-compliances for air quality in November 2004. However, no non-compliance of noise monitoring was recorded during the reporting period.

Comments

The environmental performance of the Contractor during the reporting period was acceptable. Upon advised by the ET, remedial measures had been taken to mitigate the environmental impacts caused by the construction activities. EM&A programme had been conducted as planned in the reporting period.

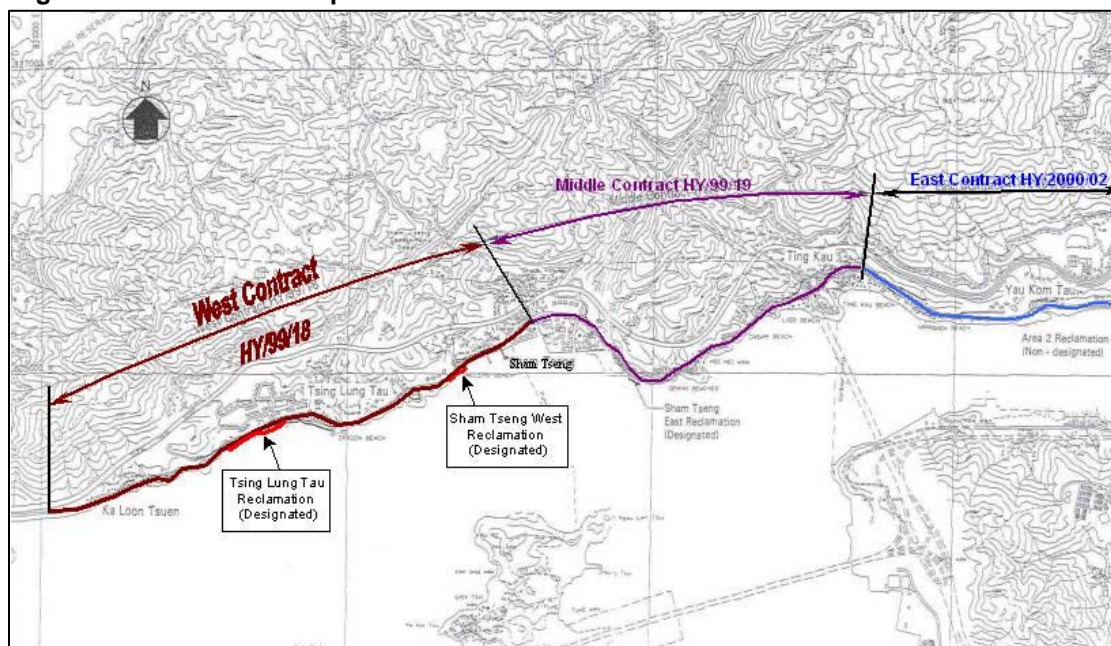
1. INTRODUCTION

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 contract period of the Project are anticipated as 43 months from December 2001 to June 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.

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 are 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 quarterly EM&A summary report is to summarise and provide the information on monitoring methodology, monitoring results, environmental permit status, site audit findings, recommendations and conclusions for the period from November 2004 to January 2005.

2. ENVIRONMENTAL STATUS

2.1 Construction Programme

The construction work was commenced in February 2002. The updated construction programme is given in Appendix A.

2.2 Construction Activities of the Quarter

The major construction activities carried out by the Contractor (CT) in the reporting period included excavation, backfilling, rock breaking, rock drilling; construction of outfalls, footbridge and noise barrier; road diversion, and installation of utilities and retaining walls.

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 impact monitoring, and audit shall be performed by an ET at all specified monitoring locations during the construction and operational stages.

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 according to the EM&A Manual. The monitoring parameters and frequencies 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 were 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)
WA2	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)
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)

Air Monitoring Station No.	Location	Location description
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 had been evacuated 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.

3.2 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 according to 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	Leq(30 min)	Once per week	1
Between 1900-2300 hours on normal weekdays	Leq(5 min)*		3 (consecutive)
Between 2300-0700 hours of next day			
Between 0700-1900 hours on holidays			

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

3.2.3 Monitoring Locations

A total of sixteen noise monitoring locations were specified. They are given in Table 3-4 and presented in Figures 3-1a to 3-1d. The measurements shall be 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
WN1	Ka Loon Tsuen	House No.3, Ka Loon Tsuen
WN2	Ka Loon Tsuen	House No.15, Ka Loon Tsuen
WN3	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)

Noise Monitoring Station No.	Location	Monitoring Point
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 had been evacuated 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 will be conducted thrice per week, during mid-flood and mid-ebb tides and at sixteen designated sampling locations. 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 3.4). 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 had been selected for marine water quality monitoring and the locations are given in Table 3-5 and presented in Figure 3-1b to 3-1e.

Table 3-5 Water quality monitoring locations

Water Monitoring Station No.		Location	
		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: Sham Tseung West	WW5 (Impact Station)	823700	824905
	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

Figure 3-1a Monitoring locations

Figure 3-1b Monitoring locations

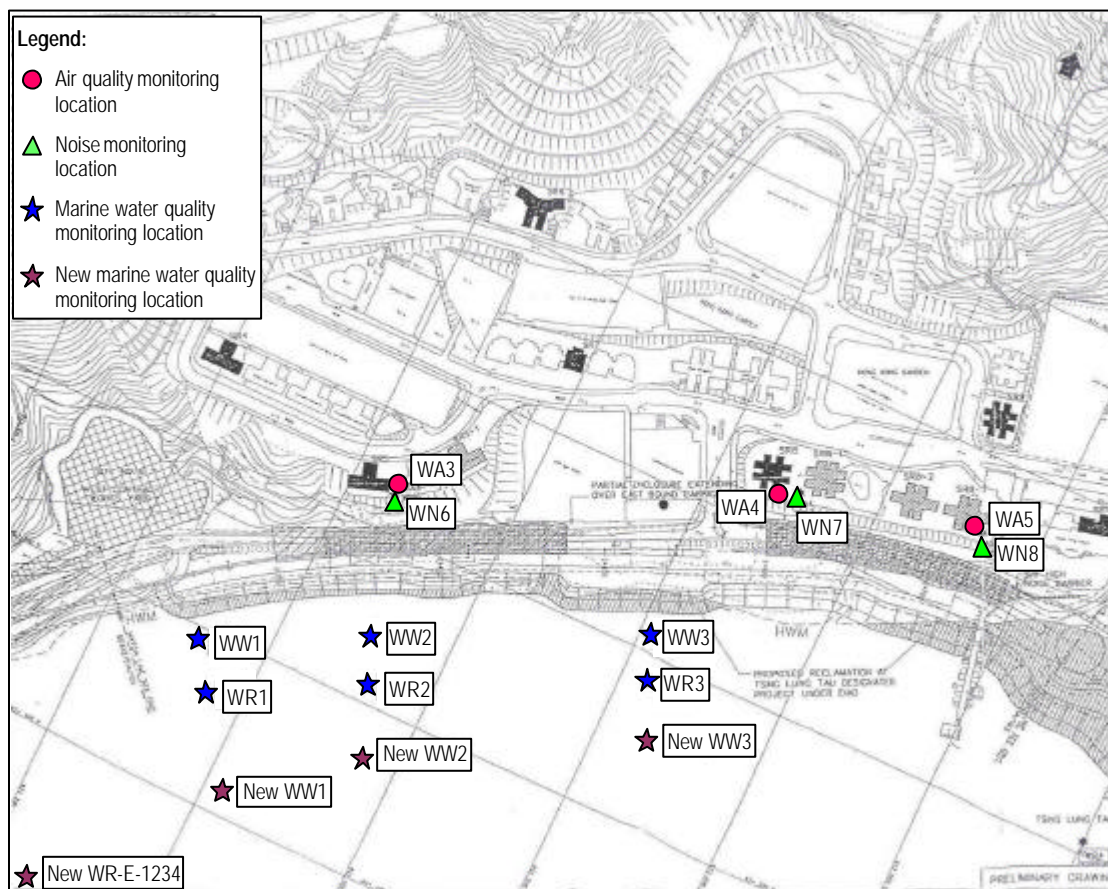


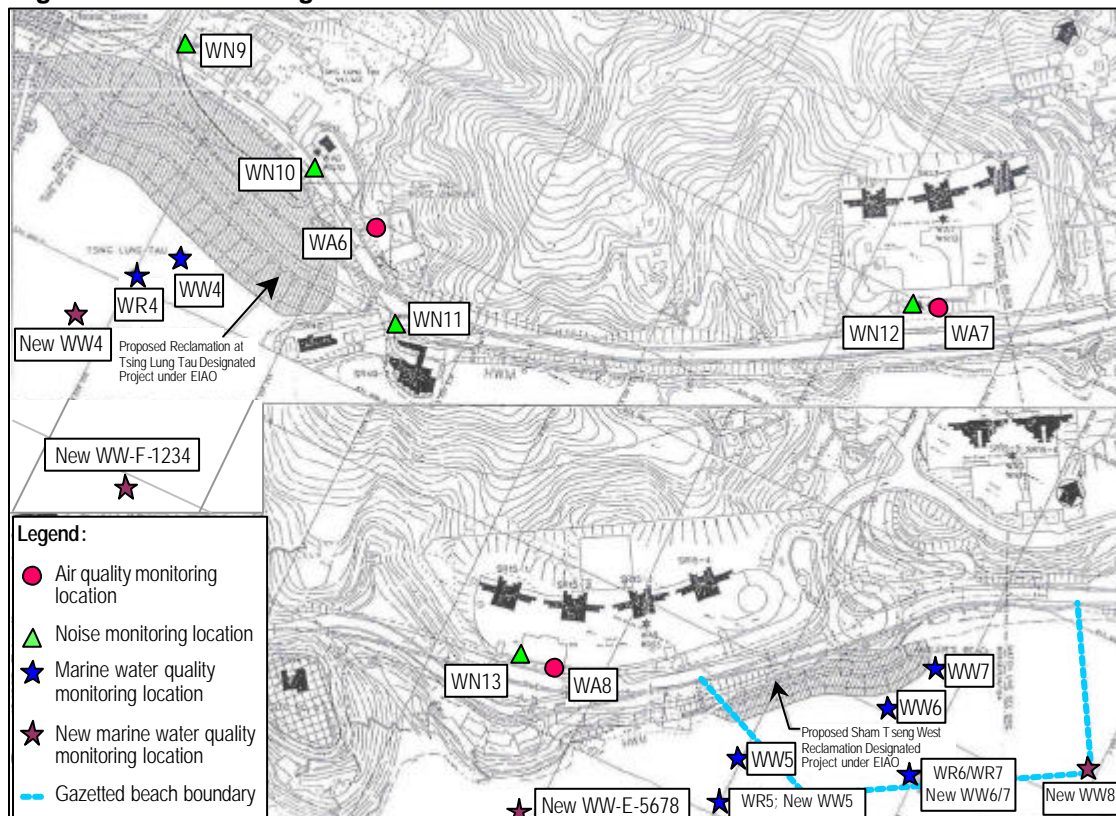
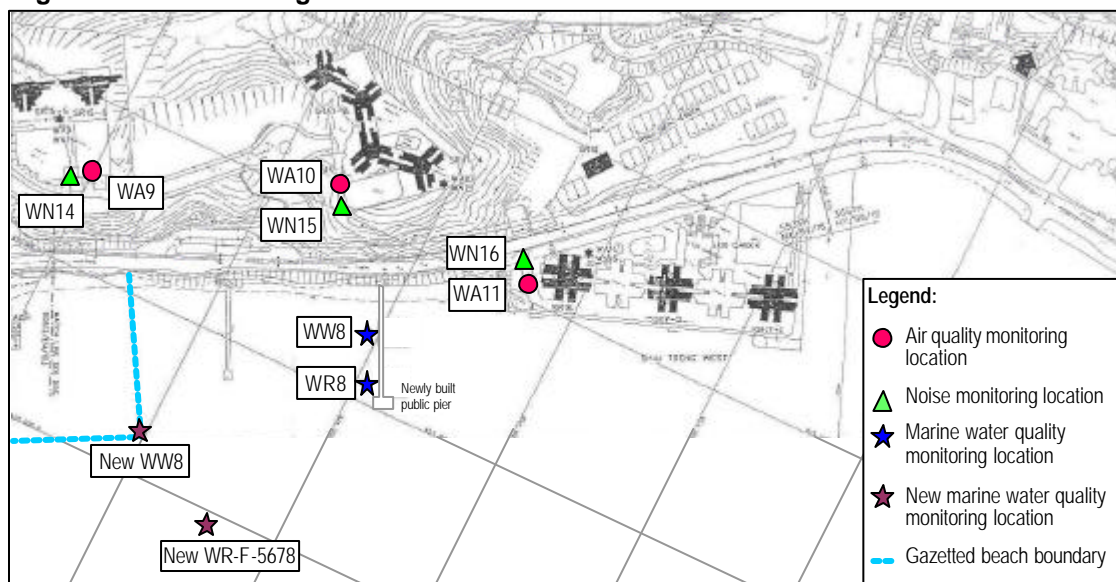
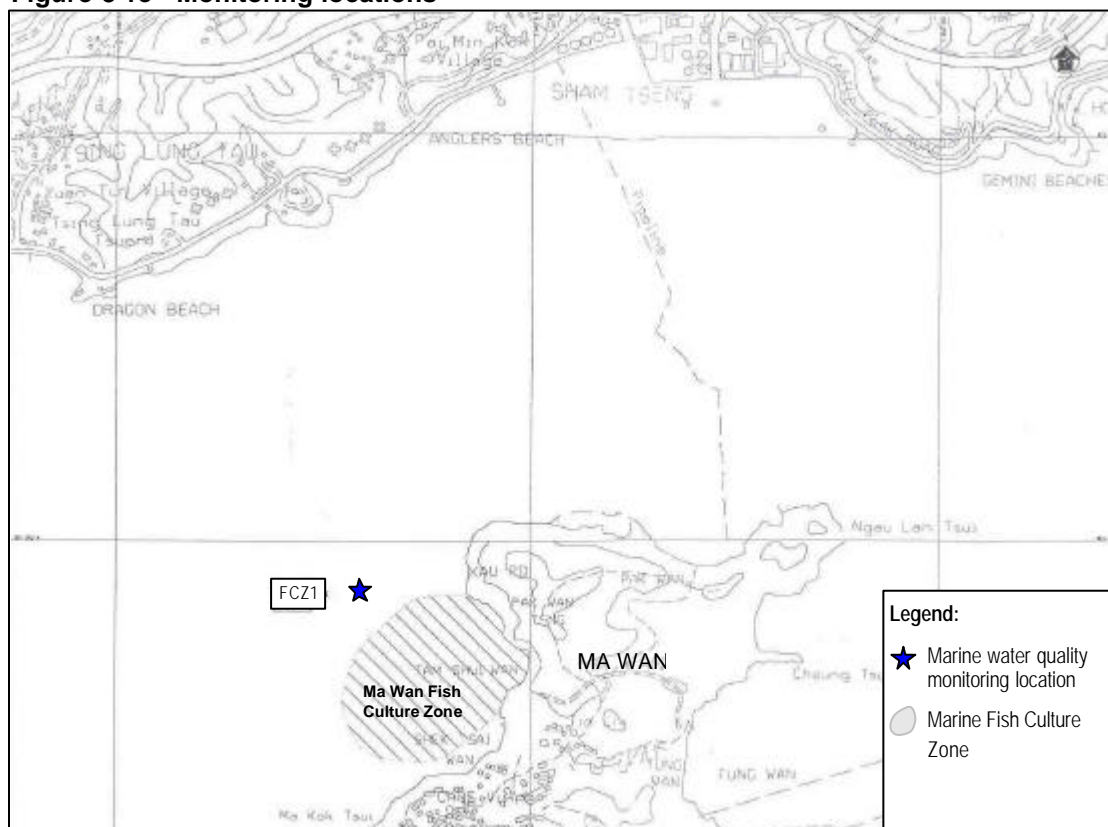
Figure 3-1c Monitoring locations**Figure 3-1d Monitoring locations**

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 were 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 was 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 was conducted throughout the entire site area.

3.5 Performance Limits and Event-Action Plans

The monitoring results were checked against appropriate standards and requirements. A two-tier system performance limits had 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 Station No.	1-hour TSP Level in $\mu\text{g}/\text{m}^3$		24-hour TSP Level in $\mu\text{g}/\text{m}^3$	
	Action Level	Limit Level	Action Level	Limit Level
WA1	350	500	187	260
WA2	362		192	
WA3	353		190	
WA4	362		187	
WA5	346		185	
WA6	362		204	
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.

Table 3-7 Event/Action plan for air quality

Event	Action			
	ET Leader	IC(E)	ER	Contractor
Action Level				
1. Exceedance for one sample	1. Identify the source. 2. Inform the IC(E) and the ER. 3. Repeat measurement to confirm finding. 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by the ET Leader. 2. Check Contractor's working method.	1. Notify Contractor.	1. Rectify any unacceptable practice. 2. Amend working methods if appropriate.
2. Exceedance for two or more consecutive samples	1. Identify the source. 2. Inform the IC(E) and the ER. 3. Repeat measurements to confirm findings. 4. Increase monitoring frequency to daily. 5. Discuss with the IC(E) and the Contractor on remedial actions required. 6. If exceedance continues, arrange meeting with the IC(E) and the ER. 7. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by the ET Leader. 2. Check the Contractor's working method. 3. Discuss with the ET Leader and the Contractor on possible remedial measures. 4. Advise the ER on the effectiveness of the proposed remedial measures. 5. Supervisor implementation of remedial measures.	1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Ensure remedial measures properly implemented.	1. Submit proposals for remedial actions to IC(E) within 3 working days of notification. 2. Implement the agreed proposals. 3. Amend proposal if appropriate.
Limit Level				
1. Exceedance for one sample	1. Identify the source. 2. Inform the ER and the EPD. 3. Repeat measurement to confirm finding. 4. Increase monitoring frequency to daily. 5. Assess effectiveness of Contractor's remedial actions and keep the IC(E), the EPD and the ER informed of the results.	1. Check monitoring data submitted by the ET Leader. 2. Check the Contractor's working method. 3. Discuss with the ET Leader and the Contractor on possible remedial measures. 4. Advise the ER on the effectiveness of the proposed remedial measures. 5. Supervisor implementation of remedial measures.	1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Ensure remedial measures properly implemented.	1. Take immediate action to avoid further exceedance. 2. Submit proposals for remedial actions to IC(E) within 3 working days of notification. 3. Implement the agreed proposals. 4. Amend proposal if appropriate.
2. Exceedance for two or more consecutive samples	1. Notify the IC(E), the ER, the EPD and the Contractor. 2. Identify the source. 3. Repeat measurements to confirm findings. 4. Increase monitoring frequency to daily. 5. Carry out analysis of the Contractor's working procedures to determine possible mitigation to be implemented. 6. Arrange meeting the IC(E) and the ER to discuss the remedial actions to be taken. 7. Assess effectiveness of the Contractor's remedial actions and keep the IC(E), the EPD and the ER informed of the results. 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst the ER, the ET Leader and the Contractor on the potential remedial actions. 2. Review the Contractor's remedial actions whenever necessary and advise the ER accordingly. 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. In consultation with the IC(E), agree with the remedial measures to be implemented. 4. Ensure remedial measures are properly implemented. 5. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance. 2. Submit proposals for remedial actions to IC(E) within 3 working days of notification. 3. Implement the agreed proposals. 4. Resubmit proposals if problem still not under control. 5. Stop the relevant activity of works as determined by the ER until the exceedance is abated.

3.5.2 Construction Noise Impact

The action and limit levels for the construction noise have been established in accordance with the Baseline Monitoring Report^[2] and 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	When one documented complaint is received	75dB(A) ⁽¹⁾
19:00 – 23:00 hours on all days and 07:00 – 23:00 on general holidays (including Sundays)		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: $L_{eq(30min)} = 10 \log (10^{m/10} - 10^{b/10})$ as $m = \text{Measured } L_{eq(30min)}$, $b = \text{Average Baseline } L_{eq(30min)}$. 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.

Table 3-9 Event/Action plan for construction noise

Event	Action			
	ET Leader	IC(E)	ER	Contractor
Action Level	<ol style="list-style-type: none"> 1. Notify the IC(E) and the Contractor. 2. Carry out investigation. 3. Report the results of investigation to the IC(E) and the Contractor. 4. Discuss with the Contractor and formulate remedial measures. 5. Increase monitoring frequency to check mitigation measures. 	<ol style="list-style-type: none"> 1. Review with analysed results submitted by the ET. 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly. 3. Supervise the implement of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Require the Contractor to propose remedial measures for the analysed noise problem. 4. Ensure remedial measures are properly implemented. 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IC(E). 2. Implement noise mitigation proposals.
Limit Level	<ol style="list-style-type: none"> 1. Notify the IC(E), the ER, the EPD and the Contractor. 2. Identify the source. 3. Repeat measurement to confirm findings. 4. Increase monitoring frequency. 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented. 6. Inform the IC(E), the ER, and the EPD the causes & actions taken for the exceedances. 7. Assess effectiveness of the contractor's remedial actions and keep the IC(E), the EPD and the ER informed of the results. 8. If exceedance stops, cease additional monitoring 	<ol style="list-style-type: none"> 1. Discuss amongst the ER, the ET Leader and the Contractor on the potential remedial actions. 2. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Require the Contractor to propose remedial measures for the analysed noise problem. 4. Ensure remedial measures are properly implemented. 5. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance. 2. Submit proposals for remedial actions to IC(E) within 3 working days of notification. 3. Implement the agreed proposals. 4. Resubmit proposals if problem still not under control. 5. Stop the relevant activity of works as determined by the ER until the exceedance is abated.

3.5.3 Water Quality

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.

Table 3-10 Action and Limit Levels of water quality

Parameters		Monitoring Location			
		WW1 to WW8		FCZ1	
		Action Level	Limit Level	Action Level	Limit Level
Mid-Ebb					
DO (mg/L)	Surface & Middle	4.9	4.8	4.7	4.6
	Bottom	4.8	4.8	4.0	4.0
SS (mg/L) (Depth-averaged)		17.0	23.4	For EPD: 12.9 For AFCD: 12.9 and 120% of upstream control station's SS at the same tide of the same day	For EPD: 14.0 For AFCD: 14.0 and 130% of upstream control station's SS at the same tide of the same day
Tby (NTU) (Depth-averaged)		12.0	13.6	For EPD: 9.1 For AFCD: 9.1 and 120% of upstream control station's Tby at the same tide of the same day	For EPD: 10.3 For AFCD: 10.3 and 130% of upstream control station's Tby at the same tide of the same day.
Mid-Flood					
DO (mg/L)	Surface & Middle	4.3	4.2	4.5	4.4
	Bottom	4.3	4.1	4.1	4.1
SS (mg/L) (Depth-averaged)		25.3	28.7	For EPD: 23.3 For AFCD: 23.3 and 120% of upstream control station's SS at the same tide of the same day	For EPD: 25.9 For AFCD: 25.9 and 130% of upstream control station's SS at the same tide of the same day
Tby (NTU) (Depth-averaged)		25.2	31.5	For EPD: 18.7 For AFCD: 18.7 and 120% of upstream control station's Tby at the same tide of the same day	For EPD: 22.3 For AFCD: 22.3 and 130% of upstream control station's Tby at the same tide of the same day.

Notes: “Depth-averaged” is calculated by taking the arithmetic means of reading of all three depths.
 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 May 2003, and will be finalised subject to agreement with EPD.

Table 3-11 Event/Action plan for water quality

Event	Action			
	ET Leader	IC(E)	ER	Contractor
Trigger Value				
1. Trigger Value being surpassed for one sampling day	1. Repeat in-situ measurement to confirm findings. 2. Conduct investigation to identify the source(s) of impact. 3. Check monitoring data, all plant, equipment, mitigation measures and the Contractor's working methods. 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"	1. If exceedance is confirmed as caused by the construction works, take relevant actions as detailed in "Action Level" and "Limit Level"	1. If exceedance is confirmed as caused by the construction works, take relevant actions as detailed in "Action Level" and "Limit Level"	1. If exceedance is confirmed as caused by the construction works, take relevant actions as detailed in "Action Level" and "Limit Level"
Action Level				
1. Action level being exceeded by one sampling day and is caused by the construction works	1. Discuss the current mitigation measures with the IC(E) and the Contractor. 2. Pay attention on the monitoring results collected on the subsequent scheduled monitoring date to see if an exceedance, caused by the same or related construction works, is recurring.	1. Discuss with the ET Leader and the Contractor on the current mitigation measures. 2. Assess the effectiveness of the current mitigation measures and advise the ER accordingly.	1. Discuss with the IC(E) on the current mitigation measures.	1. Inform the ER and confirm notification of the exceedance in writing. 2. Rectify unacceptable practice. 3. Check all plants and equipment. 4. Consider changes of working methods. 5. Discuss with the ET Leader and the IC(E) on the current mitigation measures.
2. Action level being exceeded by more than one consecutive days and is caused by the construction works	1. Discuss mitigation measures with the IC(E) and the Contractor. 2. Ensure the proposed mitigation measures are implemented. 3. Further evaluation of the monitoring results on the next scheduled monitoring day and report to all 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.	1. Discuss with the ET Leader and the Contractor on the proposed mitigation measures. 2. Review proposals on mitigation measures submitted by the Contractor and advise the ER accordingly. 3. Assess the effectiveness of the implemented mitigation measures.	1. Discuss with IC(E), the ET Leader and the Contractor on the proposed mitigation measures. 2. Make agreement on the proposed mitigation measures to be implemented. 3. Assess the effectiveness of the implemented mitigation measures.	1. Inform the ER and confirm notification of the consecutive exceedance in writing. 2. Rectify unacceptable practice. 3. Check all plants and equipment. 4. Consider changes of working methods. 5. Discuss with the ET Leader and the IC(E) and propose mitigation measures to the IC(E) and the ER within 3 working days. 6. Implement the agreed mitigation measures.
Limit Level				
1. Limit level being exceeded by one sampling day and is caused by the construction works	1. Discuss mitigation measures with the IC(E), the ER and the Contractor. 2. Ensure the proposed mitigation measures are implemented. 3. Prepare to increase the monitoring frequency to daily if further exceedances of the Limit Level are detected on the next sampling day.	1. Discuss with the ET Leader and the Contractor on the proposed mitigation measures. 2. Review proposals on mitigation measures submitted by the Contractor and advise the ER accordingly. 3. Assess the effectiveness of the implemented mitigation measures.	1. Discuss with IC(E), the ET Leader and the Contractor on the proposed mitigation measures. 2. Request the Contractor to critically review the working methods. 3. Make agreement on the proposed mitigation measures to be implemented. 4. Assess the effectiveness of the implemented mitigation measures.	1. Inform the ER and confirm notification of the exceedance in writing. 2. Rectify unacceptable practice. 3. Check all plants and equipment. 4. Consider changes of working methods. 5. Discuss with the ET Leader, the IC(E) and the ER, and propose mitigation measures to the IC(E) and the ER within 3 working days. 6. Implement the agreed mitigation measures.

Event	Action			
	ET Leader	IC(E)	ER	Contractor
2. Limit level being exceeded by more than one consecutive days and is cause by the construction works	1. Discuss further mitigation measures with the IC(E), the ER and the Contractor. 2. Ensure the proposed further mitigation measures are implemented. 3. Increase the monitoring frequency to daily until no exceedance of the Limit Level.	1. Discuss with the ET Leader and the Contractor on the proposed further mitigation measures. 2. Review proposals on further mitigation measures submitted by the Contractor and advised the ER accordingly. 3. Assess the effectiveness of the implemented further mitigation measures.	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 working methods. 3. Make agreement on the further mitigation measures to be implemented. 4. Assess the effectiveness of the implemented further mitigation 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.	1. Inform the ER and confirm notification of the consecutive exceedance in writing. 2. Rectify unacceptable practice. 3. Check all plants and equipment. 4. Consider changes of working methods. 5. 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. 6. Implement the agreed further mitigation measures. 7. As directed by the ER, slow down or stop all or part of the construction activities.

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			
	ET Leader	IC(E)	ER	Contractor
Non-conformity on one occasion	1. Identify Source(s). 2. Inform the IC(E) and the ER. 3. Discuss mitigation actions with the IC(E), the ER and the Contractor. 4. Monitor remedial actions until rectification has been completed.	1. Check report. 2. Check the Contractor's working method. 3. Discuss with the ET Leader and the Contractor on possible remedial measures. 4. Advise the ER on effectiveness of proposed remedial measures. 5. Check implementation of remedial measures.	1. Notify Contractor. 2. Ensure remedial measures are properly implemented.	1. Amend working method. 2. Rectify damage and undertaken any necessary replacement.
Repeated Non-conformity	1. Identify Source(s). 2. Inform the IC(E) and the ER. 3. Increase monitoring frequency 4. Discuss mitigation actions with the IC(E), the ER and the Contractor. 5. Monitor remedial actions until rectification has been completed. 6. If exceedance stops, cease additional monitoring	1. Check monitoring report 2. Check the Contractor's working method 3. Discuss with the ET Leader and the Contractor on possible remedial measures. 4. Advise the ER on effectiveness of proposed remedial measures. 5. Supervise implementation of remedial measures.	1. Notify the Contractor. 2. Ensure remedial measures are properly implemented.	1. Amend working method. 2. Rectify damage and undertaken any necessary replacement.

4. AIR QUALITY

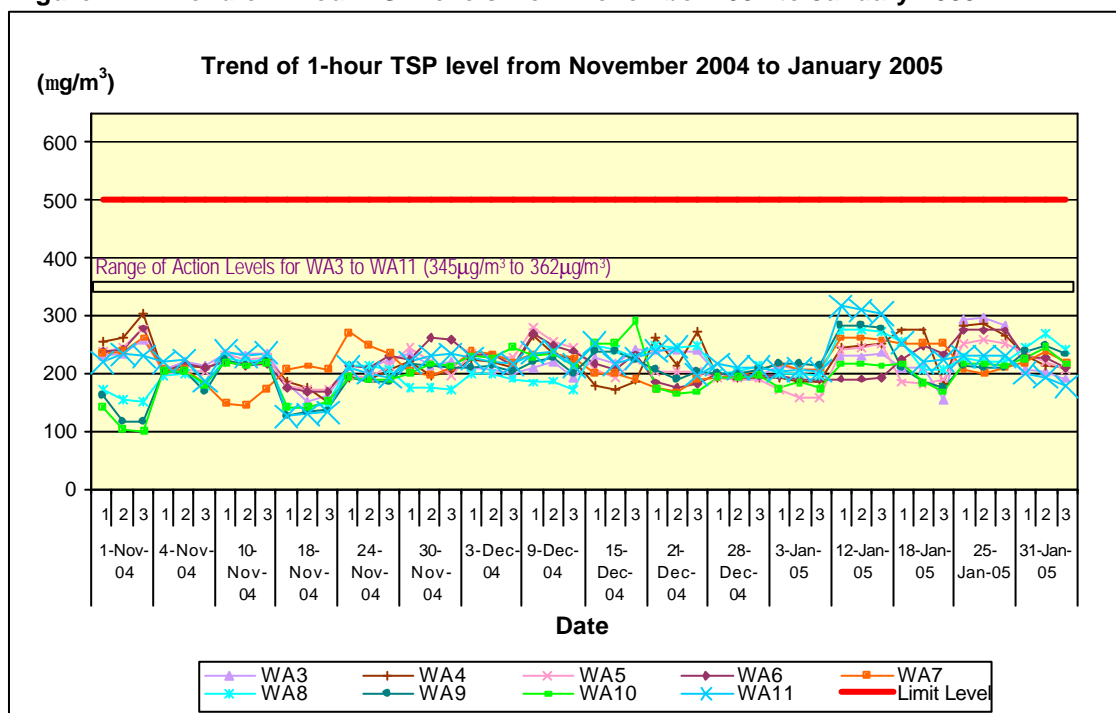
4.1 1-hour TSP Monitoring Results

The highest 1-hour TSP level was 316.4µg/m³ recorded at G/F of Carpark, Lido Garden (WA11) on 12 January 2005 while the lowest 1-hour TSP level was 101.1µg/m³ recorded at Podium of Sea Crest Villa Phase 1 Block 1 (WA10) on 1 November 2004.

There was no exceedance of Action and Limit Levels in the reporting period.

The trend of 1-hour TSP levels at each monitoring location are plotted and presented in Figure 4-1.

Figure 4-1 Trend of 1-hour TSP levels from November 2004 to January 2005



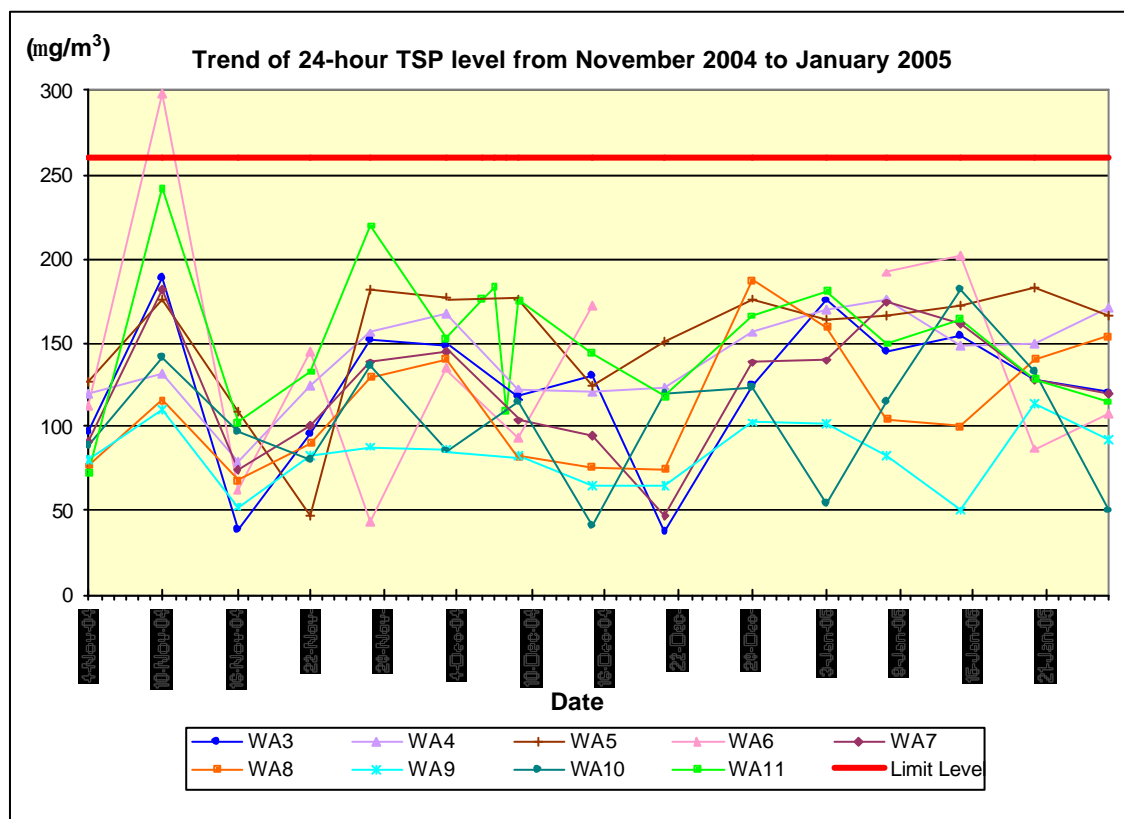
4.2 24-hour TSP Monitoring Results

The highest 24-hour TSP level was $297.8\mu\text{g}/\text{m}^3$ recorded at Tsing Lung Tau Temple (WA6) on 10 November 2004 while the lowest 24-hour TSP level was $37.6\mu\text{g}/\text{m}^3$ recorded at G/F of Regent Heights, Hong Kong Garden (WA3) on 21 November 2004.

There were three exceedances of Action and Limit Levels in 10 and 27 November 2004. Additional monitoring for exceedance recorded on 27 November 2004 were conducted on 6, 7 and 8 December 2004. No further exceedance was found in these monitoring days.

The trend of 24-hour TSP levels at each monitoring location are plotted and presented in Figure 4-2.

Figure 4-2 Trend of 24-hour TSP level from November 2004 to January 2005



5. NOISE

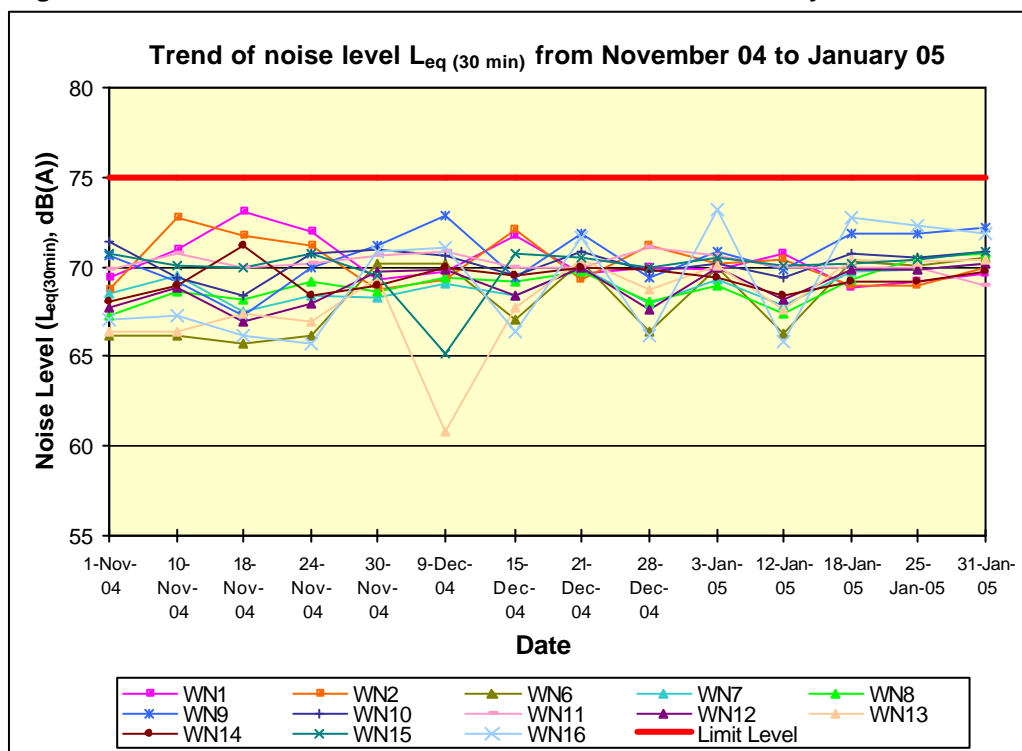
5.1 Noise Monitoring Results

All the noise measurements were taken between 0700-1900 hours on normal weekdays during which the construction site was under normal operation.

The highest noise level was 73dB(A) recorded at Lido Garden (WN16) on 3 January 2005 while the lowest noise level was 61dB(A) recorded at Podium of Sea Crest Villa Phase 3 Block 8 (WN13) on 9 December 2004.

The trend of the noise levels at each monitoring location are plotted and presented in Figure 5-1.

Figure 5-1 Trend of noise level from November 2004 to January 2005



6. WATER QUALITY (DESIGNATED PROJECT)

6.1 Suspension of 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

A total of 6 times of the landscape and visual monitoring and audits had been carried out in the reporting period by a Registered Landscape Architect. Frequently watering and tidy up the construction site have been suggested after the landscape and visual monitoring and audits. The CT was informed of the recommendations for action.

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

8.1 Summary of Waste Disposal

Table 8-1 summarises the waste disposal quantity in the reporting period.

Table 8-1 Waste disposal quantity in the period from November 2004 to January 2005

Type of waste or material	Disposal at	No. of loads or quantities			
		Nov-04	Dec-04	Jan-05	Total
C&D waste	WENT Landfill	20 loads	17 loads	27 loads	65 loads
C&D material	Public Filling Area in Tuen Mun	1,092 loads	1,126 loads	2,078 loads	4,296 loads
Grease trap waste	Interim Grease Trap Waste Treatment Facility at WENT Landfill	0	0	0	0
Chemical waste	Collected by licenced collector	0	0	0	0

8.2 Complaint Record

A total of 3 environmental complaints, regarding accumulation of foul ground and sewage waters in the trench in front of the strip of restaurants at Sham Tseng, daytime construction noise and the rubbish discarded at the finished RERW slopes and Outfalls opposite to Sea Crest Villa Phase II and III, were received in the reporting period. The complaints had been resolved after investigation. A log record on the environmental complaints is given in Appendix B.

8.3 Non-compliance

There was no non-compliance of noise monitoring recorded during the reporting period. However, three non-compliances of air monitoring were found on 10 and 27 November 2004. Additional monitoring for exceedance recorded on 27 November 2004 were conducted on 6, 7 and 8 December 2004. No further exceedance was found in these monitoring days.

Table 8-4 Summary of exceedances

	Monitoring			Action Level	Limit Level	Investigation Findings	Non-compliance
	Date	Location	Result				
24-hr TSP	10-Nov-2004	WA6	297.8	203.6	260.0	There were only drainage works in front of the strip of restaurants opposite Lido Garden and road diversion preparations in front of RERW70 during the monitoring period.	The case was not justified to construction activities.

	Monitoring			Action Level	Limit Level	Investigation Findings	Non-compliance
	Date	Location	Result				
24-hr TSP	10-Nov-2004	WA11	242.2	195.0	260.0	There were only utility pipe laying works and final ground compacting works taking place in Seawall B near Tin Hau Temple during the monitoring period.	The case was not justified to construction activities.
24-hr TSP	27-Nov-04	WA11	220.1	195.0	260.0	Rock breaking and dust generating activities were conducted during the monitoring period.	The case was due to the construction activities.

8.4 Notification of Summons and Successful Prosecution

There was no notification of summons or prosecution received during the reporting period.

8.5 Environmental Licenses

A new CNP was granted by the EPD at 11 November 2004.

9. COMMENTS, RECOMMENDATION AND CONCLUSION

9.1 Comments and Recommendations

Regarding the water quality issue, stagnant water had always been found within the construction site, but was cleared up immediately by the Contractor. Pest control had been conducted during site audits. Provision of facilities and implementation of wheel washing were not effective in several locations. Some entrances had been closed but mud trails were often found outside site entrance.

Regarding the air quality issue, dust had been occasionally spotted from the activities such as rock breaking, excavation and vehicle movement on dry and dusty haul roads and mud trails on public roads. The Contractor had therefore implemented mitigation measures for dust suppression upon requested by the ET. These included spraying water onto rock breaking and excavation activities, watering of dry and dusty haul road; provision of wheel washing facilities, and cleaning the public road when necessary. Exposed slopes and stockpiles was occasionally spotted but were covered after requested.

Construction noise impact was insignificant in the reporting period. It was occasionally spotted that noise label had not been provided for some PMEs but was provided after verbal warning.

Accumulation of general refuse, C&D waste and chemical or oil containers had been occasionally spotted by the ET. Upon advised, the Contractor had disposed of the waste, removed the containers, cleaned up the area and provided drip tray for the chemical or oil containers accordingly. Oil stain was often spotted and the Contractor was advised to remove the contaminated soil. General housekeeping was gradually satisfactory.

No significant landscape and visual impacts had been recorded in the reporting period.

The EM&A programme including landscape and visual monitoring and audit for the period from November 2004 to January 2005 had been conducted as planned to avoid significant environmental and visual impacts to the sensitive receivers.

9.2 Conclusion

The environmental performance of the Contractor during the reporting period was acceptable. Upon advised by the ET, remedial measures had been taken to mitigate the environmental impacts caused by the construction activities. As a whole, EM&A programme had been well conducted in the reporting period.




10. REFERENCES

- [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.
- [2] Ove Arup & Partners Hong Kong Limited. July 2002. Contract No. HY/99/18 Castle Peak Road Improvement between Shem Tseng and Ka Lung Tsuen, Tsuen Wan, Environmental Baseline Monitoring Report (Second Issue).
- [3] Mouchel Halcrow Joint Venture. 2001. D&C Consultancy Agreement No. CE 1/96 Castle Peak Road Improvement between Area 2 and Ka Loon Tsuen, Tsuen Wan, Tree Survey Report & Tree Felling Application Revision D.
- [4] Mouchel Halcrow Joint Venture. Contract No. HY/99/18 March 2002. D&C Consultancy Agreement No. CE 1/96 Castle Peak Road Improvement between Area 2 and Ka Loon Tsuen, Tsuen Wan, Supplementary Tree Survey Report & Tree Felling Application Revision A.

APPENDIX A

**Construction
programme**

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float
CPR Improvement bet Sham Tseng & Ka Lok Tsuen					
Important Dates					
Key Dates					
00-SECVI	KDF - All Works except Landscaping bet CH0900-1205	0	28FEB05*		-188
Portions Possession Dates					
00-A00W2	Possession of Portion No. W2	0	16JAN05*		-13
Portions Handover Dates					
00-VD6	Handover Portion No. 6 to Employer	0	28FEB05*		0
00-VD7	Handover Portion No. 7 to Employer	6	28FEB05*		0
00-VD0W1	Handover Portion No. W1 to Employer	0	28MAR05*		-186
00-VD0W3	Handover Portion No. W3 to Employer	0	28MAR05*		-186
1. Preliminaries					
Planning & Programming					
01-0108	Maintain Programming & Submit Progress Reports	1,235	24NOV01A	10AUG05	0
Waste Management					
01-1156	Implement & Monitor WMP	1,171	21DEC01A	11JUN05	0
Maintenance of Traffic Flow					
01-1153	Maintain Traffic Flow	1,171	24NOV01A	11JUN05	0
Environmental Monitoring & Audit					
01-11702	Implement & Maintain Impact Monitor & Audit	1,801	08MAR02A	10AUG06	0
Interfacing and Coordination					
01-11173	Coordination/Integration with Interfacing Works	1,171	01DEC01A	11JUN05	0
01-11174	Provide Reasonable Access to Other Contractors	1,171	01DEC01A	11JUN05	0
16. Site Safety					
Safety Management System					
16-1812	Implement & Maintain Safety Management System	1,151	14DEC01A	11JUN05	0
CPR from Chainage 0+900 to Chainage 1+870					
1. Preliminaries					
Proposed Utility Works					
01-120256	Proposed CATV on E/B C-way CH1800-1860	8	05AUG04A	20JAN05	113
01-12063	Proposed CLP on W/B C-way CH0960-1075	6	14DEC04A	07JAN05A	
01-12038	Proposed HKT on W/B C-way CH1075-1205	6	20DEC04A	21JAN05	-144
01-126542	Proposed HKBN on W/B C-way CH1075-1205	6	20DEC04A	21JAN05	-144
01-12085	Proposed CLP on W/B C-way CH1075-1205	6	28DEC04A	25JAN05	-144
01-1205	Proposed Gasmain on E/B C-way CH1350-1480	30	08JAN05A	05FEB05	-82

39	Run Date	23NOV01		Early Bar	W37C
40	Finish Date	03DEC06		Progress Bar	
41	Osia Date	16JUN05		Critical Activity	
42	Run Date	27JAN05 08:32			

Maeda Corporation
HY99/18 - Castle Peak Road Improvement
3 - Month Rolling Programme



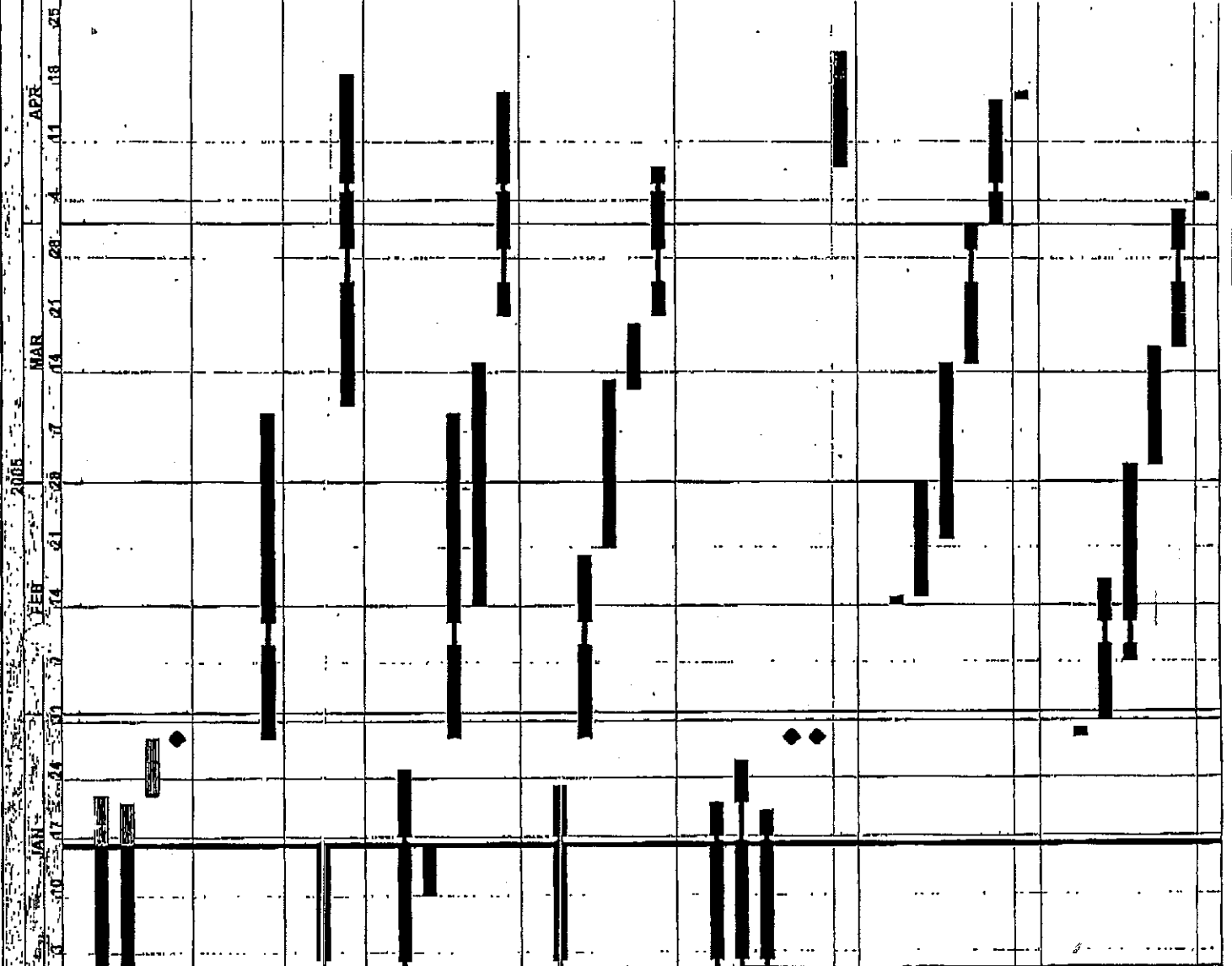
M A E D A

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	JAN	JAN	JAN	FEB	2005	MAR	APR
Proposed Utility Works												
01-12039	Proposed CLP on E/B C-way CH1060-1205	8	10JAN05A	20JAN05	-138							
01-1206	Proposed CATV on W/B C-way CH0950-1075	6	10JAN05A	16JAN05A								
01-120362	Proposed HT on E/B C-way CH1060-1100	4	17JAN05	20JAN05	-138							
01-12064	Proposed CATV on W/B C-way CH1075-1205	6	24JAN05	29JAN05	-128							
01-120712	HKT Cross Rd. Ducts at W/B CH1285	4	07APR05	11APR05	-88							
01-120722	CLP Cross Rd. Ducts at W/B CH1345	4	12APR05	16APR05	-88							
01-12071	Proposed HKT on W/B C-way CH1205-1464	13	16APR05	30APR05	-82							
01-12084	Proposed HXBN on W/B C-way CH1205-1464	13	16APR05	30APR05	-82							
3. Roadworks												
Earthworks												
03-3010	Backfill behind RWD1: CH1350 to 1464	30	13SEP04A	26JAN05	-87							
03-3013	Backfill behind RWD1: CH1554-1700	30	16APR05	20MAY05	-88							
Drainage Works												
03-3134	Drainage at Access Road R8	30	10MAY04A	08JAN05A								
03-3135	Drainage along W/B C-way bet CH1075-1205	26	11OCT04A	19JAN05	-146							
03-31312	Drainage along E/B C-way bet CH1464-1550	20	10JAN05A	27JAN05	37							
03-3121	Drainage along W/B C-way bet CH1205-1464	44	24FEB05	20APR05	-88							
Pipe Works (Local Supply Watermain)												
03-3154	Pipe Works at Access Road R8	20	02AUG04A	07JAN05A								
Road Works												
03-3218	Lay sub-base, kerbs & bedding; Access Rd R8	12	04OCT04A	20JAN05	-3							
03-32182	Construct rd pave & ftr. Access Rd R8	12	22NOV04A	25JAN05	-3							
03-32130	Break the temp. footpath at E/B CH1060-1205	12	03JAN05A	13JAN05A								
03-32180	Demolish extel. RW2A & install Gate Bay Side VI	38	10JAN05A	22FEB05	-17							
03-31140	Construct kerbs/ftr. W/B CH950-1075	10	17JAN05	27JAN05	-148							
03-31144	Construct rd pave & ftr. W/B CH1075-1205	10	19JAN05	29JAN05	-148							
03-31142	Formation, Sub-base; W/B CH1150-1205	6	20JAN05	26JAN05	-148							
03-321302	Construct Centre Divider at CH1600-1140	10	24JAN05	03FEB05	-150							
03-31105	Rd finishes, marking & lighting; W/B CH0950-1205	4	28JAN05	01FEB05	-148							
03-31143	Divert Traffic to W/B Pema C'Way CH1075-1205	0		01FEB05	-148							
03-32131	Lay sub-base, kerbs/footpath; E/B CH1100-1205	12	02FEB05	18FEB05	-148							
03-321304	Consl. Centre Divider at CH1050-1100/1140-1170	10	04FEB05	18FEB05	-150							
03-32134	Rd finishes, marking & lighting; E/B CH0950-1205	12	16FEB05	28FEB05	-150							
03-32184	Rd finishes, marking & lighting; Access Rd R8	8	15FEB05	23FEB05	-17							
03-3113	Lay sub-base, kerbs & edging; W/B CH1464-1550	9	21FEB05	02MAR05	-29							
03-31132	Construct rd pave & ftr. W/B CH1464-1550	9	28FEB05	09MAR05	-29							
03-31133	Divert Traffic to W/B C'Way CH1464-1550	0		09MAR05	-29							
5. Footbridges												
Footbridge FB12												
05-5320	South Pile caps for FB12: 9 Nos.	40	22SEP04A	19JAN05	-85							
05-53202	South Columns & Column head For FB12: 9 Nos.	50	03JAN05A	04MAY05	-85							
05-53505	Erect Steelwork & Roofing for FB12 (North)	30	08JAN05A	29JAN05	30							
05-5350	Construct Ramp for FB12 (South)	60	05MAR05	19MAY05	-85							

Activity ID		Activity Description	Orig Dur	Early Start	Early Finish	Total Float
Footbridge FB12						
05-5340		Const/Erect Deck of Main Span for FB12	45	19MAR05	14MAY05	-53
05-5350.4		Construct Stairway for FB12 (South)	30	14APR05	19MAY05	-65
6. Retaining Walls						
Bored Pile Wall BPRW03						
06-62235		FD & Trim Slope/Construct U-Channel: 1 to 30	30	02MAR04A	18JAN05	-1
L-Shaped Walls						
06-6106		Retaining Wall RW01 (CH1340-1390): 5 bays	295*	29JAN04A	24JAN05	-69
06-6102		Retaining Wall RW01 (CH1205-1340): 14 bays	198*	08MAY04A	05JAN05A	
06-6105		Retaining Wall RW01 (CH1554-1890): 13 bays	146*	17NOV04A	18MAY05	-88
06-61051		Excavate/temp soil nailing for bays 53-65	100	17NOV04A	18MAR05	-88
06-6103		Retaining Wall RW01 (CH1390-1463): 7 bays	63*	25NOV04A	12FEB05	-69
06-61032		Construct base wall for bays 48-52	50	25NOV04A	13JAN05A	
06-61024		Construct plinth for bays 30-40	16	11DEC04A	05JAN05A	
06-61064		Construct plinth for bays 41-45	10	06JAN05A	24JAN05	-69
06-61034		Construct plinth for bays 46-52	14	25JAN05	12FEB05	-69
06-61052		Construct base wall for bays 53-65	80	27JAN05	07MAY05	-68
7. Noise Structures						
Procurement of Noise Barrier						
07-7080		Fabrication of Steel Members for Noise Barrier	120	17MAY04A	04FEB05	13
07-7080		Delivery of Steel Members for Noise Barrier	90	19JUL04A	14FEB05	13
07-7070		Fabrication of Panels for Noise Barrier	60	09FEB05	09APR05	-37
07-7090		Delivery of Panels for Noise Barrier	60	01MAR05	19APR05	-37
Noise Mitigation No. 01						
07-7122		Foundation of NW01 (S): CH1205-1320 (bays 15-22)	50	26NOV04A	28JAN05	-150
07-7121		Foundation of NW01 (S): CH1320-1405 (bays 23-28)	45	22JAN05	18MAR05	-88
8. Culverts and Outfalls						
Culvert-Outfall B						
08-82024		1.5m Cascade at Outfall B outside RW01	12	10DEC04A	18JAN05	-141
08-8203		Excavate Culvert-Outfall B (Within Exlat CPR)	12	03JAN05A	22JAN05	-150
08-82032		Const. Culvert-Outfall B (middle) & backfill	12	24JAN05	05FEB05	-150
Culvert-Outfall CA						
08-83024		1.2m Concrete & DI pipes with concrete surround	10	03JAN05A	21JAN05	-68
Culvert-Outfall C						
08-84028		1.5m DI pipe/Step Culvert Outside RW01	10	26JAN05	05FEB05	-15
Culvert-Outfall CB						
08-81602		Exc. Culvert-Outfall CB (South of RW01)	8	07DEC04A	19JAN05	-50
08-81603		Exc. Culvert-Outfall CB (Middle Portion)	6	10JAN05A	19JAN05	-54
08-816032		Const. Culvert-Outfall CB (Middle Portion)	12	11JAN05A	22JAN05	-54
08-816022		Const. Culvert-Outfall CB (South of RW01)	21	20JAN05	16FEB05	-41
Culvert-Outfall D						
08-8503		Exc. Culvert-Outfall D (South)	6	23MAR05	01APR05	-68
08-85032		Const. 2 Manholes & 1.5m Conc. Pipe (South)	16	02APR05	21APR05	-68

Activity ID	Activity Description	Orig. DUT	Early Start	Early Finish	Total	JAN	FEB	MAR	APR
Culvert-Outlet E									
08-8803	Exc. Culvert-Outlet E (SMHE-1-Intal)	6	24FEB05	02MAR05	-17				
08-88032	Consl. Culvert-Outlet E (SMHE-1-Intal)	35	03MAR05	16APR05	-17				
08-8802	Exc. Culvert-Outlet E (South)	6	02APR05	09APR05	-72				
08-88022	Consl. 1 Manhole & 1.5m. Conc. Pipe (South)	12	11APR05	23APR05	-72				
10. Geotechnical & Slope Works									
New Slope Nos. 4, 5 & 3									
10-10205	Excavation & Filling Works for Slopes 4, 5 & 3	24	08JAN04	11JAN05A					
10-102052	Drainage/Surface Slopes 4, 5 & 3	16	12NOV04A	18JAN05	1				
Existing Slope Works									
10-102112	Remedial Works to Slope No. D/R16 (S/N wall)	30	05MAR05	13APR05	-67				
12. Entrusted Water Mains									
Entrusted Water Mains									
12-1208	DIN1000FW/Associated WWS (WB C-way	70	02OCT04A	03JAN05A					
12-12082	Pressure test for DIN1000FW CH1000-1205	12	04JAN05A	20JAN05	-140				
12-1202	DIN1000FW/Associated WWS (WB C-way	44	05JAN05A	02APR05	-88				
13. Reprovisioning of LCSD & FEHD Facilities									
FEHD Facilities									
13-1340	Removal of Siting Out Area at Ka Loon Tsuen	75	13SEP03A	02FEB05	102				
14. Landscape Works									
Landscape Softworks									
14-1415	Landscape Works in Slope No. 6	40	01MAR05	20APR05	-80				
16. Variation Works									
Relocate Water Meters at Mu Yuen & Lung Sing									
VO-37400	Relocate Water Meters at Mu Yuen & Lung Sing	67	03NOV04A	22JAN05	-88				
VO-37404	Water testing and connection	12	22NOV04A	22JAN05	-88				
Vehicular Parapets									
VO-24910	Additional Vehicular Parapets at CH 1070-1205	74	26OCT04A	21JAN05	-148				
VO-24911	Formation, Vehicular Parapets at CH 1070-1205	18	25OCT04A	08JAN05A					
VO-24912	Base, Vehicular Parapets at CH 1070-1205	18	27OCT04A	17JAN05	-148				
VO-24913	Wall/Backfill, Vehicular Parapets at CH 1070-1205	18	01NOV04A	21JAN05	-148				
VO-24920	Additional Vehicular Parapets at CH 1205-1485	50	12FEB05	15APR05	-88				
CPR from Chainage 2+210 to Chainage 3+010									
1. Preliminaries									
Proposed Utility Works									
01-12127	Proposed CLP at WB CH 2800-3010	11	22NOV04A	10JAN05A					
01-12143	Proposed CATV on E/B C-way CH2300-2580	14	08APR05	25APR05	-29				
01-12145	Proposed HXT on E/B C-way CH2300-2580	14	18APR05	02MAY05	-29				
01-12147	Proposed HKBN on E/B C-way CH2300-2580	14	18APR05	02MAY05	-29				
Programme for SA No. 3									
01-0110	Programme for SA No. 3	486	29SEP03	28JAN05	27				

Activity ID	Activity Description	Orig. Dur.	Early Start	Early Finish	Total Elapsed
Programme for SA No. 3					
01-0113	Prepare final SA	12	26NOV03A	21JAN05	27
01-0114	Review & endorse detailed design by ICEM/HW/QS	12	28NOV03A	20JAN05	27
01-0119	Prepare format copies of SA for execution SA	7	22JAN05	28JAN05	27
01-01110	Execute SA	0	0	28JAN05	27
3. Roadworks					
Utility Diversion					
03-3212	Protect/Divert Exist. UUs at E/B CH 2580-2800	30	29JAN05	03MAR05	-88
Earthworks					
03-3203	Road formation at GPR CH2800 & 3010	30	07JUN04A	15JAN05A	
03-3204	Backfill/Road formation at E/B CH2300-2580	30	10MAR05	18APR05	-29
Drainage Works					
03-3225	Drainage Works at E/B CH2610-2895/CH2750-2800	30	20DEC04A	24JAN05	-3
03-32242	Drainage Works at E/B C-way bet CH2450-2480	12	10JAN05A	15JAN05A	
03-32252	Drainage Works at E/B CH2580-2610/CH2695-2750	30	29JAN05	08MAR05	-7
03-32243	Drainage/F4, 1-4, 31 at E/B CH2480-2580	25	14FEB05	14MAR05	-7
03-3225	Drainage Works at Access Road R9 at West	20	21MAR05	16APR05	-17
Pipe Works (Local Supply Watermain)					
03-32342	Testing & Connection of 150mm Pipes CH2270-2570	18	20DEC04A	22JAN05	-54
03-3235	Pipe Works on E/B C-way bet CH2610-2720	18	29JAN05	19FEB05	-60
03-32352	Testing & Connection of Pipeworks at CH2610-2720	18	21FEB05	12MAR05	-60
03-3233	Water Works at Portion W10	7	12MAR05	19MAR05	-70
03-3236	Pipe Works on at Access Road R9 at West	12	21MAR05	07APR05	-70
Road Works					
03-3146	Lay sub-base, kerbs & edgings: CH2800-3010	10	11OCT04A	20JAN05	-92
03-31482	Construct rd pave & fin: CH2800-3010	10	08NOV04A	25JAN05	-92
03-31452	Construct rd pave & fin: WB CH2480-2800	12	24NOV04A	19JAN05	-84
03-31471	Divert Traffic to WB Perma C-way CH2450 to 2800	0	0	29JAN05	-92
03-31472	Divert Traffic to WB Perma C-way CH2800 to 3010	0	0	29JAN05	-92
03-3180	Formallion/ sub-base, kerbs: Access Rd R9 at West	12	08APR05	21APR05	-70
Junction J5 (adjacent to Hong Kong Garden)					
J5-02	Close western lane of slip road to HK Garden	1	14FEB05	14FEB05	-40
J5-04	Expose existing UUs at western lane of slip rd	12	15FEB05	28FEB05	-40
J5-05	Const. drainage within western lane of slip rd	18	22FEB05	14MAR05	-40
J5-08	Lay UU cross rd	12	15MAR05	31MAR05	-40
J5-10	Const. western lane of slip rd	12	01APR05	15APR05	-40
J5-12	Close eastern lane of slip road to HK Garden	1	16APR05	16APR05	-40
Junction J6 (at Lung Yu Road)					
J6-02	Close eastern lane of Lung Yuen Rd	1	29JAN05	29JAN05	-30
J6-04	Expose existing UUs at eastern lane	12	31JAN05	16FEB05	-30
J6-06	Const. drainage both storm & sewer at east lane	18	07FEB05	02MAR05	-30
J6-08	Lay UU cross rd	12	03MAR05	16MAR05	-30
J6-10	Const. eastern lane of Lung Yuen Rd	12	17MAR05	02APR05	-80
J6-12	Close western lane of Lung Yuen Rd	1	04APR05	04APR05	-30



Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float
5. Footbridges					
Footbridge FB01					
05-61112	Piling Works at North Supports for FB01, 12 Nos.	72	03SEP04A	06FEB05	-64
05-61508	Erect Slewwork & Roofing for FB01 (South)	30	22NOV04A	27JAN05	62
05-61113	Dismantle Piling Rig & Pile Test, FB01 (N)	18	24JAN05	16FEB05	-64
05-61330	North Pile caps for FB01, 5 Nos.	25	14FEB05	14MAR05	-64
05-61302	North Columns & Column head for FB01, 9 Nos.	30	16MAR05	26APR05	-54
05-61400	Constr/Erect Deck of Main Span for FB01	45	12APR05	03JUN05	-54
Footbridge FB02					
05-62706	Erect Slewwork & Roofing for FB02 (North)	30	14JUL04A	22JAN05	101
05-62806	Erect Slewwork & Roofing for FB02 (South)	30	21SEP04A	22JAN05	101
05-62802	Erect Slewwork & Roofing of Main Span for FB02	30	26SEP04A	22JAN05	101
05-62800	E&M and Finishing Works for Footbridge FB02	30	08DEC04A	03FEB05	101
7. Noise Structures					
Noise Mitigation No. 02					
07-72221	Foundation of NM02 (North)	66	17JAN05	11APR05	-33
07-72211	Excavation/formation for NM02 (Bays 25-26)	24	17JAN05	16FEB05	-27
07-72212	Excavation/formation for NM02 (14-24)	30	24JAN05	02MAR05	-30
07-72213	Construct base for NM02 (Bays 25-26)	24	07FEB05	08MAR05	-27
07-72214	Construct base for NM02 (Bays 14-24)	30	07FEB05	10MAR05	-33
07-72215	Construct wall stem for NM02 (Bays 25-26)	24	24FEB05	23MAR05	-27
07-72216	Construct wall stem for NM02 (Bays 14-24)	30	28FEB05	08APR05	-33
07-72217	Constr. R.C. bearing columns, NM02 (Bays 25-26)	18	10MAR05	02APR05	-27
07-72218	Constr. R.C. bearing columns, NM02 (Bays 14-24)	24	10MAR05	11APR05	-30
07-72212	Erect Steel Members at North Supports for NM02	30	12APR05	17MAY05	-33
Noise Mitigation No. 03					
07-73212	Erect Steel Members at South Supports for NM03	30	14DEC04A	31JAN05	20
07-73211	Foundation of NM03 (North)	80	09MAR05	23MAY05	-68
07-73212	Excavation/formation for NM03 (North)	30	09MAR05	16APR05	-68
07-73214	Construct base for NM03 (North)	30	23MAR05	30APR05	-68
07-73216	Construct wall stem for NM03 (North)	30	13APR05	18MAY05	-68
Noise Mitigation No. 04					
07-74004	Foundation of NM04 (Bays 1-4)	50	16FEB05	19APR05	-36
8. Culverts and Outfalls					
Culvert-Outfall F					
08-87205	Backfill Outfall F	4	03JAN05A	12JAN05A	
9. Seawalls and Marine Works					
L-Shaped Walls					
08-81331	Reconstruction of Pavilion at Sea Wall B	476	19JUN03A	22JAN05	-80
09-91333	Roofing/staircase/flooring & Finishing	40	07JUN04A	22JAN05	111

Activity ID	Activity Description	Qty Dur	Early Start	Early Finish	Total Float
10. Geotechnical & Slope Works					
Existing Slope Works					
09-9212	Remedial Works to Slope No. C180 & C1C78	163' 14JUL04A	27JAN05		-13
09-92124	Remedial Works to Slopes 6SW-DIC1 & C78	163' 14JUL04A	27JAN05		-13
09-921245	Drainage/Slair at 6SW-DIC1&C78; VO388	12 08NOV04A	27JAN05		-13
09-921244	Soil nails 5 rows at 6SW-DIC1&C78; VO388	35 16DEC04A	20JAN05		-31
11. Entrusted Sewerage Works					
Entrusted Sewers/Drains					
11-1132	Sewer Works at Access Road R9 at West	40 29JAN05	10MAR05		-70
11-1131	Sewer Works at CPR CH2650-2750	25 08FEB05	11MAR05		-7
12. Entrusted Watermains					
Entrusted Water Mains					
12-1232	DN150 cross rd & fire hydrant at CH L600	12 12APR05	25APR05		-3
16. Variation Works					
Add. Fishermen's Access Staircase at Sewall B.					
VO-35800	Construct Fishermen's Access Staircase; VO358	18 17JAN05	05FEB05		99
Additional Mass Wall at East End of RW-B					
AI41004	Construct Additional Mass Wall at RW-B; 2 bays	8 30DEC04A	13JAN05A		
CPR from Chainage 3+010 to Chainage 3+730					
3. Roadworks					
Earthworks					
03-3242	Earthworks at WB C'way CH3400-3530	192' 09AUG04A	02APR05		-50
Drainage Works					
03-33202	Drainage Works on WB C'way bet CH3300-3400	20 28FEB05	21MAR05		-91
03-3323	Drainage Works on EB C'way bet CH3000-3130	50 21MAR05	23MAY05		-92
Road Works					
03-3340	Dragon Garden Accommodation	849' 12APR02A	23FEB05		-92
03-334008	Remove Temporary Hoarding & Reinstatement	35 28APR04A	23FEB05		67
03-33145	Lay sub-base, kerbs & edgings; WB CH3300-3400	10 22MAR05	09APR05		-91
03-33146	Construct rd pave & f/c; WB CH3300-3400	10 04APR05	15APR05		-91
03-33161	Divert Traffic on WB Perma C'way CH3300-3400	0	15APR05		-91
R.E. Wall REV05					
Reinforced Earth Wall REV05					
REV014	L-shaped wall & Plinth	40 03JAN05A	21FEB05		-91
REV016	P1 Parapets	30 03JAN05A	09MAR05		-91
5. Footbridges					
Footbridge FB11					
05-5620	South Pile caps for FB11; 7 Nos.	35 10OCT03A	19JAN05		-26
05-56202	South Columns & column head for FB11; 9 Nos.	40 08DEC03A	15FEB05		-26
05-56606	Erect Steelwork & Roofing for FB11 (North)	30 17JAN05	23FEB05		67
05-5640	Const./Erect Deck of Main Span for FB11	45 16FEB05	13APR05		-11

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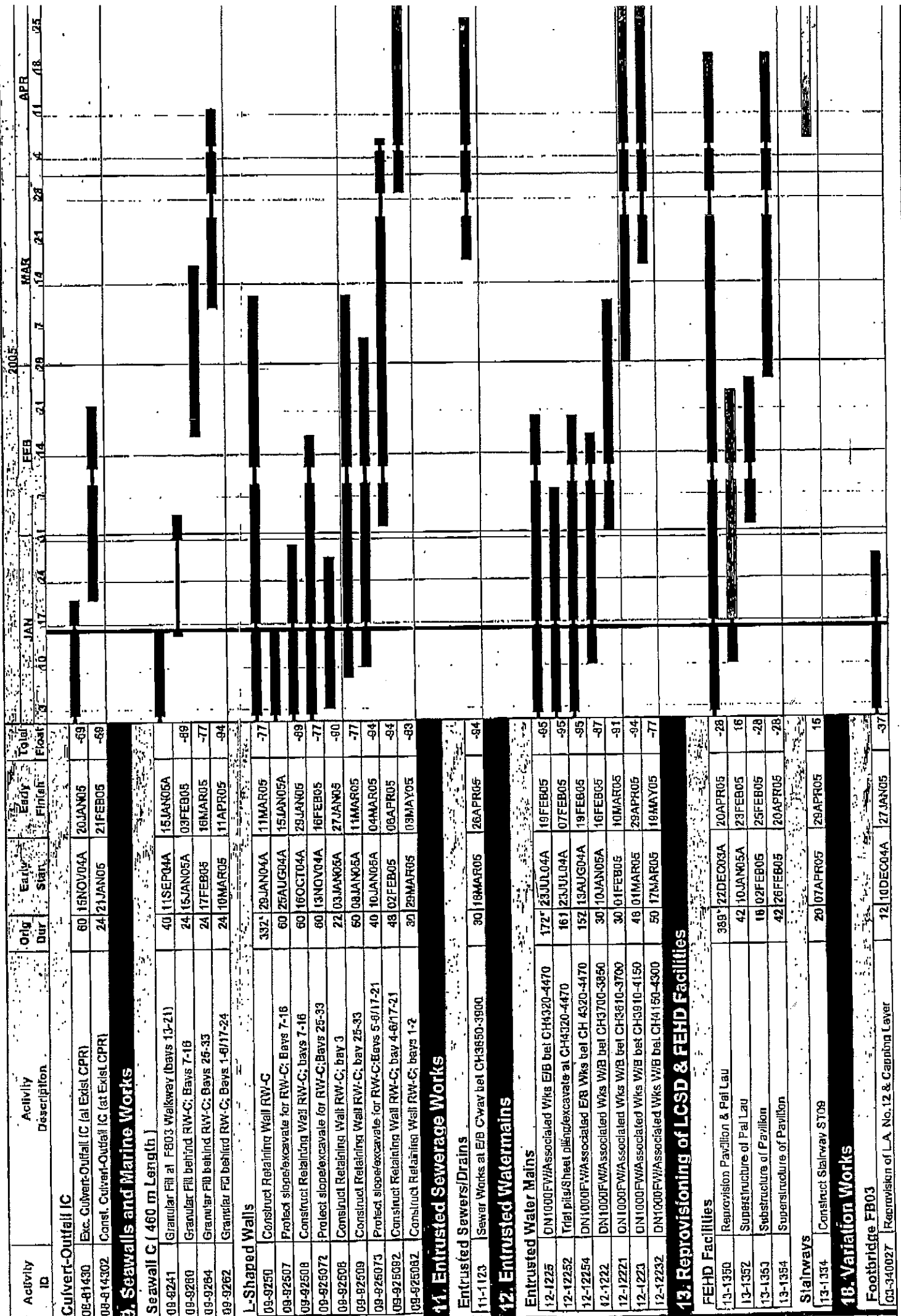
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Activity ID	Activity Description	Orig. Dur.	Early Start	Early Finish	Total Float	2005	MAR	APR
Footbridge FB11								
UE-5550	Construct Ramp for FB11 (South)	60	16FEB05	30APR05	-28			
05-55504	Construct Stairway for FB11 (South)	30	23MAR05	30APR05	-28			
05-55402	Erect Steelwork & Roofing of Main Span for FB11	30	14APR05	18MAY05	-11			
6. Retaining Walls								
Reinforced Earth Wall 14								
RE1410	Excavation/Remo. soil and clearing the base	85	01DEC04A	23MAR05	-41			
RE1412	Mass conc./inset panel & mesh Backfilling	60	24MAR05	07JUN05	-91			
1. Shaped Walls								
05-55800	Construct Retaining Wall RW15	208*	09AUG04A	22APR05	-50			
05-55803	Backfill for RW15, bays 1-3	10	08JAN05A	19JAN05	-80			
05-55805	Excavation for RW15, bays 4-6	18	14JAN05A	03FEB05	-80			
05-55804	Plinth for RW15, bays 1-3	12	20JAN05	02FEB05	-11			
05-55806	Basefill for RW15, bays 4-6	40	28JAN05	19MAR05	-60			
05-55807	Backfill for RW15, bays 4-6	10	19MAR05	02APR05	-60			
05-55808	Plinth for RW15, bays 4-6	16	04APR05	22APR05	-60			
8 Culverts and Outfalls								
Culvert - Outfall HB								
05-81020	Temp. Works & Exc. Culvert-Outfall HB (N)	21	10JAN05A	02FEB05	-85			
05-810202	Const. Culvert-Outfall HB (Remaining Portion 1)	30	03FEB05	12MAR05	-65			
Culvert-Outfall H								
05-81130	Exc. Culvert-Outfall H (Remaining Portion)	12	21JAN05	03FEB05	-32			
05-811302	Const. SHH-12, Outfall H	10	24FEB05	07MAR05	-48			
05-811303	Const. 1.65m pipe with conc. surround, Outfall H	10	08MAR05	18MAR05	-45			
05-811304	Const. 1.65m cascade, Outfall H	10	19MAR05	02APR05	-60			
10. Geotechnical & Slope Works								
Existing Slope Works								
10-1092	Remedial Works to Slope No. FR41	451*	26JUL04A	28JAN05	2			
10-10928	Fill behind RW104 & Finishing Work	18	07JAN04A	29JAN05	2			
11. Entrusted Sewerage Works								
Entrusted Sewers/Drains								
11-114001	350mm Twin Rising Mains at CH 3000-3130	40	25FEB05	16APR05	-92			
12. Entrusted Water Mains								
Entrusted Water Mains								
12-12212	DN 1000FW/associated Wks/WB Cway	26	18DEC04A	27JAN05	4			
12-12230	DN1000FW/associated Wks EIB CH2970-3130	50	29JAN05	04APR05	-42			
12-12301	DN1000FW/associated Wks EIB CH3130-3250	50	16APR05	15JUN05	-91			
12-12302	DN1000FW/associated Wks EIB CH3250-3400	50	16APR05	15JUN05	-91			
13. Reprovisioning of LCSD & FEHD Facilities								
FEHD Facilities								
13-1321	Construct RCP E	35	10DEC04A	29JAN05	95			

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float
ST. DRIVEWAYS					
13-1332	Construct Slatway ST07	81	25OCT04A	29JAN05	2
13-13326	Concrete curbing/remove lwrk & falsework, ST07	10	13DEC04A	08JAN05A	
13-13328	Finishing & railing, ST07	12	17JAN05	28JAN05	2
18. Variation Works					
New Slope No. 11					
10-10757	Removal of B. Fence, V.O. No. 131	45	07FEB04A	29JAN05	105
Culvert-Outfall 1A					
08-81231	Excavate & Break Conc. Pipe; L. Part	16	03JAN05A	15JAN05A	
08-81232	Const. Cascade/M. Slatway/Backfill; L. Part	16	17JAN05	05FEB05	18
08-81233	Excavate for U. Part of Slatway Channel	12	07FEB05	23FEB05	18
08-81234	Const. Cascade/M. Slatway/Backfill; U. Part	12	24FEB05	09MAR05	18
08-81235	Excavate for 1050 Concrete Pipe	6	10MAR05	16MAR05	18
08-81236	Concl. 1050 dia. C. Pipes.	6	17MAR05	23MAR05	18
08-81237	Construct M. Slatway at the top	6	24MAR05	02APR05	18
08-81238	Reestate Slope/Drainage Incl. Hydroseeding	12	04APR05	18APR05	18
Vehicular Parapets					
VO-24960	Additional Vehicular Parapets at CH 3400-3425	18	09APR05	29APR05	-60
GPR from Chainage 3+730 to Chainage 4+470					
1. Preliminaries					
Proposed Utility Works					
01-12471	Additional Gasmain on E/B C.way CH4330-4470	21	07DEC04A	31MAR05	-93
01-124554	HKT Cross Rd. Ducts at W/B CH3670	4	19FEB05	23FEB05	-91
01-124441	CLP Cross Rd. Ducts at W/B CH3810	4	24FEB05	28FEB05	-91
01-12444	Proposed Gasmain on W/B C.way CH3670-3850	25	07MAR05	08APR05	-91
01-124842	HKT Cross Rd. Ducts at E/B Slow Lane CH4365	4	10MAR05	14MAR05	-93
01-1247352	HT Cross Rd. Ducts at E/B Slow Lane CH4361	4	12MAR05	16MAR05	-93
01-1247381	CATV Cross Rd. Ducts at Slow Lane E/B CH4374	4	15MAR05	18MAR05	-93
01-124442	Proposed CLP on W/B C.way CH3850-3910	6	16MAR05	22MAR05	-88
01-1247383	CLP C. Rd. Ducts at E/B Slow Lane CH4320	4	17MAR05	21MAR05	-93
01-124432	Proposed HKT on W/B C.way CH3850-3910	6	23MAR05	01APR05	-88
01-124434	Proposed HKBN on W/B C.way CH3850-3910	6	23MAR05	01APR05	-88
01-124733	Proposed CATV on E/B C.way CH4330-4470	7	24MAR05	04APR05	-14
01-124431	HKT Cross Rd. Ducts at W/B CH3870	4	29MAR05	01APR05	-88
01-12444	Proposed CLP on W/B C.way CH3630-3850	11	02APR05	15APR05	-88
01-124734	Proposed NWT on E/B C.way CH4450	7	06APR05	13APR05	-14
01-124735	Proposed HT on E/B C.way CH4330-4470	7	14APR05	21APR05	-14
01-12443	Proposed HKT on W/B C.way CH3630-3850	11	16APR05	28APR05	-88
3. Roadworks					
Utility Diversion					
03-34508	Exposed/unrated UUs at E/B CH 3850-3900	30	01FEB05	10MAR05	-94
Earthworks					
03-3403	Road formation at W/B C.way CH3650-3910	6	19JAN05	25JAN05	-84

Activity ID	Activity Description	Qty Dur	Early Start	Early Finish	Total Float	JAN	FEB	MAR	APR
Earthworks									
03-3401	Road formation at W/B Cway CH3630-3850	30 01MAR05	08APR05	-91					
Drainage Works									
03-3465	Construct drainagebackfill at E/B CH4300-4470	148 25AUG04	23MAR05	-95					
03-34202	Drainage Works at W/B Cway CH3650-3910	20 25OCT04	20JAN05	-94					
03-34201	Drainage Works at W/B Cway CH3610-3700	30 20JAN05	26FEB05	-91					
03-3420	Drainage Works at W/B Cway CH3700-3850	30 02FEB05	14MAR05	-87					
03-3421	Drainage Works at W/B Cway CH3850-4150	60 16FEB05	18APR05	-94					
03-34212	Drainage Works at W/B Cway CH4150-4330	50 03MAR05	04MAY05	-77					
03-3423	Drainage Works at E/B Cway CH3650-3910	20 29JAN05	09JAN05	-94					
03-3425	Drainage Works at W/B Cway CH4330-4470	68 11APR05	14JUN05	-95					
03-34252	Trial piling shell piling/excavate for drainage	50 11APR05	08JUN05	-95					
Pipe Works (Local Supply Materials)									
03-3431	Pipe Works at W/B Cway bel CH3890-3910	10 29DEC04	07JAN05						
03-34310	Pipe Works at W/B Cway bel CH3600-3700	20 28FEB05	22MAR05	-91					
03-3434	Pipe Works at W/B Cway bel CH3950-4150	30 01APR05	08MAY05	-94					
Road Works									
03-34534	Stage 3 TTA (works at E/B show lane)	210 23JUL04	09APR05	-95					
03-34561	Lay sub-base, kerbs & edgings; E/D CH4330-4470	12 15DEC04	02APR05	-95					
03-34556	Construct rd base; R10	8 20DEC04	20JAN05	-28					
03-34558	Rd finishes, marking & lighting; R10	10 21JAN05	01FEB05	-28					
03-345022	Construct Temp. Road W/B CH3850-3910	6 25JAN05	31JAN05	-94					
03-34509	Diver Road at W/B CH3850-3910/East of Outfall 1	0	31JAN05	-94					
03-345423	Construct rd base & lip; E/B CH4330-4470	12 23MAR05	09APR05	-95					
03-3450	Lay sub-base, kerbs & edgings; W/B CH3630-3850	20 24MAR05	20APR05	-91					
03-3412	Diver Traffic to E/B Cway CH4330-4470	0	09APR05	-95					
03-34502	Construct rd base & lip; W/B CH3830-3850	20 08APR05	02MAY05	-91					
03-34535	Stage 4 TTA (works at W/B catlidge way)	105 11APR05	16AUG05	-95					
5. Footbridges									
Footbridge FB03									
05-5412	GI Works for Middle Supports at FB03	8 07DEC02	04FEB05	-73					
05-54606	Erect Steelwork & Roofing for FB03 (North)	30 08NOV04	25JAN05	64					
05-54608	Erect Steelwork & Roofing for FB03 (South)	30 08JAN05	15FEB05	49					
05-54121	GI Reproductive Foundation Levels; FB03(M)	12 05FEB05	22FEB05	-73					
05-54122	Piling and Pile Testing (2 Nos.); FB03 (Middle)	30 23FEB05	01APR05	-73					
05-54123	Middle Pile cap for FB03; 1 Nos.	12 02APR05	16APR05	-73					
8. Culverts and Outfalls									
Culvert-Outfall 1B									
08-81520	Exc. Culvert-Outfall 1B (South Portion)	173 02JUL04	27JAN05	-91					
08-815204	SMHIB2. 1/1050 Conc. Pile	12 18DEC04	27JAN05	-91					
Culvert-Outfall 1									
08-81330	Excavate Culvert bays 5-7; Outfall 1	24 08FEB05	10MAY05	-94					
08-813302	Const. Culvert bays 5-7; Outfall 1	30 11MAR05	19APR05	-94					



Activity ID	Activity Description	Orig. Dur.	Early Start	Early Finish	Total Float																								
Stairways																													
13-1338	Const. New Pavbdr/rel. wall/fldr. VO 211	112	15NOV04A	04APR05	-28																								
13-13364	Const. RW-C1; VO 211	24	01FEB05	03MAR05	-28																								
13-13366	Const. New Pavbdr/stair VO 211	24	04MAR05	04APR05	-28																								
13-1337	Const. gantry/walkway, RW-C Day 29-33; VO 211	40	12MAR05	02MAY05	-51																								
Additional Outfall Mt. VO 244																													
08-81826	Excavation for 675mm twin pipes at exist. CFR	12	17JAN05	29JAN05	-54																								
08-81827	Construct 675mm twin pipes at exist. CFR	8	31JAN05	08FEB05	-54																								
Additional Works at RW-C; Bays 2-4																													
VO-39308	Temp. works/Excavation/Install concrete; Bay 4	20	28JAN05	07MAR05	-20																								
VO-39509	Temp. works/Excavation/Install concrete; Bay 2	12	11MAR05	24MAR05	-83																								
Remedial Works to Existing Feature No. 6SE-C/C22																													
VO-30902	Erect scaffolding platform	6	02FEB05	08FEB05	9																								
VO-30904	Remove existing shotcrete	12	12FEB05	25FEB05	9																								
VO-30905	Construct 12 nos. test walls	18	20FEB05	18MAR05	9																								
VO-30908	Construct 202 nos. soil nails	40	19MAR05	09MAY05	9																								
Vehicular Parapets																													
VO-24970	Additional Vehicular Parapets at CH 3735-3850	30	17FEB05	23MAR05	-87																								

APPENDIX B

**Log record on
environmental
complaints**

Log Record on Environmental Complaints

No.	Date of Complaint Received	Description	Proposed Actions	Completion Date	Remarks
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 during 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 adjacent temporary road diversion.	The Contractor has added extra welding to improve the rigidity of the temporary steel deck. The work was completed during 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 surveillance 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 vacated 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	24-Mar-03	Complaint from EPD regarding daytime 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.	31-Mar-03	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 reorganization 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.

Log Record on Environmental Complaints

No.	Date of Complaint Received	Description	Proposed 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 movement 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 Mui 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 outside 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	Complaint from Ms. Lam of Sea Crest Villa Phase I regarding construction noise from the slope works outside Sea Crest Villa Phase I.	<p>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.</p> <p>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.</p>	25-Jun-03	<p>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.</p> <p>The IC(E) had no comment on the Contractor's findings. Since no mitigation measures were implemented, additional noise monitoring was not conducted.</p>
086	23-May-03	Complaint from Mr. So regarding stagnant water 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 CLP electricity supply room.	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.	29-May-03	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.	6-Jun-03	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.

Log Record on Environmental Complaints

No.	Date of Complaint Received	Description	Proposed 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.	4-Jul-03	After further enquiry into the nature of the complaint, it appears that the complaint refers to the extended duration of construction works in the concerned area (i.e. inconvenience caused due to lengthy works program). The Contractor'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.	5-Aug-03	There had been no further complaints after the repair.
105	13-Aug-03	Complaint from Mr Chow of Sham Tseng regarding fell 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	11-Sep-03	Complaint from Mr Edith Lee of Sea Crest Villa 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	Proposed Actions	Completion Date	Remarks
112	10-Oct-03	Complaint from Mr Cheung of FEHD that regarding 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.	Investigation was conducted immediately on 11 October 2003. It was observed that the pedestrian walkway and Outfall I had been tidied up except at the corner of Sea Crest Villa Phase III where a broken umbrella and some broken traffic light was lying on the ground. Immediate action was taken to remove the broken umbrella and signal lights. The site area would be maintained regularly. It was noted that wooden formwork and construction materials might possibly been mistaken to be rubbish.	13-Oct-03	
114	25-Nov-03	Complaint log no. 114 was received on 25 November 2003 regarding the muddy water found on the beach opposite to Sea Crest Villa Phase III.	An inspection for the concerned site area at the interface between the beach and the construction site revealed that there was no evidence of active construction works adjacent to the beach or the presence of muddy water. There was also no evidence of muddy water discharge from Outfall I. The work programme for the following days leading up to the complaint was inspection and found that the bored piling activity had been completed and removed since 15 November 2003. The contractor would regularly monitor the area for muddy water. If potential discharge sources were identified, the Contractor would take action to rectify the situation.	26-Nov-03	
115	30-Nov-03	Complaint from Miss Chan of Sham Tseng Latrine was received on 30 November 2003 regarding the pond of foul water at the footway in front of Sham Tseng Latrine.	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	Complaint from Mr Paul Wong of Hong Kong Garden Management 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 8:00am 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	20-Feb-04	Complaint from Mr Ho of TL60 Management Ltd was received on 20 February 2004 regarding noise arising from the temporary steel plates on road pavement near Blocks 1 & 2 of Hong Kong Garden	Condition of the decking plat was checked on 23 February 2004 and was repaired on 24 February 2004 during off peak hours.	24-Feb-04	Regular inspection will be conducted and adjacent works was be expedited to allow early road diversion for permanent removal of the steel plates.
139	9-Jul-04	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 construction 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 noise arising from rock breaking near Sea Crest Villa Phase 3	After investigation on the matter, there was 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 Received	Description	Proposed Actions	Completion Date	Remarks
149	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 Sham 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	

