Hong Kong Kwong Tai Builders Limited

Contract No. SSW 317

Construction of a Secondary Boundary Fence from Mai Po to Lok Ma Chau Control Point

Environmental Monitoring and Audit Monthly Report

May 2010

(Version 1.0)

Certified By

Dr Priscilla Choy

(Environmental Team Leader)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

CINOTECH accepts no responsibility for changes made to this report by third parties

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EXECUTIVE SUMMARY

Introduction

- 1. This is monthly Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited (Cinotech) for the Contract No. SS W317 "Construction of a Secondary Boundary Fence from Mai Po to Lok Ma Chau Control Point" (hereinafter called "the Project"). This document reports the findings of the environmental auditing works conducted on May 2010.
- 2. The site activities undertaken in the reporting month were:
 - maintain site office at San Tin
 - tree survey for whole site
 - preparation work for excavation at section CH0+550 to 0+800 (Zone 33-34) PlanID:1022308

Environmental Monitoring and Audit Works

- 3. Environmental monitoring and audit works for the Project was commenced on 17 March 2010 in advanced of commencement of construction to monitoring the impact resulted from site preparation work.
- 4. Environmental monitoring and audit works for the Project is stipulated in the approved EM&A Manual. Site audits were conducted once per week. Environmental site audits were conducted on 5, 12, 19 and 25 May 2010. No non-compliance was observed during the site audits.
- 5. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
- 6. Summary of the events and action taken in the reporting month is tabulated in **Table I**.

 Table I
 Summary Table for Events Recorded in the Reporting Month

Parameter	No. of 1	Events	No. of Events	Action Taken
rarameter	Action Level	Limit Level	Due to the Project	Action Taken
Noise	0	0	0	N/A

Construction Noise

7. All construction noise monitoring was conducted as scheduled in reporting month. No Action/Limit Level exceedance was recorded.

Environmental Licenses and Permits

8. Licenses/Permits granted to the Project include Environmental Permit, Billing Account under Waste Disposal Ordinance, Notification pursuant to Section 3(1) of the Air Pollution Control Ordinance (Construction Dust) Regulation and Registration as Chemical Waste Producer.

Key Information in the Reporting Month

9. Summary of key information in the reporting month are in **Table II**.

Table II Summary of Key Information in the Reporting Month

-	Event Details			Q		
Event	Number	Nature	Action Taken	Status	Remark	
Complaint received	0		N/A	N/A		
Changes to the assumptions and key construction / operation activities recorded	0		N/A	N/A		
Status of submissions under EP	1	Monthly EM&A Report	Submitted to EPD on 14 May 2010	No Comment		
Notifications of any summons & prosecutions received	0		N/A	N/A		

Future Key Issues:

Major site activities for the coming two months include:

- Tree felling, tree protection, tree pruning for whole site
- Excavation, fix rebar, install steel post, concreting, erect fencing for the following sections:
 - i. CH0+550 to 0+800 (Zone 33-34) PlanID:1022308
 - ii. CH1+600 to !+850 (Zone 42-43) PlanID 1022376
 - iii. CH 0+800 to CH 1+050 (Zone 35- Zone 37)PlanID: 1006319
 - iv. CH 1+050 to CH 1+650 (Zone 37 Zone 42)PlanID:1006321
 - v. CH 2+150 to CH 2+550 (Zone 46 Zone 49)PlanID:1006325

The anticipated environmental impact will be mainly on noise and dust emission.

1 INTRODUCTION

Background

- 1.1 The Project "Construction of a Secondary Boundary Fence from Mai Po to Lok Ma Chau Control Point" with a Contract No. SS W317 is the Section 1 of the "Construction of a Secondary boundary Fence and new sections of Primary Boundary Fence and Boundary Patrol Road". Hong Kong Kwong Tai Builders Limited (hereinafter called the "Contractor") was commissioned by Architectural Services Department (ArchSD) of the Hong Kong Special Administrative Region (HKSAR) to undertake the construction.
- 1.2 The Project mainly comprises a construction purposed to erect a secondary fence along the existing boundary patrol road (approximately 4.1 km) and replace the existing checkpoint at Pak Hok Chau. **Figure 1.1** shown site layout plan.
- 1.3 An Environmental Permit No. EP-347/2009 was issued on 5 June 2009 to the Secretary for Security as the Permit Holder for "Construction of a Secondary Boundary Fence and new sections of Primary Boundary Fence and Boundary Patrol Road". Later, a Further Environmental Permit (No. FEP-01/347/2009) (hereinafter called the FEP) was issued on 19 February 2010 to Contractor as Permit Holder for the Project.
- 1.4 An environmental impact assessment (EIA) report of the Construction of a Secondary Boundary Fence and new sections of Primary Boundary Fence and Boundary Patrol Road (Register No. AEIAR-136/2009) has been prepared in January 2009.
- 1.5 The Environmental Monitoring and Audit Manual (Project's EM&A Manual) was also included as part of the EIA report in the register and the Environmental Monitoring & Audit (EM&A) requirements are specified in Section 10.The Contractor shall follow the requirements stipulated in the EM&A requirements when implementing the Project.
- 1.6 Cinotech Consultants Ltd. (Cinotech) was commissioned by the Contractor to undertake the Environmental Monitoring and Audit (EM&A) works for the Project under Condition 2.1 of FEP.
- 1.7 Environmental monitoring and audit works for the Project was commenced at 17 March 2010.
- 1.8 This is monthly EM&A Report summarizing the EM&A works for the Project in May 2010.

Project Organizations

- 1.9 Different parties with different levels of involvement in the project organization include:
 - The Engineer for the Contract Mott MacDonald Limited (MMD).
 - Contractor Hong Kong Kwong Tai Builders Limited (HKKT).
 - Contractor Environmental Team (CET) Cinotech Consultants Limited (Cinotech).
 - Independent Environmental Checker (IEC) ENVIRON Hong Kong Limited (ENVIRON).
- 1.10 The responsibilities of respective parties are provided in Section 2.2 to 2.7 of the EM&A Manual of the Project.
- 1.11 The key contacts of the Project are shown in Table 1.1.

Table 1.1 Key Project Contacts

Party	Name	Role	Phone No.	Fax No.
Engineer	Mr. Danny Wong	Engineer's Representative	28285921	28271923
Contractor	Mr. Alex Cheung	Site Agent	64731088	27904194
Contractor	Mr. Tony Lau	Environmental Officer	61807827	27894184
	Dr. Priscilla Choy	Contractor's Environmental Team Leader (CETL)	2151 2089	
Contractor's	Ms. Cara Heung	ET Coordinator	2151 2078	3107 1388
ET	Mr. Gary Lau	Audit Team Leader	2151 2098	
	Mr. Henry Leung	Monitoring Team Leader	9779 7340	
IEC	Mr. David Yeung	Independent Environmental Checker (IEC)	3743 0717	3548-6988
IEC	Mr. Simon Lam	Independent Environmental Checker (IEC) Representative	3743 0708	3340-0900

1.12 The organization chart of ET and the Project are shown in **Figure 1.2** and **1.3** respectively.

Construction Programme

- 1.13 The construction activities undertaken in the reporting month were:
 - maintain site office at San Tin
 - tree survey for whole site

• preparation work for excavation at section CH0+550 to 0+800 (Zone 33-34) PlanID:1022308

Summary of EM&A Requirements

- 1.14 The EM&A programme requires construction phase monitoring for construction noise and environmental site audit. The duties and responsibilities comprise the following:
 - > monitor various environmental parameters as specified in the EM&A Manual;
 - analyze the environmental monitoring and audit data;
 - review the EM&A programme to confirm the adequacy and effectiveness of mitigation measures implemented and the validity of the EIA predictions and to identify and adverse environmental impacts arising;
 - rearry out site inspection to investigate and audit the Contractor's site practice, equipment and work methodologies with respect to pollution control and environmental mitigation, and effect proactive action to pre-empt problems;
 - ➤ audit and prepare EM&A reports on the site environmental conditions;
- report the environmental audit results to the Contractor;
- recommend appropriate mitigation measures to the Contractor in case of exceedance of Action and Limit Levels in accordance with the Event and Action Plans
- 1.15 Summary of monitoring requirements are shown in the table below:

Table 1.2 Monitoring Requirements

Monitoring Station	Parameter (Noise), dB(A)	Period	Frequency	Measurement
VH 01 and VH 03	$L_{10}(30 \text{ min.})$ $L_{90}(30 \text{ min.})$ $L_{eq}(30 \text{ min.})$	07:00-19:00 hours on normal weekdays (During construction)	Once per week	Façade

- 1.16 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 3 of this report.
- 1.17 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the required monitoring parameters, namely noise levels and audit works for the Project in May 2010.

2 NOISE

Monitoring Requirements

2.1 In accordance with the EM&A Manual, two noise monitoring stations (VH01and VH03) out of ten noise monitoring stations in EIA report were considered representative for Section 1 and designated for impact noise monitoring. **Appendix A** shows the established Action/Limit Levels for the environmental monitoring works.

Monitoring Locations

2.2 **Table 2.1** describes the locations of the monitoring stations and their locations are shown in **Figure 2.1**.

Table 2.1 Locations of Noise Monitoring Stations

Monitoring Station	Location
VH01	
VH03	Village House at Mai Po

Monitoring Equipment

2.3 **Table 2.2** summarizes the noise monitoring equipment models being used. Copies of calibration certificates are attached in **Appendix B**.

Table 2.2 Noise Monitoring Equipment

Equipment	Model and Make	Quantity
Integrating Sound Level Meter	SVAN 959 /955	1
Calibrator	B&K4231 / SV30A	1

Monitoring Parameters, Frequency and Duration

2.4 **Table 2.3** summarizes the monitoring parameters, frequency and total duration of monitoring.

 Table 2.3 Noise Monitoring Parameters, Frequency and Duration

Monitoring Station	Time Period	Frequency	Parameter	Method
VH01 and VH03	0700-1900 hrs on weekdays	Once per week	$\begin{split} &L_{eq}(30\text{min.}) \; dB(A) \\ &L_{10}(30\text{min.}) \; dB(A), \; \& \\ &L_{90}(30\text{min.}) \; dB(A) \end{split}$	Façade measurement

Monitoring Methodology and QA/QC Procedures

- The microphone head of the head level meter should position 1m exterior of the noise sensitive facade and lowered sufficiently so that the building's external wall acts as a reflecting surface.
- The battery condition should check to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:

frequency weighting: Atime weighting: Fast

time measurement : 30 minutes / 5 minutes

- Prior to and after each noise measurement, the meter was calibrated using a
 Calibrator for 94 dB at 1000 Hz. If the difference in the calibration level before
 and after measurement was more than 1 dB(A), the measurement was considered
 invalid and repeat of noise measurement was required after re-calibration or repair
 of the equipment.
- The wind speed was frequently checked with the portable wind meter.
- At the end of the monitoring period, the L_{eq} , L_{90} and L_{10} were recorded. In addition, site conditions and noise sources were record on a standard record sheet.
- Noise measurement was paused during periods of high intrusive noise if possible and observation was recorded when intrusive noise was not avoided.
- Noise monitoring was cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s.

Maintenance and Calibration

- 2.5 Maintenance and Calibration procedures were as follows:
 - The microphone head of the sound level meter and calibrator were cleaned with a

soft cloth at quarterly intervals.

• The meter and calibrator would send to laboratory to check and calibrate at yearly intervals.

Results and Observations

- 2.6 All construction noise monitoring at two designated locations were conducted as scheduled in the reporting month. The Monitoring scheduled is shown in **Appendix J.**
- 2.7 No Action/Limit Level exceedance was recorded in the reporting month. Summary of exceedance is shown in **Appendix C.**
- 2.8 The effects of weather condition on the monitoring results are insignificant and the major noise source identified for these monitoring stations was road traffic noise. Weather condition, noise monitoring results and graphical presentations are shown in **Appendix D**.
- 2.9 In accordance with Condition 5.2 of the EP, all environmental monitoring data was made available to the public via internet access at the website http://www.cinotech.com.hk/projects/SBF.
- 2.10 All the Construction Noise Levels (CNLs) reported in this report had been adjusted with the corresponding baseline levels (i.e. Measured Leq Baseline Leq = CNL), in order to facilitate the interpretation of the noise exceedance. The baseline noise level and the allowed CNL at each construction noise monitoring station are presented in **Table 2.4**.

Table 2.4 Baseline Noise Levels and Allowed Construction Noise Level (CNL) for the Monitoring Stations

Station	Baseline Noise Level, dB (A)	Allowed CNL, dB (A)
VH01 Villager House	56.4	75
VH03 Villager House	49.8	75

3 ENVIRONMENTAL AUDIT

Environmental Site Audits

- 3.1 Environmental site audits were carried out on weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.
- 3.2 Site audits for the Project in the reporting month were conducted on 5, 12, 19 and 25 May 2010. No non-compliance was observed during the site audits.
- 3.3 Site inspections were undertaken to ensure and check the compliance with the FEP and that the implementation and maintenance of air quality, water quality, ecology and landscape and visual mitigation measures are being properly carried out in the reporting month in accordance to section 3.2, 5.2, 6.2 and 7.3 of the EM&A Manual respectively. No non-compliance was observed during the site inspections.
- 3.4 The summaries of site audits are attached in **Appendix E**.
- 3.5 During site inspections in the reporting month, no non-conformance was identified. The observations and recommendations are summarized in **Table 3.1**.

Table 3.1 Observations and Recommendations of Site Audits

Parameters	Date (Ref. no.)	Observations	Remediation/ Follow up
	05-05-10 (00505-R(2))	Oil and grease were observed at gate No.40. Contractor was reminded to remove it regularly	The situation was improved / rectified on 13-05-10.
Water Quality	12-05-10 (00512-R(2))	Ponding water is observed. Contractor was reminded to clear it or apply mosquito pesticide.	The situation was improved / rectified on 19-05-10.
	05-05-10 (00505-R(1))	To erect protection fence surrounding the remaining retaining trees.	The situation was observed outstanding and remarked as item 000513-R(1) on 13-05-10.
Landscape and Visual	12-05-10 (00512-R(1))	To erect protection fence surrounding the remaining retaining trees.	The situation was observed outstanding and remarked as item 000519-R(1) on 19-05-10.
	19-05-10 (00519-R(1))	To erect protection fence surrounding the remaining retaining trees.	The situation was observed outstanding and remarked as item 000525-R(1) on 25-05-10.
	25-05-10 (00525-R(1))	To erect protection fence surrounding the remaining retaining trees.	The situation will be followed up during the coming audit sessions.

9

Status of Environmental Licensing and Permitting

3.6 Environmental license or permit obtained in the reporting month is shown in **Table 3.2.**

 Table 3.2
 Environmental License or Permit Obtained in Reporting Month

Type of License/	Name	Valid P	eriod	D.4.21.	C4-4
Permit	Number	From	То	Details	Status
Further Environmental Permit	FEP-01/347 /2009	19/02/2010	N/A	Location: Boundary patrol road between Mai Po and Lok Ma Chau Control Point	Vaild
Registration as Chemical Waste Producer	5213-542- H3263-02	29/03/2010	N/A	i) Location of waste is produced: Border Road, Yuen Long ii) Major chemical waste: Waste paint drum, waste paint can and waste paint.	Vaild
Billing Account under Waste Disposal Ordinance	7010229	11/02/2010	N/A	Disposal of construction and demolition waste under Waste Disposal Ordinance	Valid
Notification pursuant	314415	23/02/2010	N/A	Notification pursuant to Section 3(1) of the Air Pollution Control Ordinance (Construction Dust) Regulation	N/A

Status of Waste Management

3.7 The amount of waste generated by the construction activities of the Project in the reporting month is shown in **Appendix F**.

Implementation Status of Environmental Mitigation Measures

3.8 According to the Environmental Permit and the EM&A Manual, the mitigation measures detailed in the documents are required to be implemented. Details of implementation Status of Environmental Mitigation Measures are provided in **Appendix G**.

Implementation Status of Event Action Plans

3.9 The Event Action Plans for construction noise are presented in **Appendix H**.

Construction Noise

3.10 No Action/Limit Level exceedance was reported in the reporting month.

Summary of Complaints and Prosecutions

3.11	No environmental complaint and prosecution related to the Project works was received
	in the reporting month.

4 FUTURE KEY ISSUES

Key Issues for the Coming Month

- 4.1 Key issues to be considered in the coming month include:
 - Tree felling, tree protection, tree pruning for whole site
 - Excavation, fix rebar, install steel post, concreting, erect fencing for the following sections:
 - i. CH0+550 to 0+800 (Zone 33-34) PlanID:1022308
 - ii. CH1+600 to !+850 (Zone 42-43) PlanID 1022376
 - iii. CH 0+800 to CH 1+050 (Zone 35- Zone 37) PlanID: 1006319
 - iv. CH 1+050 to CH 1+650 (Zone 37 Zone 42) PlanID:1006321
 - v. CH 2+150 to CH 2+550 (Zone 46 Zone 49) PlanID:1006325

Construction Program for the Next Month

4.2 The tentative construction program for the Project is provided in **Appendix I**.

Monitoring Schedule for the Next Month

4.3 The tentative environmental monitoring schedule for coming month for the Project is provided in **Appendix J**.

5 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

- 5.1 Four environmental site audits were performed in May 2010. No non-compliance was observed during the site audits.
- 5.2 All construction noise monitoring was conducted as scheduled in the reporting month. All monitoring results were checked and reviewed. No Action/Limit Level exceedance was recorded.
- 5.3 No environmental complaint and prosecution related to the project was received in the reporting month.

Recommendations

5.4 According to the environmental audits performed in the reporting month, the following recommendations are recommended:

Dust Impact

- To ensure water spray is applied for the dust emissive works, such as breaking, loading and unloading of soil materials;
- To implement dust suppression measures on haul road, stockpiles and dry surfaces.

Noise Impact

- To space out noisy equipment and position as far away as possible from sensitive receivers.
- To review the works sequence of site activities so as to reduce the number of noisy equipment in concurrent operation.
- To provide temporary noise barriers for noisy activities, such as breaking works and drilling works.
- To employ quiet powered mechanical equipment if possible.
- To ensure compliance of CNP conditions during restricted-hour works.

Water Quality Impact

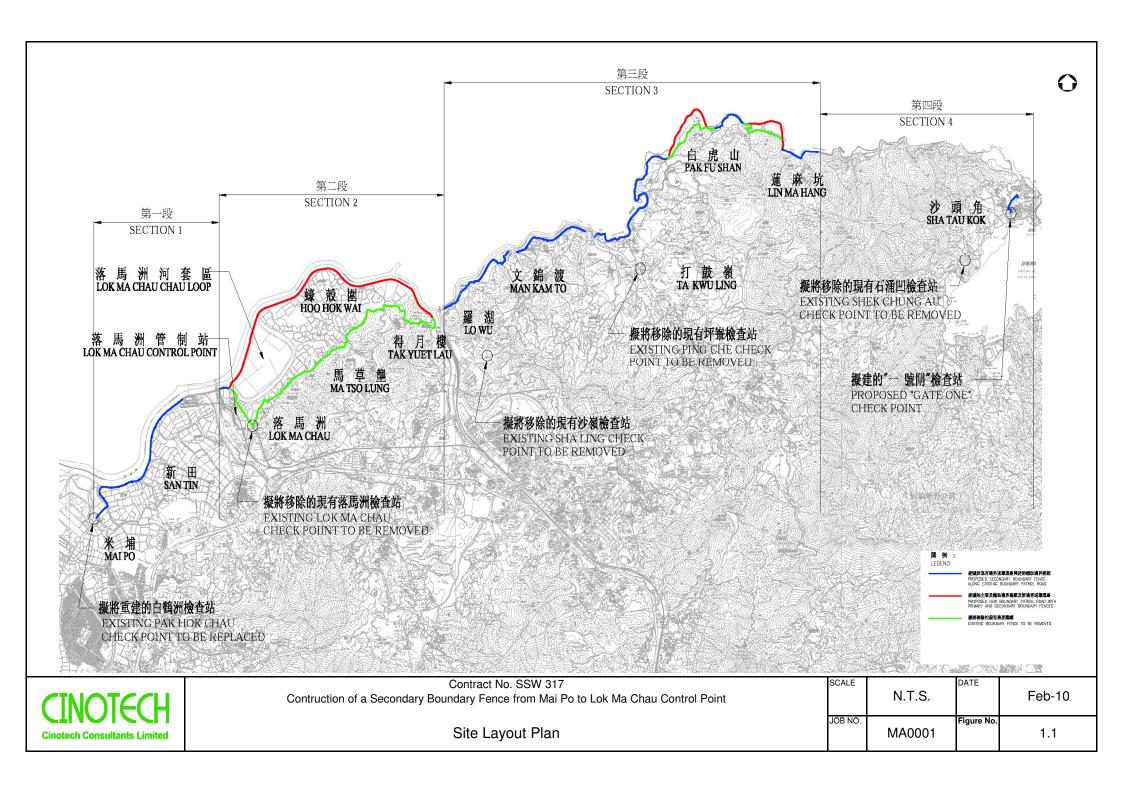
- To identify any wastewater discharges from site;
- To regularly maintain the condition of u-channel, catch pits and wheel washing facilities on site:
- To regularly maintain the sediment control measures after rainstorms;

- To avoid water from accumulation on site and carry out larviciding against mosquito breeding for stagnant water when mosquito larvae are observed;
- To ensure wastewater removed by dumps from the U-chancels to prevent flooding and over flow.

Waste/Chemical Management

- To check for any accumulation of waste materials or rubbish on site;
- To avoid any discharge of chemical waste or oil directly from the site;
- To well maintain the equipments and drip trays to avoid oil leakage;
- To avoid improper handling or storage of oil and paint drum on site.

FIGURE



Environmental Team Leader Dr. Priscilla Choy (Tel: 2151 2089)

Project Coordinator

- coordination of the Project and compile reports

Cara Heung (Tel: 2151 2078)

Monitoring Team

- perform environmental monitoring works

Team Leader: Henry SM Leung (Tel: 2151 2087)

Team Members: Tang Wing Kwai, Yeung Wing Kun, Tsang Tsz Keung, Tao Ching Hang, Choi Wai Yi.

Audit Team

- conduct site inspection, complete the environmental checklist once a week

Team Leader: Gary Lau (Tel: 2151 2098)

Team Members: Ivy Tam, Cara Heung, Sam Lam, Mark Fong

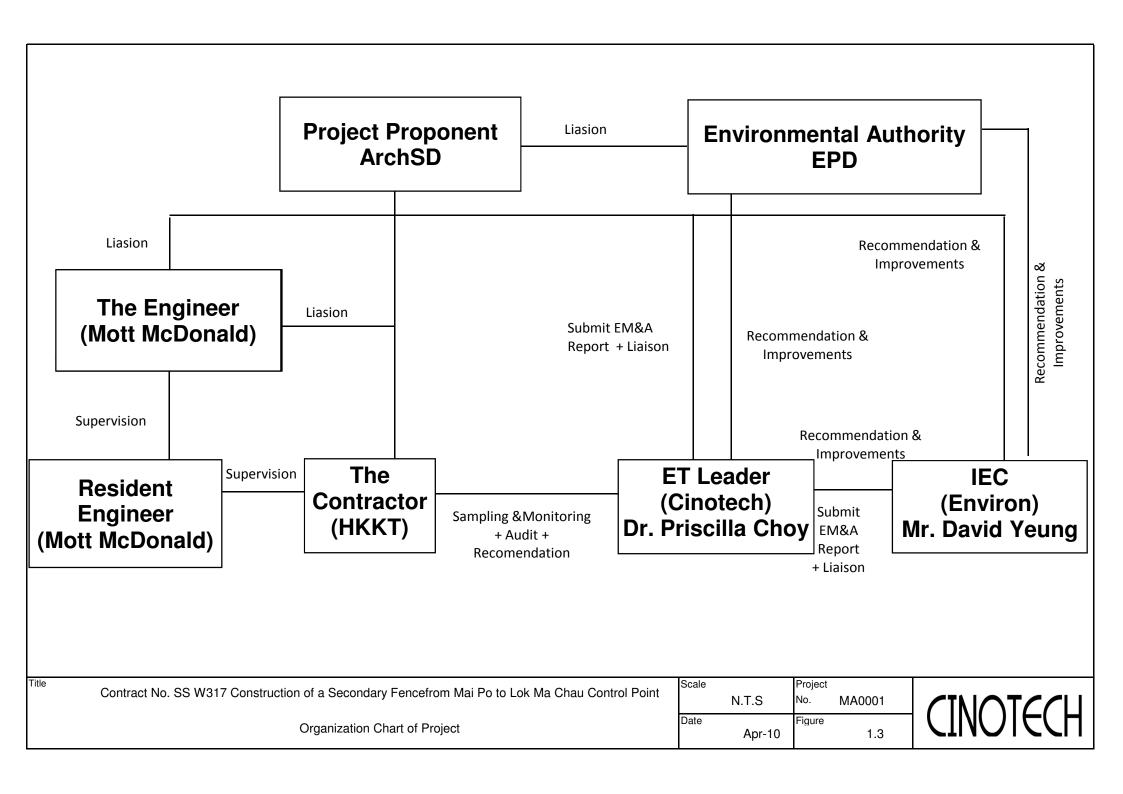
Title

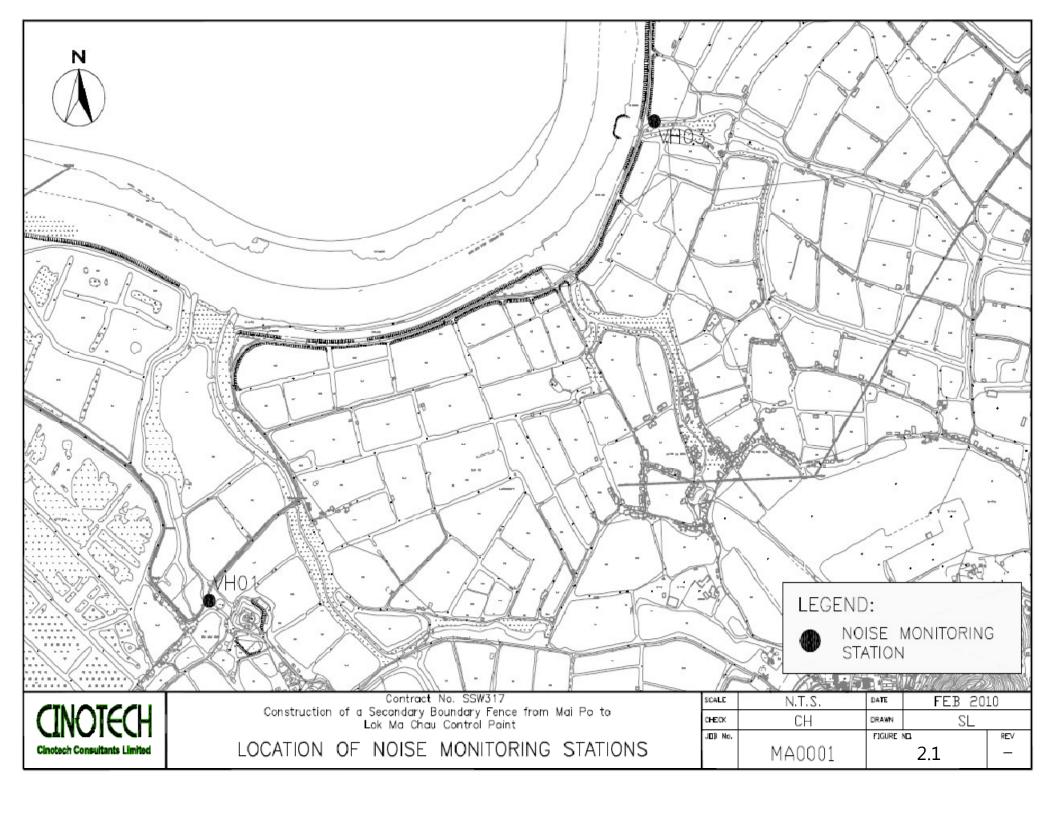
Contract No: SSW 317 Construction of a Secondary Boundary Fence from Mai Po to Lok Ma Chau Control Point

ET Organization Chart

Scale		Project	
	N.T.S	No.	MA0001
Date		Figure	
	Apr-10		1.2







APPENDIX A ACTION AND LIMIT LEVELS

Appendix A - Action and Limit Level for Construction Noise

Time Period	Action Level	Limit Level
0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A)

APPENDIX B COPIES OF CALIBRATION CERTIFICATES



WELLAB LIMITED

Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076

Website: www.wellab.com.hk

TEST REPORT

APPLICANT:

Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/N/100123/1
Date of Issue: 2010-01-23

Date of Issue: 2010-01-23 Date Received: 2010-01-22

Date Tested: 2010-01-23

Date Completed: 2010-01-23 Next Due Date: 2011-01-22

ATTN:

Mr. Henry Leung

Page:

1 of 1

Certificate of Calibration

Item for calibration:

Description

: 'SVANTEK' Integrating Sound Level Meter

Manufacturer

: SVANTEK

Model No.

: SVAN 955

Serial No.

: 14303

Microphone No.

: 17204

Equipment No.

: N-08-05

Test conditions:

Room Temperatre

: 21 degree Celsius

Relative Humidity

: 56%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE

Laboratory Manager



Room 1516 & 816, Technology Park 18 On Lat Street, Shatin, N.T., Hong Kong Tel 2898 7388 Fax 2898 7076 Website: http://www.wellab.com.id B-mail_wellab@wellab.com.id

TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/N/90925/2
Date of Issue: 2009-09-25
Date Received: 2009-09-24
Date Tested: 2009-09-24
Date Completed: 2009-09-25
Next Due Date: 2010-09-24

ATTN:

Mr. Henry Leung

Page:

1 of 1

Item for calibration:

Description

: Acoustical Calibrator

Manufacturer

: SVANTEK

Model No.

: SV30A

Serial No.

: 10929

Equipment No.

: N-09-01

Test conditions:

Room Temperatre

: 23 degree Celsius

Relative Humidity

: 58%

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE

Laboratory Manager

APPENDIX C SUMMARY OF EXCEEDANCE

Appendix C – Summary of Exceedance

Reporting Month: May 2010

Exceedance Report for Construction Noise (NIL)

APPENDIX D NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

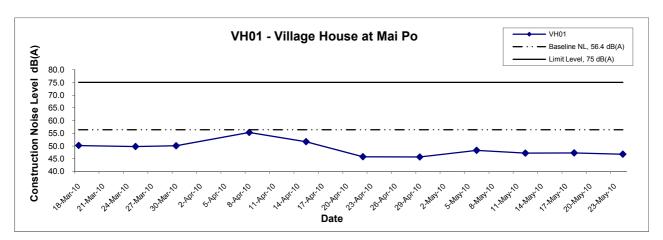
Appendix D - Noise Monitoring Results

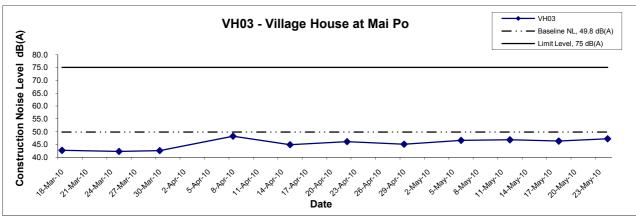
Location VH01 - Village House at Mai Po								
				Unit: dB (A) (30-min)				
Date	Time	Weather	Meas	sured Noise	Level	Baseline Level	Construction Noise Level	
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}	
6-May-10	09:00	Cloudy	48.3	50.8	45.1		48.3 Measured ≤ Baseline	
12-May-10	09:00	Cloudy	47.2	49.0	44.3	56.4	47.2 Measured ≤ Baseline	
18-May-10	09:00	Sunny	47.3	48.5	44.5	50.4	47.3 Measured ≤ Baseline	
24-May-10	09:00	Sunny	46.8	49.5	45.0		46.8 Measured ≤ Baseline	

Location VH03 - Village House at Mai Po								
				Unit: dB (A) (30-min)				
Date	Time	Weather	Meas	sured Noise	Level	Baseline Level	Construction Noise Level	
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}	
6-May-10	09:45	Cloudy	46.6	48.3	45.7		46.6 Measured ≤ Baseline	
12-May-10	09:45	Cloudy	46.8	49.7	43.1	49.8	46.8 Measured ≤ Baseline	
18-May-10	09:45	Sunny	46.3	48.5	43.5	49.0	46.3 Measured ≤ Baseline	
24-May-10	09:40	Sunny	47.2	49.5	45.5		47.2 Measured ≤ Baseline	

MA0001/App D - Noise Cinotech

Noise Levels





Title Contract No. SSW317
Construction of a Secondary Boundary Fence
from Mai Po to Lok Ma Chau Control Point

Graphical Presentation of Construction Noise Monitoring Results

 Scale
 Project No.

 N.T.S
 MA0001

 Date
 Appendix

May 10

D



APPENDIX E SITE AUDIT SUMMARY

Contract No. SS W317

Construction of a Secondary Boundary Fence from Mai Po to Lok Ma Chau Control Point Weekly Site Inspection Record Summary Inspection Information

Inspection information	
Checklist Reference Number	00505
Date	5 May 2010 (Wednesday)
Time	14:30-16:00

Ref. No.	Non-Compliance	Related Item No.
. Kei. No.	None identified	item No.
-	None identified	Related
Ref. No.	Remarks/Observations	Item No.
110111101	B. Water Quality	item ivo.
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	No environmental deficiency was identified during site inspection.	

	Reminders	Related Item No.
	The Contractor was reminded to implement the following preventive measures:	
	B. Water Quality	
00505-R(2)	Oil and grease were observed at gate No.40. Contractor was reminded to remove it regularly.	B 8ii
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Landscape	
00505-R(1)	To erect protection fence surrounding the remaining retaining trees.	FI
	G. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	• Environmental deficiencies were not rectified/improved by the Contractor during the site inspection: item 00428-R(1) is remarked as item 00505-R(1)	

	Name	Şignature	Date
Recorded by	Gary Lau	Myn la.	6 May 2010
Checked by	Dr. Priscilla Choy	WI	6 May 2010

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Contract No. SS W317

Construction of a Secondary Boundary Fence from Mai Po to Lok Ma Chau Control Point Weekly Site Inspection Record Summary Inspection Information

Checklist Reference Number	00512
Date	12 May 2010 (Wednesday)
Time	14:30 – 16:00

Ref. No.	Non-Compliance	Related
-	None identified	Item No
	TONE INDIVIDUAL	D-1-4-3
Ref. No.	Remarks/Observations	Related
24017 1 101	B. Water Quality	Item No
	No environmental deficiency was identified during site inspection.	
	- 130 environmental denotoney was identified during site inspection,	·
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	·	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	No environmental deficiency was identified during site inspection.	

	Reminders	Related Item No.
	The Contractor was reminded to implement the following preventive measures:	
	B. Water Quality	
00512-R(2)	Ponding water is observed. Contractor was reminded to clear it or apply mosquito pesticide.	B 15
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Landscape	
00512-R(1)	To erect protection fence surrounding the remaining retaining trees.	F 1
	G. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	• Environmental deficiencies were not rectified/improved by the Contractor during the site inspection: item 00505-R(1) is remarked as item 00512-R(1)	

	Name	Signature	Date
Recorded by	Gary Lau	Gan lan	12 May 2010
Checked by	Dr. Priscilla Choy	WI	12 May 2010

Contract No. SS W317

Construction of a Secondary Boundary Fence from Mai Po to Lok Ma Chau Control Point Weekly Site Inspection Record Summary Inspection Information

Checklist Reference Number	00519
Date	19 May 2010 (Wednesday)
Time	15:00 – 16:30

D.C.M.	Non-Consult	Related
Ref. No.	Non-Compliance	Item No
	None identified	-
		Related
Ref. No.	Remarks/Observations	Item No
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E Wanta / Chambad Managamad	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	No environmental deficiency was identified during site inspection.	

	Reminders	Related
	The Contractor was reminded to implement the following preventive measures:	Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Waste / Chemical Management	·
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Landscape	• • • • • • • • • • • • • • • • • • • •
00519-R(1)	To erect protection fence surrounding the remaining retaining trees.	F I
	G. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	• Environmental deficiencies were not rectified/improved by the Contractor during the site inspection: item 00512-R(1) is remarked as item 00519-R(1)	

	Name	Signature	Date
Recorded by	Gary Lau	branz L.	20 May 2010
Checked by	Dr. Priscilla Choy	WI	20 May 2010

Contract No. SS W317

Construction of a Secondary Boundary Fence from Mai Po to Lok Ma Chau Control Point

Weekly Site Inspection Record Summary Inspection Information

Checklist Reference Number	00525
Date	25 May 2010 (Wednesday)
Time	14:00-15:00

D-C M-	N. C. II	Related
Ref. No.	Non-Compliance	Item No.
-	None identified	-
		Related
Ref. No.	Remarks/Observations	Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	No environmental deficiency was identified during site inspection.	

	Reminders	Related				
		Item No.				
	The Contractor was reminded to implement the following preventive measures:					
	B. Water Quality					
	No environmental deficiency was identified during site inspection.					
	C. Air Quality					
	No environmental deficiency was identified during site inspection.					
	D. Waste / Chemical Management					
	No environmental deficiency was identified during site inspection.					
	E. Waste / Chemical Management					
	No environmental deficiency was identified during site inspection.					
	F. Landscape					
00525-R(1)	To erect protection fence surrounding the remaining retaining trees.	F 1				
	G. Permits/Licences					
	No environmental deficiency was identified during site inspection.					
	H. Others					
	• Environmental deficiencies were not rectified/improved by the Contractor during the site inspection: item 00519-R(1) is remarked as item 00525-R(1)					

	Name	Şignature	Date
Recorded by	Gary Lau	Grang Le	31 May 2010
Checked by	Dr. Priscilla Choy	WI	31 May 2010

APPENDIX F SUMMARY OF WASTE GENERATED

Contract No.: SS W317

Monthly Summary Waste Flow Table for May[2010] [to be submitted not later than the 15th day of each month following reporting month]

(All quantities shall be rounded off to 3 decimal places.)

	Actual Quantities of Inert Construction Waste Generated Monthly					Actual Quantities of Non-inert Construction Waste Generated Monthly				ed Monthly
Month	(a)=(b)+(c)+(d)+(e) Total Quantity Generated	(b) Broken Concrete (see Note 4)	(c) Reused in the Contract	(d) Reused in other Projects	(e) Disposed of as Public Fill	(f) Metals	(g) Paper/ cardboard packaging	(h) Plastics (see Note 3)	(i) Chemical Waste	(j) Others, e.g. general refuse disposed of at Landfill
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	0	0	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0	0	0.006
May	0	0	0	0	0	0	0	0	0	0
Jun										
Sub-total	0	0	0	0	0	0	0	0	0	0.006
Jul										
Aug										
Sep										
Oct										
Nov										
Dec										
Total										

Notes:

- (1) The performance targets are given in the Particular Specification on Environmental Management Plan.
- (2) The waste flow table shall also include construction waste that are specified in the Contract to be imported for use at the site.
- (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
- (4) Broken concrete for recycling into aggregates.
- (5) If necessary, use the conversion factor: 1 full load of dumping truck being equivalent to 6.5 m³ by volume.

APPENDIX G ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

Appendix G - Environmental Mitigation Implementation Schedule (EMIS)

Types of Impacts	Mitigation Measures	Status
	Construction Phase	
	• Excavated dusty materials or stockpile of dusty materials should be covered entirely by impervious sheeting or sprayed with water so as to maintain the entire surface wet, and recovered or backfilled or reinstated within 24 hours of the excavation or unloading.	۸
	The working area of excavation should be sprayed with water immediately before, during and immediately after the operations so as to maintain the entire surface wet.	۸
Air Quality	 Dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting. 	۸
	• Vehicle washing area and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores.	N/A
	The portion of road within 30m of designated vehicle entrance or exit should be kept clear of dusty materials.	۸
	All dusty materials should be sprayed with water prior to any loading, unloading or transfer.	٨
	Vehicle speed should be limited to 10kph except on completed access roads.	٨
	 Vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites. 	N/A
	Construction Phase	
	Adopt the Code of Practice on Good Management Practice to comply with the Noise Control Ordinance (Chapter 400) (for Construction Industry) published by EPD	۸
	Observe and comply with the statutory and non-statutory requirements and guidelines.	^
	Before commencing any work, the Contractor shall submit to the Engineer Representative for approval the method of working, equipment and noise mitigation measures intended to be used at the site.	٨
Noise	The Contractor shall devise and execute working methods to minimise the noise impact on the surrounding sensitive uses, and provide experienced personnel with suitable training to ensure that those methods are implemented.	۸
	Noisy equipment and noisy activities should be located as far away from the NSRs as is practical.	٨
	Unused equipment should be turned off. PME should be kept to a minimum and the parallel use of noisy equipment / machinery should be avoided.	۸
	Regular maintenance of all plant and equipment.	٨

	Material stockpiles and other structures should be effectively utilised as noise barriers, where practicable.	۸
	Use of Quiet Plant and Movable Noise Barrier	
	Purpose-built movable noise barriers should be used to mitigate construction noise directly at sources that are not usually mobile provide that the direct line of sight to the source is blocked.	N/A
	Construction Phase	
	The site should be confined to avoid silt runoff to the site.	٨
	No discharge of silty water into the storm drain and drainage channel within and the vicinity of the site.	٨
	Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials.	۸
	Stockpiles to be covered by tarpaulin to avoid spreading of materials during rainstorms;	٨
	Suitable containers shall be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport.	۸
	Chemical waste containers shall be labelled with appropriate warning signs in English and Chinese to avoid accidents. there shall also be clear instructions showing what action to take in the event of an accidental.	۸
	Storage areas shall be selected at safe locations on site and adequate space shall be allocated to the storage area.	٨
Water Quality	 Any construction plant which causes pollution to the water system due to leakage of oil or fuel shall be removed off-site immediately. 	۸
water Quanty	Spillage or leakage of chemical waste to be controlled by using suitable absorbent materials.	٨
	Chemicals will always be stored on drip trays or in bunded areas where the volume is 110% of the stored volume.	٨
	Regular clearance of domestic waste generated in the temporary sanitary facilities to avoid waste water spillage.	٨
	Temporary sanitary facilities to be provided for on-site workers during construction	٨
	Concreting Work	
	Set up a temporary drainage channel to collect the runoff generated and prevent concrete-contaminated water from entering watercourses. Adjustment of pH can be achieved by adding a suitable neutralising reagent to wastewater prior to discharge.	۸
	Soil Excavation and Stockpiling	
	Temporarily stockpiled excavated soil should be stored in a designated area and provided with a tarpaulin cover to avoid runoff into the drainage channels.	٨
	Site Depot	

	 All compounds in works areas should be located on areas of hard standing with provision of drainage channels and settlement ponds to allow interception and controlled release of settled/treated water. 	N/A					
	 Hard standing compounds should drain via an oil interceptor, it should be regularly inspected and cleaned to avoid wash-out of oil during storm conditions. A bypass should be provided to avoid overload of the interceptor's capacity. 	N/A					
	Registered as a chemical waste producer for contractor generating waste oil or other chemicals. Disposal of the waste oil should be done by a licensed collector	٨					
	 Appropriate training including safety codes and relevant manuals should be given to the personnel who regularly handle the chemicals on site to keep the storage and the work space in a tidy and clean condition. Construction of Checkpoint 						
	• Sewage system should be constructed to divert domestic sewage, which will be generated from the sanitary facilities provided in the new checkpoint at Shek Chung Au, to public sewer connected to government sewage treatment facilities.	N/A					
	Site Clearance						
	• The topsoil and vegetation removed and excavated material may have to be temporarily stockpiled on-site.to prevent the generation of dust and pollution of stormwater channels, fish ponds or river channels. Stockpiling of excavated materials during the wet season should be avoided as far as practicable.	۸					
	Construction Phase						
	 Good site management to minimize over-ordering and generation of waste materials such as concrete mortars and cement grouts. 						
	The Contractor should recycle as much of the C&D materials as possible on-site.	٨					
	Trip-ticket system should be employed to monitor the disposal of C&D material and solid at public filling facilities and landfills, and to control fly-tipping.	٨					
Waste	Chemical Waste						
	To reduce generating chemical waste as much as possible.	٨					
Management	• Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed, have a capacity of less than 450 litres with label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Regulations.	۸					
	The storage area for chemical wastes should be clearly labelled and used solely for the storage of chemical waste.	٨					
	• The storage area should be enclosed on at least 3 sides, have adequate ventilation with impermeable floor, capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area.	٨					
	Rainfall entering should be avoided entering to storage area and adequately separated with incompatible materials.	۸					
	Disposal of chemical waste should be via a licensed waste collector to licensed facility which can supply the necessary storage containers, or to be re-user of the waste, under approval from the EPD.	٨					

	General Refuse	
	Should be stored in enclosed bins or compaction units separate from C&D and chemical wastes. The Contractor	٨
	should employ a reputable waste collector to remove general refuse from the site, separate from C&D and	
	chemical wastes, on a regular basis to minimise odour, pest and litter impacts. Burning of refuse on construction	
	sites is prohibited by law.	
	Prohibition of refuse burning on construction sites	٨
	Construction Waste Management Plan	
	Construction waste management plan (CWMP) should be prepared	٨
	Contractor should ensure proper collection, treatment and disposal of waste on site.	٨
	Ecological Impacts on Floral Species of Conservation Concern	
	Erection of protective fencing to protect the plant during construction period	٨
	Potential Ecological Impacts on Offsite Habitats	
	Controlling the dust and water quality by avoiding stockpiles adjacent to wetlands and covering the stockpiles	٨
	with impervious sheeting.	
	Controlling vehicle speed and ensure no discharge of silty water to the rivers, streams.	٨
	Disturbance to Wetland-Dependent Birds, Raptors, Terrestrial Birds and Egretry	
Ecology	Restriction of excavation works within a 150m buffer zone from the egretry to ardeid non-breeding season (from	٨
	August to February).	
	Switching off unused equipment, keep minimum number of powered mechanical equipment in operation at the	٨
	same period, the use of stockpiles and other structures to form noise barriers where practicable to avoid causing	
	disturbance to feeding the wildlife.	
	 Proper cover of stockpiles with impervious sheeting to minimize construction noise, uncontrolled surface runoff 	٨
	and discharge of silts.	
	Avoidance of construction works using Power Mechanical Equipments within the Wetland Conservation Area	٨
	during bird migratory season (15th November – 15th March).	
	Preservation of Existing Vegetation throughout construction phase	
	To retain trees that have high amenity or ecology value and contribute most to the landscape and visual amenity	٨
	of the site and its immediate environs.	
	Prohibition of the storage of materials including fuel, the movement of construction vehicles, and the refuelling	^
Landscape and	and washing of equipment including concrete mixers within the precautionary area	
-	 Phased segmental root pruning for trees to be retained over a suitable period (determined by species and size) 	^
Visual	prior to lifting or site formation works which affect the existing rootball of trees identified for retention. The	
	extent of the pruning will be based on the size and the species of the tree in each case.	
	• Pruning of the branches of existing trees identified for retention to be based on the principle of crown thinning	^
	maintaining their form and amenity value.	
	• The watering of existing vegetation particularly during periods of excavation when the water table beneath the	^
	existing vegetation is lowered.	

The rectification and repair of damaged vegetation following the construction phase to it's original condition	٨
prior to the commencement of the works or replacement using specimens of the same species, size and form	
where appropriate to the design intention of the area affected	
All works affecting the trees identified for retention will be carefully monitored, including the key stages in the	٨
preparation of the trees, the implementation of protection measures and health monitoring through out the	
construction period	
Detailed landscape and tree preservation proposals will be submitted to the relevant government departments for	٨
approval under the lease conditions and in accordance with ETWB TCW No. 2/2004 and WBTC No. 3/2006.	
 The tree preservation works should be implemented by approved Landscape Contractors and inspected and 	٨
approved on site by a qualified Landscape Architect. A tree protection specification would be included within	
the contract documents.	
Preservation of Existing Topsoil	
 Topsoil disturbed during the construction phase should be tested using a standard soil testing methodology and 	N/A
where it is found to be worthy of retention stored for re-use.	
The soil will be stockpiled to a maximum height of 2m and will be either temporarily vegetated with	N/A
hydroseeded grass during construction or covered with a waterproof covering to prevent erosion.	
Regularly turned over the stockpile to avoid acidification and the degradation of the organic material, and reused	N/A
after completion.	
 Considered for re-use in other projects when above actions are not practical. 	N/A
Permanent and Temporary Works Areas	
Where appropriate to the final design the landscape of these works areas should be restored following the	N/A
completion of the construction phase.	
Construction site controls should be enforced including the storage of materials, the location and appearance of	٨
site accommodation and the careful design of site lighting to prevent light spillage.	
Mitigation Planting	
Replanting of disturbed vegetation should be undertaken at the earliest possible stage of the construction phase	N/A
• Use of native plant species predominantly in the planting design for the buffer areas.	N/A

Remarks:	^ Compliance of mitigation measure;		X Non-compliance of mitigation measure;		
	N/A	Not Applicable;	•	Non-compliance but rectified by the contractor;	
	*	Recommendation was made during site audit	#	Recommendation was made during site audit	
	but impi	roved/rectified by the contractor.	but not	yet improved/rectified by the contractor.	

APPENDIX H EVENT ACTION PLANS FOR CONSTRUCTION NOISE

Appendix H- Event and Action Plan for Construction Noise

	ACTION						
EXCEEDANCE	ET	IEC	Engineer	Contractor			
Action Level	 Notify IEC and the HKKT. Carry out investigation. Report the results of investigation to IEC and the HKKT. Discuss with the HKKT and formulate remedial measures. Increase monitoring frequency to check mitigation measures. 	Review with analyzed results submitted by ET. Review the proposed remedial measures by the HKKT and advise ER accordingly. Supervise the implement of remedial measures.	Confirm receipt of notification of exceedance in writing. Notify the HKKT. Require the HKKT to propose remedial measures for the analyzed noise problem. Ensure remedial measures are properly implemented.	Submit noise mitigation proposals to IEC. Implement noise mitigation proposals.			
Limit Level	 Identify the source. Notify IEC, ER, EPD and the HKKT. Repeat measurement to confirm findings. Increase monitoring frequency. Carry out analysis of HKKT's working procedures to determine possible mitigation to be implemented. Inform IEC, ER, and EPD the causes & actions taken for the exceedances. Assess effectiveness of the HKKT's remedial actions and keep IEC, EPD and ER informed of the results. If exceedance stops, cease additional monitoring. 	Discuss amongst ER, ET Leader and the HKKT on the potential remedial actions. Review the HKKT's remedial actions whenever necessary to assure their effectiveness and advise ER accordingly. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of exceedance in writing. 2. Notify the HKKT. 3. Require the HKKT to propose remedial measures for the analyzed noise problem. 4. Ensure remedial measures are properly implemented. 5. If exceedance continues, consider what activity of the work is responsible and instruct the HKKT to stop that activity of work until the exceedance is abated.	 Take immediate action to avoid further exceedance. Submit proposals for remedial actions to IEC within 3 working days of notification. Implement the agreed proposals. Resubmit proposals if problem still not under control. Stop the relevant activity of works as determined by the ER until the exceedance is abated. 			

H-1 Cinotech

APPENDIX I TENTATIVE CONSTRUCTION PROGRAMME

Hong Kong Kwong Tai Builders Ltd SS W317 - Construction of a Secondary Boundary Fence From Mai Po to Lok Ma Chau Control Point Date: 16 April 2010 Master Programme 2010年7月 2010年10月 識別 WBS Task Name 工期 開始時間 完成時間 2010年3月 2010年4月 2010年5月 2010年6月 2010年8月 2010年9月 2010年11月 碼 Construction of a Secondary Boundary Fence from Mai Po to 285 days 99/1/15 99/10/26 1 Lok Ma Chau Control Point 99/1/15 99/2/11 2 **1.1** Application of permits and licences required under legislati 28 days 3 1.2 10 days 99/1/21 Conition surveying & submission of report 99/1/30 4 1.3 Site Office setup 45 days 99/2/1 99/3/17 99/2/1 5 **1.4** Site mobilization 45 days 99/3/17 6 1.5 Material submissions 131 days 99/1/20 99/5/30 7 1.5.1 Submission of XPM mesh 70 days 99/1/20 99/3/30 8 1.5.2 Submission of concrete mix design 28 days 99/1/25 99/2/21 9 1.5.3 99/3/5 submission of spacer 28 days 99/4/1 10 1.5.4 submission of sub-base material 1 day 99/5/3 99/5/3 28 days 99/5/3 11 1.5.5 submission of bituminous material 99/5/30 99/3/15 12 **1.6** Initital site survey 30 days 99/4/13 13 **1.7** Mock up panel 42 days 99/3/25 99/5/5 14 **1.7.1** 99/3/25 99/4/21 submission of shop drawing and method statement 28 days 15 **1.7.2** 99/4/22 fix mock up panel 14 days 99/5/5 16 **1.8** Submissions 264 days 99/1/15 99/10/5 17 **1.8.1** Submission to EPD as required under the Environment 99/1/15 99/1/15 1 day 18 **1.8.2** 99/1/15 Submission of temporary traffic arrangement 30 days 99/2/13 19 **1.8.3** submission of safety aspect schedule 30 days 99/1/15 99/2/13 30 days 20 1.8.4 99/1/25 99/2/23 submission of safety plan 21 1.8.5 **Submission of Environmental Management Plan** 14 days 99/1/25 99/2/7 22 **1.8.6** 30 days 99/1/26 99/2/24 submission of waste management plan 23 **1.8.7 Submission of Smart Card System** 14 days 99/1/27 99/2/9 24 **1.8.8** application of excavation permit (XP Permit) 171 days 99/3/20 99/9/6 25 **1.8.8.1** CH0+285 to CH 0+315(Zone 30 - Zone 31) 1 day 99/9/6 99/9/6 26 **1.8.8.2** CH 3+270 to 3+300(Zone 54) 1 day 99/9/1 99/9/1 27 **1.8.8.3** CH 0+285 to CH 0+315(Zone 30 - Zone 31) 1 day 99/9/6 99/9/6 1.8.8.4 28 CH 3+270 to CH 3+300(Zone 54) 1 day 99/9/6 99/9/6 29 1.8.8.5 99/7/12 CH 0+550 to 0+600(Zone 33) 1 day 99/7/12 30 1.8.8.6 CH 2+790 to CH 2+900(Zone 51) 1 day 99/7/12 99/7/12 99/7/12 31 **1.8.8.7** CH 2+900 to 3+030(Zone 51 - Zone 52) 99/7/12 1 day 32 1.8.8.8 99/8/6 CH 3+030 to CH 3+270(Zone 52 - Zone54) 1 day 99/8/6 33 **1.8.8.9** CH 0+000 to CH 0+090(Zone 29) 1 day 99/7/16 99/7/16 34 1.8.8.10 99/8/10 99/8/10 CH 0+090 to CH 0+285(Zone 29 - Zone 30) 1 day 99/7/16 35 **1.8.8.11** CH 0+550 to CH+600(Zone 33) 1 day 99/7/16 36 **1.8.8.12** CH 2+790 to CH 2+900(Zone 51) 1 day 99/7/16 99/7/16 37 **1.8.8.13** 99/7/16 CH 2+900 to CH 3+030(Zone 51 - Zone 52) 99/7/16 1 day 38 1.8.8.14 CH 3+030 to CH 3+270(Zone 52 - Zone 54) 1 day 99/8/10 99/8/10 39 1.8.8.15 CH+000 to CH+090(Zone 29) 1 day 99/7/12 99/7/12 40 **1.8.8.16** CH+090 to CH 0+285(Zone 29 - Zone 30) 1 day 99/8/6 99/8/6 41 1.8.8.17 CH 2+550 to CH 2+790(Zone 49 - Zone 51) 1 day 99/5/13 99/5/13 42 **1.8.8.18** 99/4/17 CH 0+600 to CH 0+800(Zone33 - Zone 35) 1 day 99/4/17 43 **1.8.8.19** CH 0+315 to CH 0+600(Zone 31 - Zone 33) 1 day 99/7/14 99/7/14 44 | 1.8.8.20 CH 0+800 to CH 1+020(Zone 35 - Zone 37) 1 day 99/4/19 99/4/19 45 1.8.8.21 CH 1+020 to CH 1+050(Zone 37) 1 day 99/5/17 99/5/17 1.8.8.22 99/6/16 46 CH 1+050 to CH 1+260(Zone 37 - Zone 39) 1 day 99/6/16 47 1.8.8.23 CH 1+260 to CH 1+500(Zone 39 - Zone 40) 99/8/27 99/8/27 1 day 48 1.8.8.24 CH 1+500 to CH 1+650(Zone 41 - Zone 42) 99/7/28 99/7/28 1 day 49 1.8.8.25 CH 1+650 to CH 1+850(Zone 42 - Zone 44) 1 day 99/3/20 99/3/20 99/4/19 50 1.8.8.26 CH 1+850 to CH 2+070(Zone 44 - Zone 45) 1 day 99/4/19 51 **1.8.8.27** CH 2+070 to CH 2+150(Zone 45 - Zone 46) 1 day 99/5/17 99/5/17 52 **1.8.8.28** 99/6/16 99/6/16 CH 2+150 to CH 2+310(Zone 46 - Zone 47) 1 day 53 **1.8.8.29** CH 2+310 to CH 2+550(Zone 47 - Zone 49) 1 day 99/7/14 99/7/14 54 **1.8.9** Anticipated issued date of excavation permit (XP Perm 169 days 99/4/20 99/10/5

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55 1.8.9.1

CH0+285 to CH 0+315(Zone 30 - Zone 31)

1 day

99/10/5

99/10/5

Hong Kong Kwong Tai Builders Ltd SS W317 - Construction of a Secondary Boundary Fence From Mai Po to Lok Ma Chau Control Point Master Programme Date: 16 April 2010 識別 WBS Task Name 工期 開始時間 2010年3月 2010年4月 2010年6月 2010年8月 2010年10月 2010年11月 2010年5月 2010年7月 2010年9月 碼 24/1|31/1|7/2 |14/2|21/2|28/2|7/3 |14/3|21/3|28/3|4/4 |11/4|18/4|25/4|2/5 |9/5 |16/5|23/5|30/5|6/6 |13/6|20/6|27/6|4/7 |11/7|18/7|25/7|1/8|8/8|15/8|22/8|29/8|5/9|12/9|19/9|26/9|3/10|0/1|7/1|4/1|1/1|4/1|1/1| 56 1.8.9.2 CH 3+270 to 3+300(Zone 54) 99/10/1 99/10/1 1 day 57 1.8.9.3 CH 0+285 to CH 0+315(Zone 30 - Zone 31) 99/10/5 99/10/5 1 day 58 1.8.9.4 99/10/5 CH 3+270 to CH 3+300(Zone 54) 1 day 99/10/5 59 **1.8.9.5** 99/8/12 99/8/12 CH 0+550 to 0+600(Zone 33) 1 day 60 1.8.9.6 99/8/12 99/8/12 CH 2+790 to CH 2+900(Zone 51) 1 day 61 **1.8.9.7** CH 2+900 to 3+030(Zone 51 - Zone 52) 1 day 99/8/12 99/8/12 62 **1.8.9.8** CH 3+030 to CH 3+270(Zone 52 - Zone54) 99/9/6 99/9/6 1 day 63 1.8.9.9 99/8/16 99/8/16 CH 0+000 to CH 0+090(Zone 29) 1 day 1.8.9.10 CH 0+090 to CH 0+285(Zone 29 - Zone 30) 1 day 99/9/10 99/9/10 CH 0+550 to CH+600(Zone 33) 99/8/16 99/8/16 65 **1.8.9.11** 1 day 1.8.9.12 CH 2+790 to CH 2+900(Zone 51) 1 day 99/8/16 99/8/16 67 1.8.9.13 CH 2+900 to CH 3+030(Zone 51 - Zone 52) 1 day 99/8/16 99/8/16 1.8.9.14 CH 3+030 to CH 3+270(Zone 52 - Zone 54) 1 day 99/9/10 99/9/10 69 1.8.9.15 CH+000 to CH+090(Zone 29) 1 day 99/8/12 99/8/12 70 1.8.9.16 CH+090 to CH 0+285(Zone 29 - Zone 30) 1 day 99/9/6 99/9/6 1.8.9.17 71 CH 2+550 to CH 2+790(Zone 49 - Zone 51) 1 day 99/6/13 99/6/13 72 1.8.9.18 CH 0+600 to CH 0+800(Zone33 - Zone 35) 1 day 99/5/16 99/5/16 73 1.8.9.19 CH 0+315 to CH 0+600(Zone 31 - Zone 33) 1 day 99/8/14 99/8/14 74 **1.8.9.20** 99/5/19 CH 0+800 to CH 1+020(Zone 35 - Zone 37) 1 day 99/5/19 75 1.8.9.21 CH 1+020 to CH 1+050(Zone 37) 99/6/17 1 day 99/6/17 76 **1.8.9.22** 99/7/16 99/7/16 CH 1+050 to CH 1+260(Zone 37 - Zone 39) 1 day 77 1.8.9.23 CH 1+260 to CH 1+500(Zone 39 - Zone 40) 1 day 99/9/27 99/9/27 99/8/28 99/8/28 78 **1.8.9.24** CH 1+500 to CH 1+650(Zone 41 - Zone 42) 1 day 79 **1.8.9.25** CH 1+650 to CH 1+850(Zone 42 - Zone 44) 1 day 99/4/20 99/4/20 80 1.8.9.26 99/5/19 CH 1+850 to CH 2+070(Zone 44 - Zone 45) 1 day 99/5/19 81 1.8.9.27 CH 2+070 to CH 2+150(Zone 45 - Zone 46) 1 day 99/6/17 99/6/17 82 **1.8.9.28** CH 2+150 to CH 2+310(Zone 46 - Zone 47) 1 day 99/7/16 99/7/16 99/8/14 83 | 1.8.9.29 CH 2+310 to CH 2+550(Zone 47 - Zone 49) 1 day 99/8/14 99/2/1 84 **1.8.10** Submission of Computer and mobile phone 14 days 99/2/14 85 **1.8.11** Submission of Subcontractor Management Plan 14 days 99/2/8 99/2/21 86 **1.8.12** Submission of EM&A works schedule 99/2/18 99/2/18 1 day 99/2/25 99/3/26 87 **1.8.13** Submission of Landscape Plan 30 days 88 1.8.14 **Submission of Baseline Monitoring Report** 14 days 99/3/1 99/3/14 30 days 89 1.8.15 submission of Site Management plan for trip ticket syst 99/3/15 99/4/13 90 1.8.16 submission of formwork & temporary work design 30 days 99/3/15 99/4/13 91 **1.8.17** submission of welding procedure 30 days 99/4/12 99/5/11 99/4/12 92 **1.8.18** submission of welder certificate 1 day 99/4/12 93 1.8.19 1 day 99/1/15 99/1/15 Submission of fencing shop drawing 94 **1.8.20** 99/1/15 Submission of gate shop drawing 1 day 99/1/15 95 **1.8.21** Submission of method statement for footing at Pak Hol 1 day 99/1/15 99/1/15 96 **1.9** Checking existing underground utilities and submit report 21 days 99/3/15 99/4/4 97 **1.10** 99/1/15 Site clearance prior to work 10 days 99/1/24 98 1.11 Footing construction 190 days 99/4/20 99/10/26 99 1.11.1 工期: 20 days 24 days 99/10/1 99/10/24 100 1.11.1.1 CH0+285 to CH 0+315(Zone 30 - Zone 31) 20 days 99/10/5 99/10/24 101 1.11.1.2 99/10/1 CH 3+270 to 3+300(Zone 54) 20 days 99/10/20 102 1.11.1.3 CH 0+285 to CH 0+315(Zone 30 - Zone 31) 20 days 99/10/5 99/10/24 103 1.11.1.4 CH 3+270 to CH 3+300(Zone 54) 20 days 99/10/5 99/10/24 104 **1.11.2** 54 days 99/8/12 99/10/4 工期: 25 days 105 1.11.2.1 CH 0+550 to 0+600(Zone 33) 25 days 99/8/12 99/9/5 106 1.11.2.2 CH 2+790 to CH 2+900(Zone 51) 25 days 99/8/12 99/9/5 107 1.11.2.3 CH 2+900 to 3+030(Zone 51 - Zone 52) 25 days 99/8/12 99/9/5 108 1.11.2.4 CH 3+030 to CH 3+270(Zone 52 - Zone54) 25 days 99/9/6 99/9/30 109 | 1.11.2.5 CH 0+000 to CH 0+090(Zone 29) 25 days 99/8/16 99/9/9

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25 days

25 days

99/9/10

99/8/16

99/10/4

99/9/9

CH 0+090 to CH 0+285(Zone 29 - Zone 30)

CH 0+550 to CH+600(Zone 33)

110 **1.11.2.6**

111 **1.11.2.7**

Hong Kong Kwong Tai Builders Ltd SS W317 - Construction of a Secondary Boundary Fence From Mai Po to Lok Ma Chau Control Point Rev. B Master Programme Date: 16 April 2010 識別 WBS Task Name 工期 開始時間 完成時間 2010年3月 2010年4月 2010年6月 2010年8月 2010年10月 2010年5月 2010年7月 2010年9月 2010年11月 24/1|31/1|7/2 |14/2|21/2|28/2| 7/3 |14/3|21/3|28/3| 4/4 |11/4|18/4|25/4| 2/5 |9/5 |16/5|23/5|30/5| 6/6 |13/6|20/6|27/6| 4/7 |11/7|18/7|25/7| 1/8 |8/8 |15/8|22/8|29/8|5/9 |12/9|19/9|26/9|3/10|0/1 |7/1 |4/1 |1/1 |7/11|4/1 |1/1 | 112 **1.11.2.8** CH 2+790 to CH 2+900(Zone 51) 99/8/16 99/9/9 25 days 113 **1.11.2.9** CH 2+900 to CH 3+030(Zone 51 - Zone 52) 25 days 99/8/16 99/9/9 114 **1.11.2.10** CH 3+030 to CH 3+270(Zone 52 - Zone 54) 99/9/10 25 days 99/10/4 99/6/13 115 1.11.3 工期: 29 days 114 days 99/10/4 116 1.11.3.1 CH+000 to CH+090(Zone 29) 29 days 99/8/12 99/9/9 117 | 1.11.3.2 CH+090 to CH 0+285(Zone 29 - Zone 30) 29 days 99/9/6 99/10/4 118 1.11.3.3 CH 2+550 to CH 2+790(Zone 49 - Zone 51) 29 days 99/6/13 99/7/11 119 **1.11.4** 99/4/20 99/10/26 工期: 30 days 190 days 120 1.11.4.1 CH 0+600 to CH 0+800(Zone33 - Zone 35) 30 days 99/4/20 99/5/19 CH 0+315 to CH 0+600(Zone 31 - Zone 33) 99/8/14 99/9/12 121 **1.11.4.2** 30 days 122 **1.11.4.3** CH 0+800 to CH 1+020(Zone 35 - Zone 37) 30 days 99/5/19 99/6/17 123 **1.11.4.4** CH 1+020 to CH 1+050(Zone 37) 30 days 99/6/17 99/7/16 124 **1.11.4.5** CH 1+050 to CH 1+260(Zone 37 - Zone 39) 30 days 99/7/16 99/8/14 125 1.11.4.6 CH 1+260 to CH 1+500(Zone 39 - Zone 40) 30 days 99/9/27 99/10/26 99/8/28 126 **1.11.4.7** CH 1+500 to CH 1+650(Zone 41 - Zone 42) 30 days 99/9/26 99/4/20 127 **1.11.4.8** CH 1+650 to CH 1+850(Zone 42 - Zone 44) 30 days 99/5/19 99/5/19 128 **1.11.4.9** 30 days 99/6/17 CH 1+850 to CH 2+070(Zone 44 - Zone 45) 129 **1.11.4.10** CH 2+070 to CH 2+150(Zone 45 - Zone 46) 30 days 99/6/17 99/7/16 130 1.11.4.11 99/7/16 CH 2+150 to CH 2+310(Zone 46 - Zone 47) 30 days 99/8/14 131 **1.11.4.12** 99/8/14 99/9/12 CH 2+310 to CH 2+550(Zone 47 - Zone 49) 30 days 132 **2** 364 days? 99/1/15 100/5/14 Fencing construction 133 **2.1** CH0+285 to CH 0+315(Zone 30 - Zone 31) 1 day? 99/1/15 99/1/15 134 **2.2** CH 3+270 to 3+300(Zone 54) 99/1/15 99/1/15 1 day? 135 **2.3** CH 0+285 to CH 0+315(Zone 30 - Zone 31) 1 day? 99/1/15 99/1/15 136 **2.4** 99/1/15 99/1/15 CH 3+270 to CH 3+300(Zone 54) 1 day? 137 **2.5** CH 0+550 to 0+600(Zone 33) 1 day? 99/1/15 99/1/15 138 **2.6** CH 2+790 to CH 2+900(Zone 51) 1 day? 99/1/15 99/1/15 139 **2.7** 99/1/15 CH 2+900 to 3+030(Zone 51 - Zone 52) 1 day? 99/1/15 140 2.8 CH 3+030 to CH 3+270(Zone 52 - Zone54) 1 day? 99/1/15 99/1/15 141 **2.9** 99/1/15 CH 0+000 to CH 0+090(Zone 29) 1 day? 99/1/15 142 **2.10** CH 0+090 to CH 0+285(Zone 29 - Zone 30) 1 day? 99/1/15 99/1/15 143 **2.11** 99/1/15 CH 0+550 to CH+600(Zone 33) 1 day? 99/1/15 144 **2.12** 99/1/15 CH 2+790 to CH 2+900(Zone 51) 1 day? 99/1/15 145 **2.13** CH 2+900 to CH 3+030(Zone 51 - Zone 52) 1 day? 99/1/15 99/1/15 146 **2.14** CH 3+030 to CH 3+270(Zone 52 - Zone 54) 1 day? 99/1/15 99/1/15 147 **2.15** CH+000 to CH+090(Zone 29) 99/1/15 1 day? 99/1/15 148 **2.16** CH+090 to CH 0+285(Zone 29 - Zone 30) 1 day? 99/1/15 99/1/15 149 **2.17** 99/1/15 99/1/15 CH 2+550 to CH 2+790(Zone 49 - Zone 51) 1 day? 150 **2.18** CH 0+600 to CH 0+800(Zone33 - Zone 35) 1 day? 99/1/15 99/1/15 151 **2.19** 1 day? 99/1/15 99/1/15 CH 0+315 to CH 0+600(Zone 31 - Zone 33) 152 **2.20** CH 0+800 to CH 1+020(Zone 35 - Zone 37) 1 day? 99/1/15 99/1/15 153 **2.21** CH 1+020 to CH 1+050(Zone 37) 1 day? 99/1/15 99/1/15 154 **2.22** 99/1/15 99/1/15 CH 1+050 to CH 1+260(Zone 37 - Zone 39) 1 day? 155 **2.23** CH 1+260 to CH 1+500(Zone 39 - Zone 40) 1 day? 99/1/15 99/1/15 156 **2.24** CH 1+500 to CH 1+650(Zone 41 - Zone 42) 99/1/15 99/1/15 1 day? 157 **2.25** 99/1/15 CH 1+650 to CH 1+850(Zone 42 - Zone 44) 1 day? 99/1/15 158 **2.26** CH 1+850 to CH 2+070(Zone 44 - Zone 45) 1 day? 99/1/15 99/1/15 159 **2.27** CH 2+070 to CH 2+150(Zone 45 - Zone 46) 1 day? 99/1/15 99/1/15 160 **2.28** 99/1/15 CH 2+150 to CH 2+310(Zone 46 - Zone 47) 1 day? 99/1/15 161 **2.29** CH 2+310 to CH 2+550(Zone 47 - Zone 49) 1 day? 99/1/15 99/1/15 162 **2.30** Soft Landscape 300 days 99/3/20 100/5/14 100/5/14 300 days 163 **2.30.1** Tree felling 99/3/20 164 2.30.2 tree pruning 300 days 99/3/20 100/5/14 165 **2.30.3** new plant tree 300 days 99/3/20 100/5/14 166 **3** Remove obstructions 99/4/1 99/5/26 56 days

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Joint inspection with CLP and telephone company for the o

28 days

99/4/1

99/4/28

167 **3.1**

Hong Kong Kwong Tai Builders Ltd

SS W317 - Construction of a Secondary Boundary Fence From Mai Po to Lok Ma Chau Control Point Master Programme

Rev. B Date: 16 April 2010

							aster Programme								Date. 16 April 20
識別碼	WBS	Task Name	工期	開始時間	完成時間	2010年2月	2010年3月	2010年4月		2010年6月	2010年7月	2010年8月	2010年9月	2010年10月	2010年11月
	3.2	anticipated removal of CLP pole and Telephone pole	14 days	99/5/13	99/5/26	[24/1[31/1]] //2 [14/2[2]	1/2 28/2 //3 14/3 21/	/3[28/3] 4/4 [11/4] :: : : : : : : : : : : : : : : : : : :	18/4 25/4 2/5 9/5 16/5 2	23/5 30/5 6/6 13/6 20	0/6[27/6] 4/7 [11/7[18/ 	/[25//] 1/8 8/8 15/8 2	<u> 2/8 29/8 3/9 12/9 19/</u> 	9 <u>[26/9[3/10] 0/1 7/1</u> ::	4/1 1/1 //11 4/1 1/
169	4	Steelwork	307 days?	99/1/15	100/3/18										
170	4.1	Submission of proposed steel fabricator	1 day	99/4/5	99/4/5	\dashv		1							
171		submission of proposed hot-dipped galvanizing factory	1 day	99/4/5	99/4/5										
172	J.	submission and approval of shop drawing	14 days	99/4/6	99/4/19	-		<u> </u>							
173		testing of steel material	14 days	99/4/20	99/5/3	-									
174		procurement of steel material	1 day	99/5/4	99/5/4										
175	4.6	fabrication of steel material	120 days	99/5/5	99/9/1				•						
176	4.7	delivery of steel material to site	120 days	99/5/15	99/9/11										
177	4.8	installation of steel material	180 days	99/5/22	100/3/18									:	
178	4.9	installation of XPM mesh	1 day?	99/1/15	99/1/15										
179	4.10	installation of steel gate	1 day?	99/1/15	99/1/15										
180	4.11	Electrical Installation	250 days	99/3/1	99/11/5										
181	4.11.1	Material and equipment submission	15 days	99/3/1	99/3/15										Ť
182	4.11.2	Shop drawing and method statement	22 days	99/3/16	99/4/6										
183	4.11.3	Cable laying	206 days	99/4/2	99/10/24										▼
184	4.11.3.1	Above ground	9 days	99/4/2	99/4/10										
185	4.11.3.1.	CH3+270 to 4+050 (GATE 24)	9 days	99/4/2	99/4/10										
186	4.11.3.2	under ground	198 days	99/4/10	99/10/24										▼
187	4.11.3.2.	CH 0+600 to CH 0+800 & CH 1+650 to CH 1+	4 days	99/4/10	99/4/13										
188	4.11.3.2.	CH 0+800 to CH 1+020 & CH 1+650 to CH 2+	4 days	99/5/10	99/5/13										
189	4.11.3.2.	CH 1+020 to CH 1+260 & CH 2+070 to CH 2+	4 days	99/6/9	99/6/12										
190	4.11.3.2.	CH 1+260 to CH 1+500 & CH 2+310 to CH 2+	4 days	99/7/9	99/7/12										
	4.11.3.2.		-	99/8/8	99/8/11										
	4.11.3.2.		-	99/9/2	99/9/5										
	4.11.3.2.			99/9/27	99/9/30										
	4.11.3.2.		2 days	99/10/19	99/10/20										
	4.11.3.2.		4 days	99/9/6	99/9/9										
	4.11.3.2.		4 days	99/10/1	99/10/4										_
	4.11.3.2.		-	99/10/23	99/10/24										<u> </u>
	4.11.4	E&M work for Pak Hok Chau check point	18 days	99/10/19	99/11/5										
	4.11.4.1	E&M installation work for Pak Hok Chau Check 1		99/10/19	99/11/2										
	4.11.4.2	-	3 days	99/11/3	99/11/5										_
201	J.	Electrical Installation for No.24 Metal gate	10 days	99/10/15	99/10/24										
202		Construction of Pak Hok Chau Check Point	34 days	99/9/15	99/10/18										
	4.13.1	Excavation	5 days	99/9/15	99/9/19									!	
	4.13.2	Footing	14 days	99/9/20	99/10/3									:	
	4.13.3	Install GBP	15 days	99/10/4	99/10/18										
206		Roadworks	10 days?	99/1/15	99/1/24										
	4.14.1	remove existing road surface	1 day?	99/1/15	99/1/15										
		Laying sub-base material	3 days	99/1/15	99/1/17	_									
	4.14.3	road surface	7 days	99/1/18	99/1/24	_									
210		Site clearance	7 days	99/9/11	99/9/17	_									
211	4.10	Handover	1 day	99/9/18	99/9/18										

Hong Kong Kwong Tai E	Builders Ltd				5	SS W317 - Constr	uction of a Second	ary Boundary Fer Master Progra	nce From Mai Po t amme	o Lok Ma Chau C	ontrol Point					Date: 1	Rev. I 6 April 2010
2010年12月 2011年	年1月	2011年2月	2011年3月	2011年4月	2011年5月	2011年6月	2011年7月	2011年8月	2011年9月	2011年10月	2011年11月	2011年12月	2012年1月	2012年2月	2012年3月	2012年4月	2012
2010年12月 2011 ⁴ 8/1 5/12 2/1 9/1 6/1 2/1 9	9/1 16/1 23/1	30/1 6/2 13/2 20/2	2 27/2 6/3 13/3 20/	3 27/3 3/4 10/4 17/4 24	/4 1/5 8/5 15/5 22/5	29/5 5/6 12/6 19/6 20	5/6 3/7 10/7 17/7 24/7	31/7 7/8 14/8 21/8 2	8/8 4/9 11/9 18/9 25/	/9 2/10 9/10 6/1 3/1	0/1 6/11 3/1 0/1	7/1 4/12 1/1 8/1 5/	1 1/1 8/1 15/1 22/	1 29/1 5/2 12/2 19/	/2 26/2 4/3 11/3 18/3	25/3 1/4 8/4 15/4 2	2/4 29/4 6/5
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Hong Kong Kwo	SS W317 - Construction of a Secondary Boundary Fence From Mai Po to Lok Ma Chau Control Point Master Programme 10年12月 2011年1月 2011年2月 2011年3月 2011年3月 2011年4月 2011年5月 2011年5月 2011年6月 2011年7月 2011年7月 2011年8月 2011年8月 2011年10月 2011年10月 2011年10月 2011年12月 2012年1月 2012年2月 2012年3月 20									to Lok Ma Chau C	ontrol Point					Rev. B Date: 16 April 2010		
2010年12月 8/1 5/12 2/1 9/1	2011年1月 6/1 2/1 9/1 16/1 23/	2011年2月 130/1 6/2 13/2 20/2	2011年3月 227/2 6/3 13/3 20/3	2011年4月 27/3 3/4 10/4 17/4 24	2011年5月 4/4 1/5 8/5 15/5 22	2011年6月 /5 29/5 5/6 12/6 19/6 2	2011年7月 26/6 3/7 10/7 17/7 24	2011年8月 4/7 31/7 7/8 14/8 21/8 2	2011年9月 28/8 4/9 11/9 18/9 25	2011年10月 5/9 2/10 9/10 6/1 3/1	2011年11月 0/1 6/11 3/1 0/1	2011年12月 7/1 4/12 1/1 8/1 5/1	2012年1月 1/1 8/1 15/1 22/1 2	2012年2月 2012 9/1 5/2 12/2 19/2 26/2 4/	2年3月 3 11/3 18/3 25/3	2012年4月 1/4 8/4 15/4 22/4	2012	
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APPENDIX J ENVIRONMENTAL MONITORING SCHEDULE S

Contract No. SS W317 Impact Noise Monitoring for Construction of a Secondary Boundary Fence from Mai Po to Lok Ma Chau Control Point Noise Monitoring Schedule for May 2010

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-May
2-May	3-May	4-May	5-May	6-May	7-May	8-May
				Noise		
9-May	10-May	11-May	12-May	13-May	14-May	15-May
			Noise			
16-May	17-May	18-May	19-May	20-May	21-May	22-May
		Noise				
		110130				
23-May	24-May	25-May	26-May	27-May	28-May	29-May
23-1 v1a y	24-1 vi ay	25-1 v1 ay	20-1414	27-1 via y	20-1414	27-Way
	NI-:					
	Noise					
30-May	31-May					

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

Contract No. SS W317 Impact Noise Monitoring for Construction of a Secondary Boundary Fence from Mai Po to Lok Ma Chau Control Point Tentative Noise Monitoring Schedule for June 2010

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-Jun	2-Jun	3-Jun	4-Jun	5-Jur
	Noise				
7-Jun	8-Jun	9-Jun	10-Jun	11-Jun	12-Jui
		Noise			
14-Jun	15-Jun	16-Jun	17-Jun	18-Jun	19-Jur
	Noise				
21-Jun	22-Jun	23-Jun	24-Jun	25-Jun	26-Ju
	Noise				
28-Jun	29-Jun	30-Jun			
	Noise				
	7-Jun 14-Jun 21-Jun	1-Jun Noise 7-Jun 8-Jun 14-Jun Noise 21-Jun Noise 28-Jun Noise	1-Jun 2-Jun Noise	Noise	Noise Nois

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)