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

November 2011

(Version 1.1)

Certified By	Chapting
	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.

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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 in November 2011.
- 2. The site activity undertaken in the reporting month was:
 - Tree planting and protection works.

Environmental Monitoring and Audit Works

- 3. Environmental monitoring and audit works for the Project was commenced on 17 March 2010.
- 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 2, 8, 16, 22 and 30 November 2011. 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 Events		amotor		Action Taken	
Farameter	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. Substantial completion certificate to the Project was issued by the Architect on 28 September 2011.
- 10. Termination of site inspection and impact noise monitoring of the construction phase EM&A programme was approved by the IEC in the reporting month and is under reviewing by the Project Architect.
- 11. Summary of key information in the reporting month are in **Table II**.

		Event Details			D	
Event	Number	Nature	Action Taken	Status	Remark	
Complaint received	0		N/A	N/A		
Changestotheassumptionsandkeyconstruction/operationactivitiesrecorded	0		N/A	N/A		
Status of submissions	1	EM&A Report of August 2011	Submitted to EPD on 2 November 2011	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: Remaining tree planting works; and Tree protection and maintenance: whole site. 						

Table II Summary of Key Information in the Reporting Month

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. On 9 June 2010, a VEP (EP-347/2009/A) for the whole project was issued to Secretary for Security as the Permit Holder with amendments on the scale and scope of section 4 in whole 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 November 2011.

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.

Party	Name	Role	Phone No.	Fax No.
Engineer	Mr. Peter Tsang	Engineer's Representative	26831179	
Contractor	Mr. Alex Cheung	Site Agent	64731088	27894184
Contractor	Mr. Tony Lau	Environmental Officer	61807827	27894184
	Dr. Priscilla Choy	Contractor's Environmental Team Leader (CETL)	2151 2089	
Contractor's ET	Mr. Gary Lau	Project Coordinator & Audit Team Leader	2151 2098	3107 1388
	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	<i>33</i> 40-0988

Table 1.1Key Project Contacts

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:
 - Tree planting and protection works.

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;
- carry 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; and
- recommending 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:

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

Table 1.2 Monitoring Requirements

- 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 Substantial completion certificate to the Project was issued by the Architect on 28 November 2011.
- 1.18 Termination of site inspection and impact noise monitoring of the construction phase EM&A programme was approved by the IEC in the reporting month and is under reviewing by the Project Architect.
- 1.19 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 November 2011.

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 955	1
Calibrator	SV 30 A	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	L _{eq} (30min.) dB(A) L ₁₀ (30min.) dB(A), & L ₉₀ (30min.) dB(A)	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 : A
 - time 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 2.4Baseline 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	48.9	75

2.11 The wind speed records on monitoring date were shown in **Table 2.5.**

Table 2.5Wind Speed on Monitoring Date

	Wind Spec	ed (m/s)
Monitoring Date	Monitoring	g Station
	VH01	VH03
3/11/2011	0.7	1.8
10/11/2011	2.0	2.1
16/11/2011	1.5	1.8
23/11/2011	1.0	1.3
29/11/2011	0.6	0.5

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 2, 8, 16, 22 and 30 November 2011. 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**.

Parameters	Date (Ref. no.)	Observations	Remediation/ Follow up
Air Quality	N/A	No major environmental deficiency was observed in the reporting month.	N/A
Water Quality	N/A	No major environmental deficiency was observed in the reporting month.	N/A
Landscape and Visual	N/A	No major environmental deficiency was observed in the reporting month.	N/A
Waste / Chemical Management	N/A	No major environmental deficiency was observed in the reporting month.	N/A

 Table 3.1
 Observations and Recommendations of Site Audits

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/	Number	Valid Period		Details	Status
Permit	Number	From	То	Details	Status
VEP	EP-347 /2009/A	15/06/2010	N/A	Location: Boundary patrol road between Mai Po and Lok Ma Chau Control	Valid
FEP	FEP- 01/347/2009	19/02/2010	N/A	Point	Valid

				Monuny EM&A Report – Novemb	
Registration as Chemical Waste Producer	5213-542- H3263-02	29/03/2010	N/A	i) Location of waste is produced: Border Road, Yuen Longii) Major chemical waste: Waste paint drum, waste paint can and waste paint.	Valid
Billing Account under Waste Disposal Ordinance	7010229	11/02/2010	N/A	Disposal of construction and demolition waste under Waste Disposal Ordinance	Valid
Form NA	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 was received in the reporting month. Table 3.3 shows the accumulated number of complaint received since the commencement of the Project.

Table 3.3Accumulated Number of Complaint Received Since theCommencement of the Project

Nature of Complaint	Number of Complaint in the Reporting Month	Accumulated Number of Complaint Since the Commencement of the Project
Public Complaint	0	1

4 FUTURE KEY ISSUES

Key Issues for the Coming Month

- 4.1 Key issues to be considered in the coming month include:
 - Remaining tree planting works; and
 - Tree protection and maintenance: whole site.

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 Five environmental site audits were performed in November 2011. 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 no 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 implement dust suppression measures on haul road, stockpiles and dry surfaces.

Water Quality Impact

• To regularly maintain the condition of u-channel, catch pits and wheel washing facilities on site;

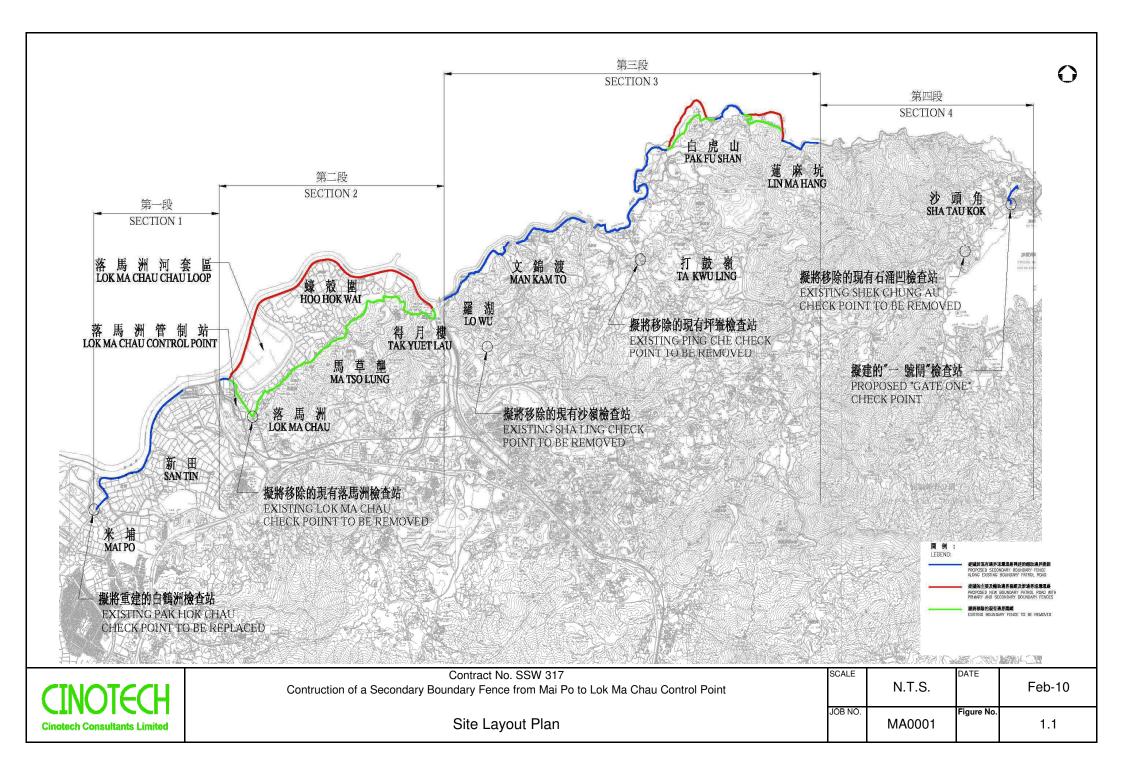
Waste/Chemical Management

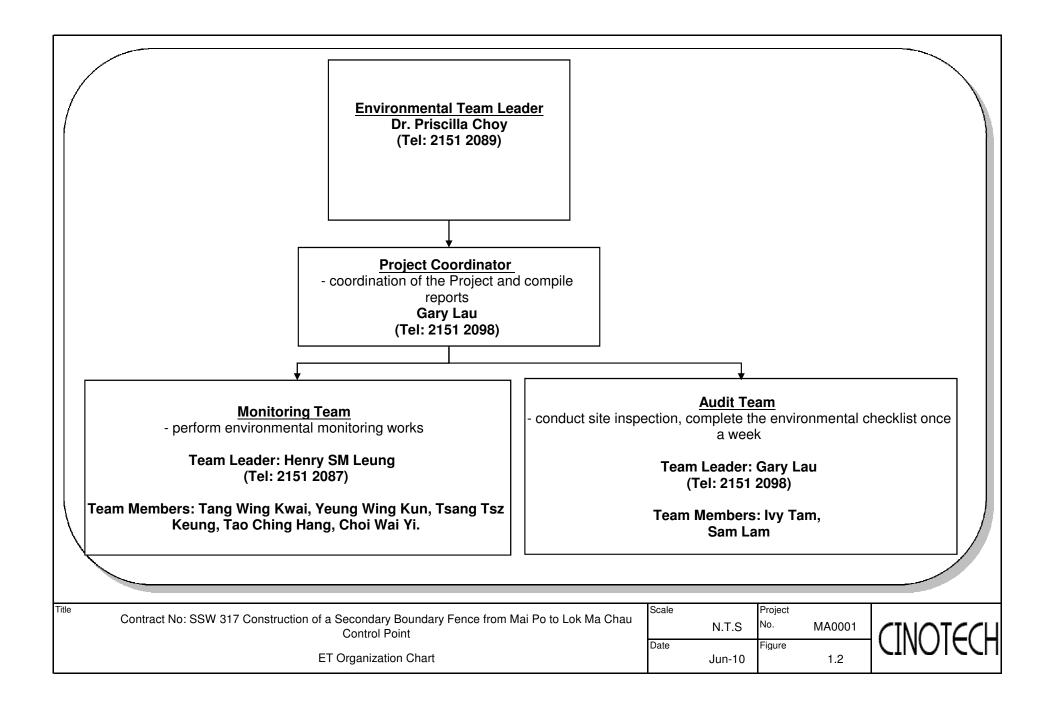
- To check for any accumulation of waste materials or rubbish on site;
- To avoid improper handling or storage of oil and paint drum on site.

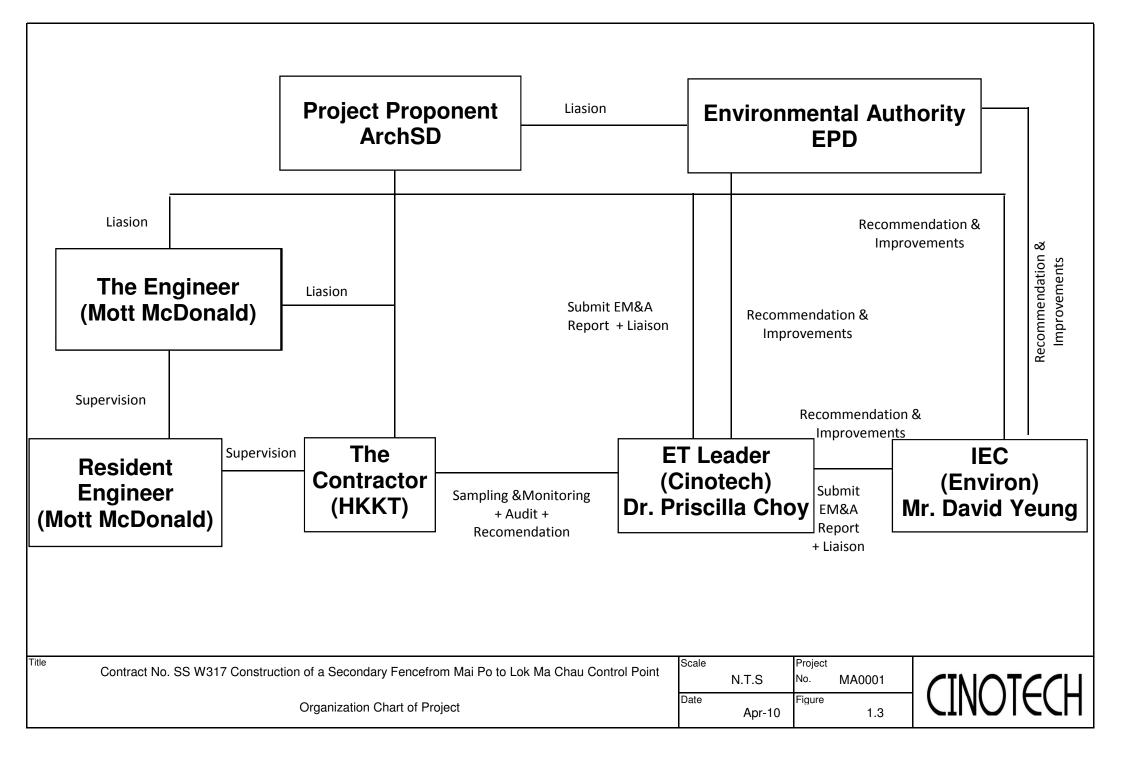
Landscape

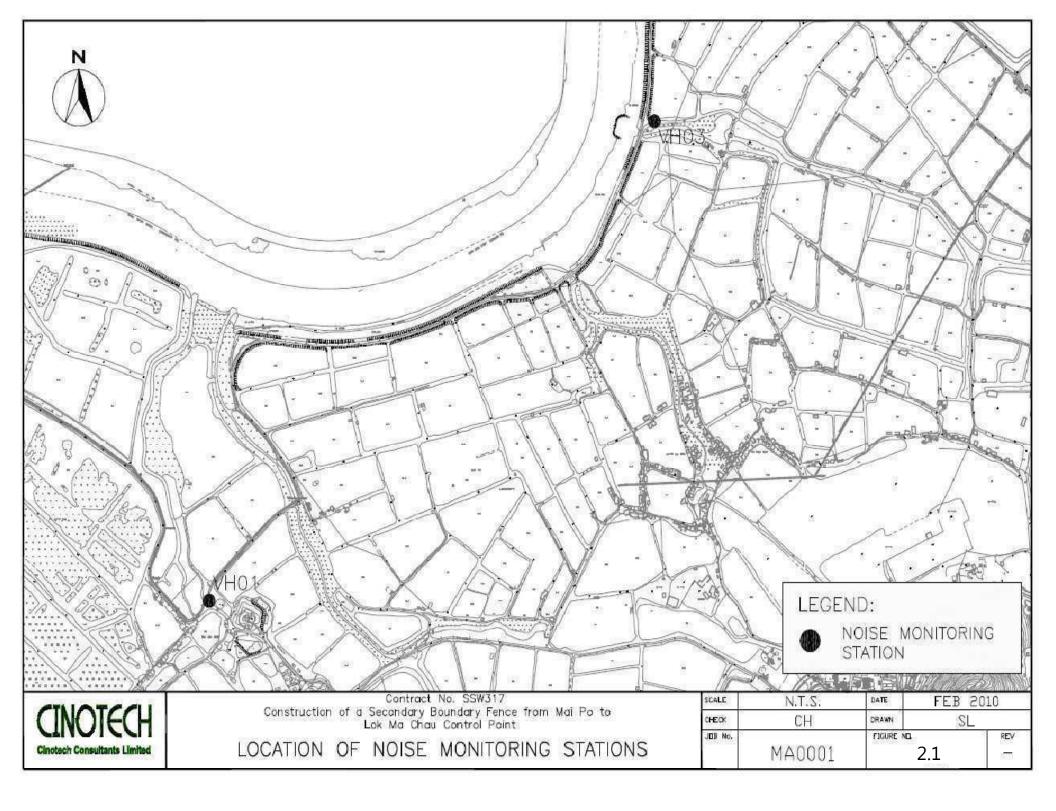
- To maintain the protection fencing surround the retaining trees;
- To remove materials and equipments placed within the tree protection area;
- To replant vegetation at the earliest possible stage of the construction phase.

FIGURE









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

1 of 1

TEST REPORT APPLICANT: Cinotech Consultants Limited Test Report No.: C/N/110124/1 Date of Issue: Room 1710, Technology Park, 2011-01-24 18 On Lai Street, Date Received: 2011-01-21 Shatin, NT, Hong Kong Date Tested: 2011-01-21 Date Completed: 2011-01-24 Next Due Date: 2012-01-23

ATTN: Mr. Henry Leung

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

Page:

Test conditions:

Room Temperatre Relative Humidity : 23 degree Celsius : 55%.

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



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	ſ REPOF	RT	
APPLICANT:	Cinotech Consultants Limited Room 1710, Technology Park, 18 On Lai Street,		Test Report No.: Date of Issue: Date Received:	C/N/111008/1 2011-10-10 2011-10-08
	Shatin, NT, Hong Kong	g	Date Tested: Date Completed: Next Due Date:	2011-10-08 2011-10-10 2012-10-09
ATTN:	Mr. Henry Leung		Page:	1 of 1
Item for calibr	ation:			
	Description Manufacturer Model No. Serial No. Equipment No.	: Acoustic : SVANTI : SV30A : 24803 : N-09-03	al Calibrator EK	
Test conditions	8:			
	Room Temperatre Relative Humidity	: 22 degree : 62%	e Celsius	

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.

atizk /le

PATRICK TSE Laboratory Manager

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APPENDIX C SUMMARY OF EXCEEDANCE **Appendix C – Summary of Exceedance**

Reporting Month: November 2011

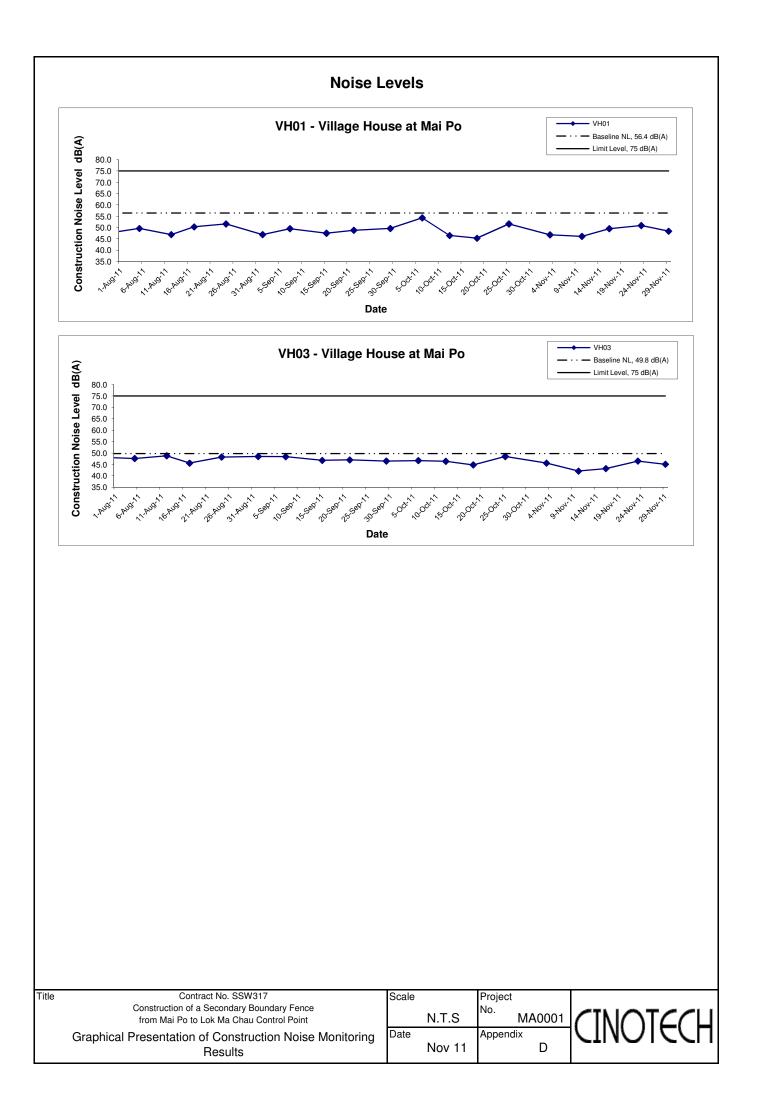
Exceedance Report for Construction Noise (NIL)

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 I	Level	Baseline Level	Construction Noise Level		
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}		
3-Nov-11	14:00	Sunny	46.8	48.1	44.6		46.8 Measured \leq Baseline		
10-Nov-11	10:00	Cloudy	46.1	47.6	45.2		46.1 Measured \leq Baseline		
16-Nov-11	09:00	Sunny	49.5	50.9	47.4	56.4	49.5 Measured \leq Baseline		
23-Nov-11	15:00	Sunny	50.9	52.1	48.2		50.9 Measured \leq Baseline		
29-Nov-11	10:30	Cloudy	48.4	59.9	46.5		48.4 Measured \leq Baseline		

					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}
3-Nov-11	14:45	Sunny	45.6	47.1	44.6		45.6 Measured \leq Baseline
10-Nov-11	10:45	Cloudy	42.1	45.1	41.1		42.1 Measured \leq Baseline
16-Nov-11	09:45	Sunny	43.2	45.2	42.1	49.8	43.2 Measured \leq Baseline
23-Nov-11	15:45	Sunny	46.5	48.9	44.6]	46.5 Measured \leq Baselin
29-Nov-11	11:15	Cloudy	45.1	47.5	44.1		45.1 Measured \leq Baselin



APPENDIX E SITE AUDIT SUMMARY

Contract No. SS W317

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

Checklist Reference Number	111102
Date	2 November 2011 (Wednesday)
Time	09:30 - 10:30

		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. Construction Noise Impact	
	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.	
	H. Others	
	• N/A	

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. Construction Noise Impact	
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/Licenses	
 No environmental deficiency was identified during site inspection.	
 H. Others	
Follow-up on previous audit session (Ref. 111027), all environmental deficiency was improved by the Contractor.	

	Name	Signature	Date
Recorded by	Gary Lau	hamle	3 November 2011
Checked by	Dr. Priscilla Choy	A.A.	3 November 2011

Contract No. SS W317 <u>Construction of a Secondary Boundary Fence from Mai Po to Lok Ma Chau Control Point</u> Weekly Site Inspection Record Summary

Checklist Reference Number	111108
Date	8 November 2011 (Tuesday)
Time	11:00 - 12:00

		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. Construction Noise Impact	
	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.	
	H. Others	
	• N/A	

	Denste Arm	Related
	Reminders	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. Construction Noise Impact	
	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/Licenses	
*****	No environmental deficiency was identified during site inspection.	
	H. Others	
	Follow-up on previous audit session (Ref. 111102), all environmental deficiency was improved by the Contractor.	

	Name	Signature	Date
Recorded by	Gary Lau	hant	9 November 2011
Checked by	Dr. Priscilla Choy	WF	9 November 2011

Contract No. SS W317 <u>Construction of a Secondary Boundary Fence from Mai Po to Lok Ma Chau Control Point</u> Weekly Site Inspection Record Summary

Checklist Reference Number	111116	
Date	16 November 2011 (Wednesday)	
Time	13:00 - 14:30	

Ref. No.	Non-Compliance	Related
-	None identified	Item No
Ref. No.	Remarks/Observations	Related 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. Construction Noise Impact	
	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.	
	H. Others	
	• N/A	

	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. Construction Noise Impact	
	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/Licenses	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	Follow-up on previous audit session (Ref. 111108), all environmental deficiency was improved by the Contractor.	······

	Name	Signature	Date
Recorded by	Gary Lau	Brond	16 November 2011
Checked by	Dr. Priscilla Choy	WI	16 November 2011

Contract No. SS W317 <u>Construction of a Secondary Boundary Fence from Mai Po to Lok Ma Chau Control Point</u> Weekly Site Inspection Record Summary

Checklist Reference Number	111122
Date	22 November 2011 (Tuesday)
Time	10:15 - 11:00

D.C.M.		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. Construction Noise Impact	
********	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.	
	H. Others	
	• N/A	

	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. Construction Noise Impact	
	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/Licenses	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	Follow-up on previous audit session (Ref. 111116), all environmental deficiency was improved by the Contractor.	

	Name	Signature	Date
Recorded by	Gary Lau	bank	23 November 2011
Checked by	Dr. Priscilla Choy	NL	23 November 2011

Contract No. SS W317 Construction of a Secondary Boundary Fence from Mai Po to Lok Ma Chau Control Point Weekly Site Inspection Record Summary

Checklist Reference Number	111130
Date	30 November 2011 (Wednesday)
Time	16:00 - 17:15

		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. Construction Noise Impact	
	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.	
	H. Others	
	• N/A	

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. Construction Noise Impact	
 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/Licenses	
 No environmental deficiency was identified during site inspection.	
 H. Others	
Follow-up on previous audit session (Ref. 111122), all environmental deficiency was improved by the Contractor.	

	Name	Signature	Date
Recorded by	Gary Lau	Jalam L	30 November 2011
Checked by	Dr. Priscilla Choy	WIL	30 November 2011

APPENDIX F SUMMARY OF WASTE GENERATED

Contract No.: SS W317

Monthly Summary Waste Flow Table for 2011 [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.)

	Actua	Actual Quantities of Inert Construction Waste Generated Monthly					l Quantities of Non-	inert Construct	ion Waste Generat	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	0.135	0
Mar	0	0	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0	0	0
May	0.429	0	0	0	0.429	0	0	0	0	0
Jun	0	0	0	0	0	0	0	0	0	0
Sub-total	0.429	0	0	0	0.429	0	0	0	0.135	0
Jul	0	0	0	0	0	0	0	0	0	0
Aug	0.306	0	0	0	0.306	0	0	0	0	0
Sep	0	0	0	0	0	0	0	0	0	0
Oct	0.195	0	0	0	0.195	0	0	0	0	0
Nov	0	0	0	0	0	0	0	0	0	0
Dec										
Total	0.93	0	0	0	0.93	0	0	0	0.135	0

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 m^3 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.	^				
	• 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.	٨				
Air Quality	Dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting.	٨				
	• 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.	^				
	• All dusty materials should be sprayed with water prior to any loading, unloading or transfer.	۸				
	Vehicle speed should be limited to 10kph except on completed access roads.	۸				
	• Vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites.	^				
	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	٨				
	Observe and comply with the statutory and non-statutory requirements and guidelines.	۸				
	• 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.	^				
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.	٨				
	• 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.	٨				
	Regular maintenance of all plant and equipment.	٨				
	Material stockpiles and other structures should be effectively utilised as noise barriers, where practicable.	٨				

	Use of Quiet Plant and Movable Noise Barrier						
	Purpose-built movable noise barriers should be used to mitigate construction noise directly at sources	N/A					
	that are not usually mobile provide that the direct line of sight to the source is blocked.						
	Construction Phase						
	• The site should be confined to avoid silt runoff to the site.	^					
	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.	^					
	Stockpiles to be covered by tarpaulin to avoid spreading of materials during rainstorms;	۸					
	Suitable containers shall be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport.	٨					
	• 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.						
Water Quality	• Storage areas shall be selected at safe locations on site and adequate space shall be allocated to the storage area.						
	• Any construction plant which causes pollution to the water system due to leakage of oil or fuel shall be removed off-site immediately.	٨					
	Spillage or leakage of chemical waste to be controlled by using suitable absorbent materials.						
	Chemicals will always be stored on drip trays or in bunded areas where the volume is 110% of the stored volume.	۸					
	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 channel.						
	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. 	N/A					
	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.	٨					
	Construction Phase						
	Good site management to minimize over-ordering and generation of waste materials such as concrete mortars and cement grouts.	٨					
	The Contractor should recycle as much of the C&D materials as possible on-site.	^					
	• 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					
	Chemical Waste						
	To reduce generating chemical waste as much as possible.	^					
	• 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	٨					
Waste	with label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Regulations.						
Management	 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.	٨					
	• 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 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.	Λ					
	Ecological Impacts on Floral Species of Conservation Concern						
	Erection of protective fencing to protect the plant during construction period	^					
	Potential Ecological Impacts on Offsite Habitats						
	Controlling the dust and water quality by avoiding stockpiles adjacent to wetlands and covering the stockpiles with impervious sheeting.	۸					
	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 August to February).	٨					
	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 and discharge of silts.	٨					
	 Avoidance of construction works using Power Mechanical Equipments within the Wetland Conservation Area during bird migratory season (15th November – 15th March). 	٨					
	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 of the site and its immediate environs.	٨					
	• Prohibition of the storage of materials including fuel, the movement of construction vehicles, and the refuelling	٨					
	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) 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.	۸					
Landscape and	• 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.	٨					
Visual	• The watering of existing vegetation particularly during periods of excavation when the water table beneath the existing vegetation is lowered.	٨					
	• The rectification and repair of damaged vegetation following the construction phase to it's original condition 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	٨					
	 All works affecting the trees identified for retention will be carefully monitored, including the key stages in the preparation of the trees, the implementation of protection measures and health monitoring through out the construction period 	۸					
	 Detailed landscape and tree preservation proposals will be submitted to the relevant government departments for approval under the lease conditions and in accordance with ETWB TCW No. 2/2004 and WBTC No. 3/2006. 	۸					
	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	۸
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;
	N/A Not Applicable;
	 Recommendation was made during site audit but
	improved/rectified by the contractor.
	# Recommendation was made during site audit and to be
	improved / rectified by the contractor.
	X Non-compliance of mitigation measure;
	• Non-compliance but rectified by the contractor;

APPENDIX H EVENT ACTION PLANS FOR CONSTRUCTION NOISE

Appendix H- Event and Action Plan for Construction Noise

	ACTION									
EXCEEDANCE	ЕТ	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. 	 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. 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. 						

APPENDIX I TENTATIVE CONSTRUCTION PROGRAMME

ong ł	Kong Kwa	ng Tai Builders Ltd		SS W317 - Cor	nstruction of a S	Secondary Boundary Fence From Mai Po to Lok Ma Chau Control Point Master Programme
別			工期	開始時間	完成時間	2010年 2011年 Jan 2 Feb 2 Mar 2 Apr 2 May Jun 2 Jul 20 Aug 2 Sep 2 Oct 2 Nov Dec 2 Jan 2 Feb 2 Mar 2 Apr 2 Mar 2 Aug 2 Sep 2 Oct 2 Nov Dec 2 Jan 2 Feb 2 Mar 2 Apr 3 Apr 3 Apr 3 Apr 3 Apr 4 Apr 4 </th
	1	Construction of a Secondary Boundary Fence from Mai Po to Lok Ma Chau Control Point	548 days	15/1/2010	27/7/2011	
2	1.1	bird migratory season	116 days	15/11/2010	15/3/2011	
3	1.2	Application of permits and licences required under legislatic	28 days	15/1/2010	11/2/2010	
4	1.3	Conition surveying & submission of report	10 days	21/1/2010	30/1/2010	
5	1.4	Site Office setup	24 days	18/2/2010	13/3/2010	
6	1.5	Site mobilization	45 days	1/2/2010	17/3/2010	
7	1.6	Material submissions	285 days	20/1/2010	31/10/2010	
8	1.6.1	Submission and approval of XPM mesh	181 days	20/1/2010	19/7/2010	
9	1.6.2	Submission of concrete mix design	107 days	25/1/2010	11/5/2010	
10	1.6.3	submission of spacer	14 days	5/3/2010	18/3/2010	
10	1.6.4	submission of sub-base material	28 days	21/9/2010	18/10/2010	
12	1.6.5	submission of bituminous material	28 days	4/10/2010	31/10/2010	
12	1.0.0	Initital site survey	30 days	9/4/2010	8/5/2010	
13	1.8	Mock up panel	119 days	30/3/2010	26/7/2010	
15	1.8.1	submission and approval of shop drawing and method statement	50 days	30/3/2010	18/5/2010	
16	1.8.2	fix mock up panel	7 days	20/7/2010	26/7/2010	
17	1.9	Submissions	104 days	15/1/2010	28/4/2010	
18	1.9.1	Submission to EPD as required under the Environment Permit	1 day	15/1/2010	15/1/2010	
19	1.9.2	Submission of temporary traffic arrangement	90 days	15/1/2010	14/4/2010	
20	1.9.3	submission of safety aspect schedule	30 days	15/1/2010	13/2/2010	
21	1.9.4	submission of safety plan	1 day	28/4/2010	28/4/2010	
22	1.9.5	Submission of Environmental Management Plan	1 day	1/3/2010	1/3/2010	
23	1.9.6	submission of waste management plan	30 days	11/2/2010	12/3/2010	
24	1.9.7	Submission of Smart Card System	18 days	18/3/2010	4/4/2010	
25	1.10	application of excavation permit (XP Permit)	303 days	19/3/2010	17/1/2011	
26	1.10.1	1st stage	169 days	19/3/2010	3/9/2010	
27	1.10.1.	31)PlanID: 1006307	1 day	3/9/2010	3/9/2010	
28	1.10.1.	2 CH 3+270 to 3+300(Zone 54)PlanID: 1006328	1 day	30/8/2010	30/8/2010	
29	1.10.1.		2(1 day	12/7/2010	12/7/2010	
30	1.10.1.	1006328	1 day	12/7/2010	12/7/2010	
31		Zone54)PlanID: 1006328	1 day	29/7/2010	29/7/2010 12/7/2010	
32			1 day	12/7/2010 5/8/2010		
33		1006307		5/8/2010	5/8/2010 12/5/2010	
34		51)PlanID: 1006326	1 day	12/5/2010		
35		35)PlanID: 1006317	1 day	19/3/2010	19/3/2010	
36		33)PlanID: 1006317	1 day	13/7/2010	13/7/2010	
37		37)PlanID: 1006319	1 day	19/4/2010	19/4/2010	
38				17/5/2010	17/5/2010	
39		39)PlanID: 1006321	1 day	14/6/2010	14/6/2010	
40		40)PlanID: 1006321	1 day	26/8/2010	26/8/2010	
41		42)PlanID: 1006321	1 day	27/7/2010	27/7/2010	
42	2 1.10.1	.16 CH 1+650 to CH 1+850(Zone 42 - Zone 44)PlanID: 1006324	1 day	19/3/2010	19/3/2010	<u> </u>

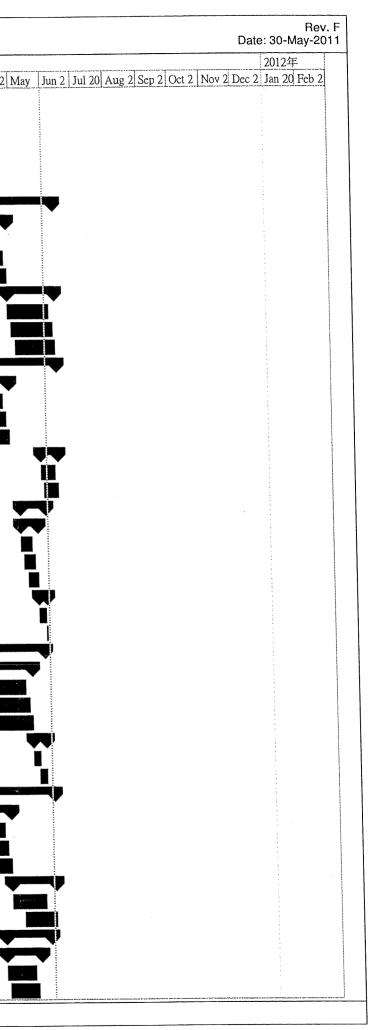
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Hong Kong Kwong Tai Bu	uilders	Lto
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ong Kong Kwong	ai Builders Ltd		SS W317 - Co	instruction of a	Secondary Boundary Fence From Mai Po to Lok Ma Chau Control Point Master Programme	Rev. Date: 30-May-20			
列 WBS Tasl	< Name	工期	開始時間	完成時間	2010年	2011年		2012年	
					Jan 2 Feb 2 Mar 2 Apr 2 May Jun 2 Jul 20 Aug 2 Sep 2 Oct 2 Nov Dec 2	Jan 2 Feb 2 Mar 2 Apr 2 May	Iun 2 Jul 20 Aug 2 Sep 2 Oct 2 Nov	2 Dec 2 Jan 20 Feb 2	
3 1.10.1.17	CH 1+850 to CH 2+070(Zone 44 - Zone	1 day	19/4/2010	19/4/2010					
4 1.10.1.18	45)PlanID: 1006324 CH 2+070 to CH 2+150(Zone 45 - Zone	1 day	17/5/2010	17/5/2010					
5 1.10.1.19	46)PlanID: 1006324 CH 2+150 to CH 2+310(Zone 46 - Zone	1 day	14/6/2010	14/6/2010	 				
6 1.10.1.20	47)PlanID: 1006325 CH 2+310 to CH 2+550(Zone 47 - Zone	1 day	13/7/2010	13/7/2010					
	49)PlanID: 1006325	1 day	17/1/2011	17/1/2011	· · ·	U		-	
7 1.10.2	2nd stage CH0+86 to CH4050 (Gate 24)	1 day	17/1/2011	17/1/2011		Ĭ			
48 1.10.2.1		300 days	19/4/2010	17/2/2011					
49 1.11	·	169 days	19/4/2010	4/10/2010		•			
50 1.11.1	1st stage CH0+285 to CH 0+315(Zone 30 - Zone 31)	1 day	4/10/2010	4/10/2010				-	
51 1.11.1.1	CH 3+270 to 3+300(Zone 54)	l day	30/9/2010	30/9/2010					
52 1.11.1.2	CH 3+270 to 3+300(Zone 54) CH 2+790 to CH 2+900(Zone 51)	1 day	12/8/2010	12/8/2010					
53 1.11.1.3	CH 2+900 to 3+030(Zone 51 - Zone 52)	1 day	12/8/2010	12/8/2010					
54 1.11.1.4	CH 3+030 to CH 3+270(Zone 52 - Zone 54)	1 day	29/8/2010	29/8/2010					
55 1.11.1.5 56 1.11.1.6	CH+000 to CH+090(Zone 29)	1 day	12/8/2010	12/8/2010					
	CH+090 to CH 0+285(Zone 29 - Zone 30)	1 day	5/9/2010	5/9/2010					
	CH 2+550 to CH 2+790(Zone 29 - Zone 50)	1 day	12/6/2010	12/6/2010				-	
	CH 0+600 to CH 0+800(Zone33 - Zone 35)	1 day	19/4/2010	19/4/2010				-	
59 1.11.1.9	CH 0+305 to CH 0+600(Zone 31 - Zone 33)	1 day	13/8/2010	13/8/2010					
60 1.11.1.1C	CH 0+303 to CH 1+020(Zone 35 - Zone 37)	1 day	20/5/2010	20/5/2010					
51 1.11.1.11	CH 0+800 to CH 1+020(Zone 33 - Zone 37) CH 1+020 to CH 1+050(Zone 37)	1 day	17/6/2010	17/6/2010					
62 1.11.1.12	CH 1+020 to CH 1+050(Zone 37) CH 1+050 to CH 1+260(Zone 37 - Zone 39)	1 day	15/7/2010	15/7/2010				-	
63 1.11.1.13	CH 1+260 to CH 1+260(Zone 37 - Zone 39) CH 1+260 to CH 1+500(Zone 39 - Zone 40)	1 day	26/9/2010	26/9/2010					
64 1.11.1.14	CH 1+260 to CH 1+500(Zone 39 - Zone 40) CH 1+500 to CH 1+650(Zone 41 - Zone 42)	1 day	27/8/2010	27/8/2010					
65 1.11.1.15	CH 1+500 to CH 1+650(Zone 41 - Zone 42) CH 1+650 to CH 1+850(Zone 42 - Zone 44)	1 day	19/4/2010	19/4/2010					
66 1.11.1.16	CH 1+650 to CH 1+850(Zone 42 - Zone 44) CH 1+850 to CH 2+070(Zone 44 - Zone 45)	1 day	20/5/2010	20/5/2010					
67 1.11.1.17	CH 1+850 to CH 2+070(Zone 44 - Zone 45) CH 2+070 to CH 2+150(Zone 45 - Zone 46)	1 day	17/6/2010	17/6/2010					
68 1.11.1.18	CH 2+150 to CH 2+150(Zone 45 - Zone 46) CH 2+150 to CH 2+310(Zone 46 - Zone 47)		15/7/2010	15/7/2010				-	
69 1.11.1.19		1 day 1 day	13/8/2010	13/8/2010				-	
70 1.11.1.20	CH 2+310 to CH 2+550(Zone 47 - Zone 49)	1 day 1 day	13/8/2010	15/8/2010	I				
71 1.11.2	2nd stage	1 day	17/2/2011	17/2/2011	Name of P	Ť			
72 1.11.2.1	CH0+86 to CH4050 (Gate 24)	100 days		11/5/2010		I			
73 1.12	Submission	26 days	1/2/2010	26/2/2010					
74 1.12.1	Submission of Computer and mobile phone	59 days	3/3/2010	30/4/2010					
75 1.12.2	Submission of Subcontractor Management Plan	28 days	18/2/2010	17/3/2010					
76 1.12.3	Submission of EM&A works schedule	28 days 30 days	25/2/2010	26/3/2010				-	
77 1.12.4	Submission of Landscape Plan	30 days	1/3/2010	30/3/2010					
78 1.12.5	Submission of Baseline Monitoring Report	1 day	1/3/2010	16/3/2010				-	
79 1.12.6	submission of Site Management plan for trip ticket system	i uay	10/3/2010	10/3/2010					
80 1.12.7	submission of formwork & temporary work design	30 days	15/3/2010	13/4/2010				:	
81 1.12.8	submission of welding procedure	30 days	12/4/2010	11/5/2010					
82 1.12.9	submission of welder certificate	30 days	12/4/2010	11/5/2010					
83 1.12.10	Submission of fencing shop drawing	28 days	12/4/2010	9/5/2010					
84 1.12.11	Submission of gate shop drawing	28 days		9/5/2010					
85 1.12.12	Submission of method statement for footing at Pak Hok Chau	28 days		9/5/2010					
86 1.13	Hok Chau Checking existing underground utilities and submit report	28 days	15/3/2010	11/4/2010				-	
	Site clearance prior to work	4 days						• •	
	Footing construction	262 days							
	CH0+000 to CH0+086	55 days					•		
89 1.15.1		55 uays	MMI JI MOXU	10/11/#01		······································			

	g Tai Builders Ltd				Master Programme
闭 WBS T	ask Name	工期	開始時間	完成時間	2010年 2011年 2010年 2012年 2012年 2012年 2012年 2012年 2012年
		25 1	12/10/2010	15/11/2010	Jan 2 Feb 2 Mar 2 Apr 2 May Jun 2 Jul 20 Aug 2 Sep 2 Oct 2 Nov Dec 2 Jan 2 Feb 2 Mar 2 A
1.15.2	CH0+318 to CH0+345	35 days	12/10/2010	15/11/2010	
1.15.3	CH0+540 to CH0+620	55 days	22/9/2010	15/11/2010	
1.15.4	CH0+660 to CH1+420	55 days	22/9/2010	15/11/2010	
1.15.5	CH1+670 to CH1+900	55 days	22/9/2010	15/11/2010	
1.15.6	CH2+010 to CH2+788	55 days	22/9/2010	15/11/2010	
1.15.7	CH2+900 to CH2+986	55 days	16/3/2011	11/6/2011	
1.15.8	CH086 to CH0+318 (Type 3 footing)	83 days	16/3/2011	26/4/2011	
1.15.8.1	1000x500 Balance Beam	41 days	16/3/2011	20/4/2011	
1.15.8.1.	excavation and erect formwork	35 days	19/3/2011	23/4/2011	
1.15.8.1.	rebar fixing	35 days		26/4/2011	
0 1.15.8.1.	placing concrete	35 days	22/3/2011		
1.15.8.2	Tie Beam CH0+086 to CH 0+318	42 days	27/4/2011	11/6/2011 5/6/2011	
)2 1.15.8.2.	excavation and erect formwork	37 days	27/4/2011	9/6/2011	
3 1.15.8.2.:	rebar fixing	37 days	30/4/2011	11/6/2011	
4 1.15.8.2.:	placing concrete	37 days	4/5/2011	11/6/2011	
15 1.15.9	CH0+345 to 0+540	84 days	16/3/2011	26/4/2011	
6 1.15.9.1	Fence Footing	41 days	16/3/2011	20/4/2011	
7 1.15.9.1.	excavation and erect formwork	35 days	16/3/2011	23/4/2011	
)8 1.15.9.1.:	rebar fixing	35 days	19/3/2011	26/4/2011	
9 1.15.9.1.	placing concrete	35 days	22/3/2011 27/5/2011	12/6/2011	
0 1.15.9.2	Fence Kerb	16 days	27/5/2011	9/6/2011	
1 1.15.9.2.	Erect formwork	13 days		12/6/2011	
2 1.15.9.2.:	placing concrete	13 days	30/5/2011	30/5/2011	
13 1.15.10	CH0+620 to CH0+660	24 days	6/5/2011	22/5/2011	
14 1.15.10.1	Fence Footing	16 days	6/5/2011	16/5/2011	
5 1.15.10.1	excavation and erect formwork	10 days	6/5/2011	19/5/2011	
16 1.15.10.1	rebar fixing	10 days	9/5/2011	22/5/2011	
17 1.15.10.1	placing concrete	10 days	13/5/2011 23/5/2011	30/5/2011	a real from the second s
18 1.15.10.2		8 days			
9 1.15.10.2		7 days	23/5/2011	29/5/2011 30/5/2011	
20 1.15.10.2		1 day	30/5/2011	27/5/2011	
21 1.15.11	CH1+420 to CH1+670	69 days	16/3/2011 16/3/2011	14/5/2011	
22 1.15.11.1		56 days	16/3/2011	7/5/2011	
23 1.15.11.1		50 days	19/3/2011	11/5/2011	
24 1.15.11.1		50 days	22/3/2011	14/5/2011	
25 1.15.11.1		50 days	15/5/2011	27/5/2011	
26 1.15.11.2		13 days	15/5/2011	21/5/2011	
27 1.15.11.2		7 days	21/5/2011	27/5/2011	
28 1.15.11.2		7 days	16/3/2011	3/6/2011	
129 1.15.12	CH1+900 to CH 2+010	76 days	16/3/2011	21/4/2011	
30 1.15.12.		36 days	16/3/2011	15/4/2011	
1.15.12.		30 days		18/4/2011	
32 1.15.12.		30 days		21/4/2011	
33 1.15.12.		30 days		3/6/2011	
34 1.15.12 .		40 days		24/5/2011	hmore of the second s
35 1.15.12.		30 days		3/6/2011	
136 1.15.12.		30 days		29/5/2011	
137 1.15.13	CH2+788 to CH 3+125	41 days		29/5/2011	
138 1.15.13 .		31 days		13/5/2011	
139 1.15.13.		25 days		i contra	
140 1.15.13	.1 rebar fixing	25 days	19/4/2011	16/5/2011	

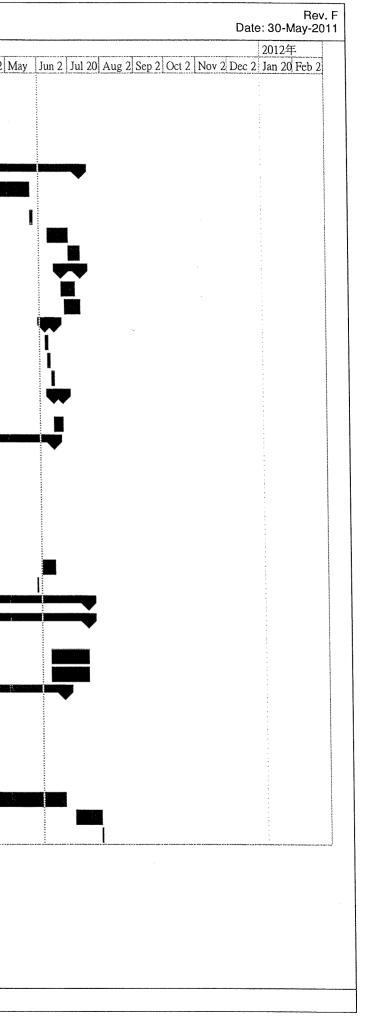


						Master Programme
識別 碼	WBS	Task Name	工期	開始時間	完成時間	2010年 2011年 Jan 2 Feb 2 Mar 2 Apr 2 May Jun 2 Jul 20 Aug 2 Sep 2 Oct 2 Nov Dec 2 Jan 2 Feb 2 Mar 2 Apr 2 Apr 2
141	1.15.13.1	placing concrete	25 days	22/4/2011	19/5/2011	
142	1.15.13.2		10 days	20/5/2011	29/5/2011	
143	1.15.13.2		7 days	20/5/2011	26/5/2011	
144	1.15.13.2		7 days	23/5/2011	29/5/2011	
145	1.15.14	CH3+125 to CH 3+255	84 days	16/3/2011	12/6/2011	
145	1.15.14.1		61 days	16/3/2011	19/5/2011	
140	1.15.14.1		55 days	16/3/2011	13/5/2011	
147	1.15.14.		55 days	19/3/2011	16/5/2011	
149	1.15.14.		55 days	22/3/2011	19/5/2011	
149	1.15.14.2		16 days	27/5/2011	12/6/2011	
150	1.15.14.2		13 days	27/5/2011	9/6/2011	
	1.15.14.		13 days	30/5/2011	12/6/2011	
152 153	1.15.14.	Gates	60 days	18/4/2011	20/6/2011	
	1.15.15		58 days	18/4/2011	18/6/2011	
154			58 days	19/4/2011	19/6/2011	
155	1.15.15.		58 days	20/4/2011	20/6/2011	
156	1.15.15.	3 placing concrete Structural post and Fencing construction	238 days	16/11/2010	20/0/2011	
157	1.16	Structural post and Fencing construction CH0+050 to CH3+255	238 days 238 days	16/11/2010	22/7/2011	
158	1.16.1		235 days	16/11/2010	19/7/2011	
159	1.16.1.1		235 days 238 days	16/11/2010	22/7/2011	
160	1.16.1.2		-	15/1/2010	26/7/2011	
161	1.17	Soft Landscape	547 days	25/2/2010	29/5/2011	
162		tree survey report	94 days	28/5/2010	10/11/2010	
163		Tree felling	167 days		24/7/2011	
164		tree protection and maintenance	545 days	15/1/2010	26/7/2011	
165		new planting	257 days	1/11/2010		
166			208 days	1/11/2010	5/6/2011	
167			208 days	1/11/2010	5/6/2011 5/6/2011	
168			173 days	6/12/2010		
169			166 days	13/12/2010	5/6/2011	
170			208 days	1/11/2010	5/6/2011	
171			159 days	20/12/2010	5/6/2011	
172			24 days	7/6/2011	30/6/2011	
173	1		1 day	2/6/2011	2/6/2011	
174		1	28 days	3/6/2011	2/7/2011	
175	~ ~ ~ ~ · · · · · · · · · · · · · · · ·		24 days	3/7/2011	26/7/2011	
176		Remove obstructions	143 days	20/9/2010	14/2/2011	
177	7 1.18.1	Joint inspection with CLP and telephone company for	20 days	20/9/2010	9/10/2010	
178	3 1.18.2	the obstructed CLP pole and telephone pole anticipated removal of CLP pole and Telephone pole	30 days	13/1/2011	14/2/2011	
179) 1.19	Steelwork	430 days	9/4/2010	22/6/2011	
1/3		Submission of proposed steel fabricator	1 day	21/4/2010	21/4/2010	
180		submission of proposed hot-dipped galvanizing factory	1 day	9/4/2010	9/4/2010	
182		submission and approval of shop drawing	200 days	5/7/2010	22/1/2011	
18:		testing of steel material	14 days	19/7/2010	1/8/2010	
184	4 1.19.5	procurement of steel material	1 day	15/7/2010	15/7/2010	
18	5 1.19.6		180 days	2/8/2010	30/1/2011	
18	6 1.19.7	delivery of steel material to site	60 days	16/3/2011	18/5/2011	
18	7 1.19.8	installation of steel gate	17 days	5/6/2011	22/6/2011	
18	8 1.20	Electrical Installation	486 days	1/3/2010	10/7/2011	
	9 1.20.1	Submission	90 days	1/3/2010	29/5/2010	

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long	Kong Kwa	ong Tai Builders Ltd		SS W317 - CO	Instruction of a S	econdary Boundary Fence From Mai Po to Lok Ma Chau Control Point Master Programme	
截別	WBS	Task Name	工期	開始時間	完成時間	2010年 2011年	
碼					<i>R (R (R) R (R)</i>	Jan 2 Feb 2 Mar 2 Apr 2 May Jun 2 Jul 20 Aug 2 Sep 2 Oct 2 Nov Dec 2 Jan 2	2 Feb 2 Mar 2 Apr 2
190	1.20.1.1	Material & Equipment submission	68 days	1/3/2010	7/5/2010		
191	1.20.1.2	Drawing & method statement submission	20 days	10/5/2010	29/5/2010		
192	1.20.2	Revised design	6 days	25/10/2010	30/10/2010		
193	1.20.2.1	Received of revised drawing from MM	1 day	25/10/2010	25/10/2010		
194	1.20.2.2	Submission of revised drawing by KT	5 days	26/10/2010	30/10/2010		
195	1.20.3	24V power / 7 cores signal Cable installation	86 days	11/4/2011	10/7/2011		
196	1.20.3.1	Laying and Fixing on existing cable tray at primary	40 days	11/4/2011	23/5/2011		
197	1.20.3.2	Installation of connection box under CCTV Panel	3 days	24/5/2011	26/5/2011		
198	1.20.3.3	Installation of conduit on New gate	20 days	10/6/2011	29/6/2011		
199	1.20.3.4	Wiring for the gate lock system	10 days	30/6/2011	10/7/2011		
200	1.20.3.5	Installation of electrical gate Lock	17 days	23/6/2011	10/7/2011		
201	1.20.3.5.		12 days	23/6/2011	5/7/2011		
202	1.20.3.5.		14 days	26/6/2011	10/7/2011		
203	1.20.3.6		9 days	7/6/2011	15/6/2011		
204	1.20.3.6		3 days	7/6/2011	9/6/2011		
205	1.20.3.6	Switch room 2	3 days	9/6/2011	11/6/2011		
206	1.20.3.6		3 days	13/6/2011	15/6/2011		
207	1.20.4	Pak Hok Chau CheckPoint	9 days	15/6/2011	23/6/2011		
208	1.20.4.1	E&M installation work	9 days	15/6/2011	23/6/2011		
209	1.21	Construction of Pak Hok Chau Check Point	292 days	17/8/2010	14/6/2011		
210	1.21.1	Shop drawing submission and approval	160 days	17/9/2010	28/2/2011		
211	1.21.2	provide Temporary Check point (container) on site	1 day	17/8/2010	17/8/2010		
212	1.21.3	HKPF Move to temporary check point	10 days	18/10/2010	27/10/2010		
213	1.21.4	Demolition of existing check point	5 days	28/10/2010	1/11/2010		
214	1.21.5	Excavation	3 days	2/11/2010	4/11/2010		
215	1.21.6	Footing	8 days	5/11/2010	12/11/2010		
216	1.21.7	Install GRP	13 days	1/6/2011	14/6/2011		
217	1.21.8	Lightning pole installation	1 day	28/5/2011	28/5/2011		
218	1.22	Roadworks	272 days	6/10/2010	15/7/2011		
219	1.22.1	reinstatement road surface	272 days	6/10/2010	15/7/2011		
220	1.22.1.1	CH 0+050 to CH 0+086	8 days	6/10/2010	13/10/2010		
221	1.22.1.2	2 CH 0+086 to CH 0+550	35 days	10/6/2011	15/7/2011		
222	1.22.2	Reinstatement of road kerb	35 days	10/6/2011	15/7/2011		
223	1.23	Temporary fencing for MTR area	226 days	30/10/2010	22/6/2011		
224	1.23.1	Application of CP to MTR	1 day	30/10/2010	30/10/2010		
225	1.23.2	waiting reply from MTR	28 days	31/10/2010	27/11/2010		
226	1.23.3	Receive MTR work permit	1 day	1/12/2010	1/12/2010		
227	1.23.4	Tempertory Fencing construction	21 days	16/3/2011	6/4/2011		
228		Demolition of existing MTR fencing	12 days	7/4/2011	18/4/2011		
229		replace new fence	61 days	19/4/2011	22/6/2011		
230		Site clearance	25 days	2/7/2011	26/7/2011		•
231		Handover	1 day	27/7/2011	27/7/2011		



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 November 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-Nov	2-Nov	3-Nov	4-Nov	5-Nov	6-Nov
			Noise			
7-Nov	8-Nov	9-Nov	10-Nov	11-Nov	12-Nov	13-Nov
			Noise			
14-Nov	15-Nov	16-Nov	17-Nov	18-Nov	19-Nov	20-Nov
		Noise				
				65 N		25) }
21-Nov	22-Nov	23-Nov	24-Nov	25-Nov	26-Nov	27-Nov
		Noise				
29 Nov	20 New	30-Nov				
28-Nov	29-Nov	30-INOV				
	Noise					

Noise Monitoring Station

VH01 - Village House at Mai Po VH03 - Village House at Mai Po

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 December 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Dec	2-Dec	3-Dec	4-Dec
5-Dec	6-Dec	7-Dec	8-Dec	9-Dec	10-Dec	11-Dec
	Noise					
12-Dec	13-Dec	14-Dec	15-Dec	16-Dec	17-Dec	18-Dec
12 Dec	15 Dec	1+ Dec	15 Dec	10 Dee	17 Dec	10 Dee
			Noise			
10 D	20 D.	21 D.	22 D	22 D.	24 D.	25 D.
19-Dec	20-Dec	21-Dec	22-Dec	23-Dec	24-Dec	25-Dec
		Noise				
		1 Voise				
26-Dec	27-Dec	28-Dec	29-Dec	30-Dec	31-Dec	
		Noise				
The only delta mean he als						

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

Noise Monitoring Station

VH01 - Village House at Mai Po

VH03 - Village House at Mai Po