Issue No.:1Issue Date:October 2011Project No.:944

CONSTRUCTION OF A SECONDARY BOUNDARY FENCE AND NEW SECTION OF PRIMARY BOUNDARY FENCE AND BOUNDARY PATROL ROAD (SECTION 2 LOK MA CHAU CONTROL POINT TO NG TUNG RIVER)

ENVIRONMENTAL MONITORING & AUDIT REPORT (SEPTEMBER 2011)

Prepared By:

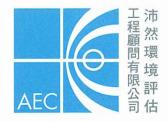
ALLIED ENVIRONMENTAL CONSULTANTS LTD.

COMMERCIAL-IN-CONFIDENCE

Allied Environmental Consultants Limited

Acousticians & Environmental Engineers

19/F., Kwan Chart Tower, 6 Tonnochy Road, Wan Chai, Hong Kong Tel: (852) 2815 7028 Fax: (852) 2815 5399 Email: info@aechk.com





Ref.: ASDBFBPREM00_0_0317L.11

12 October 2011

Mott MacDonald Hong Kong Limited 20/F Two Landmark East, 100 How Ming Street, Kwun Tong, Hong Kong By Fax (2827 1823) and Post

Attention: Mr. James Kam / Mr. F. Y. Wong

Dear Sirs,

Re: Environmental Permit No. EP-347/2009/A and FEP-02/347/2009/A Contract No. SSW306 - Section 2 Construction of a Secondary Boundary Fence and New Section of Primary Boundary Fence and Boundary Patrol Road from Lok Ma Chau Control Point to Ng Tung River Monthly EM&A Report for September 2011

Reference is made to the Environmental Team's submission of the draft Monthly EM&A Report for September 2011 (Issue No. 1) by E-mail on 11 October 2011.

We are pleased to inform you that we have no further comments on the captioned report. We write to verify that the captioned submission in accordance with Condition 4.5 of EP-347/2009/A and FEP-02/347/2009/A.

Thank you for your attention and please feel free to contact the undersigned should you have any queries.

Yours faithfully,

d~---

David Yeung Independent Environmental Checker

c.c.	ArchSD	Attn: Mr. W. K. Yiu (CPM203) / Mr. C. L. Wong (SPM225)	Fax: 2810 5372
	MMHK(site)	Attn: Mr. Peter Tsang	Fax: 2683 1195
	AEC (ETL)	Attn: Ms. Grace Kwok	Fax: 2815 5399
	Able	Attn: Mr. Gavin Lee	Fax: 2796 0519

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Issue No.:1Issue Date:October 2011Project No.:944

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Prepared By:

ALLIED ENVIRONMENTAL CONSULTANTS LTD.

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Grace M. H. Kwak Environmental Team J eader

Certified by:

Issue No.		1
Issue Date	3	October 2011
Project No.	:	944

CONSTRUCTION OF A SECONDARY BOUNDARY FENCE AND NEW SECTION OF PRIMARY BOUNDARY FENCE AND BOUNDARY PATROL ROAD (SECTION 2 LOK MA CHAU CONTROL POINT TO NG TUNG RIVER)

ENVIRONMENTAL MONITORING & AUDIT REPORT (SEPTEMBER 2011)

Prepared By:

ALLIED ENVIRONMENTAL CONSULTANTS LTD.

COMMERCIAL-IN-CONFIDENCE

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Approved:

Grace M. H. Kwok

BEng(Hons) MHKIEL MHKIOA MISWA MIALA MRAPA LEED AP

This report has been prepared by Allied Environmental Consultants Limited with all reasonable skill, care and diligence within the terms of the Agreement with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client.

We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.

This report is confidential to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies upon the report at their own risk.

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EXECUTIVE SUMMARY

Architectural Services Department (ArchSD) has awarded the contract for the Construction of a Secondary Boundary Fence and New Section of Primary Boundary Fence and Boundary Patrol Road - Section 2 Lok Ma Chau Control Point to Ng Tung River. (hereafter referred to as the "Project") to Able Engineering Co. Ltd. ("the Contractor"). The contractor has appointed Allied Environmental Consultants Limited (AEC) as the Environmental Team (ET) to undertake Environmental Monitoring and Audit (EM&A) programme in accordance with the EM&A Manual, the Environmental Permit (EP-347/2009/A) and Further Environmental Permit (FEP-02/347/2009/A) for the Project. The site preparation works and EM&A programme commenced on 25th March 2010 and the construction works were commenced on 12th April 2010. This report is the nineteen monthly EM&A report, which details the EM&A results recorded during the period from 1st September 2011 to 30th September 2011.

According to the EM&A Manual, there are total 10 designated noise monitoring locations for the entire Construction of a Secondary Boundary Fence and New Sections of Primary Boundary Fence and Boundary Patrol Road project, where only MTL01 is within 300m from the construction area for Section 2 (Lok Ma Chau Control Point to Ng Tung River), thus only MTL01 is covered in this EM&A report for Section 2. Impact noise monitoring for the Project was carried out on 8th, 14th, 20th and 27th September 2011. Noise monitoring was conducted within the period of 0700-1900, non-restricted hours.

Noise monitoring results at the monitoring location MTL01, based on the monitoring results, the noise levels comply with the environmental requirements in EM&A Manual. There were no exceedances of the action and limit levels during the reporting month.

Four environmental site inspections were conducted by the Contractor and the ET on 6^{th} , 16^{th} , 22^{nd} and 27^{th} September 2011. Major findings and deficiency were summarized at *Table 8* of this report. No non-compliance was observed in the reporting month.

There were no environmental complaints received in the reporting month.

No notification of summons or prosecution was received in the reporting month.

A total nos. of 39m³ of general refuse was disposed to NENT Landfill and no inert C&D waste was disposed in this reporting period.

Construction activities to be undertaken in October 2011 will include concreting to SBF / PBF footing including base and wall, backfilling and compaction to proposed boundary patrol road, U/G ducting works, concreting to road surface and fixing of GMS post to SBF. Potential environmental impacts include noise from loading, unloading and handling of materials and storage of various C&D and chemical wastes. The Contractor should properly implement environmental mitigation measures as per the implementation schedule in the EM&A manual to ensure no adverse environmental impacts to be arisen from the construction works. The Contractor was reminded to maintain good housekeeping at the site.

1. PROJECT BACKGROUND

The Frontier Closed Area (FCA) is an integral part of the package of measures for maintaining the integrity of the Hong Kong SAR's boundary with the Mainland and for combating illegal immigration and other cross-boundary criminal activities. Following a recent review, the Government has concluded that with the erection of a secondary boundary fence (SBF) along the boundary patrol road (BPR) and construction of new sections of the BPR and primary boundary fence (PBF) at certain sections along the boundary, the FCA coverage can be substantially reduced without affecting the objective of maintaining the integrity of the boundary. The PBF and SBF will be erected along the northern and southern curbs of the realigned BPR respectively to facilitate the Police in combating cross-boundary criminal activities. The reduced FCA will comprise a narrow strip of land covering the realigned BPR and areas to its north, together with the points of crossing the boundary (i.e. the Boundary Control Points and Sha Tau Kok town). Areas south of the SBF will generally be excised from the FCA. The site location plan is shown in *Figure 1*.

The proposed Secondary Boundary Fence is categorized as a Designated Project (DP) under the Environmental Impact Assessment Ordinance (EIAO) and therefore a detailed Environmental Impact Assessment (EIA- 161/2008) was conducted in year 2009.

An Environmental Permit (EP-347/2009) and a Variation of Environmental Permit (EP-347/2009/A) for the construction of whole project was issued by Environmental Protection Department in June 2009 and June 2010 respectively. A Further Environmental Permit (FEP-02/347/2009) and a Variation of Further Environmental Permit (FEP-02/347/2009/A) for the construction of the subject project was issued in February 2010 and July 2010 respectively.

Architectural Services Department (ArchSD) as the works agent has awarded the construction contract of the Project to Able Engineering Co. Ltd. ("the Contractor"). The Contractor has appointed Allied Environmental Consultants Limited (AEC) as the Environmental Team (ET) to undertake Environmental Monitoring and Audit (EM&A) programme in accordance with the EM&A Manual under the approved EIA report, which details the EM&A requirements for the construction of the Project, the EP-347/2009/A and FEP-02/347/2009/A.

The Construction Programme of the Project is shown in *Appendix A*. The site preparation works and EM&A programme commenced on 25^{th} March 2010 and the construction works commenced on 12^{th} April 2010. This report is the nineteen monthly EM&A report, which details the EM&A results recorded during the period from 1^{st} September 2011 to 30^{th} September 2011.

1.1 Project Organization and Contact Personnel

Role	Department / Company	Names	Contact Number	Fax Number
Engineer Representative	Mott McDonald Hong Kong Limited	Mr. FY Wong	2828 5740	2827 1823
T		Mr. Peter Tsang	2828 5921	2827 1823
Main Contractor	Able Engineering Co., Limited	Mr. Gavin Lee	9282 8158	2676 7966
Environmental Team Leader	Allied Environmental Consultants Limited	Ms. Grace Kwok	2815 7028	2815 5399
Independent Environmental Checker	ENVIRON Hong Kong Limited	Mr. David Yeung	3743 0788	3548 6988

Key personnel and contact particulars are summarized in *Table 1*.

Table 1 Contact Details of Key Personnel

The organizational structure and lines of communication during the construction work with respect to environmental management is given in *Appendix B*.

2. CONSTRUCTION WORKS & PROGRAMME

Construction activities undertaken works during the reporting period including the following works items:

- Concreting to SBF and PBF footing including base and wall;
- Backfilling and compaction to proposed boundary patrol road;
- U/G ducting work; and
- Fixing of GMS post to SBF.

The interrelationship between construction activities and environmental mitigation measures in the reporting month are shown in *Table 2*.

Construction Works	Major Environmental Impact	Mitigation Measures
Concreting to SBF and	Wastewater, air quality, noise	Proper treatment should be made
PBF footing including	quality impacts and waste	prior to discharge of wastewater.
base and wall.	management.	Water spraying provided when
		necessary. Well-maintained or
		quiet plants were used. Quantities
		and record of waste transfer should
		be well-maintained.
Backfilling to proposed	Air quality, noise quality impacts	Provide water spraying and
boundary patrol road.	and waste management.	imperious sheet to handling of
		debris material. Well-maintained
		and quiet plants were used. Trip
		record should maintain properly.
U/G ducting works.	Waste management.	Quantities and record of chemical
		waste transferred to licensed
		collector should be well-
		maintained.
Fixing of GMS post to	Waste management.	Quantities and record of waste
PBF.		transferred to licensed collector
		should be well- maintained.

 Table 2 Interrelationship between Construction Activities and Mitigation Measures

3. SUMMARY OF EM&A REQUIREMENT

Weekly site inspection is required for air quality, noise quality, water quality, waste management, ecology, cultural heritage and landscape and visual. The inspection is to ensure mitigation measures recommended in EIA and EM&A manual implemented during construction phase. Mitigation measures implementation schedule and their status are given in *Appendix F*

For regular impact noise monitoring, the sampling frequency of at least once a week for a $L_{eq(30mins)}$. The Action and Limit Levels for Impact noise are summarized in *Table 3*.

Time Period	Action Level	Limit Level
Daytime (0700-1900) except general holidays and Sunday	When one documented complaint is received.	75 dB(A)
Measurements in Leq (30min)		

Table 3Action and Limit Level for Noise Impact Monitoring

Should non-compliance of the above Action and Limit levels occurs, actions in accordance with the Event and Action Plan in *Table 4*.

Event	Action							
	ET Lead	er	IEC		ER		Cor	tractor
Action Level	 Noti the C Carr inve Carr inve Rep resu inve Rep resu <!--</td--><td>fy IEC and Contractor. y out estigation. ort the lts of estigation to and the tractor. cuss with the tractor and nulate edial sures.</td><td>1. 2. 3.</td><td>Review with analyzed results submitted by ET Review the proposed remedial measures by the Contractor and advise ER accordingly. Supervise the implement of remedial measures.</td><td>1. 2. 3. 4.</td><td>Confirm receipt of notification of exceedance in writing, Notify the Contractor. Require the Contractor to propose remedial measures for the analyzed noise problem. Ensure remedial measures are properly implemented.</td><td>1.</td><td>Submit noise mitigation proposals to IEC. Implement noise mitigation proposals.</td>	fy IEC and Contractor. y out estigation. ort the lts of estigation to and the tractor. cuss with the tractor and nulate edial sures.	1. 2. 3.	Review with analyzed results submitted by ET Review the proposed remedial measures by the Contractor and advise ER accordingly. Supervise the implement of remedial measures.	1. 2. 3. 4.	Confirm receipt of notification of exceedance in writing, Notify the Contractor. Require the Contractor to propose remedial measures for the analyzed noise problem. Ensure remedial measures are properly implemented.	1.	Submit noise mitigation proposals to IEC. Implement noise mitigation proposals.
Limit Level	1.Iden sour2.Noti EPD Con3.Rep	tify the rce. Ify IEC, ER, and the tractor. eat surement to	1. 2.	Discuss amongst ER, ET Leader and the Contractor on the potential remedial actions. Review the	1. 2. 3.	Confirm receipt of notification of exceedance in writing. Notify the Contractor. Require the Contractor to	1. 2.	Take immediate action to avoid further exceedance. Submit proposals for remedial actions to IEC within 3

Project No. : 944

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Event	Action						
	ET Leader	IEC	ER	Contractor			
		Contractor's remedial actions whenever necessary to assure their effectiveness and advise ER accordingly. 3. Supervise the implementation of remedial measures.	ERpropose 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 Contractor to stop that activity of work until the exceedance is abate.	Contractor working days of notification. 3. Implement the agreed proposals. 4. Resubmit proposals if problem still not under control. 5. Stop the relevant activity of works as determined by the ER until the exceedance is abated.			

Table 4 Event and Action Plan

4. NOISE MONITORING METHODOLOGY

4.1 Noise Monitoring Procedure

Noise monitoring was conducted at the designated noise monitoring location between 0700-1900 hours using a sound level meter which complies with the International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1). Noise instrumentation details are given in *Table 5*.

Manufacturer	Type/Model No.	Equipment
RION	Model NL 31	Precision Sound Level
		Analyser with windshield
RION	Model NC 73	Calibrator

Table 5 Noise Monitoring Equipment

Noise levels measurements were recorded in terms of thirty minutes A-weighted equivalent continuous sound pressure level (Leq($_{30mins}$)) on a weekly basis. The sound level meter was calibrated immediately prior to and following each noise measurement. The meter was mounted on a tripod at a height of 1.2m and the microphone was positioned at 1m away the building façade of the noise monitoring station facing the construction site. The sound level meters, including the calibrators, are verified by the manufacturer every one year to ensure they perform to the same level of accuracy as stated in the manufacturer's specifications. The calibration certificates for the sound level meter and calibrator are given in *Appendix C*.

Noise measurements were not made in the presence of fog, rain, and wind with a steady speed exceeding 5m/s or wind with gusts exceeding 10m/s. The wind speed was checked with a portable anemometer capable of measuring the wind speed in m/s.

4.2 Noise Monitoring Programme

Noise monitoring was conducted at designated noise monitoring locations during construction phase: a village house at Village House at Ma Tso Lung (MTL01) as shown in *Figure 2* on 8^{th} , 14^{th} , 20^{th} and 27^{th} September 2011. Details of the noise monitoring stations are shown in *Table 6. Appendix D* shows detailed schedule of the monitoring programme in the reporting month and upcoming month.

ID	Monitoring Location	Description of Monitoring Location
MTL01	Village House at Ma Tso	G/F boundary wall of Village House at Ma Tso
WIILUI	Lung	Lung

 Table 6 Descriptions of Noise Monitoring Locations

5. RESULTS

Noise monitoring results and weather conditions during the monitoring period is summarized in *Table 7*. Detailed results and graphical plots of noise monitoring are given in *Appendix E*. There were no exceedances of the action and limit levels during the reporting month.

Location	Date	Weather Condition	Wind Speed (m/s)	Time	L _{eq} (30mins)	L ₁₀ (30mins)	L90 (30mins)	Remarks
	08 Sep 11	Sunny	0.3	16:00 – 16:30	44.7	47.3	39.7	Transient noise from excavation works by adjacent DSD site
	14 Sep 11	Sunny	0.3	14:50 – 15:20	46.3	49.4	40.9	Noise from birdcall, transient noise from excavation works by adjacent DSD site
MTL01	20 Sep 11	Cloudy	0.3	16:00 – 16:30	47.1	49.3	41.4	Noise from birdcall, transient noise from excavation works by adjacent DSD site
	27 Sep 11	Sunny	0.3	09:00 – 09:30	49.3	50.0	41.8	Transient noise from excavation works by adjacent DSD site and traffic noise from Ma Tso Lung Road

Table 7 Noise Monitoring Results

6. SITE INSPECTION & AUDIT

A total of four site inspections were conducted by the Environmental Team (ET) in this reporting month. Observations by the ET, actions by the Contractor and outcome are summarized in the *Table 8*.

Date	Observations	Action taken by Contractor	Outcome		
		Contractor			
6 Sep 11	No major environmental	-	-		
	deficiency.				
16 Sep 11	No major environmental	-	-		
	deficiency.				
22 Sep 11	No major environmental	-	-		
	deficiency.				
27 Sep 11	Accumulation of general	The accumulated waste	The situation was		
	refuse and construction	was removed.	rectified as observed on		
	waste was observed		7 Oct 2011.		
	Unpaved area appeared	Adequate water spraying	The situation was		
	dry.	was provided.	rectified as observed on		
			7 Oct 2011.		

Table 8 Summary of Site Inspections

During site inspections in the reporting month, no non-conformance of implementation of environmental mitigation measures was identified. All environmental mitigation measures for construction stages as stated in approved EIA Report, EM&A Manual and EP-347/2009/A were carried out properly in the reporting month. The mitigation measures implementation schedule is shown in *Appendix F*.

7. NON-COMPLIANCE, COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

In this reporting period, no complaint, notification of summons or prosecution was received. No non-compliance for general works and no non-compliance against EP condition were recorded. The complaint log is appended in *Appendix G*.

8. WASTE MANAGEMENT

There are no inert C&D waste was disposed to Tuen Mun Area 38 Fill Bank, $0m^3$ of metal wastes, $0m^3$ of paper and cardboard packing and $39m^3$ of general refuse were disposed to North East New Territories Landfill. There are a total of $0m^3$ of chemical waste was transported off site to Chemical Waste Treatment Centre at Tsing Yi in this reporting period. The monthly Waste Flow Table is given in *Appendix H*.

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Good site practice shall be maintained and specific procedures in dealing with different kind of wastes shall be followed during construction. The Contractor shall maintain and record all triptickets as stipulated in the Waste Management Plan (WMP) and project EM&A Manual and make a thorough reference from the relevant Legislations and guidelines by the EPD.

9. STATUS OF LICENSE AND PERMIT

A summary of relevant permits, licences, and notifications on environmental protection for the Project is given in *Appendix I*.

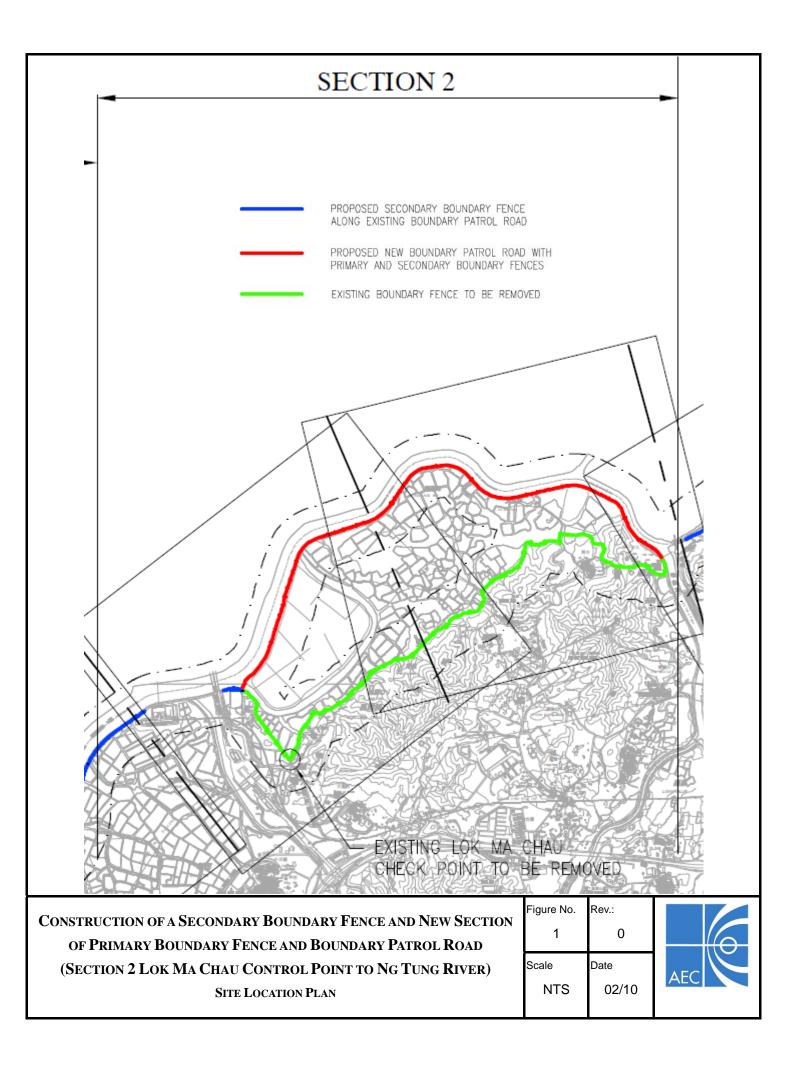
10. CONCLUSIONS AND FUTURE KEY ISSUES

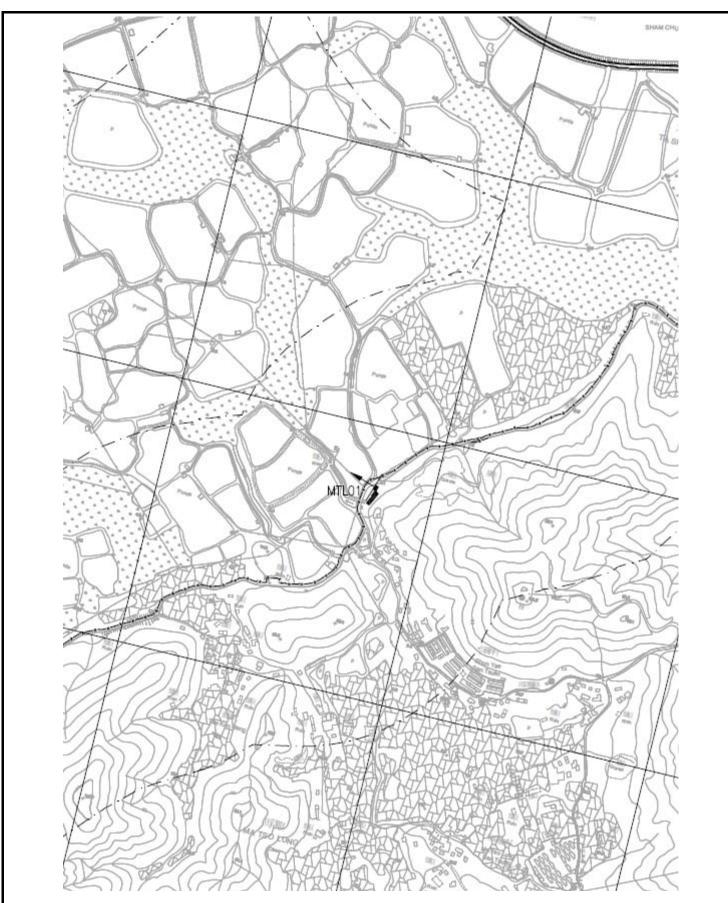
Environmental monitoring was carried out for the Construction of a Secondary Boundary Fence and New Section of Primary Boundary Fence and Boundary Patrol Road (Section 2 Lok Ma Chau Control Point to Ng Tung River) in the reporting month. Noise monitoring was conducted at a village house at Ma Tso Lung (MTL01) during the period from 1st September 2011 to 30th September 2011.

Noise monitoring was conducted at the monitoring location MTL01. All monitoring results complied with the relevant action and limit levels.

A total nos. of 39m³ of general refuse was disposed to NENT Landfill. No inert C&D waste was disposed in this reporting period.

Construction activities to be undertaken in October 2011 will include concreting to SBF / PBF footing including base and wall, backfilling and compaction to proposed boundary patrol road, U/G ducting works, concreting to road surface and fixing of GMS post to SBF. Potential environmental impacts include noise from loading, unloading and handling of materials and storage of various C&D and chemical wastes. The Contractor should properly implement environmental mitigation measures as per the implementation schedule in the EM&A manual to ensure no adverse environmental impacts to be arisen from the construction works. The Contractor was reminded to maintain good housekeeping at the site.





CONSTRUCTION OF A SECONDARY BOUNDARY FENCE AND NEW SECTION OF PRIMARY BOUNDARY FENCE AND BOUNDARY PATROL ROAD (SECTION 2 LOK MA CHAU CONTROL POINT TO NG TUNG RIVER) LOCATION OF NOISE MONITORING STATION





Appendix AProject Construction Programme



ABLE ENGINEERING COMPANY LIMITED 安保工程有限公司 A member of Vantage International (Holdings) Limited 盈信控股有限公司附属機構

Our Ref.: 23909/01/S0745

02nd August, 2011

By Hand

Mott MacDonald Hong Kong Limited 20/F., Two Landmark East, 100 How Ming Street Kwun Tong, Hong Kong

Attn: Mr. James Kam

Dear Sirs,

Re: ASD Contract No. SS W306 Construction of a Secondary Boundary Fence and New Section of Primary Boundary Fence and Boundary Patrol Road from Lok Ma Chau Control Point to Ng Tung River Revised Master Program Revision 3a

Further to the comment as stated in your Site Memorandum C216727/S2/252 dated 01/08/11, we would like to submit herewith our revised Master program Revision 3a as per attached for your earlier comment and approval.

Thank you for your kind attention.

Yours faithfully For and on behalf of ABLE ENGINEERING CO., LTD.

Gavin Lee Site Agent GL/KMT/kmt Encl.

c.c.	CPM203, ArchSD (Attn: Mr. C. L. Wong / Mr. Sammy Yue)	w/e
	ER/COW- SCOW/KE, ArchSD (Attn: Mr. Y. Y. Chan)	w/e
	RE / PCOW, Mottmac (Attn: Mr. Peter Tsang / Paul Chong)	w/e
	PBSI, Mottmac (Attn.: Mr. C. K. Hui)	w/e
	PQS / F&A (Attn.: Ms. Venus Yau)	w/e
	Site office / SQS	w/e

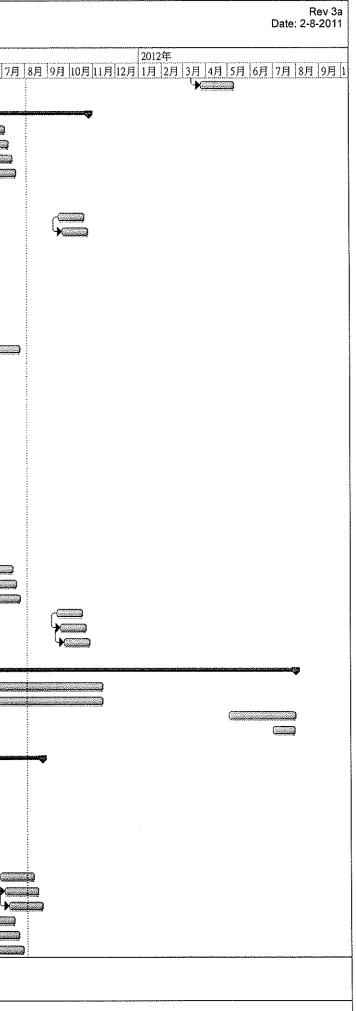
Able En	gineering Company Limited	<u>Master Programme</u> Construction of a Secondary Boundary Fence and New Section of Primary Boundary Fence and Boundary Patrol Road from Lok Ma Chau Control Point to Ng Tung River (Contract No. : SSW306)								
識別碼	任務名稱	工期	開始時間	完成時間	2010年 11月12月1月2月3月4月5月6月7月8月9月10月11月12月1月2月3月4月5月6					
day have been done at the state of the	Section A	970 days	2009/12/30	2012/8/25						
2	Site Possession	0 days	2009/12/30	2009/12/30						
3	Application entrance permit	14 days	2009/12/30	2010/1/12						
4	Site Office Erection	9 days	2010/1/13 2010/1/17	2010/1/21 2010/3/7						
5	Site Condition / Tree Survey Preparation works	50 days 90 days	2010/1/17	2010/3/7 2010/5/2						
6 7	Mobilization for preparation works	14 days	2010/2/2	2010/3/29						
8	Set up wheel wish equipment	14 days	2010/3/10	2010/3/29						
	Trial Mix design submission for concrete	0 days	2010/2/2	2010/2/22						
10	Trial Mix inspection for concrete	60 days	2010/3/4	2010/5/2						
11	TTA Submission	0 days	2010/3/25	2010/3/25						
12	Submission to EPD	58 days	2010/1/13	2010/3/12						
13	Registration as a chemical waste producer	0 days	2010/3/4	2010/3/4	♦ 3/4					
14	Further EP application	0 days	2010/1/13	2010/1/13	3 🗢 1/13					
15	Further EP approval	0 days	2010/2/19	2010/2/19						
16	Landscape plan submission	0 days	2010/3/12	2010/3/12						
17	Base line monitoring record submission	0 days	2010/3/10	2010/3/10						
18	Tree transplanting	864 days	2010/3/20	2012/7/30						
19	Tree Protection	21 days	2010/3/20	2010/4/9						
20	Pruning	70 days	2010/5/1	2010/7/9						
21	Transplanting	45 days	2010/7/10	2010/8/23						
22	Planting	100 days	2011/12/1	2012/3/9						
23	Hydroseeding	60 days	2012/6/1	2012/7/30						
24	Zone 1 SBF CH3000 to CH 150 (Footing, 1st layer Backfilling ~600mm THK)	738 days	2010/5/3	2012/5/9						
25 26	CH3000 -2920	46 days	2010/3/3	2012/3/9						
20	CH2920-2840	46 days	2011/4/29	2011/6/19						
28	CH2260-2640	46 days	2011/5/11	2011/6/25						
29	CH2760-2680	46 days	2011/5/17	2011/7/1						
30	CH2680-2600	46 days	2011/5/23	2011/7/7						
31	CH2600-2520	46 days	2011/8/14	2011/9/28						
32	CH2520-2440	46 days	2011/8/20	2011/10/4	4					
33	CH2440-2360	46 days	2011/8/26	2011/10/10						
34	CH2360-2280	46 days	2010/5/3	2010/6/17						
35	CH2280-2200	46 days	2010/5/9	2010/6/23						
36	CH2200-2120	46 days	2010/5/15	2010/6/29						
37	CH2120-2040	46 days	2010/5/21	2010/7/5						
38	CH2040-1960	46 days	2010/5/27	2010/7/11						
39	CH1960-1880	46 days	2010/6/2	2010/7/17						
40	CH1880-1800	46 days	2011/5/29	2011/7/13						
41	CH1800-1720	46 days	2010/5/16	2010/6/30						
42	CH1720-1640	46 days	2010/5/22 2010/5/28	2010/7/6 2010/7/12						
43 44	CH1640-1560 CH1560-1480	46 days 46 days	2011/6/4	2010/7/12						
44	CH1480-1400	46 days	2011/6/10	2011/7/25						
46	CH1400-1320	46 days	2010/6/3	2010/7/18						
40	CH1320-1240	46 days	2010/6/9	2010/7/24						
48	CH1240-1160	46 days	2010/6/15	2010/7/30						
49	CH1160-1080	46 days	2011/6/16	2011/7/31						
50	CH1080-1000	46 days	2010/6/2	2010/7/17						
51	CH1000-920	46 days	2010/6/24	2010/8/8						
52	CH920-840	46 days	2010/6/30	2010/8/14	4					
53	CH840-760	46 days	2011/6/22	2011/8/6						
54	CH760-680	46 days	2011/6/28	2011/8/12						
55	CH680-600	46 days	2010/7/12	2010/8/26						
56	CH600-520	46 days	2010/8/23	2010/10/7						
57	CH520-440	46 days	2011/6/10	2011/7/25						
58	CH440-360	46 days	2011/6/16	2011/7/31						
59	CH360-280	46 days	2011/6/22	2011/8/6 2012/5/3						
60	CH280-200	46 days	2012/3/19	2012/3/3						
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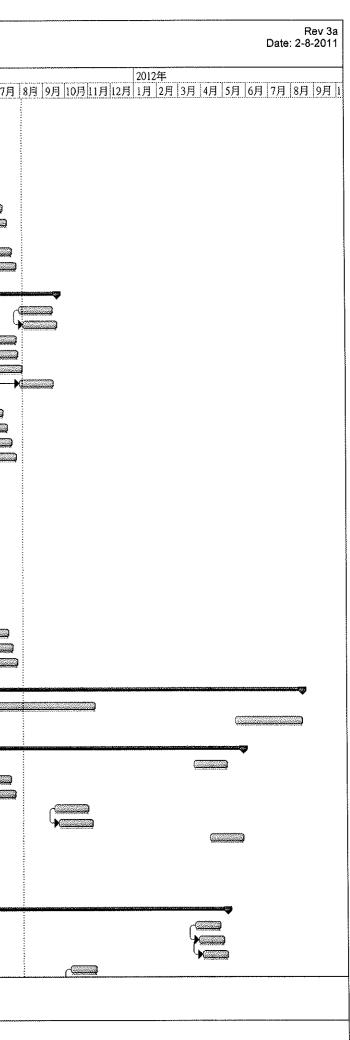
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ble Eng	ineering Company Limited	<u>Master Programme</u> Construction of a Secondary Boundary Fence and New Section of Primary Boundary Fence and Boundary Patrol Road from Lok Ma Chau Control Point to Ng Tung River (Contract No. : SSW306)							
敞別碼	壬務名稱	工期	開始時間	完成時間	2010年 11月 12月 1月 2月 3月 4月 5月 6月 7月 8月 9月 10月 11月 12月 1月 2月 3月 4月 5月 6月				
61	CH200-150	46 days	2012/3/25	2012/5/9					
62									
63	Zone 1 PBF CH3000 to CH 150 (Footing)	449 days	2010/8/4	2011/10/26					
64	CH3000-2920	35 days	2011/5/31	2011/7/4					
65	CH2920-2840	35 days	2011/6/5	2011/7/9					
66	CH2840-2760	35 days	2011/6/10	2011/7/14					
67	CH2760-2680	35 days	2011/6/15	2011/7/19					
68	CH2680-2600 CH2600-2520	35 days 35 days	2010/8/4 2010/8/25	2010/9/7 2010/9/28					
69 70	CH2520-2440 ·	35 days 35 days	2011/9/15	2010/9/28					
71	CH2440-2360	35 days	2011/9/19	2011/10/24					
72	CH2360-2280	35 days	2010/9/6	2010/10/10					
73	CH2280-2200	35 days	2010/9/11	2010/10/15					
74	CH2200-2120	35 days	2010/9/16	2010/10/20					
75	CH2120-2040	35 days	2010/9/21	2010/10/25					
76	CH2040-1960	35 days	2010/9/26	2010/10/20					
77	CH1960-1880	35 days	2010/10/1	2010/11/4					
78	CH1880-1800	35 days	2010/10/6	2010/11/9					
79	CH1800-1720	35 days	2011/6/20	2011/7/24	್ ಸಮಾನವರ್ಷ್				
30	CH1720-1640	35 days	2010/10/6	2010/11/9	, (
31	CH1640-1560	35 days	2010/10/11	2010/11/14					
32	CH1560-1480	35 days	2010/10/11	2010/11/14					
83	CH1480-1400	35 days	2010/10/11	2010/11/14					
34	CH1400-1320	35 days	2010/8/31	2010/10/4					
5	CH1320-1240	35 days	2010/9/5	2010/10/9					
6	CH1240-1160	35 days	2010/9/10	2010/10/14					
7	CH1160-1080	35 days	2010/9/15	2010/10/19	*				
38	CH1080-1000	35 days	2010/9/20	2010/10/24					
89	CH1000-920	35 days	2010/9/25	2010/10/29	→				
90	CH920-840	35 days	2010/9/30	2010/11/3					
91	CH840-760	35 days	2010/10/5	2010/11/8					
2	CH760-680	35 days	2010/10/10	2010/11/13					
3	CH680-600	35 days	2010/10/10	2010/11/13					
4	CH600-520	35 days	2011/6/10	2011/7/14	ſ				
95	CH520-440	35 days	2011/6/15	2011/7/19	γ ·				
96	CH440-360	35 days	2011/6/20	2011/7/24	L. L				
)7	CH360-280	35 days	2011/9/12	2011/10/16					
8	CH280-200	35 days	2011/9/17	2011/10/21					
99	CH200-150	35 days	2011/9/22	2011/10/26					
100									
01	Zone 1 Patrol road CH3000 to CH 150 (Back filling, E&M & CLP pipe duct & Road surfat	469 days	2011/4/18	2012/7/29					
02	Backfilling CH3000-1000	209 days	2011/4/18	2011/11/12					
103	Backfilling CH1000-150	191 days	2011/5/6	2011/11/12					
04	Road surface CH3000-1000	90 days	2012/5/1	2012/7/29					
105	Road surface CH1000-150	30 days	2012/6/29	2012/7/28					
06	7	600 1	0010110	0011/0/00					
07	Zone 2 SBF CH 5000 to CH3000 (Footing, 1st layer Backfilling ~600mm THK)	502 days	2010/4/9	2011/8/23					
08	CH4020 4840	46 days	2010/7/19	2010/9/2					
09	CH4920-4840 CH4840-4760	46 days	2010/7/25 2010/7/31	2010/9/8 2010/9/14					
10	CH4840-4760 CH4760-4680	46 days	2010/7/31 2010/8/6	2010/9/14 2010/9/20					
11	CH4700-4080 CH4680-4600	46 days 46 days	2010/8/6 2010/8/12	2010/9/20 2010/9/26					
	CH4080-4000 CH4600-4520	46 days 46 days	2010/8/12 2010/8/18	2010/9/26					
13 14	CH4520-4440	46 days 46 days	2010/8/18	2010/10/2					
15	CH4440-4360	46 days	2011/6/27	2011/8/11					
16	CH4360-4280	46 days 46 days	2011/7/3	2011/8/17					
17	CH4280-4200	46 days	2011/7/9	2011/8/23					
18	CH4200-4120	46 days 46 days	2011/6/1	2011/3/25	ي الم				
19	CH4120-4040	46 days	2011/6/7	2011/7/22					
20	CH4040-3960	46 days	2011/6/13	2011/7/28					
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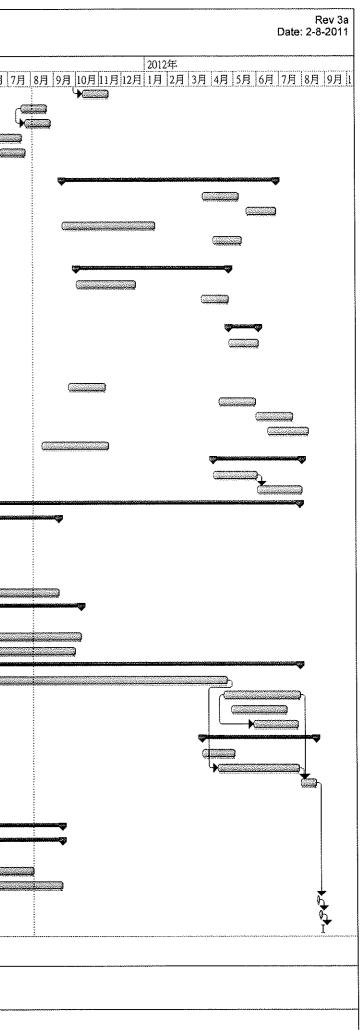
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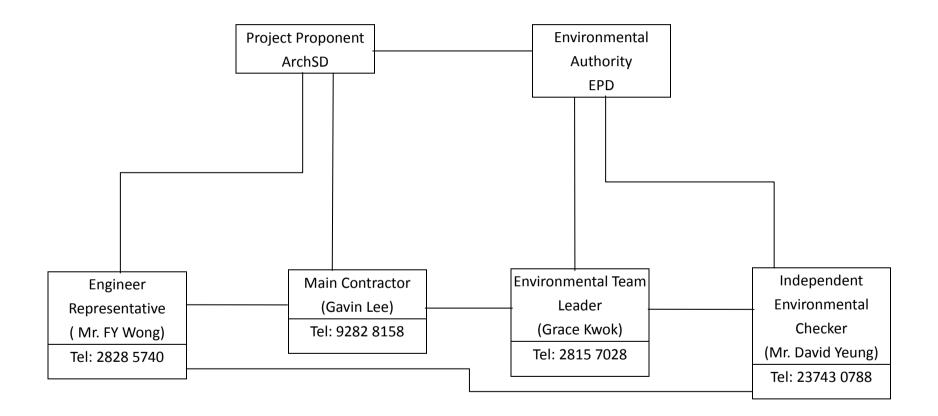
Able Eng	jineering Company Limited	Construct	ion of a Secondary H from Lok	loundary Fence an Ma Chau Control	Master Program d New Section of Point to Ng Tun	<u>nme</u> Primary Boundary F g River (Contract No	ence and Bour . : SSW306)	ndary Patrol Road	
識別碼	任務名稱	工期	開始時間	完成時間	2010年		7月 8月 9月		111年 月 2月 3月 4月 5月 6月 71
121	CH3960-3880	46 days	2010/6/18	2010/8/2		<u> </u>			
122	CH3980-3800	46 days	2010/6/24	2010/8/8		ų (
123	CH3800-3720	46 days	2010/6/30	2010/8/14		ų			
124	CH3720-3640	46 days	2011/4/29	2011/6/13					
125	CH3640-3560	46 days	2011/5/5	2011/6/19					
126	CH3560-3480	46 days	2011/5/11	2011/6/25					
127	CH3480-3400	46 days	2011/5/17	2011/7/1					
128	CH3400-3320	46 days	2011/5/23	2011/7/7					
129 130	CH3320-3240 CH3240-3160 •	46 days 46 days	2011/5/29 2010/4/9	2011/7/13 2010/5/24					
130	CH3240-3160 CH3160-3080	46 days 46 days	2010/4/9	2010/3/24		فيتبتدينين			
131	CH3080-3000	46 days	2011/6/10	2011/7/25					
132	C115000-5000	40 duys	2011/0/10	2011///25					• SEDIMON
133	Zone 2 PBF CH 5000-3000 (Footing & 2nd layer Backfilling up to sub-base)	415 days	2010/7/31	2011/9/18					
135	CH5000-4920	46 days	2011/7/29	2011/9/12					
136	CH4920-4840	46 days	2011/8/4	2011/9/18					
137	CH4840-4760	46 days	2011/6/10	2011/7/25					
138	CH4760-4680	46 days	2011/6/12	2011/7/27					
139	CH4680-4600	46 days	2011/6/18	2011/8/2					
140	CH4600-4520	46 days	2011/7/30	2011/9/13					(
141	CH4520-4440	46 days	2011/5/17	2011/7/1					
142	CH4440-4360	46 days	2011/5/23	2011 <i>/7/7</i>					4
143	CH4360-4280	46 days	2011/5/29	2011/7/13					Y
144	CH4280-4200	46 days	2011/6/4	2011/7/19					¥
145	CH4200-4120	46 days	2011/6/10	2011/7/25					<u> </u>
146	CH4120-4040	46 days	2010/7/31	2010/9/14					
147	CH4040-3960	46 days	2010/8/6	2010/9/20					
148	CH3960-3880	46 days 46 days	2010/8/12 2010/8/18	2010/9/26 2010/10/2					
149 150	CH3880-3800 CH3800-3720	46 days	2010/8/24	2010/10/2					
150	CH3720-3640	46 days	2010/8/20	2010/10/14					
151	CH3640-3560	46 days	2010/0/9/5	2010/10/20					
152	CH3560-3480	46 days	2010/9/11	2010/10/26			G		
154	CH3480-3400	46 days	2010/9/17	2010/11/1			L L		
155	CH3400-3320	46 days	2010/9/23	2010/11/7			- G		
156	CH3320-3240	46 days	2010/9/29	2010/11/13			l	+	
157	CH3240-3160	46 days	2011/5/30	2011/7/14					
158	CH3160-3080	46 days	2011/6/5	2011/7/20					4
159	CH3080-3000	46 days	2011/6/11	2011/7/26					
160									
161	Zone 2 Patrol road CH 5000-3000 (Back filling, E&M & CLP pipe duct & Road surface)	439 days	2011/6/1	2012/8/12					
162	Backfilling CH5000-3000	160 days	2011/6/1	2011/11/7					
163	Road Surface CH5000-3000	90 days	2012/5/15	2012/8/12					
164	Zone 3 SEE (US700 to CUS000 (Easting 1st laws Deal-Filling 600mm (FILK)	687 davia	2010/7/13	2012/5/25				****	
165 166	Zone 3 SBF CH5700 to CH5000 (Footing, 1st layer Backfilling ~600mm THK) CH5700-5640	682 days 46 days	2010/7/14 2012/3/19	2012/5/25 2012/5/3			•		
166	CH5/00-5640 CH5640-5560	46 days 46 days	2012/3/19 2011/6/2	2012/3/3					
167	CH3040-5300 CH5560-5480	46 days	2011/6/8	2011/7/23					
169	CH5480-5400	46 days 46 days	2011/9/14	2011/10/29					·
170	CH5400-5320	46 days	2011/9/20	2011/10/25					
171	CH5320-5240	46 days	2012/4/10	2012/5/25					
172	CH5240-5160	46 days	2010/7/14	2010/8/28					
173	CH5160-5080	46 days	2010/7/20	2010/9/3					
174	CH5080-5000	46 days	2010/7/26	2010/9/9					
175									
176	Zone 3 PBF CH5700 to CH5000 (Footing)	324 days	2011/6/15	2012/5/3					6417 11 10 10 10 10 10 10 10 10 10 10 10 10
177	CH5700-5640	35 days	2012/3/20	2012/4/23					
178	CH5640-5560	35 days	2012/3/25	2012/4/28					
179	CH5560-5480	35 days	2012/3/30	2012/5/3					
180	CH5480-5400	35 days	2011/10/5	2011/11/8					······································
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Able Eng	Jineering Company Limite	d				Construct	ion of a Secondar from I	ry Boundary Fence an Lok Ma Chau Control	<u>Master Progr</u> d New Section Point to Ng Tu	of Primary Boundar	ry Fence and Bo No. : SSW306)	oundary Patrol Ro	oad
識別碼(任務名稱					工期	開始時間	完成時間	2010	年 2月12日14日15日	68 78 0F		2011年 月1月2月3月4月5月6月7
181	CH5400-5320				·····],	35 days	2011/10/1		<u>ן ר/ו ר/13 ר/11</u>	מנן מיין מכן מי		7/3 [10/3 [17/3 [12/	1111212121212121212121212121212121212121
182	CH5320-5240					35 days	2011/7/1						4
183	CH5240-5160					35 days	2011/7/2						(
184	CH5160-5080					35 days	2011/6/1	5 2011/7/19					
185	CH5080-5000					35 days	2011/6/2						L
186													
187	Zone 3 Patrol road CH570	0 to CH5000 (Back	filling, E&M & CLP	pipe duct & R	load surfa	289 days	2011/9/1	2 2012/6/26					
188	Backfilling CH5700-5				-	50 days	2012/3/1	9 2012/5/7					
189	Road Surface CH5700					40 days	2012/5/1						
190	Backfilling CH5400-5	• 000				125 days	2011/9/1	2 2012/1/14					
191	CH5400-5000					40 days	2012/4/	2 2012/5/11					
192													
193	Zone 4 SBF CH150(near	by Gate 98) to CH	000 (Footing, 1st laye	r Backfilling -	600mm 1	206 days	2011/10/	1 2012/4/23					
194	Application for excava	ition permit & appro	oval			80 days	2011/10/	1 2011/12/19					
195	CH150-CH000					38 days	2012/3/1	7 2012/4/23					
196													
197	Zone 4 Patrol road CH150	(near by Gate 98)	to CH000 (Back filling	ng, E&M & Ro	oad surfac	40 days	2012/4/2						
198	CH150-CH000					40 days	2012/4/2	4 2012/6/2					
199													
200	1st Backfilling From CH4					70 days	2010/4/2						
201	2nd Backfilling From CH					50 days	2011/9/2						
202	Modification works for the	U-channel & Cato	h Pit			50 days	2012/4/1						
203	New Catch Pit					50 days	2012/5/3						
204	Road mark	۰.				55 days	2012/6/1						
205	RC meter Kiosk					90 days	2011/8/1						
206	Bollard					120 days	2012/4/						
207	Steel bollard installation	n				60 days	2012/4/						
208	Painting					60 days	2012/6/			141		*****	
209	PBF & SBF & Lamp Post					861 days	2010/3/2			~			
210	Steel Work	7				536 days	2010/3/2			*			
211	Trial Panel for Bl	-				30 days	2011/3/2 2011/4/2						_
212 213	Steel work testing Material Order	5				15 days	2011/4/2 2011/5/1						
213	Fabrication					21 days 90 days	2011/3/1			(
214	Material Delivery	r				120 days	2010/3/2			Constanting			+
215	Lamp Post					220 days	2011/3/						
210	Material Order					220 days 20 days	2011/3/						* ©
218	Fabrication					200 days	2011/3/2						
219	Material Delivery	,				120 days	2011/6/						(
220	Site installation					500 days	2011/3/1						*
221	PBF / SBF / Lam	p Post erection				402 days	2011/3/1						
222	XPM mesk fixin					103 days	2012/4/1						· · · · · · · · · · · · · · · · · · ·
223	Painting	-				75 days	2012/4/2						
224	Razor Barbed wi	re fixing				60 days	2012/5/2						
225	E&M works					154 days	2012/3/1						
226	Flood light installation					45 days	2012/3/1						
227	Wiring works & Misce					110 days	2012/4/						
228	T&C inspection					21 days	2012/7/2						
229	Section B CH 4200 to CH	5400				164 days	2010/6/1				~	V	
230	New wave wall ~ CH					164 days	2010/6/1				(
231	Section D CH150 to CH42					326 days	2010/10/2						
232	Strengthen the wave v					326 days	2010/10/2					\$00	
233	Preparation work:	5				24 days	2010/10/2						
234	Zone 1					120 days	2011/4/						<u></u>
235	Zone 2					107 days	2011/5/2						
236	Pre - handover inspection					3 days	2012/8/1						
237	Genal Cleaning					4 days	2012/8/2						
238	Handover					l day	2012/8/2	5 2012/8/25					
Monton Duc	gramme Rev 3a 2-8-2011(su	任務		進度			摘要	*	外部任務		◎ 期限		
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Appendix B Organization Chart — Line of communication



Appendix C Calibration Certificates of Noise Monitoring Instruments



Certificate No. : C113270

Certificate of Calibration

This is to certify that the equipment

Description : Sound Level Meter Manufacturer : Rion Model No. : NL-31 Serial No. : 00410224

has been calibrated for the specific items and ranges. The results are shown in the Calibration Report No. C113270.

The equipment is supplied by

Co. Name : Envirotech Services Co.

Address : Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road, Hong Kong

Date of Issue : 10 June 2011

Certified by : Un An Ch HC Chan

The test equipment used for calibration are traceable to the National Standards as specified in this report. This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration and Testing Laboratory of Sun Creation Engineering Limited

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong Tel: 2927 2606 Fax: 2744 8986 E-mail: callab@suncreation.com Website: www.suncreation.com



Certificate No. : C113870

Certificate of Calibration

This is to certify that the equipment

Description : Sound Level Calibrator Manufacturer : Rion Model No. : NC-73 Serial No. : 10997142

has been calibrated for the specific items and ranges. The results are shown in the Calibration Report No. C113870.

The equipment is supplied by

Co. Name : Envirotech Services Co.

Address : Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road, Hong Kong

Date of Issue : 11 July 2011

Certified by : HC Chan

The test equipment used for calibration are traceable to the National Standards as specified in this report. This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration and Testing Laboratory of Sun Creation Engineering Limited

c/o 4/F. Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong Tel: 2927 2606 Fax: 2744 8986 E-mail: callab@suncreation.com Website: www.suncreation.com Appendix DDetail Schedule of Noise Monitoring Programme

Schedule for noise monitoring programme of Construction of a Secondary Boundary Fence and New Section of Primary Boundary Fence and Boundary Patrol Road (Section 2 Lok Ma Chau Control Point to Ng Tung River)

Date	Start Time
8 th September 2011	16:00
14 th September 2011	14:50
20 th September 2011	16:00
27 th September 2011	09:00

Monitoring schedule for the reporting month

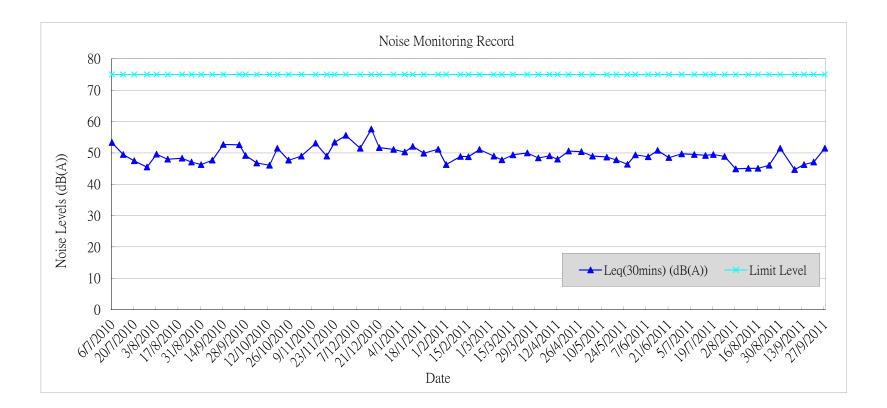
Monitoring schedule of the coming month

Date	Time
6 th October 2011	To be confirmed
11 th October 2011	To be confirmed
18 th October 2011	To be confirmed
25 th October 2011	To be confirmed

Appendix E Summary and Graphical Plot of Noise Monitoring Record Noise Monitoring Result for Construction of a Secondary Boundary Fence and New Section of Primary Boundary Fence and Boundary Patrol Road (Section 2 Lok Ma Chau Control Point to Ng Tung River)

Month: September 2011

Date	Time	Leq(30mins) (dB(A))	L10(30mins) (dB(A))	L90(30mins) (dB(A))	Limit Level
8-Sep-11	16:00 - 16:30	44.7	47.3	39.7	75
14-Sep-11	14:50 - 15:20	46.3	49.4	40.9	75
20-Sep-11	16:00 - 16:30	47.1	49.3	41.4	75
27-Sep-11	09:00 - 09:30	49.3	50.0	41.8	75



Appendix F Mitigation Measures Implementation Schedule for Construction Stage

	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Status
<u>Air Qu</u>	uality							
During	g Constru	action						
2.5.2	3.2.2	 The following good site practice should be implemented: any 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; dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting; the area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should paved with concrete, bituminous materials or hardcores; 	impact	Contractor	Constructi on Work Sites	During Construction	EIAO-TM, Air Pollution Control (Construction Dust) Regulation	*

Remarks:

- ^ Implement mitigation measure in the reporting month;
- X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

As updated on 11 October 2011

EIA Ref.	EM&A Log Ref.		Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Status
		 the portion of road leading only to a construction site that is 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; vehicle speed should be limited to 10kph except on completed access roads; every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites. 						^
<u>Noise</u>								
Durin 3.8.14	g Constru	The following good site practical should be implemented:	-	Contractor	Constructi on Work Sites	During Construction	EIAO-TM, NCO	۸ ۸

Remarks:

Implement mitigation measure in the reporting month; X Non-compliance of mitigation measure;

N/A Not Applicable in the reporting month;

* Not satisfactory but rectified by the contractor.

As updated on 11 October 2011

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EIA	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
		• 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;						
		• 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;						
		• Noisy equipment and noisy activities should be located as far away from the						^
		NSRs as is practical;						
		• Unused equipment should be turned off. PME should be kept to a minimum						^
		and the parallel use of noisy equipment / machinery should be avoided;						
		• Regular maintenance of all plant and equipment;						^
		• Material stockpiles and other structures should be effectively utilised as noise						N/A
		barriers, where practicable.						

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- X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Status
3.8.1	4.8.2	Other than good site practice, the Contractor is required to adopt Levels 1 and 2	To mitigate	Contractor	Constructi	During	EIAO-TM, NCO	N/A
-3.8.3	-4.8.3	site-specific direct mitigation measures as specified below during the construction	construction noise		on work	construction		
		phase. With construction / demolition work undertaken at a distance of 60m or less to the NSRs, below mitigation measures should be included:	impact		sites			
		 Level 1 – Use of Quiet Plant and Movable Noise Barrier The Contractor shall obtain particular models of plant that are quieter than standards given in GW-TM. 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. 	l					

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N/A Not Applicable in the reporting month;

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EIA	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
3.8.9	4.8.4	In addition to the use of quiet plant and movable noise barrier, alternative	To mitigate	Contractor	Constructi	Before the	EIAO-TM, NCO	^
		demolition method of existing boundary fence at Section 2-3 shall be used where	construction noise		on work	commenceme		
		demolition works would be undertaken at a distance of 12m or less to the NSRs.	impact for demolition		sites	nt of		
		These particular mitigation measures should be included:	of existing boundary		(Section 2	demolition		
			fence		- 3)	works		
		Level 2 – Alternative Demolition Method of Existing Boundary Fence						
		• The use of welder is recommended to replace the use of hand-held driller;						
		• The use of hand-held breaker with movable noise barrier is recommended to						
		replace the use of mini-robot mounted breaker; and the duration for the use of						
		hand-held breaker is minimal as only the surface level of the footing to be						
		broken; and						
		• The removal of the footing of the existing boundary fence should be carried by						
		concrete crusher mini-robot mounted after the surface level broken by						
		hand-held breaker.						

- ^ Implement mitigation measure in the reporting month;
- X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

Appendix F Environmental Mitigation Implementation Schedule

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Status
Water	r Quality							
Durin	ng Constru	iction					-	
4.7.1		 Good site practices in addition to the implementation of mitigation measures would minimize the impact to the surrounding environment. <i>General Prevention and Precaution Measures</i> 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. 	To avoid site runoff and chemical leakage	Contractor	Constructi on work sites	During construction	Practice Note for Professional Persons with regard to site drainage (ProPECC PN 1/94) and TM standard under the WPCO	^ ^
		 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; Suitable containers shall be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport; 						^

Remarks:

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- X Non-compliance of mitigation measure;

N/A Not Applicable in the reporting month;

* Not satisfactory but rectified by the contractor.

EIA	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
		• 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;						
		• 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						N/A
		leakage of oil or fuel shall be removed off-site immediately;						
		• 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;						
		• Regular clearance of domestic waste generated in the temporary sanitary						^
		facilities to avoid waste water spillage.						
		• Temporary sanitary facilities to be provided for on-site workers during						^
		construction.						

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EIA	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
4.7.2 –	5.3.2-5.	Concreting Work	To collect runoff	Contractor	Constructi	During	Practice Note for	^
4.7.3	3.3	A temporary drainage channel and associated facilities should be provided to collect	generated and prevent		on work	construction	Professional Persons with	
		the runoff generated and prevent concrete-contaminated water from entering	concrete-contaminated		sites		regard to site drainage	
		watercourses. Adjustment of pH can be achieved by adding a suitable neutralising	water from entering				(ProPECC PN 1/94) and	
		reagent to wastewater prior to discharge.	watercourses				TM standard under the	
							WPCO	
		The concreting works should be temporarily isolated with proper methods, such as					CEDD General	

X Non-compliance of mitigation measure;

N/A Not Applicable in the reporting month;

* Not satisfactory but rectified by the contractor.

EIA	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
		by placing of sandbags or silt curtains with lead edge at bottom and properly	To prevent adverse				Specification- Protection	N/A
		supported props.	impacts on the water		Work sites		of natural streams/rivers-	
			quality of Lin Ma		of Section		Clause 25.09	
			Hang Stream SSSI		3 in the			
					proximity			
					of Lin Ma			
					Hang			
					Stream			
					SSSI			
4.7.4	5.3.4	Soil Excavation and Stockpiling	To avoid site runoff	Contractor	Constructi	During	Practice Note for	^
		Excavated soil which needs to be temporarily stockpiled should be stored in a			on work	construction	Professional Persons with	
		specially designated area and provided with a tarpaulin cover to avoid runoff into			Sites		regard to site drainage	
		the drainage channels.					(ProPECC PN 1/94) and	
							TM standard under the	
							WPCO	

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- X Non-compliance of mitigation measure;

*

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EIA	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
4.7.5 -	5.3.5-5.	Site Depot	To avoid wash-out of	Contractor	Constructi	During	Practice Note for	N/A
4.7.6	3.6	All compounds in works areas should be located on areas of hard standing with	oil during storm		on work	construction	Professional Persons with	
		provision of drainage channels and settlement ponds where necessary to allow	conditions		Sites		regard to site drainage	
		interception and controlled release of settled/treated water. Hard standing					(ProPECC PN 1/94) and	
		compounds should drain via an oil interceptor. The oil interceptor should be					TM standard under the	
		regularly inspected and cleaned to avoid wash-out of oil during storm conditions. A					WPCO	
		bypass should be provided to avoid overload of the interceptor's capacity. Any						
		contractor generating waste oil or other chemicals as a result of his activities should						

- Х Non-compliance of mitigation measure;

Not Applicable in the reporting month; N/A

* Not satisfactory but rectified by the contractor.

EIA	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
		register as a chemical waste producer. Disposal of the waste oil should be done by a						^
		licensed collector.						
		Good housekeeping practices should be implemented to minimise careless spillage						
		and to keep the storage and the work space in a tidy and clean condition.						
		Appropriate training including safety codes and relevant manuals should be given to						
		the personnel who regularly handle the chemicals on site.						
4.7.7	5.3.7	Construction of Checkpoint	To avoid disposal of	Contractor	Constructi	During	N/A	N/A
		Sewage system should be constructed to divert domestic sewage, which will be	domestic sewage into		on work	construction		
		generated from the sanitary facilities provided in the new checkpoint at Shek Chung	watercourses.		Site at			
		Au, to public sewer connected to government sewage treatment facilities.			Checkpoin			
					t			
Waste	Manager	nent						
During	g Constru							

- ^ Implement mitigation measure in the reporting month;
- X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

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EIA	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
5.6.7	6.3.6	Site Clearance	Prevent the generation	Contractor	Constructi	During	Waste Disposal	^
		The topsoil and vegetation removed and excavated material may have to be	of dust and pollution		on work	construction	Ordinance (Cap.354);	
		temporarily stockpiled on-site. Control measures should be taken at the stockpiling	of storm water		sites		ETWBTC No. 15/2003,	
		area to prevent the generation of dust and pollution of stormwater channels, fish	channels				Waste Management on	
		ponds or river channels. However, to eliminate the risk of blocking drains in the wet					Construction Site	
		season, it is recommended that stockpiling of excavated materials during the wet						
		season should be avoided as far as practicable.						
5.6.10	6.3.8	Construction and Demolition Materials	Minimize	Contractor	Constructi	During	Waste Disposal	^
_		Careful design, planning and good site management can minimize over-ordering	over-ordering and		on work	construction	Ordinance (Cap.354);	
5.6.12		and generation of waste materials such as concrete mortars and cement grouts. The	generation of waste		sites		ETWBTC No. 15/2003,	
		design of formwork should maximize the use of standard wooden panels so to	materials				Waste Management on	
		achieve high reuse levels. Alternatives such as steel formwork or plastic facing					Construction Site	
		should be considered to increase the potential for reuse.						

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EIA Ref.	EM&A Log Ref.		Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Status
		The Contractor should recycle as much of the C&D materials as possible on-site. Proper segregation of waste on-site will increase the feasibility of certain components of the waste stream by the recycling contractors. Different areas of the worksite shall be designated for such segregation and storage wherever site conditions permit.						^
		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. Government has established a differentiated charging scheme for the disposal of waste to landfill, construction waste sorting facilities and public fill facilities. This will provide additional incentives to reduce the volume of waste generated and to ensure proper segregation of wastes.						
5.6.13- 5.6.14	6.3.13	Chemical Waste For those processes which generate chemical waste, it may be possible to find alternatives which generate reduced quantities or even no chemical waste, or less dangerous types of chemical waste.		Contractor	Constructi on work sites	During construction planning	Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes, Waste Disposal	^

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

EIA	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
		Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal					(Chemical Waste)	^
		(Chemical Waste) (General) Regulation, should be handed in accordance with the					(General) Regulation	
		Code of Practice on the Packaging, Handling and Storage of Chemical Waste as						
		follows:						
		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 unless the specification have been						^
		approved by the EPD; and						
		• display a label in English and Chinese in accordance with instructions						^
		prescribed in Schedule 2 of the Regulations,						
		The storage area for chemical wastes should:						^
		• be clearly labelled and used solely for the storage of chemical waste;						^
		• be enclosed on at least 3 sides;						^
		• have an impermeable floor and bunding, of capacity to accommodate 110% of						^
		the volume of the largest container or 20% by volume of the chemical waste						
		stored in that area whichever is the greatest;						
Remarks	: ^	Implement mitigation measure in the reporting month; X Non-compliance of mitigati	on measure;					
	N/A	Not Applicable in the reporting month; * Not satisfactory but rectifie	d by the contractor.					

EIA	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
		have adequate ventilation;						^
		• be covered to prevent rainfall entering (water collected within the bund must be						^
		tested and disposed as chemical waste if necessary); and						
		• be arranged so that incompatible materials are adequately separated.						^
		Disposal of chemical waste should:						^
		• be via a licensed waste collector; and						^
		• be to a facility licensed to receive chemical waste, such as the Chemical Waste						^
		Treatment Facility which also offers a chemical waste collection service and						
		can supply the necessary storage containers, or						
		• to be re-user of the waste, under approval from the EPD.						N/A
5.6.16	6.3.15	General Refuse	Minimise odour, pest	Contractor	Constructi	During	Public Health and	^
		Should be stored in enclosed bins or compaction units separate from C&D and	and litter impacts		on work	construction	Municipal Services	
		chemical wastes. The Contractor should employ a reputable waste collector to			sites		Ordinance (Cap. 132)	
		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.						

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X Non-compliance of mitigation measure;

*

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EIA	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
5.6.18	6.3.16	Construction Waste Management Plan	Waste management	Contractor	Constructi	During	ETWB TCW No.	^
		A construction waste management plan (CWMP) should be prepared and developed	during construction		on work	construction	19/2005, Waste	
		by the contractor to ensure proper collection, treatment and disposal of waste on			sites		Management on	
		site. This CWMP will also take into account the requirement to handle chemical					Construction Sites	
		wastes on site which will need to be managed by a licensed waste collection						
		contractor.						
Ecolo	ogy							
Table	7.2	Ecological Impacts on Floral Species of Conservation Concern	Protect the plant	Contractor	Constructi	During	EIAO	٨
6.38		Erection of protective fencing to protect the plant during construction period	during construction		on work	construction		
			period		sites			

X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

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		Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
Table	7.2	Potential Ecological Impacts on Offsite Habitats	To avoid site runoff	Contractor	Constructi	During	EIAO / Air Pollution	^
6.40		Good site practices for controlling the dust and water quality (avoid stockpiles	and dust impact		on work	construction	Control	
		adjacent to wetlands, covering the stockpiles with impervious sheeting, control of			sites		(Construction Dust)	
		vehicle speed, no discharge of silty water to the rivers, streams and drainage					Regulation / WPCO	
		channels);						
		Clear definition of works limit to avoid impact on adjacent habitats						

X Non-compliance of mitigation measure;

N/A Not Applicable in the reporting month;

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Ref.	EM&A Log Ref.		Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Status		
Table	7.2	Disturbance to Wetland-Dependent Birds, Raptors, Terrestrial Birds and	To minimize	Contractor	Constructi	During	EIAO / Air Pollution	^		
6.39-T		Egretry	disturbance to wildlife		on work	construction	Control			
able		Good working practices include switching off unused equipment, keep minimum			sites		(Construction Dust)			
6.45		number of powered mechanical equipment in operation at the same period, the use					Regulation / WPCO			
		of stockpiles and other structures to form noise barriers where practicable,								
		avoidance of feeding the wildlife to cause disturbance, site confinement and proper								
		cover of stockpiles with impervious sheeting to minimize construction noise,								
		uncontrolled surface runoff and discharge of silts;								
		Avoidance of construction works using Power Mechanical Equipments within the								
		Wetland Conservation Area during bird migratory season (15th November – 15th								
		March); and								
		Restriction of excavation works within a 150m buffer zone from the egretry								
		to ardeid non-breeding season (from August to February).								
Cultur	al Herita	Cultural Heritage								

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*

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Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
8.7.1 –	8.1.1 -	An archaeological survey should be undertaken at the study areas of Pak Fu Shan	Assess the	Contractor	The study	After land	Antiquities and	N/A
8.7.4	8.1.4	and Lin Ma Hang of Section 3 after land resumption and before commencement of	archaeological impact	(through	areas of	resumption	Monuments Ordinance /	
		construction works	on the two identified	professional	Pak Fu	and before	EIAO	
			sites of archaeological	archaeologist)	Shan and	commenceme		
			potential.		Lin Ma	nt of		
					Hang of	construction		
					Section 3	works		

X Non-compliance of mitigation measure;

N/A Not Applicable in the reporting month;

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EIA Ref.	EM&A Log		Objectives of the Recommended	Who to implement	Location of the	When to implement	What requirements or standards for the	Status
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
8.7.6	8.2.1	Built Heritage Resources	Avoid impacts to built	Contractor	The works	During	EIAO	N/A
		Mitigation in the form of buffer zones and safe public access have been proposed	heritage resources		that are	Construction		
		for one shrine (BF-HB1) and two graves (BF-G1 and G2)			located in			
					the vicinity			
		BF-HB1			of built			
		A buffer zone of a minimum distance of 1 metres should be established between the			heritage			
		shrine and any construction works in close proximity. The buffer zone should be			resources			
		marked out by temporary fencing. Safe public access should be provided to the			(BF-HB1			
		shrine during any construction works in close proximity.			and BF-G1			
					and G2)			
		BF-G1 and BF-G2						
		A buffer zone of a minimum distance of 1 metres should be established between the						
		graves and any construction works in close proximity. The buffer zone should be						
		marked out by temporary fencing. Safe public access should be provided to the						
		graves during any construction works in close proximity.						

- ^ Implement mitigation measure in the reporting month;
- X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

Appendix F Environmental Mitigation Implementation Schedule

	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Status
Lands	cape and	Visual						
		Preservation of Existing Vegetation						
Table 7-13 CP1	Table 9-1	• 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.	Preservation of Existing Vegetation	Project Landscape Architect / Contractor	Site	Throughout construction phase	TM-EIA Annex 18, ETWB TCW No. 2/2004 & ETWB TCW No. 3/2006	^
	Table 9-1	• Creation of precautionary area around trees to be retained equal to half of the trees canopy diameter. Precautionary area to be fenced.	To ensure the success of the tree preservation proposals.	Project Landscape Architect / Contractor	Site	Before construction phase commences	TM-EIA	^
Table 7-13 CP1	Table 9-1	 Prohibition of the storage of materials including fuel, the movement of construction vehicles, and the refuelling and washing of equipment including concrete mixers within the precautionary area. 	To ensure the success of the tree preservation proposals.	Project Landscape Architect / Contractor	Site	Throughout construction phase	TM-EIA Annex 18, ETWB TCW No. 2/2004 & ETWB TCW No. 3/2006	^

Remarks:

- ^ Implement mitigation measure in the reporting month;
- X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Status
Table 7-13 CP1	Table 9-1	 Phased segmental root pruning for trees to be retained and transplanted 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. 	proposais.	Project Landscape Architect / Contractor	Site	Throughout construction phase	TM-EIA Annex 18, ETWB TCW No. 2/2004 & ETWB TCW No. 3/2006	^
Table 7-13 CP1	Table 9-1	• Pruning of the branches of existing trees identified for transplantation and retention to be based on the principle of crown thinning maintaining their form and amenity value.	To ensure the success of the tree preservation proposals.	Project Landscape Architect / Contractor	Site	Throughout construction phase	TM-EIA Annex 18, ETWB TCW No. 2/2004 & ETWB TCW No. 3/2006	^
Table 7-13 CP1	Table 9-1	• The watering of existing vegetation particularly during periods of excavation when the water table beneath the existing vegetation is lowered.	To ensure the success of the tree preservation proposals.	Project Landscape Architect / Contractor	Site	Throughout construction phase	TM-EIA Annex 18, ETWB TCW No. 2/2004 & ETWB TCW No. 3/2006	^
Table 7-13 CP1	Table 9-1	• 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	of the tree	Project Landscape Architect / Contractor	Site	Throughout construction phase	Annex 18, ETWB TCW No. 2/2004 & ETWB TCW No. 3/2006	N/A

Implement mitigation measure in the reporting month;

X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

As updated on 11 October 2011

^

Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Status
			Concerns to address					
Table	Table	• All works affecting the trees identified for retention and transplantation will be carefully monitored. This includes the key stages in the preparation of the		Project	Site	Throughout construction	TM-EIA Annex 18,	^
7-13	9-1	trees, the implementation of protection measures and health monitoring through out the construction period	proposals.	Landscape Architect /		phase	ETWB TCW No. 2/2004 & ETWB TCW No.	
CP1				Contractor			3/2006	
	Table 9-1	 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. 	To ensure the tree preservation and planting proposals are integrated with the existing landscape context and that the landscape resources are preserved where	Project Landscape Architect / Contractor	Site	Throughout construction phase	TM-EIA Annex 18, ETWB TCW No. 2/2004 & ETWB TCW No. 3/2006	^
			appropriate.					

X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

EIA	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
Table	Table	• The tree preservation works should be implemented by approved Landscape Contractors and inspected and approved on site by a qualified Landscape	To ensure the tree	Contractor	Site	Throughout	TM-EIA Annex 18,	^
7-13	9-1	Architect. A tree protection specification would be included within the contract	preservation and			construction phase	ETWB TCW No. 2/2004	
		documents.	planting proposals are			1	& ETWB TCW No.	
CP1			integrated with the				3/2006	
CFI			existing landscape context and that the				5/2000	
			landscape resources					
			are preserved where					
			appropriate.					
		Preservation of Existing Topsoil						
Table	Table	• Topsoil disturbed during the construction phase should be tested using a standard soil testing methodology and where it is found to be worthy of	To provide a viable	Contractor	Site	Throughout	TM-EIA	^
7-13	9-1	retention stored for re-use.	growing medium			construction	Annex 18	
			suited to the existing			phase		
CP2			conditions and reduce					
			the need for the					
			importation of top					
			soil.					

^ Implement mitigation measure in the reporting month;

Х Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month; Not satisfactory but rectified by the contractor.

EIA	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
Table	Table	• The soil will be stockpiled to a maximum height of 2m and will be either temporarily vegetated with hydroseeded grass during construction or covered	To provide a viable	Contractor	Site	Throughout	TM-EIA Annex 18	^
7-13	9-1		growing medium			construction	Annex 18	
			suited to the existing			phase		
CP2			conditions and reduce					
			the need for the					
			importation of top					
			soil.					
Table	Table	• The stockpile should be turned over on a regular basis to avoid acidification and the degradation of the organic material, and reused after completion.	To provide a viable	Contractor	Site	Throughout	TM-EIA	^
7-13	9-1	Alternatively, if this is not practicable, it should be considered for use elsewhere, including other projects.	growing medium			construction	Annex 18	
			suited to the existing			phase		
CP2			conditions and reduce					
			the need for the					
			importation of top					
			soil.					
		Permanent and Temporary Works Areas						

- Implement mitigation measure in the reporting month;
- X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

EIA	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
Table	Table	 Where appropriate to the final design the landscape of these works areas should be restored following the completion of the construction phase. 	To minimise the disturbance to existing	Contractor	Site	Through out construction	TM-EIA	N/A
7-13	9-1	••••••••••••••••••••••••••••••••••••••	landscape resources and change of visual amenity.			phase	Annex 18	
CP3								
Table	Table	 Construction site controls should be enforced including the storage of materials, the location and appearance of site accommodation and the careful design of 	To minimise the disturbance to existing	Contractor	Site	Through out construction	TM-EIA	^
7-13	9-1	site lighting to prevent light spillage.	landscape resources and change of visual amenity.			phase	Annex 18	
CP3								
		Mitigation Planting						
Table	Table	 Replanting of disturbed vegetation should be undertaken at the earliest possible stage of the construction phase 	To minimise the disturbance to existing	Contractor	Site	Through out construction	TM-EIA	N/A
7-13	9-1		landscape resources and change of visual amenity.			phase	Annex 18	
CP4								

- Implement mitigation measure in the reporting month;
- X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

As updated on 11 October 2011

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EIA	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
			m · · · · ·					
Table	Table	 Use of native plant species predominantly in the planting design for the buffer areas. 	To minimise the disturbance to existing	Contractor	Site	Through out construction	TM-EIA Annex 18	N/A
7-13	9-1		landscape resources and change of visual amenity.			phase		
CP4								
Table	Table	• The tree planting works should be implemented by approved Landscape Contractors and inspected and approved on site by a qualified Landscape	To minimise the disturbance to existing	Contractor	Site	Through out construction	TM-EIA Annex 18	^
7-13	9-1	Architect. A tree planting specification would be included within the contract documents.	landscape resources and change of visual amenity.			phase	Annex 18	
CP4								
		Transplantation of Existing Trees			I	I		
Table	Table	• The tree transplanting works should be implemented by approved Landscape	To minimise the	Contractor	Site	Prior to the	TM-EIA	^
7-13	9-1	Contractors and inspected and approved on site by a qualified Landscape Architect. A tree protection / transplanting specification would be included	landscape resources			commencem	Annex 18, ETWB TCW	
		within the contract documents.	and minimize the impacts on the visual			ent of the	No. 2/2004 & ETWB	
CP5			amenity of the area.			proposed	TCW No. 3/2006	
						works		
		Design of the Fence and associated Structures	I	1	1	1	1	

- Implement mitigation measure in the reporting month;
- X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Status
Table 7-14 OP1	Table 9-2	 Design of Boundary Fence, Boundary Patrol Road and Police Check Point – These structural elements will be designed in accordance with security requirement from Police Force and incorporate design features as part of design mitigation measures including: 	Responsive design to integrate the proposals into their landscape and visual context.	ArchSD	Site	Throughout design phase	TM-EIA Annex 18 and BD	^
		 Integrated design approach – the boundary fence should integrated, as far as technically feasible, with existing built structures such as existing road, footpath and track and embankment of fishponds, river and drainage channel as part of design mitigation measures to reduce the potential cumulative impact of the proposed works. The location and orientation of the police check points should be away from landscape and visually sensitive areas such wetland, fishpond and agricultural field. 						^
		 Building massing - the proposed use of simple responsive design for the built structures with a low building height profile to reduce the potential visual mass of the structure within a rural context. 						N/A

Implement mitigation measure in the reporting month;

X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

EIA	EM&A	Recomme	ended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log			Recommended	implement	of the	implement	standards for the	
	Ref.			Measures & Main	the measure?	measure	the measure?	measure to achieve?	
				Concerns to address					
		3.	Treatment of built structures - the architectural design should seek to						N/A
			reduce the apparent visual mass of the facilities further through the use						
			of natural materials such as wooden frame, vertical greening or other						
			sustainable materials such as recycled plastic.						
		4.	Responsive building and fence finishes - In terms of the proposed						N/A
			finishes natural tones should be considered for the colour palette with						
			non-reflective finishes are recommended to reduce glare effect. The use						
			of colour blocking on the proposed fence could be used to break up the						
			visual mass of the structure.						

X Non-compliance of mitigation measure;

N/A Not Applicable in the reporting month;

* Not satisfactory but rectified by the contractor.

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Status
		 5. Responsive lighting design – Aesthetic design of architectural and track lighting with following glare design measures: Directional and full cut off lighting is recommended particularly for areas adjacent to existing village to minimise light spillage. Minimise geographical spread of lighting, only applied for safety and security reasons; Limited lighting intensity to meet the minimum safety and operation requirement; and High-pressure sodium road lighting is recommended for more stringent light control reducing spillage and thus visual impacts. 						N/A
		Compensatory Planting Proposals						
Table 7-14 OP2	Table 9-2	• Utilise native to Hong Kong will be utilized within the buffer planting areas.	Planting will serve to visually integrate the proposals within the existing landscape framework.	Contractor	Site	Throughout design phase	TM-EIA Annex 18, HKPSG and BD	N/A

Implement mitigation measure in the reporting month;

X Non-compliance of mitigation measure;

N/A Not Applicable in the reporting month;

* Not satisfactory but rectified by the contractor.

As updated on 11 October 2011

^

Ref.	EM&A Log Ref.		Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Status
Table 7-14 OP 2 / 3	Table 9-2	 A qualified or registered landscape architect will be involved in the design, construction supervision and monitoring, and maintenance period to oversee the implementation of the recommended landscape and visual mitigation measures including the tree preservation and landscape works on site. 	the existing wooded	Contractor	Site	Throughout design phase	TM-EIA Annex 18, HKPSG and BD	٨
Table 7-14 OP 2	Table 9-2	 Tree and Shrub Planting – Given the rural nature of the proposed alignment it is recommended that the where possible tree and shrub species which are native to Hong Kong be used. In addition where possible the planting of new trees and shrubs will aim to link together existing woodland areas and small tree groups to improve the connectivity between habitats and create more coherent landscape framework. The planting of small groups of trees along the alignment of the proposed fence will serve to de-emphasise the horizontality of the fence structure and provide for better sense of visual integration with the landscape context. Where practicable vertical greening measures should also be considered on engineering structures. 	seeks to compensate for the predicted tree loss.	Contractor	Site	Throughout design phase	TM-EIA Annex 18, HKPSG and BD	N/A

X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

EIA	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
Table	Table	Compensatory Planting Proposals – Given the works extent is largely limited	The planting proposal seeks to compensate	Contractor	Site	Throughout design phase	TM-EIA Annex 18, HKPSG and BD	N/A
7-14	9-2	along existing roadside embankment to minimise impact to existing village settlements and valuable landscape resources such as wetland, fishpond,	for the predicted tree			design phase	Thinks To, The SO and DD	
		stream course and existing trees, and considered the importance of tree retention within the works area, new tree planting will concentrate in selected	loss.					
OP 3		new amenity areas along the alignment, infilling between retained and						
		transplanted trees. The preliminary planting proposals for the proposed works include the planting of some 357 new trees utilising a combination of mature						
		to light standard sized stock (i.e. approximately 15% of mature trees, 75% of standard trees, and 10% light standard trees). These trees will be planted in						
		woodland clumps and small tree groups at strategic locations to de-emphasise						
		the horizontality of the fence alignment. Based on preliminary findings the						
		proposed planting will result in a compensatory planting ratio of 1:1 (new planting: trees recommended for felling). This compares favourably with the						
		report's assertion that some 357 trees would be felled due to the proposed						
		works. With the proposed preservation of existing trees, transplantation of						
		trees in conflict with the proposals and the planting of new trees the project area will contain approximately 2000 trees. Trees forming part of the new						
		planting will provide screening to neighbourhood villagers and will utilise						
		species native to Hong Kong. These proposals will be subject to review at						
		detailed design stage of the project.						

X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

Appendix G Complaint Log

Appendix G – Complaint Logs

Complaints

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status

Appendix H Monthly Waste Flow Table

Contract No.: SS W306

Monthly Summary Waste Flow Table for August [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	l Quantities of Iner	rt Construction W	aste Generated M	onthly	Actua	l Quantities of Non-	-inert Constructi	on 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	0
Mar	0	0	0	0	0	0	0	0	0	0.026
Apr	0	0	0	0	0	0	0	0	0	0.033
May	0	0	0	0	0	0	0	0	0	0.026
Jun	0	0	0	0	0	0	0	0	0	0.052
Sub-total	0	0	0	0	0	0	0	0	0	0.137
Jul	0	0	0	0	0	0	0	0	0	0.007
Aug	0	0	0	0	0	0	0	0	0	0.046
Sep	0	0	0	0	0	0	0	0	0	0.039
Oct										
Nov										
Dec										
Total	0	0	0	0	0	0	0	0	0	0.229

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 I Status of License and Permit

Itom	Permit/License /Ref. Val		dity	Remarks	
Item	No.	From	То	Remarks	
Variation of Further Environmental Permit	FEP-02/347/2009/A	13 th Jul 2010	N.A.		
Variation of Environmental Permit	EP-347/2009/A	9 th Jun 2010	N.A.		
Notification Pursuant to Section 3(1) of The Air Pollution Control	313192	8 th Jan 2010	N.A.		
(Construction Dust) Regulation	515172	0 Juli 2010	14.71.		
Registration of Chemical Waste Producer	5213-542-A2587-02	4 th Mar 2010	N.A.		