Issue No. :

1

Issue Date :

August 2012

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)

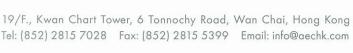
ENVIRONMENTAL MONITORING & AUDIT REPORT (JULY 2012)

Prepared By:

ALLIED ENVIRONMENTAL CONSULTANTS LTD.

COMMERCIAL-IN-CONFIDENCE









Ref.: ASDBFBPREM00 0 0403L.12 8 August 2012

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 July 2012

Reference is made to the Environmental Team's submission of the draft Monthly EM&A Report for July 2012 (Issue No. 1) by E-mail on 7 August 2012.

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,

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. : 1

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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)

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Certified by:

Grace M. H. Kwok Environmental Team Deader

Issue No.

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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 (JULY 2012)

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ALLIED ENVIRONMENTAL CONSULTANTS LTD.

COMMERCIAL-IN-CONFIDENCE

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Grace M. H. Kwok
BEng(Hohs) MHKIEIA MHKIOA
MISWA MAJA MBADA LEED AD

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.

Environmental Monitoring & Audit Report (July 2012)

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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 (July 2012)

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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 twenty-ninth monthly EM&A report, which details the EM&A results recorded during the period from 1st July 2012 to 31st July 2012.

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 5th, 12th, 18th, 24th and 30th July 2012. 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 was no exceedance of the action and limit levels during the reporting month.

Five environmental site inspections were conducted by the Contractor and the ET on 4th, 12th, 20th, 27th and 30th July 2012. 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 of 13m³ 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 from 1st August to 31st August 2012 will include fixing and painting of PBF / SBF post, concreting to Boundary patrol road, U/G ducting work, backfilling / compaction to proposed boundary patrol road, XPM Mesh fixing to PBF / SBF fence, concreting to 450 U channel, tree planting and painting to PBF / SBF post and flat bar. Potential environmental impacts include dust emission relating to the dry weather; 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

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)

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be arisen from the construction works. The Contractor was reminded to maintain good housekeeping at the site.

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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 25th March 2010 and the construction works commenced on 12th April 2010. This report is the twenty-ninth monthly EM&A report, which details the EM&A results recorded during the period from 1st July 2012 to 31st July 2012.

Environmental Monitoring & Audit Report (July 2012)

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1.1 Project Organization and Contact Personnel

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

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

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 during 1st July 2012 to 31st July 2012 including the following works items:

- Fixing and painting of PBF / SBF post;
- Concreting to Boundary patrol road;
- U/G ducting work;
- Backfilling / compaction to proposed Boundary patrol road;
- XPM Mesh fixing to PBF / SBF fence;
- Concreting to 450 U channel;
- Tree planting;
- Painting to PBF / SBF post and flat bar

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

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 (July 2012)

Construction Works	Major Environmental Impact	Mitigation Measures
Fixing of PBF / SBF	Waste management.	Quantities and record of waste
post		transferred to licensed collector
		should be well- maintained.
Concreting to boundary	Wastewater, air quality, noise	Proper treatment should be made
patrol road	quality impacts and waste	prior to discharge of wastewater.
	management.	Water spraying provided when
		necessary. Well-maintained or quiet
		plants were used. Quantities and
		record of waste transfer should be
		well-maintained.
U/G ducting work	Waste management.	Quantities and record of waste
		transferred to licensed collector
		should be well- maintained.
Backfilling /	Wastewater, air quality, noise	Proper treatment should be made
compaction to	quality impacts and waste	prior to discharge of wastewater.
proposed Boundary	management.	Water spraying provided when
patrol road		necessary. Well-maintained or quiet
		plants were used. Quantities and
		record of waste transfer should be
VDM Mark Code 4	Wests	well-maintained.
XPM Mesh fixing to PBF / SBF fence	Waste management.	Quantities and record of waste transferred to licensed collector
PBF / SBF lence		
Congreting to 450 II	Westerveter oir quality noise	should be well- maintained.
Concreting to 450 U channel	Wastewater, air quality, noise quality impacts and waste	Proper treatment should be made prior to discharge of wastewater.
Chamer	management.	Water spraying provided when
	management.	necessary. Well-maintained or quiet
		plants were used. Quantities and
		record of waste transfer should be
		well-maintained.
Tree planting	Air quality	Water spraying provided when
Tree planting	7 in quanty	necessary
Painting to PBF / SBF	Air quality	Water spraying provided when
post and flat bar	· · · · · · · · · · · · · · · · · · ·	necessary
1		, ,

Table 2 Interrelationship between Construction Activities and Mitigation Measures

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 (July 2012)

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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 $L_{eq(30\text{mins})}$. 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 3 Action 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	ent Action				
	ET Leader	IEC	ER	Contractor	
Level	 Notify IEC and the Contractor. Carry out investigation. Report the results of investigation to IEC and the Contractor. Discuss with the Contractor and formulate remedial measures. Increase monitoring frequency to check mitigation measures. 	 Review with analyzed results submitted by ET Review the proposed remedial measures by the Contractor and advise ER accordingly. Supervise the implement of remedial measures. 	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	Submit noise mitigation proposals to IEC. Implement noise mitigation proposals.	
Level	 Identify the source. Notify IEC, ER, EPD and the Contractor. Repeat measurement to confirm findings. Increase monitoring frequency. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented. Inform IEC, ER and EPD to causes & actions taken for the exceedances. Assess effectiveness of the Contractor's remedial actions and keep IEC, EPD and ER informed of the results. If exceedance stops, cease additional monitoring. 	 Discuss amongst ER, ET Leader and the Contractor on the potential remedial actions. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise ER accordingly. Supervise the implementation of remedial measures. 	implemented. 1. Confirm receipt of notification of exceedance in writing. 2. Notify the Contractor. 3. Require the Contractor to propose remedial measures for the analyzed noise problem. 4. Ensure remedial measures are properly implemented. 5. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abate.	1. Take immediate action to avoid further exceedance. 2. Submit proposals for remedial actions to IEC within 3 working days of notification. 3. Implement the agreed proposals. 4. Resubmit proposals if problem still not under control. 5. Stop the relevant activity of works as determined by the ER until the exceedance is abated.	

Table 4 Event and Action Plan

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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	Ianufacturer Type/Model No.	
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 5th, 12th, 18th, 24th and 30th July 2012. 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 Lung	G/F boundary wall of Village House at Ma Tso Lung

Table 6 Descriptions of Noise Monitoring Locations

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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)	L ₉₀ (30mins)	Remarks
	5 July 12	Cloudy	0.3	16:00 - 16:30	52.1	54.8	43.5	Noise from birdcall and traffic noise
	12 July 12	Sunny	0.3	16:30 – 17:00	51.4	53.7	41.8	Noise from birdcall and traffic noise
MTL-01	18 July 12	Sunny	0.3	16:25 – 16:55	49.4	54.6	42.1	Noise from birdcall
	24 July 12	Scattered Drizzle Rain	0.3	16:10 – 16:40	50.8	51.5	41.7	Noise from birdcall and traffic noise
	30 July 12	Sunny	0.2	16:30 – 17:00	43.1	44.7	39.5	Noise from birdcall

Table 7 Noise Monitoring Results

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6. SITE INSPECTION & AUDIT

A total of five 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
4 July 12	No major environmental deficiency.	-	-
12 July 12	No major environmental deficiency	-	-
20 July 12	No major environmental deficiency.	-	-
27 July 12	No major environmental deficiency.	-	-
30 July 12	An oil drum was placed barely on the ground and there was no chemical label. Water was accumulated and appeared in ponds.	• • •	Drip tray and label is provided for the oil drum as photo record on 31 July 2012 (Closed). The water ponds were removed as photo record on 31 July 2012 (Closed).

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*.

Environmental Monitoring & Audit Report (July 2012)

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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 $13m^3$ 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*.

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*.

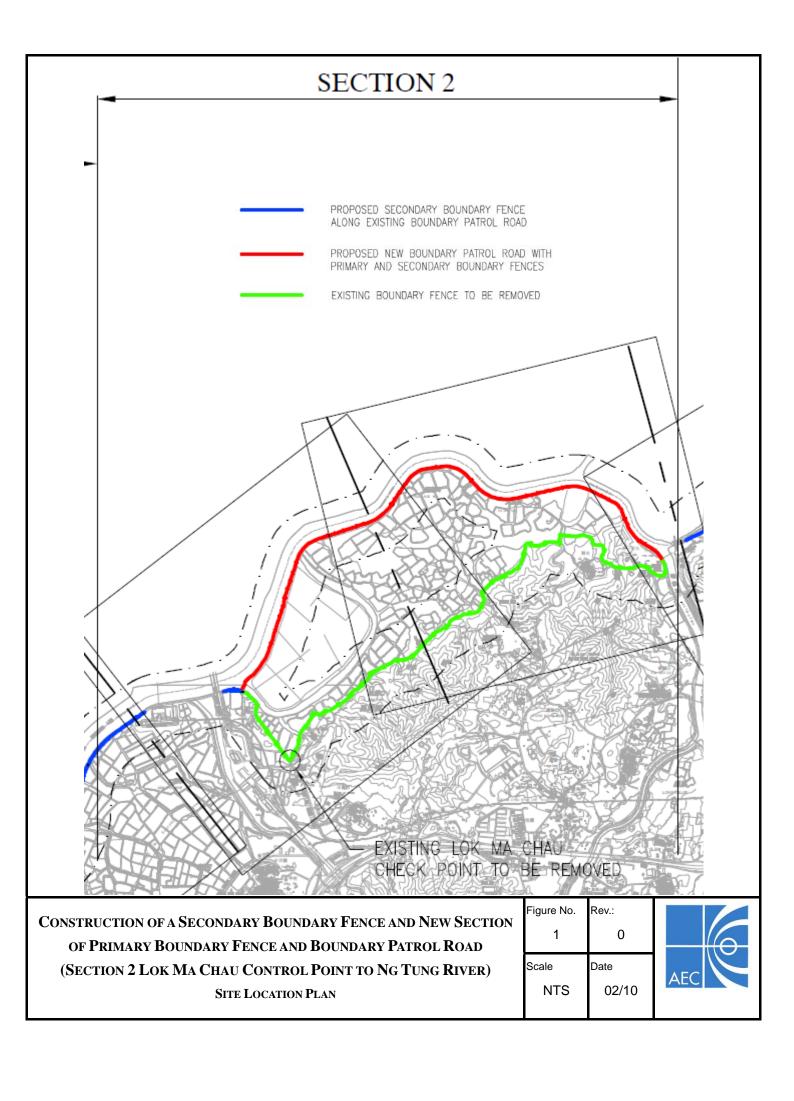
10. CONCLUSIONS AND FUTURE KEY ISSUES

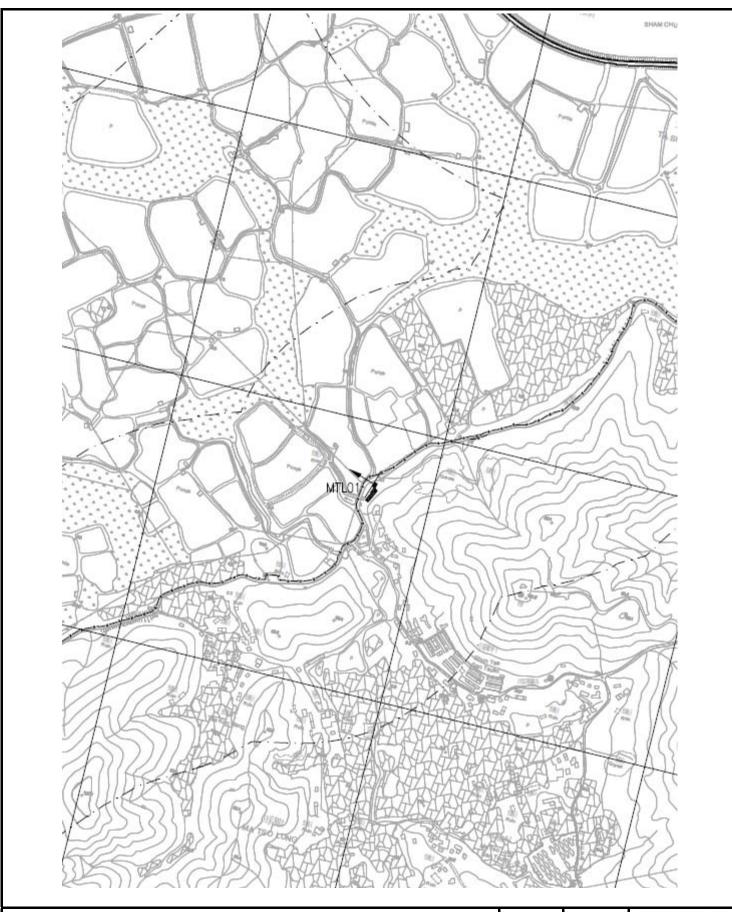
Environmental monitoring was carried out for the Construction of a Secondary Boundary Fence and New Section of Primary Boundary Fence and Boundary Patrol Road (Section 2 Lok Ma Chau Control Point to Ng Tung River) in the reporting month. Noise monitoring was conducted at a village house at Ma Tso Lung (MTL01) during the period from 1st July 2012 to 31st July 2012.

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

A total of 13m³ of general refuse was disposed to NENT Landfill. No inert C&D waste was disposed in this reporting period.

Construction activities to be undertaken from 1st August to 31st August 2012 will include fixing and painting of PBF / SBF post, concreting to Boundary patrol road, U/G ducting work, backfilling / compaction to proposed boundary patrol road, XPM Mesh fixing to PBF / SBF fence, concreting to 450 U channel, tree planting and painting to PBF / SBF post and flat bar. Potential environmental impacts include dust emission relating to the dry weather; 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

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NTS 02/10







ABLE ENGINEERING COMPANY LIMITED 安保工程有限公司

A member of Vantage International (Holdings) Limited 盈信控数有限公司附屬機構

Our Ref.: 23909/01/S0867

21st November, 2011

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

By Hand

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

Submission of Master Program Revision 4

With reference to your letter SHC/JK/FYW/LW/DC/C216727/306/12/L-0162 dated 22/08/11 regarding granted EOT 6 of the captioned project, we would like to submit herewith our Master program revision 4 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.

Site Agent

GL/KMT/kmť

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

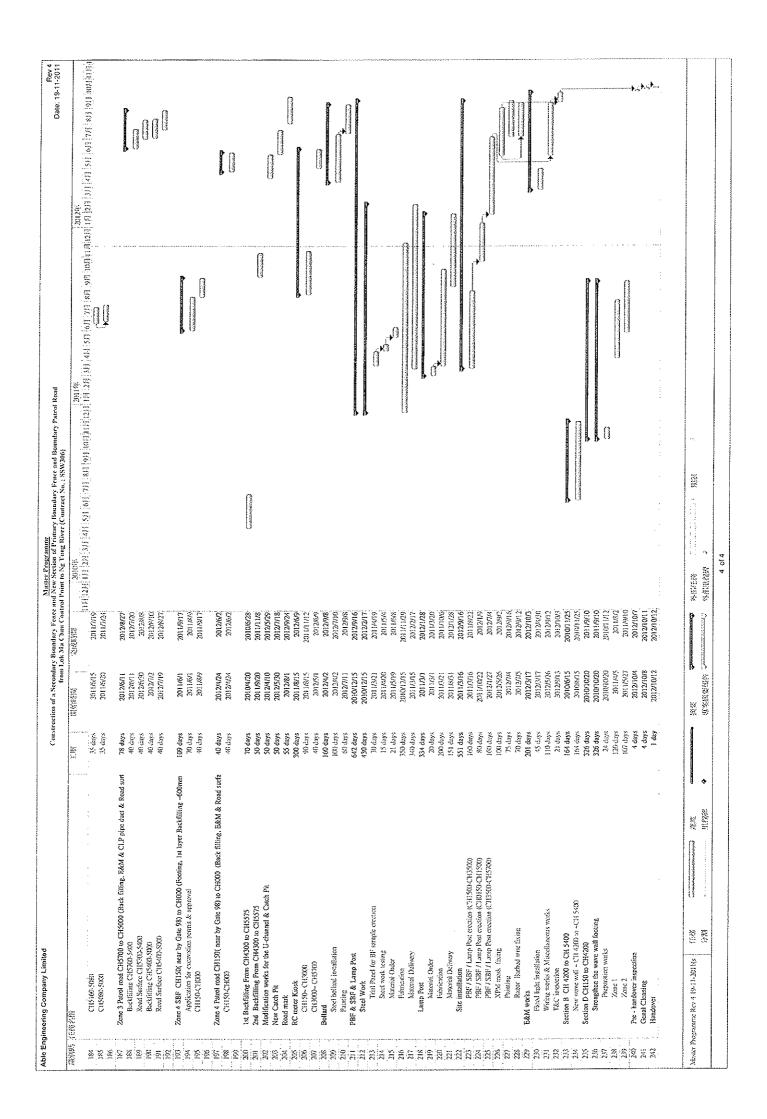
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Site office / SQS w/e

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The standard coal black date Coat Bird Door	2 ×	further EP approval		0 days	2010/2/19	2010/2/19:	♦ 2119	
The twinglinist Control of the c		Beer Rec monitoring ground cohories	65	o crays O dense	21/2/01/02	2010/2/12	4 3/12 > 3/12	
This is the contained by the contained	25	Tree transplanting	11/14	925 days	2010/2010	20102010	€ 5/115 • • • • • • • • • • • • • • • • • • •	
Touristate Control Page Contro	61	Tive Protection		21 days	2010/3/20	2010/2/5		
Final Control Contro	æ			70 days	2010/5/1	2010/7/2	Common Control of Cont	
File Secretary Control Con	77			45 days	2010/7/10	2010/8/23		
Column Street S	212			120 days	2012/4/16	2012/8/13		400
CATESTORY OF CHI 19 (Foculue, 14 Speed Beddelling - 60 mm 11 Mm 100 mm	3 %			SD days	2012/112	2012/6/129		Contraction of the Contraction o
CH2802-82-28 CH2802-82-28 STHINGS	1.71		g, 1st layer Backfilling ~600mm THK)	553 days	2010/5/3	2011/11/6		9
CH280-2580 CH280-2580 C4 Lays 2011/157	×			46 days	2011/10/29	2013/6/13	Congressive of Management of M	•
CHIZGO 2790 Chizgo 2700	23			46 anys	2011/5/5	2011/6/19	Annual Control of the	
CH12504.2890 CH12	% ;			/6 days	20/11/5/11	2011/6/25	Common A.	
C1000000000000000000000000000000000000	20 1			46 days	2011/2/17	2011/01	arrange	
CHISDREAD CHIS	₹;			46 days	2011/5/23	20:1777		
CUEDAD 289 CUE	=:£			46 days	2011/8/14	2011/9/28	٠	
CTITION 2019 CTIT	1.2	CHORDON (S)		40 days	25 FEE FEE FEE FEE FEE FEE FEE FEE FEE FE	2011/10/6	Commence of the Commence of th	
CHIZZON 2100 CHIZZON 2100 Chicks	**	C112369-2289		semen 46 days	2010/5/3	20101010		
CHIZDO 100 Chickes 2010/201 2010/201	ş	CH2286-2200		46 days	2010/5/9	2016/6/23	· · · · · · · · · · · · · · · · · · ·	
CHIRDLE DATA CHIR	36	CH2200-2120		46 days	2030/2/15	2010/6/25	(Accompany)	
CHINGO, 1920 CHINGO, 1920 CHINGO, 2010 CHINGO, 1920 CHINGO, 2010 CHIN	F	CH2120.2046		46 days	2010/5/21	3010/01/5	Carrier and A	
CHIRGO-1500	× 2	C15249-1965		66 days	3010/5/27	2010/2015		
CI 1870-1720 CI	S &	C91880-1800		State of the days	2010/01/2	2018/1157		
CHIRD-1649 CHIRD-1849 CHIRD-1844 CHIRD-1844		CH8061720		ris days	2010/2/16	SH1/1/02	•	
CHISCA-1640 CHISC		CH1720-1640		46 days	2010/5/22	2010/7/6	Account of the second of the s	
CHIROLINGS CHI	5	CH1640-1500		46 days	2010/5/28	2010/7/12	- Commercial	
CHIRD-1900 Ch	\$.	CH1560-1480		46 days	2011/6/4	2011:17/19		
CH1220-1700	0 8	CETACHERO		skings Wednesd	2011/0/10	2011/1/25		
CHIRGO HIGH CHIRGO CHIRGO CHIRGO SIGN CHIRGO HIGH CHI	G.			45 days	2010/65	2010/07/26	CONTINUE AND ADDRESS OF THE PARTY OF THE PAR	
CHINGA-1890	8			stop 95	2010/6/15	2010/7/30	And the second of the second o	
CHIRDAD AND CHI	8	CH1169-1080		40 days	2011/6/16	2011/7/31	**	
46 days 2010/05/8 1000/	8:	CB1080-1030		skip 99	2010/6/2	2010/017	(married)	
19 19 19 19 19 19 19 19				46 days	2010/8/24	2010/8/8		Extraction of the second of th
15 ct		C1840-760		26 days	2011/6/22	29110/6		
46 days 2019/07/25 2019/07/25 1 1 1 1 1 1 1 1 1	<u>ک</u>	C14760-680		step 95	2011/6/28	2011/8/12	Contraction (
46 chays 2010/02/27 46 chays 2011/02/5 46 chays 2011/02/5 46 chays 2011/02/5 46 chays 2011/02/5 2011/01/6 46 chays 2011/02/2 2011/01/6 47 chays 2011/02/2 47 chays 2011/02/2 47 chays 2011/01/6 47 chays 2011	×	CH680-600		46 days	2010/7/12	2010/8/26		-
Fig.	S 0	C1669-520		46 days	2010/8/23	2010/19/7	freeze,	
(46 days 2011/05/2 <t< td=""><th></th><td>Cindoxo</td><td></td><td></td><td>2011/6/16</td><td>2011/0/51</td><td>Controlled to the Controlled t</td><td></td></t<>		Cindoxo			2011/6/16	2011/0/51	Controlled to the Controlled t	
46 days 2011/01/9 2011/11/6 1455 CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC		C11360-280		46 days	2011/6/22	2011/8/6	The state of the s	
[456 1997	\$	C11280.200		46 days	2011/07/19	2011/11/5		
任初	3	CH200.150		skep qu	2013/0/22	2011/11/6		A
第28	X color Pa	<u></u>	1	CHOCOCOCOCACACACACACACACACACACACACACACAC	-		Elaber V	A STATE OF THE STA
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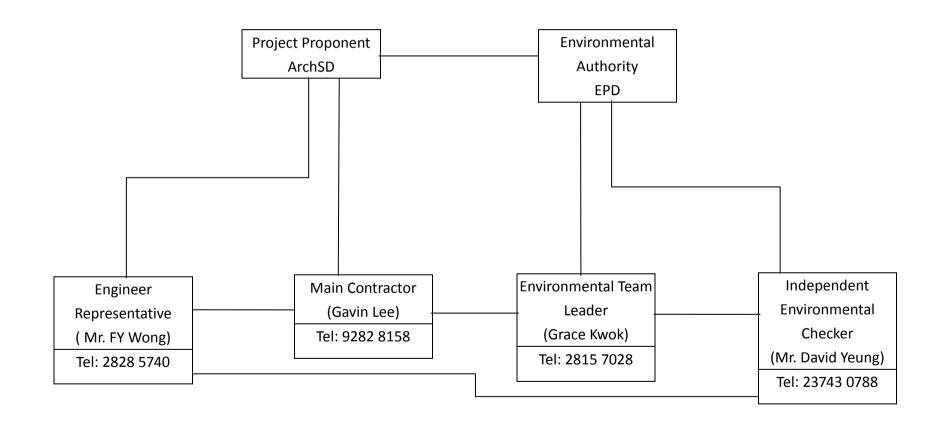
Able Engir	Able Engineoring Company Limited	('oastrac	tion of a Secondary 1	Masker Programme Construction of a Secondary Boure and New Sector and New Section of France Boundary Featers Road	Boundary Patrel Road		Rev 4 Date, 19-11-2011	4 -
深刻時 消影路衛	5.6.4.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.	0.11	CONTRACTOR IN CO	Were state of the control of the state of th	391186		W 5 C F	
. 23			:	्रमहोद्या मि द्या तम वम इस इस स्म १	म क्योगम्बद्धात्म । स्राध्मात्रम ।	5/1 6/4 7/1 (8/4 9/4 10/1/11/11/11/1	महोक्षां महें को की की की की की की मिनेमिन मिनेमिन की की की की की की की मिनेमिन मिनेमिन की की की की मिनेमिन	Ē
:3	Zone 1 PBF CH2000 to CH 150 (Footing)	449 days	2010/8/4	2011/10/26		December 1		
2 3	(TH30KR-2920 (TH3020-2840	35 days	2011/5/31	2011/7/4				
:3	CH28/40-2760	35 dys	2011/6/10	2011/7/14				~~~
'S 8	CH2360-2680	35 days	2011/6/15					
3 8	CH2600-2520	S) Gays	20108/4	2010/977.	ſ			
2	CH2520-2440	35 days	2011/9/15	2011/10/19		Į.		
	(7424/0.23g) (7424/0.23g)	35 days	2011/0/20					
2 2	C112286-2230	25 days	2010/9/11		e e e e e e e e e e e e e e e e e e e			
7.	C11220X-2120	35 days	2010/0/16					
2 3	CH2120-2040	35 days	2010/0/21					
	C1119060-1880	35 days	2010/10/1					
82	C111380-1800	35 days	2010/10/6					
8 2	CH1720-1640	35 days 35 days	2011/6/20		(*		
	C115640-1560	35 days	2010/10/11					
ឌន	(J1556-1420) (J1556-1420)	35 days 35 days	2010/10/11					
	CH MRO-1320	35 days	2010/8/31		**************************************	,		
	CH1320-1240	3.5 days	3010075			•••		
£ 5	CH124c-1160	35 days	2010/9/10	2010/10/4	Const.	••••		
	CHOSTOSC	S days	2010/01/02		(the control of			
8	CHIGKN-920	35 days	2010/9/125					
8.8	CH930-840	35 days	2010//30					
£ 8	CHREACH (SA)	35 days 35 days	2010/10/5					
: :&:	CHONNECO	35 days	2310/10/10			****		
	C116005-520	35 days	2011/6/10		The state of the s			
 & &	CH520-440	35 days	2011/6/15	301/0/19				
5.6	CH350-280	35 days	2011/2/12	2011/10006				
8	CH280-202	35 days	2011/0/117	2017/10/21		Comment of the control of the contro		
	(CASARI NA	35 days	2011/9/22	2011/0/26		Community A		
ē	Zone 1 Patrol road CH3000 to CH 150 (Back filling, E&M & CLP pipe duct & Road surf		2011/4/18	2012/9/29		The state of the s		
2 2	Backfilling CH3/XX-1(XX)	209 days	2011/4/18	231 1/1 1/1 2		Control of the Contro		
3,8	And surface CH3002-1000	90 days	2012/6215	2012/9/12		Complete Com	The state of the s	
S 50	Road surface CH1000-150	60 days	2012/8/1	2012/9/29			(Company)	
è	Zone 2 SBF CH 5090 to CH3000 (Pooting, 1st layer Backfilling ~600mm THK)	502 days	2010/4/9			<u> </u>		.,
2 8	(1) (A) (2) (3) (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	46 days	2010/7/19	20106972				
011	C118X6.4769	46 days	19/6/01/07		(3			
=:2	CHARAMARA	46 days	2010/8/6		G			
Ē	CEMERO-4520	de cays	2010/8/18		a (٠		~~~
47 16	(1H320-4449	46 chys	301089724	2010/10/5:	Constant Con			
21	Characters	46 chrys	2011/6/27			Constant Constant		~******
Ë	C14280-4200	step or 45 days	2011/7/0	2915/023				
<u> </u>	C14200-4120	46 days	2011/64	2011/11/6		Controlled		
2 8	CHRONOSXS	& days & days	2011/6/7	2011 <i>0</i> 122 3011 <i>0</i> 123				
2	CHEROGOTHER	d6 days	3010/01/18					
.33	CH3980-3800	46 days	2010/0/24	2010/8/8		:		
Master Preg	Main Programme 82v 4 (9-11-20) 16 (63)	ACCORDANCE CONTRACTOR	38 W	WHEN 6	COURSE AND AND ADDRESS OF THE PERSONS ASSESSED.			1
	分割		中本語製造品 >—	ar ar				
		***************************************		2 of 4				T
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Able Engi	Able Engineering Company Limitod	2		Construction	of a Secondary B	пандату Репсе да	Master Peneral Boundary Boundary Fence and New Section of Printary Boundary Fence and Boundary Patrot Road	Rev 4 Date: 19-11-28!
SASIES C	任務名條		101.1	111	No. Internal	Street and Control	20104: 20	37.4 UV,
	6CF 908 DD		:		· acres	H. F. Section	10 (120) (120) (120) (120) (120) (120) (120) (120) (120) (120) (120) (120) (120) (120) (120) (120)	म । असे किसे विमान मिन स्थान स्थान असे असे असे किसे निर्माक्षा है।
2	C13720-3640		: ÷:	6 Erics 6 Erics	2011/4/29	20(16/13	Community (
전 :	CH3540-3560		¥	46 days	2011/5/5	2011/6/19	CONTRACTOR OF THE PARTY OF THE	•
52	C13580-838		* *	46 days	2011/5/11	2011/6/25	The state of the s	
, XZ1	CH34(0-3320		. स	46 days	2011/5/23	2011/07		e li
8 8	CH3320-3240		4.	46 days	2011/5/29	2011/0113		
Ē	CH3160-3980		. 4	46 days	2011/6/4	2011/0/24	Section Sectio	
8 8	C113080-3000		₹	46 days	2011/6/10	2011 <i>01</i> 25	Commence 4	
ř	Zonc 2 PBF CH 5000-3000	Zone 2 PBF CH 5030-3000 (Footing & 2nd layer Backfilling up to sub-base)	415	415 days	2010/7/31	2011/9/18		
2	C115000-4920		*	46 days	2011/029	2011/9/112	•	· Carrestan
8 5	CH7920-4840 CH7840-4743		₹ -	46 days	2011/8/4	SUMMER		A CONTRACTOR OF THE PROPERTY O
2.6	CHARACASS		÷ 4	46 days	2011/6/10	2011/1/25		Tunanta Symptom
8	CF4680-4600		₹	6 days	2011/9/18	2011/8/2	3 2	or some
8 3	C1146669-4520		\$ -	46 days	2011/7/30	2011/6/13		stronger of the stronger of th
2 2	C134404360		8 8	o days 6 days	2011/2/17	2011/0/1	Contract	
9	C14/363-4280			46 days	2011/5/29	2011/113		Ta (
X:	CHIZKOLIZO		4	46 days	2011/6/4	2011/11/02		Control Control
£ \$	CH4203-4120		3 7	46 days	2011/6/10	20:17/125		Common of the Co
¥.	C14/040-3960		ž - ž	40 days	2010/8/6	2010/9/10		• •••
Œ	CH3960-3880		- 4	45 days	2010/8/12	2010/0/26		
2	CH3880-3800		÷	45 days	2910/8/18	2010/10/2	(Community)	
8.2	CH3805-3720		ਲ ਵ	45 days	2010/8/24	2010/10/8	- Consumers	
123	C13540-3560		₹ €	40 days	SUMBLES OF	2010/10/14		
6	C13560-3480		- 4	46 cttys	11/6/0102	2010/10/25	- militario de como de	
ži.	C15/80-3/08		*	6 days	2010/9/17	2010/11/1	Committee of the Commit	•
£ 62	CH3409-3320		Œ 4	46 days	2010/9/23	2010/11/0	Common A	
52	CH3240-3169			6 days	2011/5/30	20117714		ſ
28	CH3160-3080		æ	46 days	2013/6/5	2011/7/20		* Comment
2.2	CHINGS: NEO			46 days	2011/6/11	900 100		
2	Zorc 2 Patrol road CH 50X	30-3000 (Back filling, E&M & CL.P pire duct & Road:		439 days	2011/6/	2812/8/12		
38	Backfilling CH5000-3 Road Steface CH55000	Back/filing CH/SOOD-NOO Road Stefface CH/SOOD-NOO		160 days 90 days	2011/6/1 2012/5/15	2011/11/02		
ě š	20 or of the Cutton is Cit	Zone 3 SBB CH\$300 to CH\$000 (Booting 1st June Deal-Billing 600mm Tries)	è		1 5000000			
<u>8</u>	CH5700.5640	With himon diministrating to be selected to the selected to th		do days	2011/9/28	2011/11/12	>	- Communication of the Communi
167	CHS6/10-5560		~	46 days	2011/6/2	2011/7/17	U,	
<u>s</u> 9	CH5500-5480		~ .	66 days	2011/6/8	3011/7/23	U.	(Carrier)
22	CHSCOSSO			40 Gays	2011/9/20	2011/11/02		Contraction of the Contraction o
·E:	CH5320-5246		•	46 days	2011/9/113	2011/10/28		Vocation T
22.	CH522055160		~ `	45 days	2010/7/14	2010/8/28	Carrent Carren	*** *
25	CHSONIASOD		e ve	45 days	2010/11/26 2010/11/26	3010979	Commencing A.	
	Zone 3 PBF CH5700 to CH5000 (Footing)	115000 (Footing)	Si	52 days	2011/96/15	2011/11/02	ii	
11.1		;		35 days	2011/9/15	2017/16/19		
2 2	CH5640-5560			35 days 35 days	2011/9/20	2011/10/24		
2	CH5480-5400			N. chyr.	2017102	2011/11/8		Continued Contin
<u>s</u> (CH5400-5320			35 days	2011/10/10	2011/11/83		:
ž 2	CB5240-5160			SS days	2011/11/19 2011/11/19	25) NA 102.2 75/M1105		CONTENT AND ADDRESS OF THE PARTY AND ADDRESS O
Master Pro-	Master Propriettics Rev 4 19-11-20116s	All Consumptions (E.)		1000	- The state of the	<u> </u>	A.55575	AND THE PROPERTY OF THE PROPER
			٠		密型報告	Comments of the Comments of th	第 第	
							2 of A	
					A1800 CALLO SES TRANSPORTE AND TO SES TRANSPORTE AND THE SES TRANSPORTER AND THE SES T			- TATION OF THE TOTAL PROPERTY OF THE TOTAL



Appendix B
Organization Chart

— Line of communication





Certificate No.: C113973

Certificate of Calibration

This is to certify that the equipment

Description: Sound Level Meter

Manufacturer: Rion

Model No.: NL-31

Serial No.: 00320533

has been calibrated for the specific items and ranges. The results are shown in the Calibration Report No. C113973.

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: 18 July 2011

Certified by: Clan Un (



輝創工程有限公司

Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration

校正證書

Certificate No.: C123580

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號:IC12-1472)

Description / 儀器名稱

Sound Level Meter

Manufacturer / 製造商

Rion

Model No. / 型號 Serial No. / 編號 NL-31 00410224

Supplied By / 委託者

Envirotech Services Co.

Eliviroteeli Services Co.

Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,

Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 :

 $(23 \pm 2)^{\circ}$ C

Relative Humidity / 相對濕度 :

 $(55 \pm 20)\%$

Line Voltage / 電壓 :

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期

15 June 2012

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

All results are within manufacturer's specification.

The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Rohde & Schwarz Laboratory, Germany
- Fluke Precision Measurement Ltd., UK
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested By 測試

:

L K Yeung

Certified By

核證

K C Lee

Date of Issue 簽發日期 15 June 2012

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

Sun Creation Engineering Limited – Calibration & Testing Laboratory

c/o 4/F. Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong 輝創工程有限公司 – 校正及檢測實驗所

c/o 香港新界屯門興安里一號青山灣機樓四樓

Tel/電話: 2927 2606 Fax/傳真: 2744 8986

E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com

Page 1 of 3

Certificate No.: C113972

Certificate of Calibration

This is to certify that the equipment

Description: Sound Level Calibrator

Manufacturer: Rion

Model No.: NC-73

Serial No.: 10786708

has been calibrated for the specific items and ranges. The results are shown in the Calibration Report No. C113972.

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: 18 July 2011



輝創工程有限公司

Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.:

C124011

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC12-1674)

Description / 儀器名稱 :

Sound Level Calibrator

Manufacturer / 製造商

Rion

Model No. / 型號

NC-73

Serial No. / 編號

10997142

Supplied By / 委託者

Envirotech Services Co.

Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,

Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 :

 $(23 \pm 2)^{\circ}$ C

Relative Humidity / 相對濕度 :

Line Voltage / 電壓 :

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期

9 July 2012

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

All results are within manufacturer's specification.

The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested By 測試

L K Yeung

Certified By 核證

K C Lee

Date of Issue

:

10 July 2012

簽發日期

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

Sun Creation Engineering Limited - Calibration & Testing Laboratory

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

輝創工程有限公司 - 校正及檢測實驗所 c/o 香港新界屯門興安里一號青山灣機樓四樓

Tel 電話: 2927 2606 Fax/傳真: 2744 8986 E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com



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)

Monitoring schedule for the reporting month

Date	Time
5 th July 2012	16:00
12 th July 2012	16:30
18 th July 2012	16:25
24 th July 2012	16:10
30 th July 2012	16:30

Monitoring schedule of the coming month

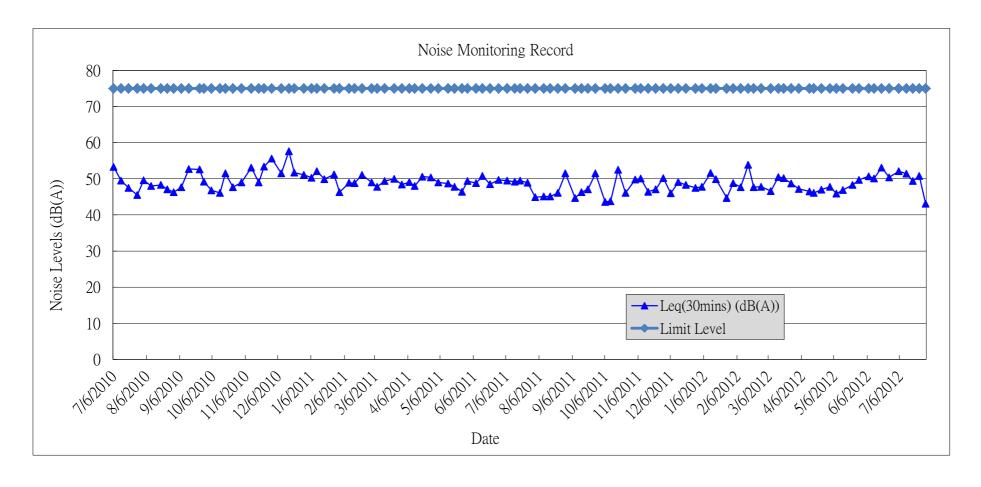
Date	Time
9 th August 2012	To be confirmed
15 th August 2012	To be confirmed
21 st August 2012	To be confirmed
30 th August 2012	To be confirmed

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: July 2012

Date	Time	Leq(30mins) (dB(A))	L10(30mins) (dB(A))	L90(30mins) (dB(A))	Limit Level
7/5/2012	16:00 – 16:30	52.1	54.8	43.5	75
7/12/2012	16:30 - 17:00	51.4	53.7	41.8	75
7/18/2012	16:25 – 16:55	49.4	54.6	42.1	75
7/24/2012	16:10 – 16:40	50.8	51.5	41.7	75
7/30/2012	16:30 - 17:00	43.1	44.7	39.5	75





Mitigation Measures Implementation Schedule for Construction Stage

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					
Air Q	<u> Duality</u>							
Durin	ng Constr	uction						
2.5.2	3.2.2	The following good site practice should be implemented:	To minimize	Contractor	Constructi	During	EIAO-TM, Air Pollution	*
		any excavated dusty materials or stockpile of dusty materials should be covered	construction dust		on Work	Construction	Control	
		entirely by impervious sheeting or sprayed with water so as to maintain the	impact		Sites		(Construction Dust)	
		entire surface wet, and recovered or backfilled or reinstated within 24 hours of					Regulation	
		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						۸
		the washing facilities and the exit point should paved with concrete, bituminous						
		materials or hardcores;						

Remarks: ^ Implement mitigation measure in the reporting month;

N/A Not Applicable in the reporting month;

X Non-compliance of mitigation measure;

* 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					
		• the portion of road leading only to a construction site that is within 30m of						٨
		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.						
Noise								
During	g Constr	uction						
3.8.14	4.8.1	The following good site practical should be implemented:	To mitigate	Contractor	Constructi	During	EIAO-TM, NCO	
			construction noise		on Work	Construction		
		The Contractor shall adopt the Code of Practice on Good Management Practice	impact		Sites			
		to Prevent Violation of the Noise Control Ordinance (Chapter 400) (for						^
		Construction Industry) published by EPD;						
		The Contractor shall observe and comply with the statutory and non-statutory						^
		requirements and guidelines;						

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	_	Objectives of the Recommended	Who to implement	Location of the	When to implement	What requirements or standards for the	Status
	Ref.		Measures & Main Concerns to address	the measure?	measure	the measure?	measure to achieve?	
			0011001115 00 4441 655					
		 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 barriers, where practicable. 						^ ^ N/A

Remarks: ^ Implement mitigation measure in the reporting month;

N/A Not Applicable in the reporting month;

X Non-compliance of mitigation measure;

* 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					
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.	impact		sites			
		With construction / demolition work undertaken at a distance of 60m or less to the						
		NSRs, below mitigation measures should be included:						
		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.						

Remarks: ^ Implement mitigation measure in the reporting month;

N/A Not Applicable in the reporting month;

X Non-compliance of mitigation measure;

* 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					
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.						

Remarks: ^ Implement mitigation measure in the reporting month;

N/A Not Applicable in the reporting month;

X Non-compliance of mitigation measure;

* 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					
Wate	r Quality							
Durin	ng Constru	uction						
4.7.1	5.3.1	Good site practices in addition to the implementation of mitigation measures would	To avoid site runoff	Contractor	Constructi	During	Practice Note for	^
		minimize the impact to the surrounding environment.	and chemical leakage		on work	construction	Professional Persons with	
					sites		regard to site drainage	
		General Prevention and Precaution Measures					(ProPECC PN 1/94) and	
		The site should be confined to avoid silt runoff to the site.					TM standard	^
		No discharge of silty water into the storm drain and drainage channel within					under the WPCO	^
		and the vicinity of the site.						
		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: ^ Implement mitigation measure in the reporting month;

N/A Not Applicable in the reporting month;

X Non-compliance of mitigation measure;

* 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						٨
		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						٨
		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						٨
		absorbent materials;						
		Chemicals will always be stored on drip trays or in bunded areas where the						٨
		volume is 110% of the stored volume;						
		Regular clearance of domestic waste generated in the temporary sanitary						٨
		facilities to avoid waste water spillage.						
		Temporary sanitary facilities to be provided for on-site workers during						^
		construction.						

Remarks: ^ Implement mitigation measure in the reporting month;

N/A Not Applicable in the reporting month;

X Non-compliance of mitigation measure;

Not satisfactory but rectified by the contractor.

EIA	EM	M&A	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Lo	og		Recommended	implement	of the	implement	standards for the	
	Re	ef.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
				Concerns to address					
4.7.2	2 – 5.3	3.2-5.	Concreting Work	To collect runoff	Contractor	Constructi	During	Practice Note for	^
4.7.3	3.3	3	A temporary drainage channel and associated facilities should be provided to collect	generated and prevent		on work	construction	Professional Persons with	
		1	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	
		1	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	

Remarks: ^ Implement mitigation measure in the reporting month;

N/A Not Applicable in the reporting month;

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					
		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	٨
		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	

Remarks: ^ Implement mitigation measure in the reporting month;

N/A Not Applicable in the reporting month;

X Non-compliance of mitigation measure;

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					
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						

Remarks: ^ Implement mitigation measure in the reporting month;

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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 t									
Waste	Manage	<u>ment</u>								
Durin	g Constr	action								

Remarks: ^ Implement mitigation measure in the reporting month;

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.						

Remarks: ^ Implement mitigation measure in the reporting month;

N/A Not Applicable in the reporting month;

X Non-compliance of mitigation measure;

* Not satisfactory but rectified by the contractor.

	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.						٨
		Trip-ticket system should be employed to monitor the disposal of C&D material and solid at public filling facilities and landfills, and to control fly-tipping. 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		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.	To avoid chemical leakage	Contractor	Constructi on work sites	During construction planning	Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes, Waste Disposal	^

Remarks:

Implement mitigation measure in the reporting month;

N/A Not Applicable in the reporting month;

X Non-compliance of mitigation measure;

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)	۸
		(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						٨
		prescribed in Schedule 2 of the Regulations,						
		The storage area for chemical wastes should:						٨
		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 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					
		have adequate ventilation;						٨
		• 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						۸
		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	۸
		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.						

Remarks: ^ Implement mitigation measure in the reporting month;

N/A Not Applicable in the reporting month;

X Non-compliance of mitigation measure;

Not satisfactory but rectified by the contractor.

	EM&A Log Ref.		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					
5.6.18		Construction Waste Management Plan A construction waste management plan (CWMP) should be prepared and developed by the contractor to ensure proper collection, treatment and disposal of waste on site. This CWMP will also take into account the requirement to handle chemical wastes on site which will need to be managed by a licensed waste collection	Waste management during construction	Contractor	Constructi on work sites	During construction	ETWB TCW No. 19/2005, Waste Management on Construction Sites	۸
Ecol Table 6.38	7.2	Ecological Impacts on Floral Species of Conservation Concern Erection of protective fencing to protect the plant during construction period	Protect the plant during construction	Contractor	Constructi on work	During construction	EIAO	^
			period		sites			

Remarks: ^ Implement mitigation measure in the reporting month;

N/A Not Applicable in the reporting month;

X Non-compliance of mitigation measure;

Not satisfactory but rectified by the contractor.

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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					
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						

Remarks: ^ Implement mitigation measure in the reporting month;

N/A Not Applicable in the reporting month;

X Non-compliance of mitigation measure;

Not satisfactory but rectified by the contractor.

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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					
Table	7.2	Disturbance to Wetland-Dependent Birds, Raptors, Terrestrial Birds and	To minimize	Contractor	Constructi	During	EIAO / Air Pollution	٨
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	<u>nge</u>		•				

Remarks: ^ Implement mitigation measure in the reporting month;

N/A Not Applicable in the reporting month;

X Non-compliance of mitigation measure;

* 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					
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		

Remarks: ^ Implement mitigation measure in the reporting month;

N/A Not Applicable in the reporting month;

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					
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.						

Remarks: ^ Implement mitigation measure in the reporting month;

N/A Not Applicable in the reporting month;

X Non-compliance of mitigation measure;

* 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					
Lands	scape and	Visual						
		Preservation of Existing Vegetation						
Table 7-13	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.	٨
CP1							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 /	Site	Before construction phase commences	TM-EIA	^
CP1			T	Contractor		T1		
Table 7-13	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 /	Site	Throughout construction phase	TM-EIA Annex 18, ETWB TCW No. 2/2004 & ETWB TCW No.	^
CP1				Contractor			3/2006	

Remarks: ^ Implement mitigation measure in the reporting month;

N/A Not Applicable in the reporting month;

X Non-compliance of mitigation measure;

* 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	• Phased segmental root pruning for trees to be retained and transplanted over a	To ensure the success of the tree	Project	Site	Throughout construction	TM-EIA Annex 18,	^
7-13	9-1	suitable period (determined by species and size) prior to lifting or site formation	preservation	Landscape		phase	ETWB TCW No. 2/2004	
		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	proposals.	Architect /			& ETWB TCW No.	
CP1		case.		Contractor			3/2006	
Table	Table	Pruning of the branches of existing trees identified for transplantation and	To ensure the	Project	Site	Throughout	TM-EIA Annex 18.	^
	9-1	retention to be based on the principle of crown thinning maintaining their form	success of the tree preservation	Landscape		construction phase	ETWB TCW No. 2/2004	
		and amenity value.	proposals.	Architect /		phase	& ETWB TCW No.	
CP1				Contractor			3/2006	
Table	Table	The watering of existing vegetation particularly during periods of excavation	To ensure the	Project	Site	Throughout	TM-EIA Annex 18,	^
7-13	9-1	when the water table beneath the existing vegetation is lowered.	success of the tree preservation	Landscape		construction phase	ETWB TCW No. 2/2004	
			proposals.	Architect /			& ETWB TCW No.	
CP1				Contractor			3/2006	
Table	Table	• The rectification and repair of damaged vegetation following the construction phase to it's original condition prior to the commencement of the works or		Project	Site	Throughout construction	Annex 18, ETWB TCW	N/A
7-13	9-1	replacement using specimens of the same species, size and form where	preservation	Landscape		phase	No. 2/2004 & ETWB	
		appropriate to the design intention of the area affected	proposals.	Architect /			TCW No. 3/2006	
CP1				Contractor				

Remarks:

Implement mitigation measure in the reporting month;

N/A Not Applicable in the reporting month;

X Non-compliance of mitigation measure;

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	• 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	TM-EIA Annex 18,	٨
7-13	9-1	trees, the implementation of protection measures and health monitoring through	preservation	Landscape		construction phase	ETWB TCW No. 2/2004	
		out the construction period	proposals.	Architect /			& ETWB TCW No.	
CP1				Contractor			3/2006	
Table	Table	• Detailed landscape and tree preservation proposals will be submitted to the relevant government departments for approval under the lease conditions and in	To ensure the tree	Project	Site	Throughout	TM-EIA Annex 18,	٨
7-13	9-1	accordance with ETWB TCW No. 2/2004 and WBTC No. 3/2006.	preservation and	Landscape		construction phase	ETWB TCW No. 2/2004	
			planting proposals are integrated with the	Architect /			& ETWB TCW No.	
CP1			existing landscape	Contractor			3/2006	
			context and that the					
			landscape resources					
			are preserved where					
			appropriate.					

Remarks: ^ Implement mitigation measure in the reporting month;

N/A Not Applicable in the reporting month;

X Non-compliance of mitigation measure;

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 9-1	The tree preservation works should be implemented by approved Landscape Contractors and inspected and approved on site by a qualified Landscape Architect. A tree protection specification would be included within the contract documents.		Contractor	Site	Throughout construction phase	TM-EIA Annex 18, ETWB TCW No. 2/2004 & ETWB TCW No. 3/2006	^
		Preservation of Existing Topsoil		I				
	Table 9-1	Topsoil disturbed during the construction phase should be tested using a standard soil testing methodology and where it is found to be worthy of retention stored for re-use.	To provide a viable growing medium suited to the existing conditions and reduce the need for the importation of top soil.	Contractor	Site	Throughout construction phase	TM-EIA Annex 18	٨

Remarks: ^ Implement mitigation measure in the reporting month;

N/A Not Applicable in the reporting month;

X Non-compliance of mitigation measure;

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	^
7-13	9-1	with a waterproof covering to prevent erosion.	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	
		ersewhere, including other projects.	suited to the existing			phase		
CP2			conditions and reduce					
			the need for the					
			importation of top					
			soil.					
		Permanent and Temporary Works Areas						

Remarks: ^ Implement mitigation measure in the reporting month;

N/A Not Applicable in the reporting month;

X Non-compliance of mitigation measure;

* 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 Annex 18	N/A
7-13	9-1		landscape resources and change of visual amenity.			phase	Ailliex 10	
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 Annex 18	^
7-13	9-1	site lighting to prevent light spillage.	landscape resources and change of visual amenity.			phase	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
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 Annex 18	N/A
7-13	9-1		landscape resources and change of visual amenity.			phase	Aumoa 10	
CP4								

Remarks: ^ Implement mitigation measure in the reporting month;

N/A Not Applicable in the reporting month;

X Non-compliance of mitigation measure;

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	 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	N/A
7-13	9-1		landscape resources and change of visual amenity.			phase	Annex 18	
CP4								
Table	Table	 The tree planting works should be implemented by approved Landscape Contractors and inspected and approved on site by a qualified Landscape 	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	Tamica 10	
CP4								
		Transplantation of Existing Trees						
Table	Table	 The tree transplanting works should be implemented by approved Landscape Contractors and inspected and approved on site by a qualified Landscape 	To minimise the	Contractor	Site	Prior to the	TM-EIA	٨
7-13	9-1	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						

Remarks: ^ Implement mitigation measure in the reporting month;

N/A Not Applicable in the reporting month;

X Non-compliance of mitigation measure;

* 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	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	^
		1. 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

Remarks: ^ Implement mitigation measure in the reporting month;

N/A Not Applicable in the reporting month;

X Non-compliance of mitigation measure;

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					
		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	1					
		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.				_		

Remarks: ^ Implement mitigation measure in the reporting month;

N/A Not Applicable in the reporting month;

X Non-compliance of mitigation measure;

Not satisfactory but rectified by the contractor.

	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
	RCI.		Concerns to address	the measure.	measure	the measure.	measure to achieve.	
		 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	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
OP2								

Remarks:

Implement mitigation measure in the reporting month;

N/A Not Applicable in the reporting month;

X Non-compliance of mitigation measure;

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	A qualified or registered landscape architect will be involved in the desconstruction supervision and monitoring, and maintenance period to oversee		Contractor Site	Throughout design phase	M-EIA ^	^		
7-14	9-2	implementation of the recommended landscape and visual mitigation measures including the tree preservation and landscape works on site.					BD BD	7	
		including the tree preservation and landscape works on sice.	framework whilst also						
OP 2 /			improving the ecological						
3			connectivity between						
			existing and proposed woodland habitats.						
Table	Table	• 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	The planting proposal seeks to compensate	Contractor	Site	Throughout design phase	TM-EIA	N/A	
7-14	9-2	native to Hong Kong be used. In addition where possible the planting of new	for the predicted tree				Annex 18, HKPSG and BD		
		trees and shrubs will aim to link together existing woodland areas and small	loss.						
		tree groups to improve the connectivity between habitats and create more coherent landscape framework. The planting of small groups of trees along the							
OP 2		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.							

Remarks: ^ Implement mitigation measure in the reporting month;

N/A Not Applicable in the reporting month;

X Non-compliance of mitigation measure;

* Not satisfactory but rectified by the contractor.

	Recommended Measures & Main	implement the measure?	of the	implement	standards for the	
	Measures & Main	the meesure?				
		the measure:	measure	the measure?	measure to achieve?	
	Concerns to address					
		Contractor	Site			N/A
dscape resources such as wetland, fishpond,	for the predicted tree					
a, new tree planting will concentrate in selected	1035.					
357 new trees utilising a combination of mature						
ee groups at strategic locations to de-emphasise						
for felling). This compares favourably with the						
ely 2000 trees. Trees forming part of the new						
. These proposals will be subject to review at oject.						i l
	akment to minimise impact to existing village dscape resources such as wetland, fishpond, trees, and considered the importance of tree a, new tree planting will concentrate in selected the alignment, infilling between retained and mary planting proposals for the proposed works 157 new trees utilising a combination of mature (i.e. approximately 15% of mature trees, 75% at standard trees). These trees will be planted in the groups at strategic locations to de-emphasise alignment. Based on preliminary findings the in a compensatory planting ratio of 1:1 (new for felling). This compares favourably with the 57 trees would be felled due to the proposed deservation of existing trees, transplantation of osals and the planting of new trees the project the 2000 trees. Trees forming part of the new and to neighbourhood villagers and will utilise. These proposals will be subject to review at	seeks to compensate descape resources such as wetland, fishpond, rees, and considered the importance of tree a, new tree planting will concentrate in selected he alignment, infilling between retained and nary planting proposals for the proposed works for new trees utilising a combination of mature (i.e. approximately 15% of mature trees, 75% has standard trees). These trees will be planted in the egroups at strategic locations to de-emphasise alignment. Based on preliminary findings the in a compensatory planting ratio of 1:1 (new for felling). This compares favourably with the 57 trees would be felled due to the proposed deservation of existing trees, transplantation of cosals and the planting of new trees the project by 2000 trees. Trees forming part of the new and to neighbourhood villagers and will utilise. These proposals will be subject to review at	seeks to compensate for the predicted tree loss. seeks to compensate for the predicted tree loss.	seeks to compensate for the predicted tree loss. seeks to compensate for the predicted tree loss.	ankment to minimise impact to existing village dscape resources such as wetland, fishpond, rees, and considered the importance of tree a, new tree planting will concentrate in selected are alignment, infilling between retained and nary planting proposals for the proposed works 57 new trees utilising a combination of mature (i.e. approximately 15% of mature trees, 75% at standard trees). These trees will be planted in ee groups at strategic locations to de-emphasise alignment. Based on preliminary findings the in a compensatory planting ratio of 1:1 (new for felling). This compares favourably with the 57 trees would be felled due to the proposed eservation of existing trees, transplantation of osals and the planting of new trees the project ely 2000 trees. Trees forming part of the new ag to neighbourhood villagers and will utilise. These proposals will be subject to review at	seeks to compensate for the predicted tree loss. Annex 18, HKPSG and BD design phase design phase seeks to compensate for the predicted tree loss. Annex 18, HKPSG and BD design phase seeks to compensate for the predicted tree loss. Annex 18, HKPSG and BD design phase seeks to compensate for the predicted tree loss. Annex 18, HKPSG and BD design phase seeks to compensate for the predicted tree loss. Annex 18, HKPSG and BD design phase seeks to compensate for the predicted tree loss. Annex 18, HKPSG and BD design phase seeks to compensate for the predicted tree loss. Annex 18, HKPSG and BD design phase seeks to compensate for the predicted tree loss. Annex 18, HKPSG and BD design phase seeks to compensate for the predicted tree loss.

Remarks: ^ Implement mitigation measure in the reporting month;

N/A Not Applicable in the reporting month;

X Non-compliance of mitigation measure;

Not satisfactory but rectified by the contractor.

Appendix	\overline{G}
Complaint La	g

Appendix G – Complaint Logs

Complaints

Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
	Location	Location Received Date	Location Received Date Details of Complaint	Location Received Date Details of Complaint Investigation/Mitigation Action



Architectural	Services	De	nartment
Arcintectural	Services	De	parument

Form No. D/OI.03/09.002

Contract No. / Works Order No.: - SS W 306

Monthly Summary Waste Flow Table for July 2012 [to be submitted not later than the 15th day of each month following reporting month]

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

		Actual Quantities of Inc	ert Construction Waste Ge	nerated 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
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)
Jan	0	0	0	0	0
Feb	0	0	0	0	0
Mar	0	0	0	0	0
Apr	0	0	0	0	0
May	0	0	0	0	0
Jun	0	0	0	0	0
Sub-total	0	0	0	0	0
Jul	0	0	0	0	0
Aug					
Sep					
Oct					
Nov					
Dec					
Total	0	0	0	0	0

Form No. D/OI.03/09.002

	Actual Quantities of Non-inert Construction Waste Generated Monthly												
Month	Timber		Metals		Paper/ cardboard packaging		Plastics (see Note 3)		Chemical Waste		Other Recyclable Materials (pls. specify)		General Refuse disposed of at Landfill
	(in '000kg)		(in '000kg)		(in '000kg)		(in '000kg)		(in '000kg)		(in '000kg)		(in '000m ³)
	generated	recycled	generated	recycled	generated	recycled	generated	recycled	generated	recycled	generated	recycled	generated
Jan	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0	0	0	0	0	0.013
Apr	0	0	0	0	0	0	0	0	0	0	0	0	0.007
May	0	0	0	0	0	0	0	0	0	0	0	0	0.007
Jun	0	0	0	0	0	0	0	0	0	0	0	0	0.007
Sub-total	0	0	0	0	0	0	0	0	0	0	0	0	0.034
Jul	0	0	0	0	0	0	0	0	0	0	0	0	0.013
Aug													
Sep													
Oct													
Nov													
Dec													
Total	0	0	0	0	0	0	0	0	0	0	0	0	0.047

Description of mode and details of recycling if any for the month e.g. XX kg of used timber was sent to YY site for transformation into fertilizers									

Notes:

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



Appendix I-Status of License and Permit

Item	Permit/License /Ref.	Vali	Remarks	
item	No.	From To		
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	313192			
Registration of Chemical Waste Producer	5213-542-A2587-02	4 th Mar 2010	N.A.	
Construction Noise Permit for Generator	GW-RN0273-12	5 th Jun 2012	4 th Dec 2012	