DRAINAGE SERVICES DEPARTMENT CONTRACT NO. DC/2011/06

REPROVISIONING OF BOUNDARY PATROL ROAD AND ASSOCIATED SECURITY FACILITIES BETWEEN PING YUEN RIVER AND PAK FU SHAN AND DRAINAGE WORKS IN NORTH DISTRICT

THE FIFTH QUARTERLY EM&A SUMMARY REPORT FOR DRAINAGE WORKS UNDER EP-277/2007/A (JUNE – AUGUST 2013)

PREPARED FOR SANG HING CIVIL CONSTRUCTORS CO., LTD.

Quality Index

Date	Reference No.	Prepared By	Approval By
15 October 2013	TCS00599/12/600/R0153	Ben Tam Environmental Consultant	T. W. Tam Environmental Team Leader

Version	Date	Description
0	23 September 2013	First submission.
1	15 October 2013	Amendment against IEC comments on 14 October 2013

This report has been prepared by Action-United Environmental Services & Consulting 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.



Ref.: DSDBPRNDEM00_0_0192L.13

15 October 2013

By Post and Fax (2959 6079)

Action-United Environmental Services & Consulting Unit A, 20/F, Gold King Industrial Building, New Territories, Hong Kong

Attention: Mr. TW Tam

Dear Sir,

Re: Contract No. DC/2011/06 Reprovisioning of Boundary Patrol Road and Associated Security Facilities between Ping Yuen River and Pak Fu Shan and Drainage Works in North District Fifth Quarterly EM&A Summary Report for Drainage Works under EP 277/2007/A (June – August 2013)

Reference is made to the Environmental Team's submission of the captioned report (Version 1) dated 15 October 2013 received through E-mail on 15 October 2013 for our review and comment.

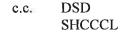
Please be informed that we have no adverse comment on the captioned submission.

Should you have any queries, please do not hesitate to contact the undersigned or our Mr. Simon Cheung at 3465 2810.

Yours sincerely,

hopy.

Roger Leung Independent Environmental Checker



Mr. Eric Cheng Mr. Raymond W.M. Yau by fax: 2827 8700 by fax: 2403 1162

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EXECUTIVE SUMMARY

REPORTING OF THE CONTRACT

- ES01. In order to ease reporting of the Contract, it has been agreed among the Engineer, IEC, Contractor and ET that the EM&A reports for the Contract are split into three stand-alone reports, namely EM&A Report for Advanced Works under EP-430/2011, EM&A Report for Drainage Works under EP-277/2007/A and EM&A Report for Drainage Works at Ma Wat Wai. This is the fifth quarterly EM&A summary report for Drainage Works under EP-277/2007/A, covering the construction period of the Works from 1 June to 31August 2013.
- ES02. The structure of this Report is as follows:

EXECUTIVE SUMMARY

- 1 Introduction
- 2 Requirements for Construction Impact monitoring
- *3* Environmental monitoring Results
- 4 solid and liquid Waste Management
- 5 Complaints, Notification of Summons and Successful Prosecution
- 6 Conclusions and Recommendations

<u>Annex</u>

- Annex A Location plan for the Works
- Annex B Environmental Management Organization, Communication Lines and 24-Hour Hotline
- Annex C Construction Program
- Annex D Status of Environmental Licenses and Permits
- Annex E Environmental Monitoring Locations
- Annex F Graphical Plots of the Trends of Monitored Parameters
- Annex G Monthly Summary of Waste Flow Table

BREACH OF ENVIRONMENTAL QUALITY PERFORMANCE LIMITS

ES03. No exceedances of environmental quality performance limits for air quality, construction noise and water quality were recorded. Therefore, neither NOE nor remedial actions were required.

COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

ES04. No environmental complaints, notifications of summons and successful prosecutions were registered during the quarter.

CONCLUSIONS

- ES05. The EM&A results for the Reporting Period confirmed that the monitoring work was effective and was generating data with the necessary statistical power to categorically identify or confirm the absence of impact attributable to the works.
- ES06. Neither breaches of environmental quality performance limits nor written or verbal environmental complaints, notification of summons and successful prosecutions were recorded during the Reporting Period, indicating the implemented environmental mitigation measures were effective and efficient to alleviate adverse environmental impacts generated from the construction activities of the Works.

RECOMMENDATIONS

- ES07. The Contractor is reminded to fully comply with all the environmental requirements stipulated in the environmental regulations, guidelines and Particular Specifications under the Contract, in particular construction suppression measures during dusty construction activities under dry and windy conditions and water quality mitigation measures during rainy conditions.
- ES08. In addition, attention is drawn to implementation of the construction noise mitigation measures during noisy construction works.

1 INTRODUCTION

BASIC PROJECT INFORMATION

- 1.01 Sang Hing Civil Contractors Company Limited has been awarded by DSD since 31 March 2012 Contract No. DC/2011/06 – Reprovisioning of Boundary Patrol Road and Associated Security Facilities between Ping Yuen River and Pak Fu Shan and Drainage Works in North District (hereafter "the Contract"). The Contract comprises:
 - 1) Drainage Works in North District to be implemented under Environmental Permit No. EP-277/2007/A (hereinafter "Drainage Works under EP-277/2007/A or "the Works");
 - 2) Reprovisioning of Boundary Patrol Road and Associated Security Facilities between Ping Yuen River and Pak Fu Shan; and
 - 3) Drainage Works in North District, a non-designated project of drainage works at Ma Wat Wai.
- 1.02 Location plan for the Works is shown in *Annex A*, whereas environmental management organization and communication lines, including contacts of key personnel under the Contract are shown in *Annex B*.
- 1.03 The Works has been commenced since 21 May 2012 upon completion of the site clearance and preparation activities after commencement of the Contract since 31 April 2012.
- 1.04 Action-United Environmental Services and Consulting (hereinafter "AUES") has been commissioned by the Contractor as the Environmental Team (hereinafter "the ET") to implement the environmental monitoring and audit (hereinafter "EM&A") under the Contract.
- 1.05 In order to ease reporting of the Contract, it has been agreed among the Engineer, IEC, Contractor and ET that the EM&A reports for the Contract are split into three stand-alone reports, namely EM&A Report for Advanced Works under EP-430/2011, EM&A Report for Drainage Works under EP-277/2007/A and EM&A Report for Drainage Works at Ma Wat Wai.
- 1.06 This is the fifth quarterly EM&A summary report (herein after "this Report") for Drainage Works under EP-277/2007/A, covering the construction period from 1 June to 31 August 2013 (hereinafter "the Reporting Period").

WORK UNDERTAKEN DURING THE QUARTER

1.07 Construction program is presented in *Annex C*, whereas construction activities undertaken during the Reporting Period are summarized in the following *Table 1-1*.

 Table 1-1
 Major Construction Activities of the Works during the Reporting Period

	able 1 1 Major Construction Activities of the Works during the Reporting Ferrou				
Major Con	Major Construction Activities during the Reporting Period at Portion E (Man Uk Pin)				
June 2013	 Installation of sheet pile for excavation; Construction of gabion wall at CH317; Establishment of Transplanting of tree T1107; and Installation of temporary noise barrier. 				
July 2013	 Pruning, felling and transporting of existing trees; Installation of temporary noise barrier. Installation of sheet pile for excavation; Construction of gabion wall and channel; and Construction of box culvert transition; 				
August 2013	 Installation of sheet pile for excavation; Construction of gabion wall at CH317 Establishment of Transplanted Tree T1107 Trail pit for existing watermain; Concreting of Inlet at CH310; and Liaise with lot owner for the access. 				



ENVIRONMENTAL MITIGATION MEASURES AND ENVIRONMENTAL IMPLEMENTATION STATUS

- 1.08 Environmental mitigation measures to minimize potential environmental impacts arising from the construction of the project have been recommended the Final EIA and summarized in the stand-alone EM&A Manual. They can be found in the *First Monthly EM&A Report for Drainage Works under EP*-277/2007/A (ref. TCS00599/12/600/R0017v4, dated 16 July 2012).
- 1.09 Implementation status of environmental protection and pollution control/mitigation measures, as recommended in the Final EIA and summarized in the updated implementation schedule is detailed in the following *Section 3 to 5* of this Report, whereas status of environmental licenses and permit is summarized in the *Annex D*.

2 REQUIREMENTS FOR CONSTRUCTION IMPACT MONITORING

MONITORING PARAMETERS

2.01 The monitoring parameters to be monitored are summarized in *Table 2-1*.

Table 2-1	Summary	of Environmental Monitoring Parameters
	Jummar	

Aspect	Parameters			
Air Quality	• 1-Hour Total Suspended Particulate (hereinafter '1-Hr TSP'); and			
Air Quality	• 24-Hour Total Suspended	d Particulate (hereinafter '24-Hr TSP').		
	• A-weighted equivalent	continuous sound pressure level (30min) (hereinafter		
Construction	'Leq(30min)' during the	normal working hours; and		
Noise	• A-weighted equivalent continuous sound pressure level (5min) (hereir			
	'Leq(5min)' for construction work during the restricted hours.			
Watan	• In Situ Measurement:	Temperature, Dissolved Oxygen, Dissolved Oxygen		
Water		Saturation, pH value, Water Depth & Turbidity		
Quality	 Laboratory Analysis 	Suspended Solids (hereinafter 'SS'),		
	• The stream conditions monitoring (in-situ measurements of DO, pH and			
	turbidity; laboratory testing of SS);			
Ecology	• Riparian vegetation along the banks of channel monitoring;			
	• General site audit to ensu	are the existing natural stream channel is protected; and		
		ondition during the construction phase		

2.02 As there was neither riparian vegetation along the banks of channel nor existing natural stream channel within the construction site under the Works, no ecology monitoring is required.

MONITORING LOCATIONS

Monitoring Locations Designated in the EM&A Manual

2.03 The sensitive receiver designated in the EM&A Manual, namely MUP05-2, which is the closest to the construction site, is selected as monitoring location for air quality namely MUP-A1 and construction noise namely MUP-N1 respectively. They are shown in *Annex E* and summarized in *Table 2-2* below.

Table 2-2	Designated Mo	nitoring Locations
-----------	---------------	--------------------

Issue	Channel	Sensitive Receiver	Location ID	Detailed Address
Air	MUP05	MUP05-2	MUP-A1	A village house at Man Uk Pin
Noise	MUP05	MUP05-2	MUP-N1	Same village house at Man Uk Pin as MUP-A1

Additional Monitoring Locations

2.04 Additional monitoring locations for construction noise and water quality are also shown in *Annex E* and summarized in *Table 2-3* below.

Contract No. DC/2011/06 – Reprovisioning of Boundary Patrol Road and Associated Security Facilities between Ping Yuen River and Pak Fu Shan and Drainage Works in North District The Fifth Quarterly EM&A Summary Report for Drainage Works under EP-277/2007/A

I	v o				
Issue	Channel	Sensitive Receiver	Location ID	Detailed Address	
Noise	MUP05	MUP05-2	MUP-Nx	Village house	
		-	MUP-Wx1	Additional Up-Stream Control Station: (Prior to and after connection of stream diversion)	
Water Quality	MUP05	-	MUP-Wx2	Additional Impact Monitoring Station: (Prior to connection of stream diversion)	
		-	MUP-Wx3	Additional Impact Monitoring Station: (After connection of stream diversion)	

Table 2-3 Summary of Additional Environmental Monitoring Locations

ENVIRONMENTAL QUALITY PERFORMANCE LIMITS

2.05 The environmental quality performance limits, i.e. Action/Limit Levels, for air quality and construction noise are summarized in *Table 2-4* and *Table 2-5* respectively.

Table 2-4Action and Limit Levels for Air Quality

Monitoring Station	Action Level (µg /m ³)		Limit Level (µg/m ³)	
Women ing Station	1-Hour TSP	24-Hour TSP	1-Hour TSP	24-Hour TSP
MUP-A1	307	156	500	260

Table 2-5Action and Limit Levels for Construction Noise (dB(A))

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

2.06 Environmental quality criteria for additional water quality monitoring are presented in *Table 2-6* below.

Table 2-6Action and Limit Levels for Water Quality

Action Level	Limit Level
120% of the Levels of Up-Stream Control Station	130% of the Levels of Up-Stream Control Station

3 ENVIRONMENTAL MONITORING RESULTS

- 3.01 Graphical plots of the trends of monitored parameters over the past 4 months, including the last month of the previous quarter and the Reporting Period, are presented in *Annex F*.
- 3.02 Weather conditions extracted from Hong Kong Observatory have been used in interpretation of this Report. They can be found in corresponding Monthly EM&A Reports.

EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS

3.03 No exceedances of environmental quality performance limits were registered during the Reporting Period. Neither Notice Of Exceedances of the environmental quality performance limits (hereinafter "NOE") nor the associated remediation actions were required during the Reporting Period.

CONCLUSIONS

- 3.04 The EM&A results confirmed that the monitoring work was effective and generating data with necessary statistical power to categorically identify the absence of impact attributable to the works.
- 3.05 Monitoring results recorded no exceedances of the environmental quality performance limits during the Reporting Period, indicating no adverse environmental impacts were generated from construction activities during the Reporting Period. No remediation actions were required.

4 SOLID AND LIQUID WASTE MANAGEMENT

4.01 The quantity of solid and liquid waste for disposal or reuse is summarized in Monthly Summary of Waste Flow Table in *Annex G*.

5 COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTION

5.01 No written or verbal environmental complaints, notification of summons and successful prosecutions were recorded during the Reporting Period. They are summarized in *Table 5-1*.

 Table 5-1
 Summary of Complaints, Notification of Summons and Successful Prosecutions

	Frequency of Occurrence			
Environmental Issue	From the project commencement to last reporting month	This reporting Period		
	December 2012 – May 2013	June to August 2013		
Complaints	0	0		
Nature of Complaints	Not Applicable	Not Applicable		
Notification of Summons	0	0		
Nature of Summons	Not Applicable	Not Applicable		
Successful Prosecutions	0	0		
Nature of Prosecutions	Not Applicable	Not Applicable		

5.02 Project proponents' contacts and hotline telephone number for the public to make enquiries can be found in *Annex B*.

6 CONCLUSIONS AND RECOMMENDATIONS

CONCLUSIONS

6.01 Neither breaches of environmental quality performance limits nor written/verbal environmental complaints, notification of summons and successful prosecutions were recorded during the Reporting Period, indicating the implemented environmental mitigation measures were effective and efficient to alleviate adverse environmental impacts generated from the construction activities of the Works.

RECOMMENDATIONS

6.02 The Contractor is reminded to fully comply with all the required environmental mitigation measures, in particular construction dust suppression measures during dusty construction activities under dry and windy conditions and water quality mitigation measures during rainy conditions. In addition, attention is drawn to implementation of the construction noise mitigation measures during noisy construction works.



ANNEX A

LOCATION PLAN FOR THE WORKS



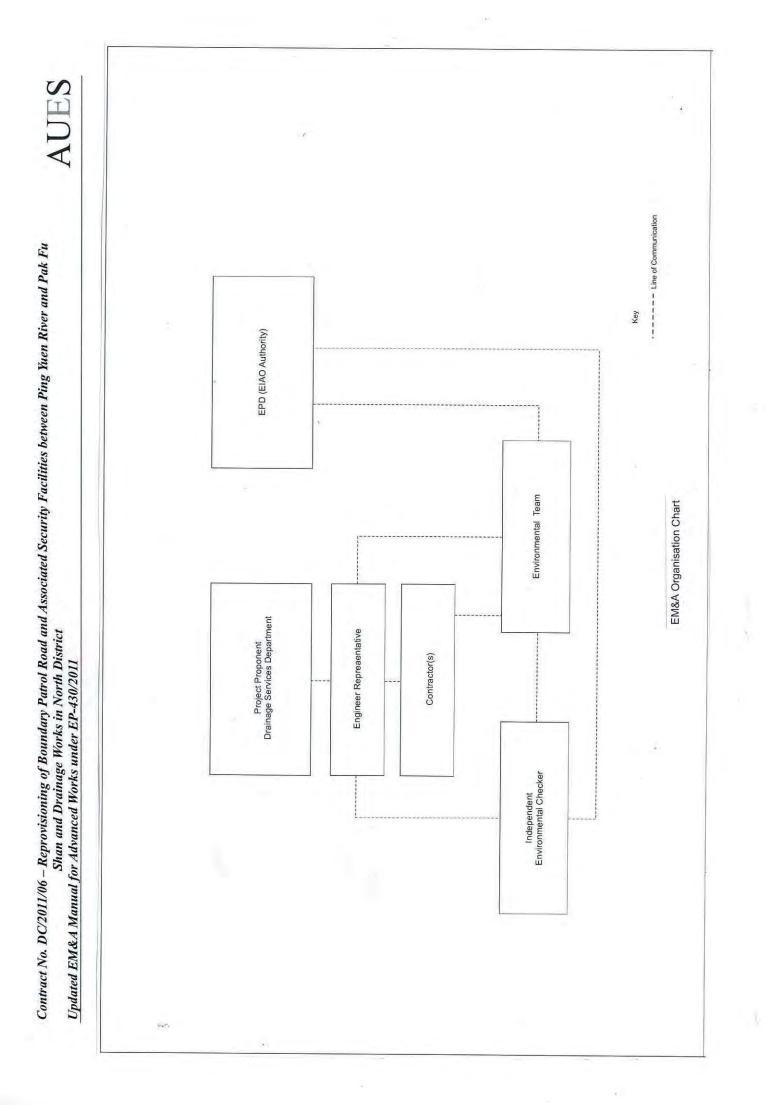


ANNEX B

ENVIRONMENTAL MANAGEMENT ORGANIZATION AND COMMUNICATION LINES

AND
24-HOUR HOTLINE

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Contact Details of Key Personnel

Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
DSD	Project Proponent / Employer	Mr. Eric Y. M. Cheng	2594-7341	2827-8700
Environ	Independent Environmental Checker	Mr. Roger W. K. Leung	3465 2888	3465 2899
CHCC	Project Manager	Mr. Raymond Yau	2403 1165	2403 1165
SHCC	Site Agent	Mr. Elvin Lam	2640 9286	2640 9286
AUES	Environmental Team Leader	Mr. T. W. Tam	2959-6059	2959-6079
AUES	Environmental Consultant	Miss Nicola Hon	2959-6059	2959-6079
AUES	Environmental Team Supervisor	Mr. Ben Tam	2959-6059	2959-6079

24-Hour Hotline Telephone Number for the Public to Make Enquiries

24-Hour Hotline: 6770 3827
Contact Person: Mr. Mocha Mok

Legends:

DSD	(Project Proponent / Engineer) – Drainage Services Department
SHCC	(Main Contractor) –Sang Hing Civil Constructors Co., Ltd
Environ	(IEC) – Environ Hong Kong Limited
AUES	(ET) – Action-United Environmental Services & Consulting



ANNEX C

CONSTRUCTION PROGRAM

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1786 Construction of Portion E			Finch Arr 192 Thu 28'3/13	192		13/4 April 11/5 19/5 1 6/7] 3/9 [3/18 [2019] 2/	Ortober V10 1 2311 1 21/12 1 19/1 1 15/2 1
Possession of Site Site clearance	1 day Soldaria	Sat 31/3/12	Sat 31/3/12	3/12 ÷113			
Setting out		Sat 14/4/12	Thu 7/6/12				
Utilies detection Utility Diversion	150 days T 21 days W	Thu 10/5/12	Tue 6/11/12				
Liasten with villagers	5		Wed 1/8/12				
1. Chainage 276-317	45 days		Wed 1/8/12				
 Chainage 1/1-2/2 Chainage 151-168 	45 days	Fri 8/6/12	Wed 1/8/12 Wed 1/8/12				
4. Chainage 70-81			Wed 1/8/12	712			
5. Chainage 0-67			Wed 1/8/12	\$/12			
keprovisioning of existing boundary tence for private tots 1. Chainage 276-317	30 days 7	Thu 2/8/12	Wed 5/9/12 Fri 24/8/12				
2. Chainage 171-272			Wed 5/9/12				
3. Chainage 151-168		~	Mon 13/8/12				
4. Chainage 70-81			Sat 18/8/12				
5. Unarrage 0-67 Land scaning Works	22 days	Thu 2/8/12 Per 9/6/12	Thu 30/8/12				
1. Tree Survey			Sat 14/7/12				
2. Tree felling			Sat 22/9/12	7/12			
3. Transplant			Wed 31/10/12				
4. Compensatory planting			Fri 11/1/13				
1. CH 359-364	22 days Mi	Mon 16/7/12 Mon 16/7/12	Thu 9/8/12				
2. CH 328-333			Thu 13/9/12				
3. CH 317-321			Thu 13/9/12				
4. CH 2/2-2/0 5. CH 168-171	2	MON.24/9/12 1	21/01/97 III				
6. CH 148-151			Fri 22/3/13				
7. CH 134-137			Fri 22/3/13				
00-TH 11-TO	20 days Mo	Mon 22/10/12 Wo	Wed 21/11/12				
Gabion Wall Channel		3	21/11/17 Dam				
1. CH 333-359 (27m type B1) with 1 gang			Sat 27/10/12				
2. CH 276-317 (41m type B1) with 2 gaugs			Tue 4/12/12				
3. CH 151-168 (17m type B1) with 1 gang			Thu 21/2/13	2/13			
4. CE 00-134 (4000 Lybe 131) WHIL 2 Gauge 5. CH 0-67 (67 m fyne A1) with 2 names	80 days W	Wed 5/12/12	The 12/3/13				
Box Culvert			Sat 16/3/13				
CH 171-272 (9 bays)			Sat 16/3/13	2/13			
Vehicular Crossing			TI 16/11/12				
1. VBM05-4			Fri 16/11/12	(/12			
2. Dedected on Crossing 1702405	old Studys Mic	Mon 20/8/12 S	Sat 20/10/12				
recentation of assumption of a	107 dave Sa		21 77 77 11 J				
 gabion wall and box culvert 	2		Thu 28/3/13	◆ [±] 222			
2. transition			Thu 28/3/13	V13			
vehicular crossing			Fri 23/11/12				
4. procedual clossify	BC SVED C	11 71/71/77 185	71/71//7 181			non	1. Constant in the second state and experience states (states (second spin))
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ANNEX D

SUMMARY OF STATUS OF ENVIRONMENTAL LICENSES AND PERMIT

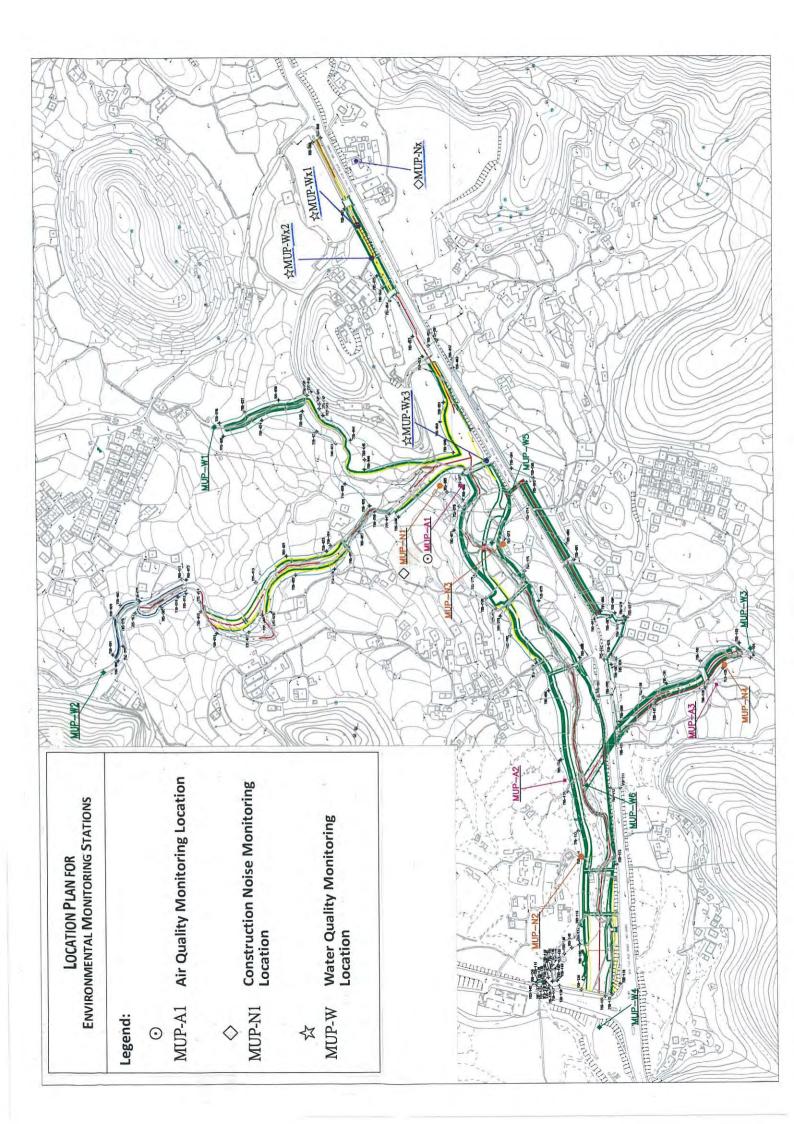


Permit Type	Licenses / Permit No.	Date of Issuance by EPD	Expiry Date	Concerned Location	Status
	EP-277/2007	09 Jul 2007		Man Lila D'a	EP-277/2007/A to
Environmental Permit	EP-277/2007/A	01 Dec 2009	N.A	Man Uk Pin	supersede EP- 277/2007
Notification pursuant to Section 3(1) of the Air Pollution Control Ordinance (APCO) (Construction Dust) Regulation	N.A.	Pending	N.A.	Contract Area (Lin Ma Hang, Man Uk Pin, Ma Wat Wai and Ping Yuen River)	The Notification was submitted to EPD on 28 May 2012
Account for Disposal of Construction Waste	7015003	07 May 2012	N.A.	Contract Area (Lin Ma Hang, Man Uk Pin, Ma Wat Wai and Ping Yuen River)	Valid
Application for Wastewater Discharge License under Water Pollution Control Ordinance (WPCO)	W5/11363/1	29 August 2012	31 Aug 2017	Man Uk Pin	Valid
Register as a Chemical Waste Producer under Waste Disposal Ordinance	5123-642- S3565-03	3 October 2012	N.A	Contract Area (Lin Ma Hang, Man Uk Pin, Ma Wat Wai and Ping Yuen River)	Valid



ANNEX E

ENVIRONMENTAL MONITORING LOCATIONS



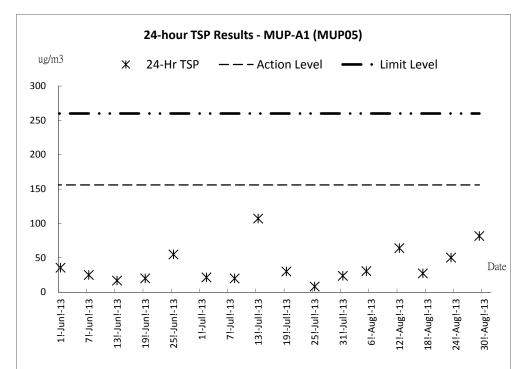


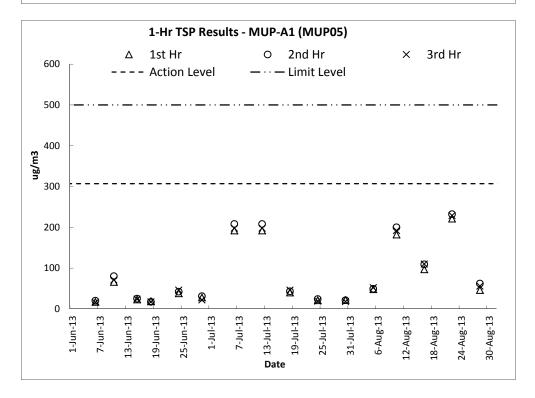
ANNEX F

GRAPHICAL PLOTS OF THE TRENDS OF MONITORED PARAMETERS



Air Quality

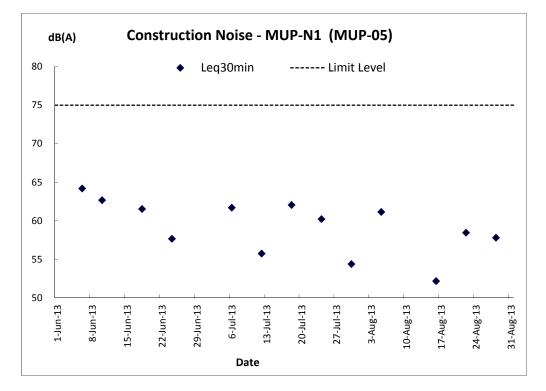


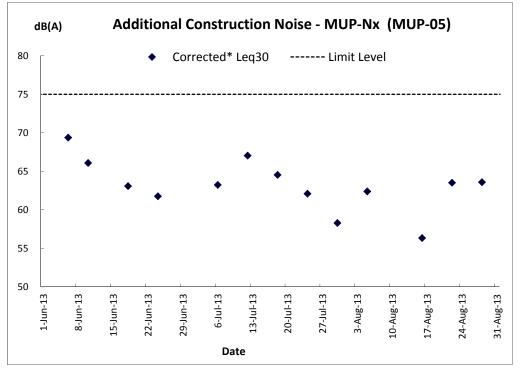


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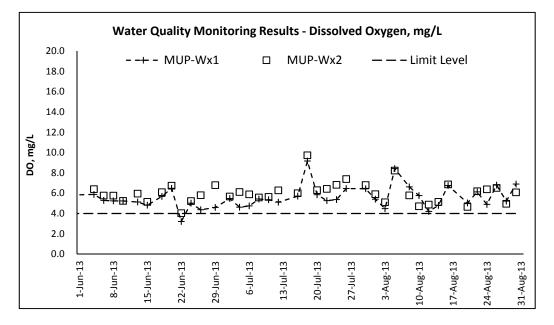
Construction Noise

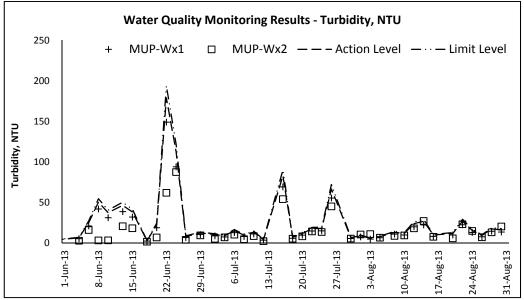






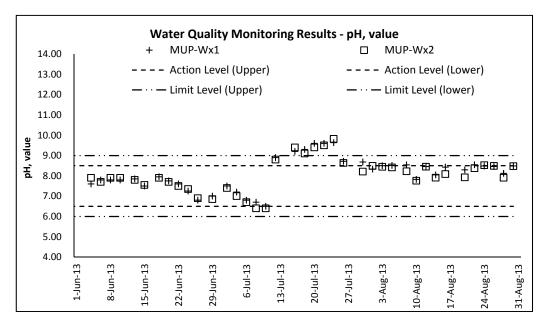
Water Quality

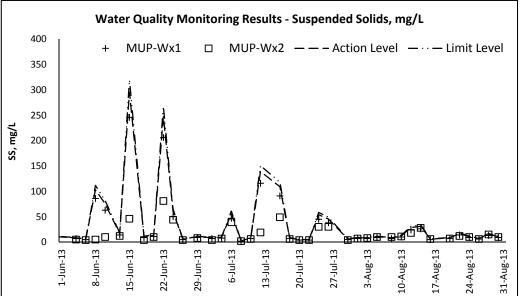




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Water Quality







ANNEX G

MONTHLY SUMMARY OF WASTE FLOW TABLE

Appendix D

Monthly Summary Waste Flow Table

Name of Department: DSD

Contract No.: DC/2011/06

Monthly Summary Waste Flow Table for 2013

					Autor	Ī					54 1
	Total Quantity Generated	4	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Othens, e.g. general refuse
	(ق <u>س</u> 000 منا)	(in '000 <u>m</u> 3)	(in '000m ³)	(近 '000 ³)	(in '000m ³)	(іш '000ш ³)	(jm '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
	0.002	000-0	0.002	0.000	0.000	0.000	000:0	0.000	0.000	0.000	0.035
	100.0	0.000	0.001	0.000	0.000	0.000	0:000	0.000	0.000	0.000	0.015
I 1	0.003	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.041
	0.003	0.000	0,003	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.041
	0.002	0.000	0.002	0.000	0.000	0.000	0.000	000'0	0.000	0.000	0.035
1	0.002	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0000	0.037
	0.003	0.000	0.003	0.000	0.000	0.000	0.000	000'0	0.000	0000	0.036
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016 -	0.000
1											
li –	0.036	0.00	0.036	0.000	0.000	0.000	0.000	0.000	0,000	0.036	0.549

Notes :

(1) Note Used.

(2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Sites.

(3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.

(4) The summary table shall be submitted to the Engineer's Representative monthly together with the Waste Flow Table for review and monitoring.

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