

PROJECT No.: TCS/00553/11

CONTRACT NO. DC/2009/22
DRAINAGE IMPROVEMENT WORKS IN SHUEN WAN

CONTRACT NO. DC/2010/02 DRAINAGE IMPROVEMENT WORKS IN SHUEN WAN AND SHEK WU WAI

MONTHLY ENVIRONMENTAL MONITORING AND AUDIT REPORT FOR OPERATION PHASE—JUNE 2015

PREPARED FOR KWAN LEE-KULY JOINT VENTURE

Quality Index

Date	Reference No.	Prepared By	Certified by	
23 July 2015	TCS00553/11/600/R0445v2	Ben Tam (Environmental Consultant)	T.W. Tam (Environmental Team Leader)	

Ver.	Date	Description
1	21 July 2015	First submission
2	23 July 2015	Amended according to the IEC's comments on 22 July 2015

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Ref.: DSDSHUWNEM00_0_0707L.15

24 July 2015

By Fax (2827 8700) and Post

Drainage Services Department Drainage Projects Division 44 & 45/F., Revenue Tower 5 Gloucester Road, Wan Chai, Hong Kong

Attention: Mr. H.K.Chan and Mr. Max Tai

Dear Sirs,

Re: Agreement No. DP 01/2010

Services as Independent Environmental Checker for the Drainage Improvement Works in Sha Tin and Tai Po under Contract No. DC/2009/22 & DC/2010/02

Monthly Environmental Monitoring and Audit Report for June 2015

Reference is made to Environment Team's submission of the Monthly Environmental Monitoring and Audit Report for June 2015 by Email on 23 July 2015 (entitled "DC/2009/22 & DC/2010/02 – Monthly EM&A Report for Operation Phase – June 2015").

Please be informed that we have no comment on the captioned report. We write to verify the captioned submission in accordance with Condition 5.4 of EP-303/2008.

Thank you very much for your kind attention and please do not hesitate to contact Mr. Tony Cheng (3465-2822) should you have any queries.

Thank you very much for your attention and please feel free to contact the undersigned should you require further information.

Yours faithfully,

Tony Cheng

Independent Environmental Checker

c.c.

AUES

Attn: Mr. T. W. Tam

By Fax: 2959 6079

Kwan Lee-Kuly JV

Attn: Mr. W. K. Chan

By Fax: 2674 6688

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EXECUTIVE SUMMARY

- ES.01. This is the Monthly Environmental Monitoring and Audit (EM&A) Report for DSD Contract No. DC/2009/22 (hereafter "Contract 1") and DC/2010/02 (hereafter "Contract 2") for Drainage Improvement in Shuen Wan under Environmental Permit No.EP-303/2008, covering the Operation Phase period from 1 to 30 June 2015 (hereinafter 'the Reporting Period').
- ES.02. Joint site inspection with EPD, DSD, Contractor, IEC and ET was carried out on 24 March 2015 regarding the proposal of commencement of operation phase of DC/2010/02. EPD accepted that the proposal and the operation phase of DC/2012/02 was commenced from 1 April 2015. Therefore, the EM&A programme for both Contracts 1 and 2 were performed in Operation Phase in the Reporting Period.

ENVIRONMENTAL MONITORING AND AUDIT ACTIVITIES

ES.03. In the Reporting Period, environmental monitoring activities for the Operation Phase of the Project under the of EM&A programme are summarized in the following table.

Environmental		Contract 1	Contract 2
Aspect	Monitoring Parameters / Inspection	Operation Phase	Operation Phase
Water Quality Hydrological characteristics measurement – H1, H2, H3 and H4		4 events	4 events
Ecological	Ecological Monitoring	0 event	0 event
Landscape & Visual	Inspection by a registered Landscape Architect	0 event	0 event

- ES.04. Operation phase ecological monitoring in area under the Project should be undertaken on a quarterly basis and it was not carried out in this Reporting Period.
- ES.05. Operation phase Landscape and visual inspection of the Contracts 1 and 2 should be undertaken on a quarterly basis and it was not carried out in this Reporting Period.
- ES.06. The hydrological characteristics of water depth and water flow rate as compared baseline monitoring period, the currently water depth and volumetric flow rate has insignificant change.

ENVIRONMENTAL COMPLAINT

ES.07. No written or verbal complaint was recorded in this Reporting Period.

NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

ES.08. No environmental summons or successful prosecutions were recorded in this Reporting Period.

REPORTING CHANGE

ES.09. In the Reporting Period, the EM&A programme for both Contracts 1 and 2 were implemented in the Operation Phase according to the updated EM&A Manual.

DSD Contract No. DC/2009/22 - Drainage Improvement in Shuen Wan DSD Contract No. DC/2010/02 - Drainage Improvement in Shuen Wan and Shek Wu Wai Monthly EM&A Report for Operation Phase– June 2015



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1.0 INTRODUCTION

PROJECT BACKGROUND

- 1.01 *Kwan Lee-Kuly Joint Venture* (hereinafter 'KLKJV') has been awarded by Drainage Services Department (hereinafter 'DSD') of the Contract No. DC/2010/02 Drainage Improvement in Shuen Wan and Shek Wu Wai (hereinafter 'the Project'). For the Project, construction works at Tung Tsz Road Shuen Wan is part of the Drainage Improvement works amongst Shatin and Tai Po and it is defined as a "Designated Project" which controlled under Environmental Permit EP-303/2008. On the other hand, Shek Wu Wai San Tin is a non-designated project work.
- 1.02 The Works at Tung Tsz Road Shuen Wan was divided two DSD Contracts i.e. DC/2009/22 (hereinafter called the "Contract 1") and DC/2010/02 (hereinafter called the "Contract 2"). The construction works of Contract 1 was commenced in *August 2010* and the Operation Phase was commenced in *December 2014*. For Contract 2, the construction works was commenced in *May 2011* and the Operation Phase was commenced in *April 2015*. The Project site boundary is shown in *Appendix A*.
- 1.03 Action-United Environmental Services and Consulting (AUES) was appointed as the Environmental Team (ET) of Contracts 1 and 2 to implement the relevant EM&A programme of the Project.
- 1.04 This is the Monthly EM&A Report presenting the monitoring results for Operation Phase during the Reporting Period from 1 to 30 June 2015.

REPORT STRUCTURE

1.05 The Monthly Environmental Monitoring and Audit (EM&A) Report is structured into the following sections:-.

SECTION 1	INTRODUCTION
SECTION 2	PROJECT ORGANIZATION AND WORKS PROGRESS AND SUBMISSION
SECTION 3	EM&A PROGRAM REQUIREMENT FOR THE PROJECT
SECTION 4	IMPACT MONITORING RESULTS
SECTION 5	SITE INSPECTIONS
SECTION 6	ENVIRONMENTAL COMPLAINTS AND NON-COMPLIANCE
SECTION 7	IMPLEMENTATION STATUES OF MITIGATION MEASURES
SECTION 8	CONCLUSIONS AND RECOMMENDATION



2.0 PROJECT ORGANIZATION AND SUBMISSION

PROJECT ORGANIZATION AND MANAGEMENT STRUCTURE

2.01 Organization structure and contact details of relevant parties with respect to on-site environmental management are shown in *Appendix B*.

SUMMARY OF ENVIRONMENTAL SUBMISSIONS

2.02 Summary of the relevant permits, licences, and/or notifications on environmental protection for this Project in this Reporting Period is presented in *Table 2-1*.

Table 2-1 Status of Environmental Licenses and Permits

Item	Description	License/Permit Status		
1	Air Pollution Control (Construction Dust)	Notified EPD on 17 October 2011		
,	Chemical Waste Producer Registration (WPN5213-727-K2972-02)	Approved on 28 October 2011		
3	Water Pollution Control Ordinance (Discharge License) WT00009528-2011	Valid to 31 July 2016		
4	Billing Account for Disposal of Construction Waste (Account No.: 7012838)	Effective		



3.0 EM&A PROGRAM REQUIREMENT

3.01 The EM&A requirements for the Operation Phases are according to the PP, EIAR, Environmental Permit EP303/2008 (hereinafter 'the EP'), and the associated updated EM&A Manual and they are presented in below sub-section.

MONITORING PARAMETERS

3.02 According to the updated EM&A Manual of the Project, the Operation Phases monitoring requirement is showed in *Table 3-1*.

Table 3-1 Summary of Monitoring Parameters for the Project

Environmental Aspect	Requirement / Parameter		
Hydrological Characteristics Monitoring	In-situ measurement including water flow and depth		
(*) Ecological Monitoring and Audit	• Monitor and inspect including the vegetation, fauna (includes avifauna, herpetofauna, odonate and butterfly) and Stream (includes fish and macroinvertebrates)		
(*) Landscape and Visual Monitoring	• Inspect and audit the implementation and maintenance of landscape and visual mitigation measures		

Remarks:

- (*) the monitoring is carried out by IEC
- (#) The monitoring is carried out by the registered Landscape Architect

MONITORING LOCATIONS

3.03 Monitoring locations have been proposed in the updated EM&A Manual. The monitoring location is summarized in *Table 3-2* and shown in *Appendix C*.

Table 3-2 Monitoring Locations of Operation Phase

Aspect	Location ID	Address		
	H1	Between the Shuen Wan Marsh and ECA Coordinates: E839306, N836379)		
Hardwala ai aal	H2	Route 10 Sam Kung Temple Coordinates: E839163, N836433		
Hydrological	НЗ	Upstream of Tung Tze Shan Road Coordinates: E838760, N836714		
	H4	Wai Ha Village 29D Coordinates: E838865, N836621		
Ecology	Areas within 100m of the works boundary under Contract 1 and Contract 2			
Landscape & Visual	As within and adjacent to the construction sites and works areas under the Contract 1 and Contract 2			

MONITORING FREQUENCY OF OPERATION PHASE

3.04 According to the updated EM&A Manual, frequency and duration of the Operation Phase monitoring are summarized below.

Hydrological Characteristics

Frequency: Once per week at mid-flood and mid-ebb tides

<u>Duration</u>: One year after the construction is complete as operation phase monitoring (in

accordance with the Updated EM&A Manual Section 4.32).

Ecology

3.05 In according with Section 6.17 of the Updated EM&A Manual, the Operation Phase ecological monitoring would be to conduct by the Independent Environmental Checker (hereinafter 'IEC'). Regular checking and monitoring by quarter month would be performed for one year duration



Landscape & Visual

3.06 According to Section 7.5 of the Updated EM&A Manual, all landscape and visual mitigation measures would be monitored quarterly during the first year of the Operation Phase to check on the effectiveness of the mitigations.

MONITORING EQUIPMENT

Hydrological Characteristics

- 3.07 **Water Depth Detector** A portable, battery-operated echo sounder shall be used for the determination of water depth at each designated monitoring station.
- 3.08 **Stream water flow Equipment** –A portable, battery-operated flow meter should be used for the determination of water flow rate at each designated monitoring location and record in m³/s.
- 3.09 The monitoring equipment using for the Project's EM&A program were proposed by the ET and verified by the IEC prior commencement of the monitoring. Details of the equipment used for impact monitoring are listed in *Table 3-3*.

Table 3-3 Monitoring Equipment Used for Operation Phase

Equipment	Model		
Hydrological Characteristics			
Water flow meter	GLOBAL WATER model FP211		
Water Depth Detector	Eagle Sonar or an appropriate steel ruler or rope with appropriate weight		

MONITORING METHODOLOGY

Hydrological Characteristics

- 3.10 A portable, water flow meter, brand named "GLOBAL WATER model FP211" are used to determine the water current flow at the designated monitoring stations. A water flow velocity is measured at mid depth of current water body or 0.5m below water level.
- 3.11 Water depths are determined prior to measurement, using a portable battery operated depth detector, brand named 'Eagle Sonar', if the depths exceed 1.5 meter. If the depth between 1.5 meter and 1 meter, plastic tape measurement tied with appropriate weight are used the depth estimation. For the depths well below 1 meter, an appropriate steel ruler or rope with appropriate weight are used for the depth measurement.

OTHERS MONITORING IMPLEMENTATION FOR THE PROJECT

Ecology

3.12 Ecological monitoring and reporting should be performed by IEC. Site survey will be carried out during the construction and 1-year establishment period of the Ecological Compensatory Area. These monitoring events include regular check on the retained and transplanted trees and shrubs, monitoring on fauna groups and aquatic fauna. No equipment and procedure are presented in the EM&A Monthly Report.

Landscape and Visual

3.13 A registered Landscape Architect as member of the ET is employed by the Contractor to undertake site inspection. Site inspection will undertake once every three months during the first year of the Operation Phase to check on the effectiveness of the mitigations.

DETERMINATION OF ACTION/LIMIT (A/L) LEVELS

3.14 No performance criteria i.e. Action and Limit levels of hydrological is used for the Operation Phase. The locations H3 and H4 are a reference measurement point in order to monitor any changes in the hydrological characteristics of Wai Ha River arising from the work Contract 2 to affect the Shuen Wan Marsh.



4.0 MONITORING RESULTS OF CONTRACT 1 AND 2 FOR OPERATION PHASE

4.01 The operation phase monitoring schedule is presented in *Appendix D*. The monitoring results are presented in the following sub-sections.

RESULTS OF HYDROLOGICAL CHARACTERISTICS MONITORING

4.02 In this Reporting Period, hydrological characteristics measurements were carried out on 5, 11, 16 and 25 June 2015. The detailed measurement results in this Reporting Period are presented in *Tables 4-1* and the graphical plot area shown in *Appendix E*.

Table 4-1 Detailed Monitoring Results of hydrological characteristics at Designated Measurement Points

Measurement		Tide	River Width (m)	Water Depth (m)	Cut Section (m ²)	Velocity Flow Rate (m/s)	Average Volumetric Flow Rate (Q), m ³ /s	
Point	Point Time							
Date: 5 Jun	Date: 5 June 2015							
TT1	10:59	Flood	5.5	0.49	2.6950	0.2	0.539	
H1	13:53	Ebb	5.5	0.47	2.5850	0.2	0.517	
110	11:43	Flood	4.7	0.33	1.5510	0.1	0.155	
H2	13:35	Ebb	4.7	0.32	1.5040	0.1	0.150	
112	11:12	Flood	7.45	0.41	3.0545	0.2	0.611	
Н3	13:06	Ebb	7.45	0.39	2.9055	0.2	0.581	
114	11:28	Flood	2.74	0.28	0.7672	0.2	0.153	
H4	13:20	Ebb	2.74	0.27	0.7398	0.2	0.148	
Date: 11 Ju	ne 2015			•	•			
	14:39	Flood	5.5	0.44	2.4200	0.2	0.484	
H1	10:09	Ebb	5.5	0.41	2.2550	0.2	0.451	
***	14:13	Flood	4.7	0.29	1.3630	0.1	0.136	
H2	9:44	Ebb	4.7	0.28	1.3160	< 0.1	< 0.132	
***	13:49	Flood	7.45	0.27	2.0115	0.3	0.603	
Н3	9:17	Ebb	7.45	0.25	1.8625	0.2	0.373	
** 4	14:02	Flood	2.74	0.39	1.0686	0.2	0.214	
H4	9:28	Ebb	2.74	0.36	0.9864	0.2	0.197	
Date: 16 Ju	ne 2015	•	1		<u> </u>	•		
	9:51	Flood	5.5	0.41	2.2550	0.3	0.677	
H1	13:10	Ebb	5.5	0.38	2.0900	0.2	0.418	
	9:36	Flood	4.7	0.3	1.4100	0.1	0.141	
H2	12:51	Ebb	4.7	0.28	1.3160	0.1	0.132	
***	9:07	Flood	7.45	0.27	2.0115	0.3	0.603	
Н3	12:28	Ebb	7.45	0.25	1.8625	0.3	0.559	
***	9:21	Flood	2.74	0.39	1.0686	0.2	0.214	
H4	12:42	Ebb	2.74	0.38	1.0412	0.2	0.208	
Date: 25 Ju	ne 2015	•				•		
771	10:57	Flood	5.5	0.51	2.8050	0.51	1.431	
H1	17:11	Ebb	5.5	0.46	2.5300	0.46	1.164	
110	10:41	Flood	4.7	0.33	1.5510	0.33	0.512	
H2	16:56	Ebb	4.7	0.31	1.4570	0.31	0.452	
112	10:16	Flood	7.45	0.44	3.2780	0.44	1.442	
Н3	16:31	Ebb	7.45	0.4	2.9800	0.4	1.192	
H4	10:29	Flood	2.74	0.34	0.9316	0.34	0.317	
	16:43	Ebb	2.74	0.31	0.8494	0.31	0.263	

4.03 Hydrological characteristics results of the all measurement points are summarized in *Tables 4-2* and *4-3*.



Table 4-2 Summarized Hydrological Characteristics of Water Depth, m

Date		Mid-	Flood		Mid-Ebb				
	H1	H2	Н3	H4	H1	H2	Н3	H4	
5-Jun-15	0.49	0.33	0.41	0.28	0.47	0.32	0.39	0.27	
11-Jun-15	0.44	0.29	0.27	0.39	0.41	0.28	0.25	0.36	
16-Jun-15	0.41	0.30	0.27	0.39	0.38	0.28	0.25	0.38	
25-Jun-15	0.51	0.33	0.44	0.34	0.46	0.31	0.40	0.31	

Table 4-3 Summarized Hydrological Characteristics of Average Volumetric flow rate (Q), m^3/s

Data		Mid-	Flood		Mid-Ebb				
Date	H1	H2	Н3	H4	H1	H2	Н3	H4	
5-Jun-15	0.539	0.155	0.611	0.153	0.517	0.150	0.581	0.148	
11-Jun-15	0.484	0.136	0.603	0.214	0.451	< 0.132	0.373	0.197	
16-Jun-15	0.677	0.141	0.603	0.214	0.418	0.132	0.559	0.208	
25-Jun-15	1.431	0.512	1.442	0.317	1.164	0.452	1.192	0.263	

4.04 To compare the monitoring data between the Reporting Period and baseline monitoring period, the currently water depth and volumetric flow rate has insignificant change.

RESULTS OF ECOLOGICAL MONITORING

- 4.05 According to updated EM&A Manual, quarterly ecological monitoring shall be conducted and it is undertaken by the IEC Ramboll Environ Hong Kong Limited. In brief, the monitoring tasks include regular check on the retained and transplanted trees and shrubs, monitoring on fauna groups and aquatic fauna within the works area and any ecologically sensitive area within 100 m of the works boundary.
- 4.06 No ecological monitoring was carried out in the Reporting Period. The last quarterly ecological monitoring was carried out by the IEC on 24 April 2015 and the next monitoring is scheduled in July 2015.

METEOROLOGICAL INFORMATION

4.07 The meteorological information during the measurement day of Operation Phase would be extracted from Tai Po and Shatin Stations of the Hong Kong Observatory (HKO). The meteorological data during the measurement days are presented in *Table 4-4*.

Table 4-4 Meteorological Data in Reporting Period

				Tai Po	Station	Shati	n Station
Date		Weather	Total Rainfall (mm)	Mean Air Temp. (°C)	Mean Relative Humidity (%)	Wind Speed (km/h)	Wind Direction
5-Jun-15	Fri	Mainly cloudy with a few showers. There will be isolated thunderstorms overnight. Moderate southwesterly winds.	5.4	28.4	78.7	76.2	S/SW
11-Jun-15	Thu	Hot with sunny intervals and isolated showers. Moderate southwesterly winds.	1.6	30.2	80	73.2	S/SW
16-Jun-15	Tue	Mainly fine and very hot. Light to moderate southerly winds.	0	30.3	71	68.5	S/SW
25-Jun-15	Thu	Mainly cloudy with scattered showers. Isolated squally thunderstorms at first. Moderate southerly winds.	28.5	27.6	89.7	84.5	S/SW



5.0 SITE INSPECTION

REGULAR SITE INSPECTION AND MONTHLY AUDIT

5.01 According to the Updated Environmental Monitoring and Audit Manual, regular site inspection to evaluate the project environmental performance is not required during operation phase.

LANDSCAPE AND VISUAL INSPECTION

5.02 According to Section 7.5 of the Updated EM&A Manual, quarterly landscape and visual inspection shall be carried out during the first year of the Operation Phase.

Operation Phase of Contract 1

5.03 The second quarterly Landscape & Visual inspection for Contract 1 which signed by the Registered Landscape Architect was undertaken on 29 May 2015. In the Reporting Period, no Landscape & Visual inspection of Contract 1 was carried out.

Operation Phase of Contract 2

5.04 The second quarterly Landscape & Visual inspection for Contract 2 which signed by the Registered Landscape Architect was undertaken on 30 May 2015. In the Reporting Period, no Landscape & Visual inspection of Contract 2 was carried out.



6.0 ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

ENVIRONMENTAL COMPLAINT, SUMMONS AND PROSECUTION

6.01 For the Project, no environmental complaint, summons and prosecution was received in this Reporting Period. The statistical summary table of environmental complaint for the **Contract 2** is presented in *Tables 6-1, 6-2* and *6-3*.

Table 6-1 Statistical Summary of Environmental Complaints

D 4: D : 1	Environmental Complaint Statistics								
Reporting Period	Frequency	Cumulative	Complaint Nature						
July 2011 -May 2015	1	1	Air Quality (1)						
June 2015	0	1	Air Quality (1)						

 Table 6-2
 Statistical Summary of Environmental Summons

Donauting Davied	Envir	Environmental Summons Statistics							
Reporting Period	Frequency	Cumulative	Complaint Nature						
July 2011 –May 2015	0	0	NA						
June 2015	0	0	NA						

Table 6-3 Statistical Summary of Environmental Prosecution

Depositing Devied	Environmental Prosecution Statistics							
Reporting Period	Frequency	Cumulative	Complaint Nature					
July 2011 –May 2015	0	0	NA					
June 2015	0	0	NA					



7.0 IMPLEMENTATION STATUS OF MITIGATION MEASURES

7.01 According to the Updated Environmental Monitoring and Audit Manual, mitigation measures of Operation Phase of the Project is included the Ecological and Landscape & Visual as listed below.

Ecological

- To minimize sedimentation, de-silting should be limited to conduct the dry season; and
- Waste material produced during de-silting should be disposed of in a timely and appropriate manner

Landscape and visual

- Viewing area formation by planting with shrubs, grasses and benches along the area
- Architectural design of the pump house will help it fit into the existing suburban, natural to semi-natural surroundings
- Landscape design of pump house by providing sufficient planting around its boundary fence
- Enhancement planting along Tung Tsz Road with shrubs / trees of suitable species to help protect the stream and marshes
- Construction of box culvert should be with at least 1.0m soil depth for enhancement planting
- Transplanting of existing affected trees to adjacent locations should be carried out
- Preparation for transplanting is needed to allow sufficient time for root pruning and rootball preparation prior to transplanting
- Reinstatement of affected area should be carried out to check that the works areas are properly reinstated



8.0 CONCLUSIONS AND RECOMMENTATIONS

CONCLUSIONS

- 8.01 This is the monthly EM&A report for Contract 1 and Contract 2 presenting the Operation Phases monitoring results during the Reporting Period of 1 to 30 June 2015.
- 8.02 The hydrological characteristics of water depth and water flow rate as compared baseline monitoring period, the currently water depth and volumetric flow rate has insignificant change.
- 8.03 Operation phase ecological monitoring in area under the Project should be undertaken on quarterly basis and it was not carried out in this Reporting Period.
- 8.04 Operation phase Landscape and visual inspection of the Contracts 1 and 2 should be undertaken on quarterly basis and it was not carried out in this Reporting Period.
- 8.05 No documented complaint, notification of summons or successful prosecution was received in the Reporting Period.

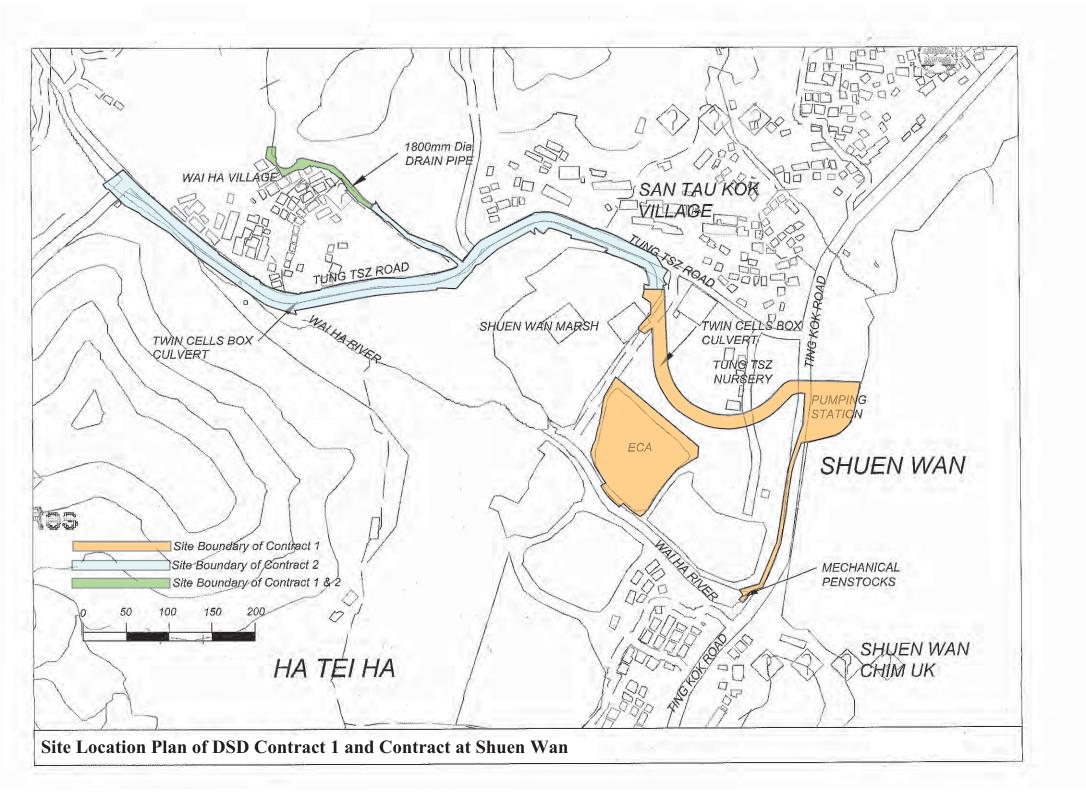
RECOMMENDATIONS

8.06 Mitigation Measures of Operation Phase shall fulfill the updated EM&A Manual requirements.



Appendix A

Project Location at Shuen Wan

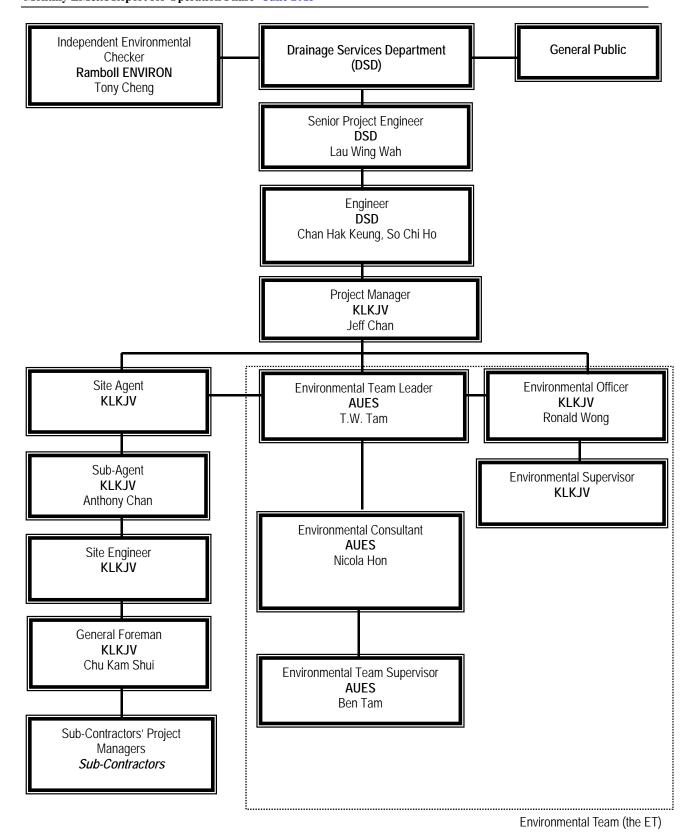




Appendix B

Organization Chart and the Key Contact Person





Environmental Management Organization



Contact Details of Key Personnel

Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
DSD	Employer	Mr. Luk Wai Hung	2594 7400	2827 8700
DSD	Senior Engineer	Mr. Lau Wing Wah	2594 7402	2827 8700
DSD	Engineer	Mr. Chan Hak Keung	2594 7596	2827 8700
DSD	Engineer	Mr. So Chi Ho	2594 7356	2827 8700
DSD	Senior Inspector	Mr. Tso Si On	6778 2708	2827 8700
Ramboll Environ	Independent Environmental Checker	Mr. Tong Cheng	3465-2888	3465-2899
KLKJV	Project Director	Mr. Poon Chi Yeung Francis	2674 3888	2674 9988
KLKJV	Project Manager	Mr. Jeff Chan	2674 3888	2674 9988
KLKJV	Sub- Agent	Mr. Anthony Chan	2674 3888	2674 9988
KLKJV	Site Forman	Mr. Chu Kam Shui	2674 3888	2674 9988
KLKJV	Environmental Officer	Mr. Ronald Wong	2674 3888	2674 9988
AUES	Environmental Team Leader	Mr. T.W. Tam	2959-6059	2959-6079
AUES	Environmental Consultant	Miss. Nicola Hon	2959-6059	2959-6079
AUES	Environmental Supervisor	Mr. Ben Tam	2959-6059	2959-6079

Legends:

DSD (Employer) – Drainage Services Department

DSD (Engineer) - Drainage Services Department

KLKJV (Main Contractor) – Kwan Lee-Kuly Joint Venture

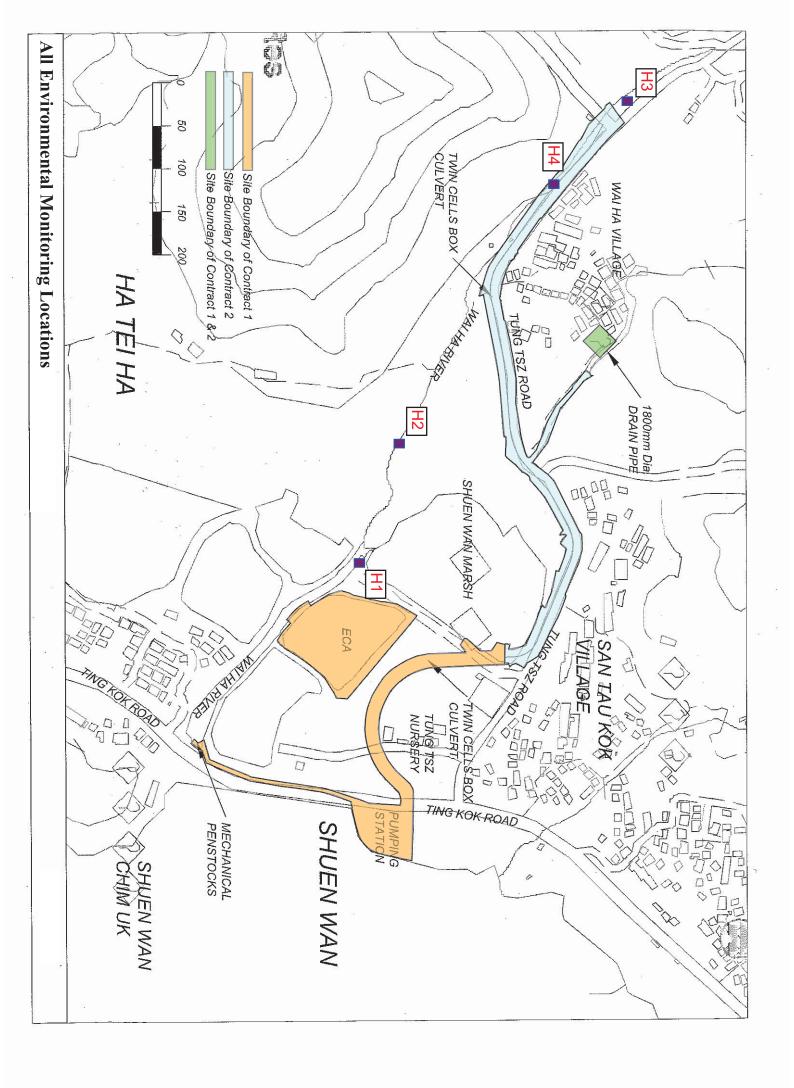
RAMBOLL ENVIRON (IEC) - Ramboll Environ Hong Kong Limited

AUES (ET) – Action-United Environmental Services & Consulting



Appendix C

Operation Phase Environmental Monitoring Locations





Appendix D

Operation Phase Monitoring Schedule



Monitoring/Inspection Schedule for the coming year (April 2015 to March 2016)

Operational Phase			Hydrological Monitoring										
Commence	ement Date	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
Contract 1	4-Dec-14		Once per week at mid-flood and mid-ebb tides								N/A	N/A	N/A
Contract 2	1-Apr-15		Once per week at mid-flood and mid-ebb tides										

Operational Phase			Landscape & Visual Inspection										
Commence	ement Date	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
Contract 1	4-Dec-14		×			×			×				
Contract 2	1-Apr-15		×			×			×			×	

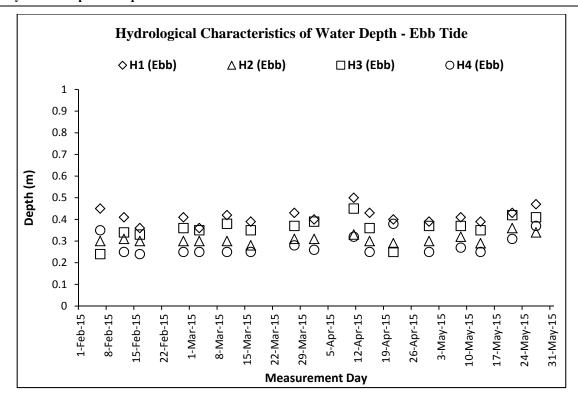
Operational Phase Commencement Date			Ecology Monitoring										
		Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
Contract 1	4-Dec-14	×			×			×					
Contract 2	1-Apr-15	×			×			×			×		

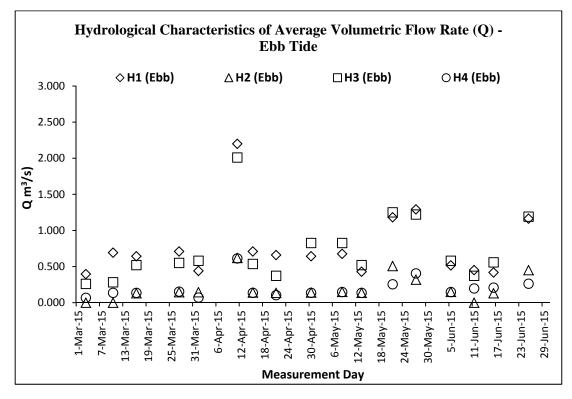


Appendix E

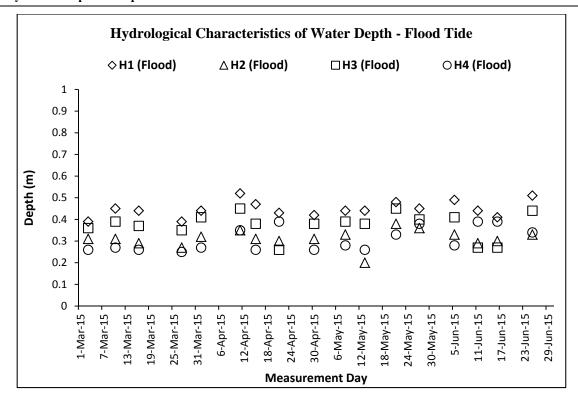
Graphical Plots of Hydrological Characteristics

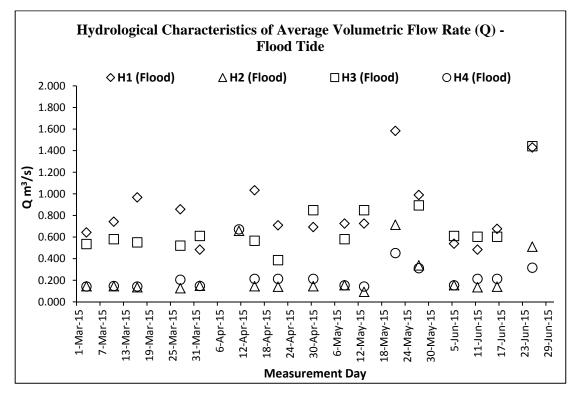














Appendix F

Ecological Monitoring Report for Operation Phase

(Not Used)



Appendix G

Quarterly EM&A (Landscape & Visual) Report

(Not Used)