

PROJECT NO.: TCS00409/08

DSD CONTRACT NO. DC/2007/08 DRAINAGE IMPROVEMENTS WORKS IN TAI PO TIN, PING CHE, MAN UK PIN AND LIN MA HANG

20TH MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT FOR THE DESIGNATED WORKS UNDER THE PROJECT – OCTOBER 2010 CHANNELS MUP03A&B, MUP04A&B, MUP05 AND LMH01

PREPARED FOR

CHIU HING CONSTRUCTION & TRANSPORTATION COMPANY LIMITED

Quality Index

Date	Reference No.	Prepared By	Certified by
10 November 2010	TCS00409/08/600/R0872v2	Payer	Aun

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Version	Date	Remarks
1	3 November 2010	First Submission
2	10 November 2010	Amended against IEC comments on 5 November 2010

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ENVIRON

Ref.: DSDFANLGEM01 0 0830L.10

12 November 2010

By Fax (26598323) and By Post

Engineer's Representative Office Black & Veatch Hong Kong Ltd 503 Tai Po Tin, Ta Kwu Ling Fanling, New Territories

Attention: Mr. Gilbert Ying

Dear Mr. Ying,

Re: Contract No. DC/2007/08 (EP No. EP-277/2007/A) Drainage Improvement Works at Tai Po Tin, Ping Che, Man Uk and Lin Ma Hang Monthly EM&A Report for Channels MUP03A&B, MUP04A&B, MUP05 and LMH01 for October 2010 (Rev. 2)

Reference is made to the 20th Monthly EM&A Report (October 2010, Rev. 2) for the Designated Project Channels MUP03A&B, MUP04A&B, MUP05 and LMH01 provided by the Environmental Team by email on 10 November 2010.

We would like to inform that we have no comment on the captioned report.

Please also note that the Monthly EM&A Report had been verified in accordance with the Condition 3.4 of the Environmental Permit No. EP-277/2007/A.

Thank you very much for your kind attention and please do not hesitate to contact the undersigned should you have any queries.

Yours sincerely,

David Yeung Independent Environmental Checker

c.c. AUES Attn: Mr. T. W. Tam

Fax: 2959-6079

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EXECUTIVE SUMMARY

- ES.01 This is the **20th** monthly EM&A Report for Channels MUP03A&B, MUP04A&B, MUP05 and LMH01 covering a period from **26 September** to **25 October 2010** (the Reporting Period). These works are classified as Designated Projects under the Environmental Impact Assessment Ordinance (Cap. 499) and Environmental Permit No.EP277/2007/A.
- ES.02 As construction works were undertaken only at Channels MUP03A&B, MUP04A&B, MUP05 during the Reporting Period, environmental monitoring for air quality, construction noise, water quality and ecology was therefore performed at those channels only.
- ES.03 In air quality and noise monitoring, there were no Action/ Limit Level exceedance recorded in this reporting period.
- ES.04 In stream water quality monitoring, there were also no exceedance recorded in the reporting period. Therefore, no associated corrective actions were required.

D	0	Turb	idity	pH V	/alue	S	S	Total Exc	ceedance
Action	Limit	Action	Limit	Action	Limit	Action	Limit	Action	Limit
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
	Action 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0		Action Limit Action Limit 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Action Limit Action Limit Action 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Action Limit Action Limit Action Limit 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Action Limit Action Limit Action Limit Action 0	Action Limit Action Limit Action Limit Action Limit 0 0 0 0 0 0 0 0 0 0	Action Limit Action Description Description

Remarks: ^(a) impact station; ^(be) Temporary or mobile station

- ES.05 **Four** ecological general audits were performed in this reporting month at the nominated construction channel (MUP05). It was noticed that muddy water has been reported repeatedly in previous inspections after rainstorm, the contractor has been reminded to carry out routine inspection/maintenance for all of the de-silting facilities within the site to ensure their effectiveness and prevent muddy water entering lower stream.
- ES.06 No written or verbal complaint, notification of summons or successful prosecution was received (written or verbal) for each media during the Reporting Period. No adverse environmental impacts were observed during the weekly site inspection and environmental audit which indicated that the implemented mitigation measures for air quality, construction noise, water quality and ecology were effective. Minor deficiencies found during the weekly site inspection were in general rectified within the specified deadlines. The environmental performance of the Project was therefore considered satisfactory.
- ES.07 As dry season has come, dust control measures to avoid dust emissions should be properly provided and maintained, as appropriate. The contractor is reminded that mitigation measures for dust emission should therefore be fully implemented.
- ES.08 In addition, attention should also be paid to water quality, ecology as well as noise impact during the construction work progress, and with other environmental issues identified in the EM&A Manual. Mitigation measures recommended in the Environmental Study Report (ESR) and summarized in Mitigation Measure Implementation Schedule should continually be applied.

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1. INTRODUCTION

The Chiu Hing Construction & Transportation Company Limited (CHCT) was appointed by the Drainage Services Department (DSD) to perform a contract – Contract No. DC/2007/08 *Drainage Improvement Works at Tai Po Tin, Ping Che, Man Uk Pin and Lin Ma Hang* (the Project). Total construction time is approximately 32 months.

The Project involves construction of various river channels: some classified as Designated Project (DP) and some Non-designated Project (Non-DP) under the Environmental Impact Assessment Ordinance (Cap. 499), as summarized in *Table 1-1*.

 Table 1-1
 Summary of the Channels under the Project

Channel ID	Location	Designated / Non-Designated
TKL02	Tai Po Tin	Non-Designated
TKL07	Ping Che / Ta Kwu Ling	Non-Designated
MUP01		Non-Designated
MUP02		Non-Designated
MUP03A and MUP03B	Man Uk Pin	Designated (EP277/2007/A)
MUP04A and MUP04B		Designated (EP277/2007/A)
MUP05		Designated (EP277/2007/A)
LMH01 Lin Ma Hang		Designated (EP277/2007/A)

This is the **20th** monthly report covering data from **26 September to 25 October 2010** to present the monitoring results of air quality, construction noise, water quality and ecology for the Designated Project of Channels MUP03A&B, MUP04A&B, MUP05 and LMH01 under the Environmental Monitoring & Audit Manual [*382486/73//Issue2*]. A set of location plans showing all DP works covered in this report are illustrated in *Appendix A*. Details of EM&A requirements for the Designated Project are summarized below:

- (a) Channel MUP03A&B NA
- (b) Channel MUP04A&B the scope of environmental monitoring includes construction noise, air quality and water quality
- (c) Channel MUP05 the scope of environmental monitoring includes construction noise, air quality, water quality and ecology
- (d) Channel LMH01 the scope of environmental monitoring includes construction noise, air quality, water quality and ecology

It has been agreed among the Engineer's Representative (ER), the Independent Environmental Checker (IEC), the Contractor (CHCT), the Environmental Team (ET) and the Environmental Protection Department (EPD) that 25th of each month is the cut-off day of each reporting month. Data collected after the 26th of every month will be reported in the next issue.

1.1 **REPORT STRUCTURE**

This report has been written in accordance with the requirements set out in the *Environmental Monitoring and Audit Manual* (the EM&A Manual) with the following structure:

- Section 1 Introduction
- Section 2 Basic Project Information
- Section 3 Environmental status
- Section 4 Summary of Impact EM&A Requirements
- Section 5 Impact Monitoring Results
- Section 6 Report on Non-Compliance (NC), Complaint, Notification of Summons (NOS) and Successful prosecution
- Section 7 Conclusions and Recommendations

2. BASIC PROJECT INFORMATION

2.1 PROJECT ORGANIZATION

The organization chart and lines of communication with respect to the on-site environmental management and the management structure are shown in *Appendix B*.

2.2 MASTER CONSTRUCTION PROGRAM FOR THE PROJECT

The master construction program of the Project is shown in *Appendix C*. Environmental mitigation measures implemented are shown in *Appendix C*.

2.3 WORKS UNDERTAKEN DURING THE REPORTING MONTH

During this reporting month, the construction work undertaken at the designated work areas is listed as follows:

Channel

Construction Work Activities
 Survey setting out

MUP03A&B, MUP04A&B; and MUP05

- Construction of site access
- Site clearance
- Construction of retaining wall, access ramps and gabion wall
- Tree transplant

LMH01

Not yet commenced

Future construction works is provided in Appendix C.

3. ENVIRONMENTAL STATUS

3.1 WORK UNDERTAKEN DURING THE MONTH WITH ILLUSTRATIONS

In this reporting month, the construction work was undertaken at Channels MUP03A&B, MUP04A&B and MUP05. All proposed construction channels are located at Man Uk Pin. The environmental mitigation Implement is shown in *Table 3-1*.

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Environmental Mitigation Measures Undertake in the Reporting Month

0	-	-
Location	Construction Activities	Environmental Mitigation Measures to be deployed
MUP03A&B, MUP04A&B and MUP05	Survey setting out	 Trees will be properly protected before works commenced.
	Construction of site access	 Excavated area and stockpile of soil material will be dampened/covered before dispose off-site
	Site clearance	 Water spraying will be provided before and during handling of excavated material.
	Construction of access ramp, retaining wall and gabion wall	 Excavated area and stockpile of soil material will be dampened/covered before dispose off-site Water spraying will be provided before and during handling of excavated material. Retained tree will be properly protected before works commenced
	Tree transplant	 Excavated area and stockpile of C&D material will be dampened/covered before dispose off-site Retained tree will be properly protected before works commenced.

3.2 IMPLEMENTATION OF ENVIRONMENTAL PROTECTION AND POLLUTION CONTROL

The implementation of environmental protection and pollution control/mitigation measures as recommended in the EM&A Manual or ES is shown in *Appendix C*.

A summary status of the permits, licences, and/or notifications on environmental protection for this Project in this reporting month is presented in *Table 3-2*.

 Table 3-2
 Status of Environmental Licenses and Permits

Item	Item Description	Permit Status
1	Environmental Permit No.EP277/2007/A	Issued on 1 Dec 2009
2	Air Pollution Control (Construction Dust)	Notification to EPD on 27/12/2007
3	Chemical Waste Producer Registration	
	• 5213-652-C3251-04	Valid date: 23 July 2008
	• 5213-652-C3251-05	Valid date: 15 August 2008
4	Water Pollution Control (Discharge license)	
	• W5/1G34/1	Expiry date: 31 August 2013
	• W5/1G35/1	Expiry date: 31 August 2013
	• W5/1I324/1	Expiry date: 31 August 2013
	• W5/1I325/1	Expiry date: 31 August 2013
5	Account for Disposal of Construction Waste No. 7006522	Valid date: 9 January 2008
6	Construction Noise Permit	Nil

4. SUMMARY OF IMPACT MONITORING REQUIREMENTS

Environmental monitoring and audit for air quality, noise, water quality and ecology have been recommended in the EM&A Manual. They are summarized below.

4.1 MONITORING PARAMETERS

The monitoring parameters are summarized in Table 4-1.

Summary of Monitoring Parameters

Environmental Issue	Parameters			
Air Quality		 1-hour Total Suspended Particulate (1-hour TSP); and 24-hour Total Suspended Particulate (24-hour TSP) 		
Construction Noise	normal working houA-weighted equival	 A-weighted equivalent continuous sound pressure level (30min) (Leq(30min)) during the normal working hours; and A-weighted equivalent continuous sound pressure level (5min) (Leq(5min)) for construction work during the Restricted Hours 		
Water Quality	 In-situ temperature, dissolved oxygen (DO), dissolved oxygen satural pH value, water depth, temperature & turbidity Laboratory Analysis 			
Ecology	MUP05 and LMH01	 The stream conditions monitoring (in-situ measurements of DO, pH and turbidity; laboratory testing of SS); General site audit to reporting the mitigation measures are properly implemented during the construction phase 		

4.2 MONITORING LOCATIONS

4.2.1 Monitoring Locations Proposed in the EM&A manuals

Monitoring locations have been identified in the EM&A Manual. They are shown in *Appendix D* and summarized in *Table 4-2*.

Table 4-2Monitoring Locations Proposed in the EM&A Manuals

Issue	Channel	Sensitive Receiver	Monitoring Location ID	Detailed Address	
	MUP04A	MUP04A-2	MUP-A3	Village house near Loi Tung	
Air	MUP05	MUP05-2 (same as MUP01/02-1)	MUP-A1 (same as MUP01/02-A1)	Village north of Loi Tung (same as Village house at Man Uk Pin)	
	MUP05	MUP05-4	MUP-A2a#	Village north of Loi Tung	
	MUP04A	MUP04A-2	MUP-N4	Village house near Loi Tung	
	MUP05	MUP05-2 (same as MUP01/02-1)	MUP-N1 (same as MUP01/02-N1)	Village north of Loi Tung (same as Village house at Man Uk Pin)	
	MUP05	MUP05-4	MUP-N2	Village north of Loi Tung	
Noise		MUP05-6	MUP-N3	Village north of Loi Tung	
NOISe		LMH01-1		Villago of Lin Ma Hang(* Domark: Mobile station	
		LMH01-2		Village of Lin Ma Hang(* <i>Remark: Mobile station</i> subject to the location of the construction works to be measured at Sensitive Receiver LMH01-1 or	
	LMH01	LMH01-3			
		LMH01-4		LMH01-2 or LMH01-3 or LMH01-4 or LMH01-5)	
		LMH01-5			
	MUP04A	Control Station	MUP-W3	Upstream of MUP04A works	
		Control Station	MUP-W1 (same as MUP01/02-W1)	Upstream of MUP01 works	
		Control Station	MUP-W2 (same as MUP01/02-W2)	Upstream of MUP02 works	
Water	Water MUP05	Impact Station	MUP-W4	Downstream of MUP05 works immediately at the discharge point to River Indus	
		Temporary / Mobile Station	MUP-W5	Within MUP05, downstream of the discharge point of MUP01/02 and upstream of the discharge point of MUP04A	
		Temporary / Mobile Station	MUP-W6	Within MUP05, downstream of the discharge point of MUP01/02 and MUP04A	

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Issue	Channel	Sensitive Receiver	Monitoring Location ID	Detailed Address		
		Control Station	LMH-W1	Upstream of LMH01 works		
		Control Station	LMH-W2	Upstream of LMH01 works		
		Impact Station	LMH-W3	Downstream of all LMH01 works immediately at the discharge point to Shenzhen River		
Water	LMH01	LMH01 Temporary / Mobile Station	LMH-W4	Upstream and downstream of particular group of LMH01 works		
		Temporary / Mobile Station	LMH-W5	Upstream and downstream of particular group of LMH01 works		
		Temporary / Mobile Station	LMH-W6	Upstream and downstream of particular group of LMH01 works		
	MUP05	Water Quality of Str	eam	Upstream and downstream of Construction site		
	and	General Site audi	t (with emphasis on	Along stream channel, within 100m upstream and		
Ecology	LMH01	ecological mitigation measures)		downstream of construction site		
	LMH01	Surveys of fish species		Along stream channel, within 100m upstream and downstream of construction site		

[#] Access to the original air quality monitoring location MUP-A2 has been denied. The nearby air quality sensitive receiver MUP05-4 is recommended to be the replacement of the denied MUP-A2 and named MUP-A2a for ease of reference.

4.3 MONITORING FREQUENCY

The impact monitoring should be conducted during the construction activities pass through the contract period to ensure the ambient environmental conditions compliance with the environmental performance criteria i.e. Action and Limit Levels for the Project. The impact monitoring frequency specified in the EM&A Manual is summarized below.

Air Quality

Parameters:	24-hour TSP and 1-hour TSP.
Frequency:	Once every 6 days for 24-hour TSP & three times every 6 days for 1-hour TSP.
Duration:	During the course of construction works

Construction Noise

Parameters:	Leq(30 min) in six consecutive Leq(5 min) measurements.
Frequency:	Once a week during 0700-1900 on normal weekdays:
Duration:	During the course of construction works

Water Quality

Parameters:	Duplicate in-situ measurements of water depth, temperature, DO, pH & turbidity;
	and laboratory testing of SS. Relevant data will also be measured time of
	sampling, DO Saturation, weather conditions and special phenomena.
Depths:	All measurements will be carried out at three water depths, namely, 1 m below
	water surface, mid-water depth, and 1 m above river bed. If the water depth is
	less than 6 m, the mid-depth measurement will be omitted. If the depth is less
	than 3 m, only the mid-depth measurement will be taken.
Frequency:	3 days a week with an interval of at least 36 hours between two consecutive
	sampling days
Duration:	During the construction period of the channel works

Ecology

According to the EM&A Manual [*382486/73/lssue2*], ecology monitoring is only performed at the Channels MUP05 and LMH01 during the construction phase, the monitoring requirements are listed as following:

Parameters:

- (a) General site audit with emphasis on ecology mitigation measure;
- (ii) Water quality of stream (DO, pH, turbidity and SS); and
- (iii) Survey of fish species, which is only requested at Channel LMH01

Frequency:

- (b) Once a week for general site audit throughout the construction period;
- (ii) Three times per week for stream monitoring; and
- (iii) Once per week for survey of fish species.

Duration:

Throughout the whole construction period

4.4 MONITORING EQUIPMENT

The monitoring equipment for air quality, construction noise, stream water quality and ecology are summarized below.

4.4.1 Air Quality

A list of air quality monitoring equipments is shown in *Table 4-3*.

Table 4-3 Air Quality Monitoring Equipment

Equipment	Model
24-hour TSP	
High Volume Air Sampler (herein after 'HVS')	Grasby Anderson GMWS 2310 HVS
Calibration Kit	TISCH Model TE-5025A
1-hour TSP	
Portable Dust Meter	TSI DustTrak Model 8520

4.4.2 Construction Noise

A list of construction noise monitoring equipments is shown in Table 4-4.

Table 4-4 Construction Noise Monitoring Equipment

Equipment	Model
Integrating Sound Level Meter	B&K Type 2236
Calibrator	B&K Type 4231
Portable Wind Speed Indicator	Testo Anemometer

4.4.3 Water Quality

Monitoring Equipment for water quality are shown in *Table 4-5*.

Table 4-5

Water Quality Monitoring Equipment

Equipment	Model / Description			
In-situ Measurement				
Water Depth Detector	Eagle Sonar or steel ruler			
Water Sampler	Teflon bailer / bucket			
Thermometer & DO meter	YSI Multimeter			
pH meter	Extech pH EC 500			
Turbidimeter	Hach 2100p			
Sample Container	High density polythene bottles (provided by laboratory)			
Storage Container	'Willow' 33-litter plastic cool box			
Laboratory Analysis				
Suspended Solids	HOKLAS accredited Laboratory			

4.4.4 Equipment Calibration

The calibrations certificate of all monitoring equipment are used during the impact monitoring program are attached in *Appendix E* and the calibration requirement are described in below:

<u>Air Quality</u>

The calibration of the HVS is performed at a two month intervals in accordance with the manufacturer's instruction using the NIST-certified standard calibrator (Tisch Calibration Kit Model No.TE-5025A). The calibration data are properly documented and the associated records are maintained by the ET for future reference.

The 1-hour TSP meter is calibrated at a year intervals in accordance with the in-house method. Zero response of the equipment is checked before and after each monitoring event.

<u>Noise</u>

The sound level meters are calibrated using an acoustic calibrator prior to and after spot checking measurements. The meters are regularly calibrated by HOKLAS accredited laboratory. Prior to and following each noise measurement, the accuracy of the sound level meter is checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements are considered valid only if the calibration levels before and after the noise measurement agree to within 1.0 dB

Water Quality

In-situ monitoring instruments are calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme at 3 monthly intervals.

4.4.5 Ecology

The following equipment will be used for monitoring:-

- General: field note books and survey forms, digital camera; and
- Binoculars (7-10x and 8 x 30 magnification);

4.4.6 Others EM&A Requirement

Landscape & Visual and Cultural Heritage impact monitoring are also required for the Designated Project and stipulated in EM&A manual [382486/73//Issue2] Section 7 and Section 8 accordingly

Landscape & Visual

Landscape and visual mitigation measures should be implemented during construction phase according to the EM&A Manual. The construction phase landscape and visual EM&A shall be carried out as part of the site audit program. Site inspection will be undertaken at least once every two weeks throughout the construction period.

Cultural Heritage

Cultural heritage of the Terrance Wall (AAHB-855) at Lin Ma Hang (LMH01) is required to be carried out during the construction phase in accordance with the EM&A Manual [382486/73//Issue2].

4.5 MONITORING PROCEDURE

The monitoring methodology and procedure during the impact monitoring are presented as below:

4.5.1 Air Quality

<u>1-hour TSP</u>

Operation of the 1-hour TSP meter is follow manufacturer's Operation and Service Manual. The 1-hour TSP monitor, a TSI Dust Track Aerosol Monitor Model 8520, or Sibata LD-3 Laser Dust Meter is a portable, battery-operated laser photometer. The 1-hour TSP meter provides a real time 1-hour TSP measurement based on 90⁰ light scattering. The 1-hour TSP monitor consists of the following:

- A pump to draw sample aerosol through the optic chamber where TSP is measured;
- A sheath air system to isolate the aerosol in the chamber to keep the optics clean for maximum reliability; and
- A built-in data logger compatible with Windows based program to facilitate data collection, analysis and reporting.

The 1-hour TSP meter using was within the valid period, calibrated by the manufacturer prior to purchasing. Zero response of the instrument was checked before and after each monitoring event.

<u> 24 –hour TSP</u>

The equipment used for 24-hour TSP measurement is the HVS brand named Thermo Andersen, Model GS2310 TSP high volume air sampling system, which complied with EPA Code of Federal Regulation, Appendix B to Part 50. The HVS consists of the following:

- An anodized aluminum shelter;
- A 8"x10" stainless steel filter holder;

- A blower motor assembly;
- A continuous flow/pressure recorder;
- A motor speed-voltage control/elapsed time indicator;
- A 6-day mechanical timer, and
- A power supply of 220v/50 Hz

The HVS is calibrated prior the impact monitoring to following the manufacturer's instruction using the NIST-certified standard calibrator brand named Tisch Calibration Kit Model TE-5028A. Regular HVS operation and maintenance as well as filter paper installation and collection was performed by the ET's competent technicians, whereas laboratory analyses were conducted in a local HOKLAS accredited laboratory, ALS Technichem (HK) Pty Ltd (hereinafter 'ALS'). The analyzed 24-hour TSP filters were kept in ALS for six months prior to disposal.

Meteorological Information

All relevant data including temperature, pressure, weather conditions, elapsed-time meter reading for the start and stop of the sampler, identification and weight of the filter paper is recorded in detail.

Meteorological information is sourced from the Hong Kong Observatory (Ta Kwu Ling Station). The data included wind direction, wind speed, humidity, rainfall, air pressure and temperature etc that in general is required for evaluating the air quality for air quality monitoring.

4.5.2 Construction Noise

Sound level meters listed above comply with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications, as recommended in Technical Memorandum BE issued under the Noise Control Ordinance (NCO).

All noise measurements are performed with the meter set to FAST response and on the A-weighted equivalent continuous sound pressure level (Leq). Leq(30min) measurements are used as the monitoring parameter for the time period throughout the construction phase.

The sound level meter is set higher than 1.2m above the existing ground. The microphone is pointed to the site with the microphone facing perpendicular to the line of sight. The windshield is fitted for all measurements. The measurement point at impact locations is normally set close to the exterior of the building.

Immediately prior to and following each noise measurement the accuracy of the sound level meter is checked using an acoustic calibrator generating a known sound pressure level at a known frequency (94dBA). Measurements are accepted as valid due to the calibration levels from before and after the noise measurement agree to within 1.0dB.

4.5.3 Water Quality

Water quality monitoring is conducted at the middle of the water columns (Mid-Depth) due to water columns at all sampling locations are less than 3.0 meters during monitoring.

Water Depth

Water depths are determined prior to measurement and sampling. A steel ruler with a suitable weight was dropped to the bottom of the water column to measure the water depth which is actually well below 1 meter.

Dissolved Oxygen (DO)

A portable Extech Instrument, ExStik^R DO600 DO Meter is used for in-situ DO measurement. The DO meter is capable of measuring DO in the range of 0 - 20 mg/L and 0 - 200 % saturation and checked against water saturated ambient air on each monitoring day prior to monitoring.

Although the DO Meter automatically compensates ambient water temperature to a standard temperature of 20[°]C for ease of comparison of the data under the changing reality, the temperature readings of the DO Meter is recorded.

<u>рН</u>

A portable Extech Instrument, $ExStik^{TM}$ Models pH EC 500 or a Hanna HI98107 pH Meter is used for in-situ pH measurement. The pH meter is capable of measuring pH in the range of 0 – 14 and readable to 0.1. Standard buffer solutions of pH 7 and pH 10 are used for calibration of the instrument before and after measurement.

Turbidity

A portable Hach 2100p turbidity Meter is used for in-situ turbidity measurement. The turbidity meter is capable of measuring turbidity in the range of 0 - 1000 NTU.

Suspended Solids (SS)

SS is determined by ALS using HOKLAS accredited analytical methods namely ALS Method EA-025. The limit of report is 2mg/L

Water Sampler

Water samples are collected by the ET using a plastic sampler to avoid metal contamination. Due to water depth for both sampling locations are lesser than 0.5m, a cleaned plastic beaker is used for sample collection. The sampler is rinsed before collection with the sample to be taken. 1,000mL water sample is collected from depth for laboratory analyses.

Sample Container

Water samples are contained in screw-cap PE (Poly-Ethylene) bottles as provided by ALS. The PE bottles are pretreated by laboratory in accordance with the corresponding analytical requirements of HOKLAS. Where appropriate, the sampling bottles are rinsed with the water to be contained. Water sample is transferred from the sampler to the sample bottles to 95% bottle capacity to allow possible volume expansion during delivery and storage.

Sample Storage and delivery

A 'Willow' 33-liter plastic cool box packed with ice is used to preserve the collected water samples prior to arrival at the laboratory. The temperature of the cool box is maintained as close to 4⁰C as possible without being frozen. Samples are delivered to the laboratory end of sampling day or following day within the maximum storage time requirement.

Chemical Analysis

ALS Technichem (HK) Pty Ltd (HOKLAS No. 66) is appointed by ET to provide analytical services for this project. The analysis of suspended solids is carried out to follow the APHA Standard Methods for the Examination of Water and Wastewater 19ed 2540D. The sample preparation and analysis under the QA/QC control is follow the HOKLAS QA/QC requirements and undertaken by the laboratory.

4.5.4 Ecology

Weekly site audit covering the whole assessment area is conducted during the construction work at Channels MUP05 and LMH01, focusing on the status/condition of the study area and its immediate vicinity, especially those sensitive habitats that have been identified in the ESR and/or habitats of conservation importance as stated in the EIAO TM.

Any changes found during the site audit have been marked and reported in the Monthly EM&A Report, and for those changes will be predicted to possibly or probably have had an impact on flora and fauna distribution or numbers should be highlighted in the Monthly EM&A report.

Ecology of water quality monitoring at the stream as requested to undertake in upstream and downstream of construction site Channels MUP05 and LMH01. The location of monitoring stations and requirements are same as the Water Quality Monitoring at the Channels MUP05 and LMH01. The procedure of water monitoring is same as the Water Quality monitoring.

4.6 Environmental Quality Performance Limits

Baseline EM&A monitoring was carried out from17 September to 13 October 2008, and ecological baseline monitoring for the habitat updating was performed on 16 September 2008 in accordance with the EM&A Manuals requirements. A summary of Action/Limit (A/L) Levels for air quality, construction noise, stream water quality, ecology and Landscape & Visual are shown in **Tables 4-6**, **4-7**, **4-8**, **4-9** and **4-10** respectively.

Table 4-6 Action and Limit Levels for Air Quality

Monitoring Station	Action Lev	vel (μg /m³)	Limit Level (µg/m³)		
Monitoring Station	1-hour TSP	24-hour TSP	1-hour TSP	24-hour TSP	
MUP-A1	>307	>156	> 500	> 260	
MUP-A2a	>300	>149	> 500	> 260	
MUP-A3	>299	>150	> 500	> 260	

Table 4-7

Action and Limit Levels for Construction Noise

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

Note: * Reduces to 70 dB(A) for schools and 65 dB(A) during the school examination periods.

Table 4-8

Action and Limit Levels for Water Quality

Monitoring Location		DO (mg/L)		Turbidity (NTU)		pH (Unit)		SS (mg/L)	
ID	Station Type	Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level
MUP-W1	Control	NA	NA	NA	NA	NA	NA	NA	NA
MUP-W2	Control	NA	NA	NA	NA	NA	NA	NA	NA
MUP-W3	Control	NA	NA	NA	NA	NA	NA	NA	NA
MUP-W4	Impact	5.27	5.18	18.03	24.81	6.5 – 8.5	6.0 – 9.0	15.8	17.6
MUP-W5	Mobile	4.42	4.37	7.88	8.54	6.5 – 8.5	6.0 – 9.0	6.0	6.0
MUP-W6	Mobile	4.54	4.51	11.81	14.84	6.5 – 8.5	6.0 – 9.0	3.9	4.8
LMH-W1	Control	NA	NA	NA	NA	NA	NA	NA	NA
LMH-W2	Control	NA	NA	NA	NA	NA	NA	NA	NA
LMH-W3	Impact	3.96	3.62	11.31	12.10	6.5 – 8.5	6.0 – 9.0	8.8	10.6
LMH-W4	Mobile	4.34	3.98	5.33	5.95	6.5 – 8.5	6.0 – 9.0	3.0	3.0
LMH-W5	Mobile	2.14	2.07	31.46	35.33	6.5 – 8.5	6.0 – 9.0	25.0	29.8
LMH-W6	Mobile	2.67	2.65	12.32	13.02	6.5 – 8.5	6.0 – 9.0	4.8	6.6

Note: - For DO, non-compliance of water quality limits occurs when monitoring result is lower than the limits.

- For SS and turbidity, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

- For pH, non-compliance of water quality limits occurs when monitoring result is exceeded the range of limits.

Table 4-9 Action and Limit Levels for Ecology in Construction Phase at Channels MUP05 and LMH01

Parameter	Action Level	Limit Level
 Any construction works do not cause adverse ecological impacts outside the work site of Channels Where natural banks are to be retained are protected from adverse effects of engineering works, including impacts to riparian vegetation along these banks The existing natural stream channel is protected from adverse effect of engineering works, including potential indirect impacts through increased sedimentation Rock/fines used to form the bottom of the widened channel have the appropriate physical characteristics to permit reestablishment of semi-natural stream conditions The recommended mitigation measures are properly implemented by the Contractor 	Non- conformity on one occasion	Repeated Non- conformity



Table 4-10 Action Level for Landscape and Visual Impact in Construction Phase

Parameter	Action Level	Limit Level
Any trespass by the contractor outside the limit of the works,	Non-conformity	Repeated non-
including any damage to existing trees, woodland and vegetation	on one occasion	conformity

4.7 EVENT AND ACTION PLANS

An Event Action Plan for air quality, construction noise, water quality and ecology has been implemented for this designated project. Details of the Event Action Plan are presented in *Appendix F*.

4.8 Environmental Mitigation Measures

The project ESR has recommended environmental mitigation measures to minimize potential environmental impacts arising from the construction of the project. A full list of the mitigation measures is detailed in *Appendix C*.

4.9 DATA MANAGEMENT AND DATA QA/QC CONTROL

The impact monitoring data is handled by the ET's systematic data recording and management, which complies with an in-house certified (ISO 9001:2000) Quality Management System. Standard Field Data Sheets (FDS) are used in the EM&A program.

The monitoring data recorded in the equipment e.g. 1-hour TSP meters and noise meters are downloaded directly at the end of each monitoring day. The downloaded monitoring data are input into a computerized database properly maintained by the ET. The laboratory results are input directly into the computerized database and QA/QC checked by personnel other than those who input the data.

For monitoring activities which require laboratory analysis, the responsible laboratory, ALS, follows the QA/QC requirements as set out under their HOKLAS scheme for all laboratory testing.

5. IMPACT MONITORING RESULTS

In this reporting month, construction works and environmental monitoring had started at Channels MUP03A&B, MUP04A&B and MUP05 located in Man Uk Pin. No impact monitoring has yet been undertaken at Channel LMH01 due to no construction activities during the month. In the future when the EM&A programme will cover all four channels once works in Channel LMH01 start.

The scheduled impact monitoring in this month is shown in *Appendix G* and the monitoring results are detailed in the following sub-sections. The meteorological data during the Reporting Period are summarized in *Appendix J*.

5.1 AIR QUALITY

According to the EM&A Manual, air monitoring is only required to conduct at Channels MUP04A and MUP05 during the construction phase. In this repoting period, the results of impact air quality monitoring for 24-hour and 1-hour TSP are summarized in **Tables 5-1** and **5-2**. The detailed 24-hour TSP monitoring data are shown in **Appendix H** and the graphic plots are shown in **Appendix I**.

Table 5-1												
	MUP-A1 (MUP05))	MUP-A2a (MUP05)				MUP-A3 (MUP04A)			
Date	Start	Mea	asurem	ent	Start	Μ	easurem	ent	Start	Me	asurem	ent
	Time	1 st	2 nd	3 rd	Time	1 st	2 nd	3 rd	Time	1 st	2 nd	3 rd
27-Sep-10	13:53	79	81	77	13:29	76	79	73	13:41	78	81	75
2-Oct-10	13:47	81	84	78	13:27	74	76	72	13:37	82	84	80
8-Oct-10	13:54	83	85	80	13:28	86	89	83	13:41	88	90	86
14-Oct-10	13:53	83	86	81	13:29	86	88	83	13:40	79	83	76
20-Oct-10	13:48	82	86	79	13:19	83	86	81	13:37	85	87	83
Average	82			81			82					
(range)		(77 –	86)		(72 – 89)			(75 – 90)				

Table 5-1 Summary of 1-hour TSP Monitoring Results (µg/m³)

Table 5-2 Summary of 24-hour TSP Monitoring Results (µg/m³)

	<u> </u>	0 10 1	
Date	MUP-A1 (MUP05)	MUP-A2a (MUP05)	MUP-A3 (MUP04A)
2-Oct-10	44	power failure#	15
7-Oct-10	80	power failure#	46
13-Oct-10	37	122	26
19-Oct-10	67	101	69
25-Oct-10	55	68	power failure#
Average	57	97	39
(range)	(37 - 80)	(68 - 122)	(15 – 69)

Power failure and no make up of lost samples.

As shown in **Tables 5-1** and **5-2**, there was no exceedance recorded during this reporting period. Besides, there were total 3 power failures incident recorded at Location MUP-A2a and MUP-A3. We have liaised with the Contractor to rectify the power supply as soon as possible.

5.2 CONSTRUCTION NOISE

According to the EM&A Manual, noise monitoring is only required to perform at Channels MUP04A and MUP05 during the construction phase. All noise monitoring results are summarized in **Tables 5-3** to **5-6** and graphic plot are shown in **Appendix I**.

Date	Start Time	1 st Leq5	2 nd Leq5	3 rd Leq5	4 th Leq5	5 th Leq5	6 th Leq5	Leq30 dB(A)
27-Sep-10	15:58	66.4	67.0	66.8	66.9	67.1	66.7	66.8
2-Oct-10	18:19	62.9	63.6	63.4	63.4	62.7	63.0	63.2
8-Oct-10	16:09	64.7	64.4	64.2	64.2	64.8	63.9	64.4
14-Oct-10	14:56	66.7	65.9	65.3	65.3	66.1	66.2	65.9
20-Oct-10	15:56	68.2	67.4	67.2	67.8	67.6	68.1	67.7
Limit Level (Leq30)		75 dB(A)					

Table 5-4

Results of Construction Noise Monitoring at Channels MUP-N2 (MUP05)

Date	Start Time	1 st Leq5	2 nd Leq5	3 rd Leq5	4 th Leq5	5 th Leq5	6 th Leq5	Leq30 dB(A)	
27-Sep-10	14:09	68.1	67.4	67.9	67.3	67.6	67.7	67.7	
2-Oct-10	16:29	64.4	65.6	64.3	64.9	64.8	64.6	64.8	
8-Oct-10	13:57	66.4	65.7	66.1	65.7	66.2	66.3	66.1	
14-Oct-10	13:02	65.4	66.7	66.1	65.8	65.9	66.1	66.0	
20-Oct-10	13:51	67.2	66.4	66.9	66.5	66.7	66.5	66.7	
Limit Level (Leq30)		75 dB(A)						

Table 5-5

Results of Construction Noise Monitoring at Channels MUP-N3 (MUP05)

Date	Start Time	1 st Leq5	2 nd Leq5	3 rd Leq5	4 th Leq5	5 th Leq5	6 th Leq5	Leq30 dB(A)
27-Sep-10	15:20	70.4	69.7	69.9	70.1	70.3	70.1	70.1
2-Oct-10	17:41	69.7	68.4	67.9	68.9	67.9	69.4	68.8
8-Oct-10	15:17	69.2	70.4	70.1	70.9	69.9	69.7	70.1
14-Oct-10	14:13	70.2	69.7	69.9	70.6	70.1	70.3	70.1
20-Oct-10	15:11	69.7	70.4	70.1	70.5	70.9	70.5	70.4
Limit Level (Leq30)		75 dB(A)					

Table 5-6

Results of Construction Noise Monitoring at Channels MUP-N4 (MUP04A)

Date	Start Time	1 st Leq5	2 nd Leq5	3 rd Leq5	4 th Leq5	5 th Leq5	6 th Leq5	Leq30 dB(A)
27-Sep-10	14:43	65.6	65.9	64.8	65.7	64.6	64.8	65.3
2-Oct-10	17:09	63.9	64.6	6.8	64.1	64.4	64.2	63.5
8-Oct-10	14:39	65.6	64.3	65.1	64.8	65.7	65.2	65.1
14-Oct-10	13:37	67.4	67.1	66.8	66.5	66.7	66.7	66.9
20-Oct-10	14:37	63.9	64.7	63.6	64.2	64.1	64.2	64.1
Limit Level (Leq30)		75 dB(A)					

As shown in **Tables 5-3** to **5-6**, the construction noise levels fluctuated well below the Limit Level. No documented complaints against the construction noise were registered during the Reporting Period. No NOE or corrective actions were therefore required for the parameter

5.3 WATER QUALITY

In this reporting month, a total of 13 sampling days were performed for stream water quality monitoring according to the EM&A Manual requirements. Detailed in-situ measurements and laboratory results are shown in **Appendix H** and graphic plots given in **Appendix I**.

There was no exceedance recorded in the reporting period. No associated corrective actions were therefore required. A summary of exceedances in this reporting month is provided in *Table 5-7* below:

1			,			,					
Station	DO		0	Turbidity		pH Value		SS		Total Exceedance	
Station		Action	Limit	Action	Limit	Action	Limit	Action	Limit	Action	Limit
MUP-W4	(a)	0	0	0	0	0	0	0	0	0	0
MUP-W5	(b)	0	0	0	0	0	0	0	0	0	0
MUP-W6	(b)	0	0	0	0	0	0	0	0	0	0
Exceedance	es	0	0	0	0	0	0	0	0	0	0

Table 5-7	Summary	of Stream	Water Oual	ity Exceedances
	ounnury	or ou cum		

For pH measurements, the results shown that the range of pH unit was within 6.90 - 7.45 and within the lower or upper bounds of Action Limit Level.

5.4 ECOLOGY

According to the EM&A Manual [382486/73//Issue2], ecology monitoring is required for Channels MUP05 and LMH01 during the construction phase. In this reporting period, the construction works of Channels MUP05 has already been commenced on 10 March 2009. However construction works in Channel LHM01 has not yet started. So ecology monitoring was only undertaken for Channel MUP05 only. Once construction activities at Channel LMH01 start, ecology monitoring of the stream water will immediately take place.

In this reporting month, four site visits were carried out on 30 September 2010, 7 October 2010, 14 October 2010 and 22 October 2010 by an ecological specialist. No non-compliance was observed during the auditing period and all of the mitigation measures were found properly implemented. Moreover, the outlet of a drainge-pipe was found bypassing the temporary sedimentation tank on 7 October 2010 and the contractor has been reminded to review the temporary drainage measures to ensure that no contaminated water will enter the water bodies.

The detailed findings are listed in the table below and the checklists are attached in *Appendix L*.

Table 5-8Summary of Defects and Deficiencies Identified and Follow-up Actions and
Remedies Taken

Date of Audit	Defects and Deficiencies Identified	Recommendation	Follow-up Actions and Remedies Taken
30 September 2010		The mitigation measures were found properly implemented	
7 October 2010	Drainage pipe outlet was found bypassing the sedimentation tank.	To review the temporary drainage measures as such to ensure no contaminated water will enter the water bodies	Under review
14 October 2010		The mitigation measures were found properly implemented	
22 October 2010		The mitigation measures were found properly implemented	

5.5 OTHER FACTORS INFLUENCING THE MONITORING RESULTS

There were no other noticeable external factors generally affecting the monitoring results in this reporting month.

5.6 QA/QC RESULTS AND DETECTION LIMITS Not applicable.

- 6. REPORT ON NON-COMPLIANCE, COMPLAINT, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTION
- 6.1 RECORD OF NON-COMPLIANCE OF ACTION AND LIMIT LEVELS

No Action or Limit Level exceedance was identified for air quality and construction noise monitoring as well as stream water quality in this reporting month. No associated corrective actions were therefore required.

- 6.2 ENVIRONMENTAL COMPLAINTS No written or verbal complaints were received (written or verbal) for each medium during the Reporting Period.
- 6.3 RECORD OF NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTION No notification of summons or successful prosecutions was recorded during the Reporting Period.
- 6.4 REVIEW OF REASONS FOR AND IMPLICATION OF NON-COMPLIANCE, COMPLAINT AND NOTICE OF SUMMONS No non-compliance, complaint or Notice of Summons was received in this reporting month.
- 6.5 DESCRIPTION OF FOLLOW-UP ACTIONS TAKEN It follows from **Sections 6.1** and **6.4** that no follow-up actions were necessary.
- 6.6 OTHERS

6.6.1 Solid and Liquid Waste Management Status

The quantity of waste for disposal or reuse is summarized in **Tables 6-1** and **6-2**. The monthly summary of waste flow table is shown in **Appendix M**.

Table 6-1 Summary of Quantities of Waste for Disposal

Type of Waste	Quantity	Disposal Location
C&D Materials (Inert) (in '000m ³)	-	Tuen Mun 38 Fill Bank
	0.83	Reused in other Projects
C&D Materials (Non-Inert) (in '000m ³)	0	NENT
Chemical Waste (in '000kg)	0.02	NA
General Refuse (in '000m ³)	0	NA

Table 6-2

Summary of Quantities of Waste for Reuse/Recycling

Type of Waste	Quantity	Disposal Location
Metals for Recycling (in '000kg)	0.2	NA
Paper for Recycling (in '000kg)	0	NA
Plastics for Recycling (in '000kg)	0	NA

There was no known site effluent discharged but it was assumed that an estimated volume of $50m^3$ of waste water was discharged in this reporting month.

6.6.2 Site Inspection and Environmental Audit

A total of 4 weekly environmental site inspection and audit were conducted jointly by the ER, EO and ET during the Reporting Period on **30 September**, **8**, **14 and 21 October 2010** and there was also an IEC audit undertaken on **14 October 2010**. No adverse environmental impacts were observed which indicated that the mitigation measures implemented were effective. Minor deficiencies found in the site inspections and audit was promptly rectified within the specified deadlines. Findings of the site inspection and environmental audit are summarized below. Performa of the weekly ET site inspection and audit activities are presented in *Appendix K*.

Table 6-3 Summary of Findings of Site Inspection and Environmental Audit

	Summary of Finanges of Site inspection and Environmental Addit	
Date	Findings / Deficiencies	Follow-Up Status
30 th September	 Scattered of C&D waste and general refuse were observed, housekeeping on site should be improved (TKL 02) Dry wheel-washing facility was observed, the contractor was reminded to keep water in the facility to maintain its function. (MUP 04) 	The deficiencies have been improved during site inspection on 8 th October 2010
8 th October 2010	 The ponding water was observed, the contractor was reminded to apply Larvidical oil to prevent mosquito breeding and implement relative desilting facilities, such as set up gabion prior discharge to eliminate the SS content (MUP05) As a general reminder, the contractor should keep the haul road wet to minimize dust nuisance. 	The deficiencies have been improved during site inspection on 14 th October 2010
14 th October 2010	 Dry haul road was observed, water spraying should be applied more frequently. The contractor was reminded to maintain the haul road is moist. (TKL 02) Retained tree without protection was observed in the site area, the contractor was reminded to provide proper protection. (MUP05) 	The deficiencies have been improved during site inspection on 21 st October 2010
21 st October 2010	 The C&D material scattered on the site including the chemical containers and lids should be tidied up and fenced off properly. (TKL02) As a general reminder, the debris of tree trunk or branch was observed near road side of the site, the contractor was reminded to clear the debris to maintain the site tidiness. (MUP05) 	The deficiencies have been improved during site inspection on 27 th October 2010

6.6.3 Works to be undertaken in the Forth-Coming Month

Works to be undertaken next month are shown in the construction program enclosed in *Appendix* **C**. In addition, the activities undertaken in the Reporting Period including construction, preparation and site clearance activities will also continue in the future. They are summarized below:

The forthcoming activities in the next two months:

- (a) Survey setting out;
- (b) Tree transplant;
- (c) Construction of access ramp, retaining wall and gabion wall;
- (d) Site clearance;
- (e) Construction of site access

6.6.4 Future Key Issues and Mitigation Measures for the Forth-Coming Month

As dry season is approaching, dust control measures to avoid dust emissions should be properly provided and maintained, as appropriate.

Although wet season has essentially gone, the water implemented mitigation measures such as sand bags downstream of the excavation site should be maintained as necessary as preventative measures. Mitigation measures for air and water quality should therefore be properly maintained and improved as necessary. Temporary drainage plans should be implemented ahead.

Attention should also be paid to construction noise and other environmental issues identified in the

EM&A Manual. Mitigation measures recommended in the ESR and summarized in Mitigation Measure Implementation Schedule should be fully implemented.

7 CONCLUSIONS AND RECOMMENDATIONS

This is the **20th** monthly EM&A Report for Channels MUP03A&B, MUP04A&B, MUP05 and LMH01 - Designated Project, covering a period from **26 September** to **25 October 2010**.

There was no exceedance for air quality, construction noise as well as stream water quality in this reporting month. No associated corrective actions were therefore required.

No written or verbal complaints, notifications of summons or successful prosecutions were received during the Reporting Period. No adverse environmental impacts were observed during the weekly site inspection and environmental audit, which indicated that the implemented mitigation measures for air quality, construction noise and water quality were effective. A few minor deficiencies found in the weekly site inspection and they were rectified within the specified deadlines. The environmental performance of the Project was therefore considered satisfactory.

As dry season has come, dust control measures to avoid dust emissions should be properly provided and maintained, as appropriate.

Attention should also be paid to construction noise and other environmental issues identified in the EM&A Manual. Other mitigation measures recommended in the ESR and summarized in Mitigation Measure Implementation Schedule should be fully implemented.

Although wet season has essentially gone, the water implemented mitigation measures such as sand bags downstream of the excavation site should be maintained and improved as necessary as preventative measures.

Impact monitoring should be immediately undertaken upon the construction works commencement at Channel LMH01 and will be reported in the coming month.

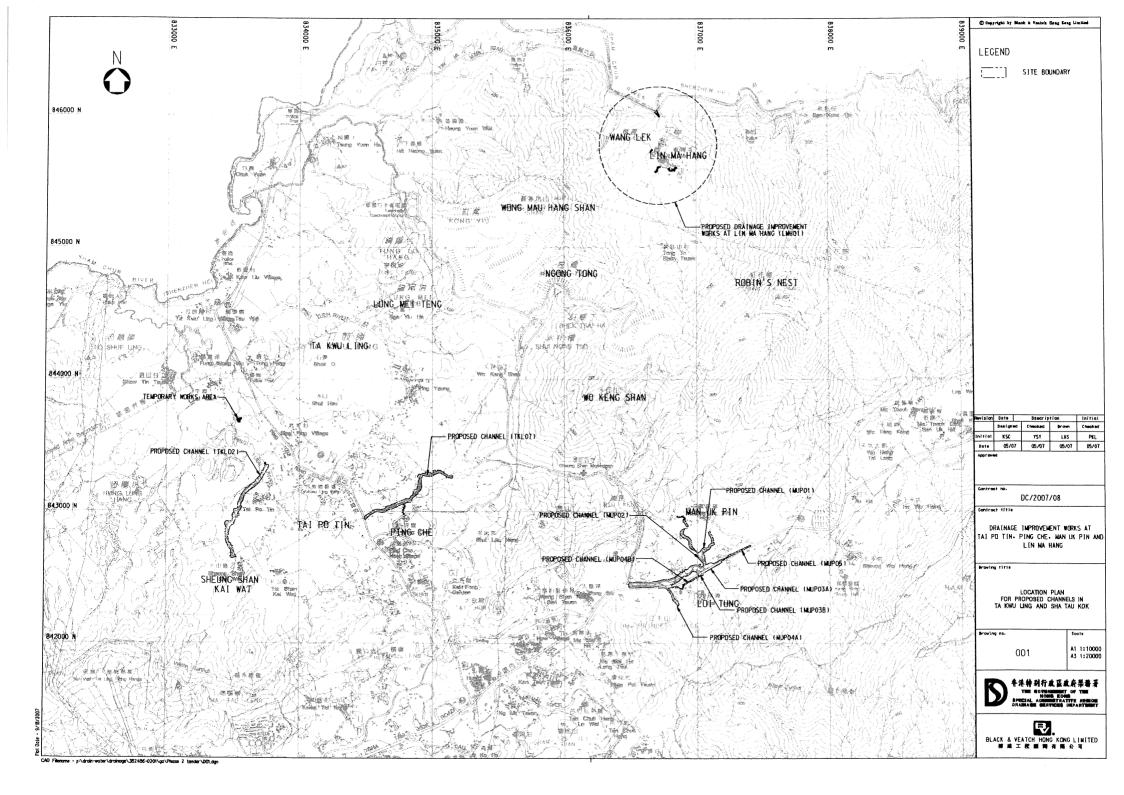
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Appendix A

Site Location Plan

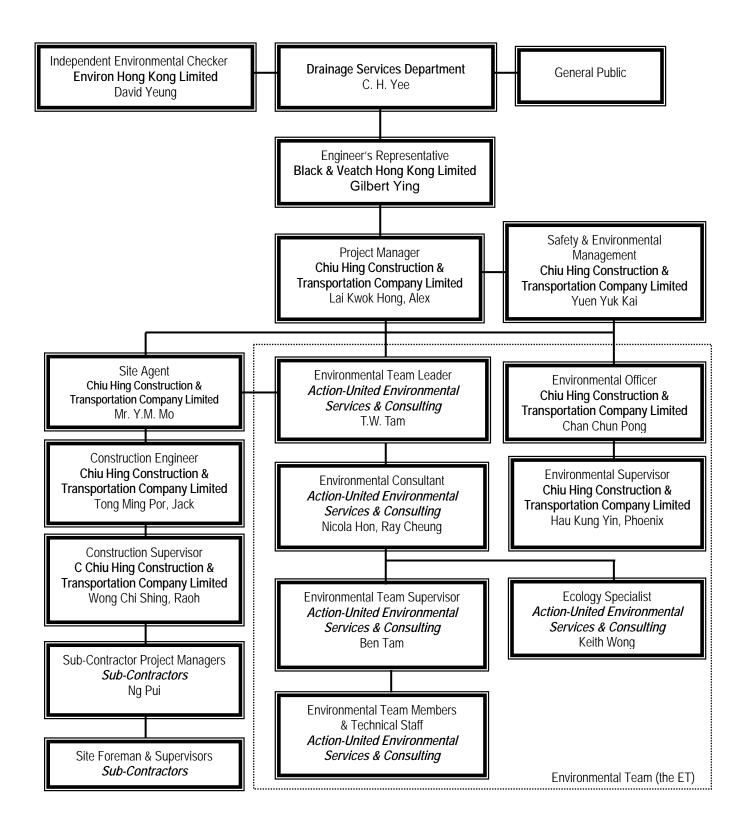
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Appendix B

Environmental Management Organization and Contacts of Key Personnel



Environmental Management Organization

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Contact Details of Key Personnel

Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
DSD	Employer	Mr. C. H. Yee	2594-7347	2827-8700
B&V	Engineer's Representative	Mr. Gilbert Ying	2659-8787	2659-8323
Environ	Independent Environmental Checker	Mr. David Yeung	3743-0788	3548-6988
СНСТ	Project Manager	Mr. Lai Kwok Hong, Alex	2659-8221	2659-8232
СНСТ	Safety & Environmental Manager	Mr. Yuen Yuk Kai	2659-8221	2659-8232
СНСТ	Site Agent	Mr. Y.M. Mo	2659-8221	2659-8232
СНСТ	Construction Engineer	Mr. Tong Ming Por, Jacky	2659-8221	2659-8232
СНСТ	Construction Supervisor	Mr. Roah Wong	2659-8221	2659-8232
СНСТ	Structural Engineer	Mr. Kwok Chin Ming	2659-8221	2659-8232
СНСТ	Site Forman	Mr. Chung Ping Kai	2659-8221	2659-8232
СНСТ	Environmental Officer	Mr. C. P. Chan	2659-8221	2659-8232
СНСТ	Environmental Supervisor	Miss Phoenix Hau	2659-8221	2659-8232
Kin Tat	Sub-contractor Project Manager	Mr. Ng Pui	2659-8221	2659-8232
AUES	Environmental Team Leader	Mr. T.W. Tam	2959-6059	2959-6079
AUES	Environmental Consultant	Miss Nicola Hon	2959-6059	2959-6079
AUES	Assistant Environmental Consultant	Mr Ray Cheung	2959-6059	2959-6079
AUES	Environmental Team Supervisor	Mr. Ben Tam	2959-6059	2959-6079
AUES	Ecologist	Dr. Keith Wong	2959-6059	2959-6079

Legends:

DSD	(Employer) – Drainage Services Department
B&V	(Engineer) – Black & Veatch Hong Kong Limited
CHCT	(Main Contractor) – Chiu Hing Construction & Transportation Company Limited
Environ	(IEC) – Environ Hong Kong Limited
AUES	(ET) – Action-United Environmental Services & Consulting

Appendix C

Master Construction Program Future Construction Works & Environmental Mitigation Implementation Schedule

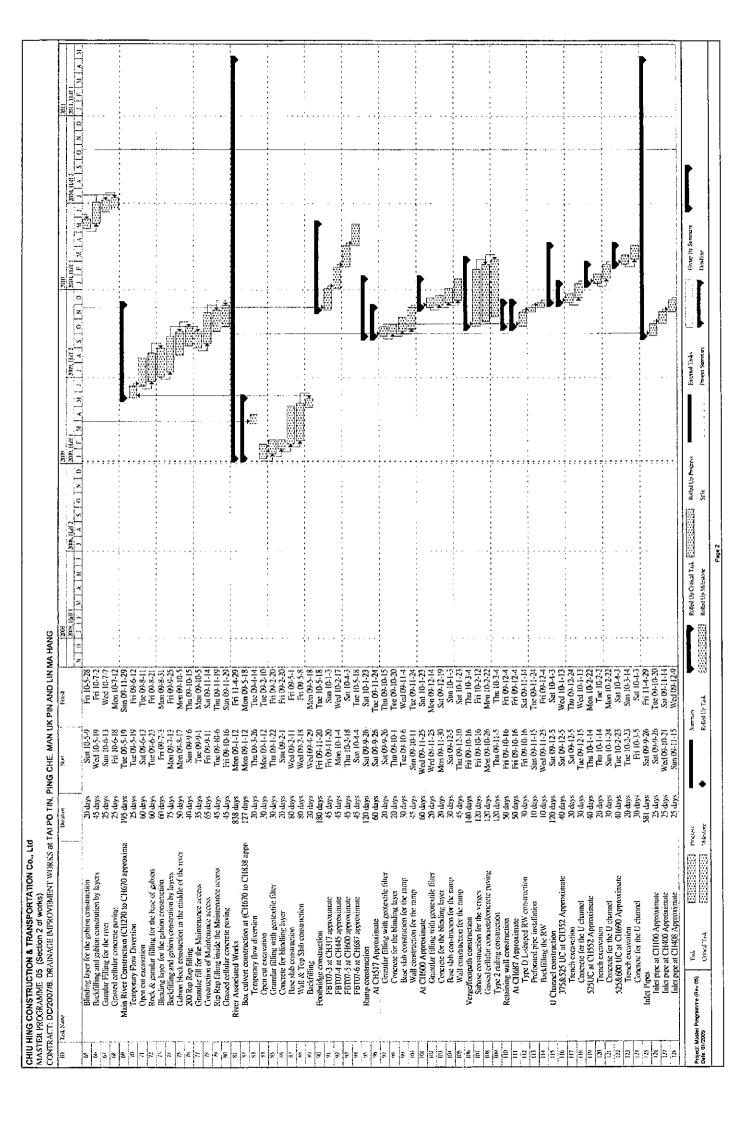


Master Construction Program

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7 Baseline Monitoring	180 days	Wed 08-4-30	Sun 08-10-26	
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Of Reduction Color Name Nam Name Name		onstruction (CI1270 to CH670 approximate)	270 days	Sun 5/4/09	Wed 30/12/09	
contained contained <thcontained< th=""> <thcontained< th=""> <thc< td=""><td></td><td>y Flow Diversion</td><td>25 days</td><td>Sun S/409</td><td>WOR 29/4/04</td><td></td></thc<></thcontained<></thcontained<>		y Flow Diversion	25 days	Sun S/409	WOR 29/4/04	
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action Control Control <t< td=""><td>T</td><td>statut titing the pass of gamma</td><td>80 days</td><td>Wed 20/5/02</td><td>Fri 7/8/09</td><td>. 2</td></t<>	T	statut titing the pass of gamma	80 days	Wed 20/5/02	Fri 7/8/09	. 2
dot multic of (1c norm 0.00 min 3000	T	and gabion constrution by layers	130 days	Sur 30/5/09	Tuc 6/10/09	
ID ID<		xis constaction in the middle of the river	50 days	Fri 28/8/09	Fii 16/10/09	
(1) (1) <td></td> <td>ap filling</td> <td>60 days</td> <td>Fin 28/8/09</td> <td>Mon 26/10/09</td> <td>2.2</td>		ap filling	60 days	Fin 28/8/09	Mon 26/10/09	2.2
International constraints In		fill for the Maritenance access	60 days	Tue 18/8/09	Fin 16/10/09	
Intelligence Constrained (intelligence) Constrained (intelligence) <thconstrained (intelligence) Constrained (i</thconstrained 		on of Maintenuese access	110 days	ADVANT ILI	SUNTING THE	22
and Wei ent contruction at Cl(65 to Cl(73 approximate) ent contruction at Cl(65 to Cl(73 approximate) and fragment fr		situng maade the manuemance access Mular concerns maving	SO dave	Wed 11/11/09	Wed 30/12/09	
ert construction at CL(655 to CL(775 approximate) 20 days 20 d	Rivi	ted Works	856 days	Thu 28/8/08	Fri 31/12/10	0
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All The exercision All	-	ocrary flow diversion	10 days	1 hu 25/05/08	Fire SUIZUS	
core for binding layer Ind The 10/126 The 12/1266 The 12/1266 A to g Sile constraction 0 days Fra 30/136 Fra 30/136 Fra 30/136 A for g Sile constraction 0 days Fra 30/136 Fra 30/136 Fra 30/136 A for g Sile constraction 0 days Fra 30/136 Fra 30/136 Fra 30/136 A for sole constraction 0 days Fra 30/136 Fra 30/136 Fra 30/136 A constraction 10 days Fra 10/130 Fra 30/136 Fra 30/136 A constraction 10 days Fra 10/130 Fra 30/136 Fra 30/136 A constraction 10 days Fra 10/130 Fra 30/136 Fra 30/136 A constraction 10 days Fra 10/130 Fra 30/136 Fra 30/136 A constraction 20 days Mon 50/100 Fra 30/130 Fra 30/136 A constraction 20 days Mon 50/100 Fra 30/130 Fra 30/130 A constraction 20 days Mon 50/100 Fra 30/130 Fra 30/130 A constraction 20 days Mon		the convertor dar filling with geotestile filter	30 days	Sun 16/11/08	Mon 15/12/08	
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attention att (S10) (Fi - 31/12)0 (Fi - 31/12)0 <td></td> <td> Lop Stab construction Minue </td> <td>AS days</td> <td>Sun 1/309</td> <td>Tue 14/4/09</td> <td></td>		 Lop Stab construction Minue 	AS days	Sun 1/309	Tue 14/4/09	
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And Control Control <thcontrol< th=""> <thcontrol< th=""> <thcontr< td=""><td></td><td>otary flow directsion</td><td>10 days</td><td>Sat 1/5/10</td><td></td><td></td></thcontr<></thcontrol<></thcontrol<>		otary flow directsion	10 days	Sat 1/5/10		
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Ath contraction 0 days Wed (#010) Mon (#1102) Emission Emission <themission< th=""> Emission Emission<td></td><td>the future with governments</td><td>21 days</td><td>Wed 18/8/10</td><td>Tue 1/9/10</td><td></td></themission<>		the future with governments	21 days	Wed 18/8/10	Tue 1/9/10	
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matrix matrix<		siling	65 days	OLAN 22/11/2	Wed 1477/10	
OT-1 al C14/15 approximate 30 data Weil 4200 Thus 5300 TO 4 al C14/15 approximate 30 data Fri 6700 Xur 400 TO 5 al C1600 approximate 30 data Fri 6700 Xur 400 TO 5 al C1600 approximate 30 data Fri 6700 Xur 400 TO 1 al C115 approximate 30 data Fri 6700 Xur 400 TO 1 al C115 approximate 30 data Fri 16000 Wei 17/100 2151 Approximate 271 data St 17000 The 67/10 2153 Approximate 213 data St 17000 The 17100 2153 Approximate 0 data Wei 157/10 Fri 17200 2163 Approximate 0 data Wei 157/10 Fri 17200 218 A	Loop	ge construction VL3 = CH317 approximate	30 days	Mon 5/1/09	Tue 3/2/09	
107.5 at C1(600 approximate 30 days Fin (500) Sia (4000) 107.4 at C1268 approximate 30 days Fin (500) Wei (400) 107.4 at C1268 approximate 30 days Fin (500) Wei (400) 107.4 at C1268 approximate 30 days Fin (500) Wei (400) 107.4 at C1268 approximate 30 days Fin (500) Wei (400) 107.4 at C1268 approximate 30 days Fin (500) Wei (400) 1017.4 at C1268 approximate 30 days Fin (500) Wei (400) 1016 Approximate 0.0 days Sia (100) Fin (1120) C1517 Approximate 0.0 days Nei (1910) Sin (1120) C1600 Approximate 0.0 days Fin (570) Mei (1710) C181 Approximate 0.0 days Fin (570) Mei (570) C181 Approximate 176 days Fin (570) Mei (570) C181 Approximate 178 days Fin (570) Mei (570) Sa days Fin (570) Sa 650) Sa 650) Sa c1 (112 Approximate 20 days		TL-4 at CH445 approximate	30 days	Wed 4/2/09	Thu 5/3/09	
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Dirac Example Station Fin 160/10 Wei 10/10 11.4 CLUS depromate 01.4 CLUS deprovement 01.4 CLUS deprovem		77-6 at CH687 approximate	30 days	Sun 5/4/09	MON2/12 mol	8.8
and method of a starting of a startig of a starting of a starting of a starting of a starti		of real and units of approximate	100 days	Fn 16/4/10	Wed M/7/10	
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CLIST Approximate Code Value		4435. Approximate	60 days	Thu 15/10/09	Sun (13/12/0)	5 G G G
Table Table The 8/010 The 8/		EISIT Approximate	60 days	Sal 3/10/09	NOTIN IN S	5.5
ootpath construction 170 days That 157/10 Fri 31/12/10 Fri 31/12/10 oue construction for the verget. 145 days That 157/10 Kri 31/12/10 Kri 31/12/10 out ordination for the verget. 145 days That 157/10 Kri 31/12/10 Kri 31/12/10 out ordination for the verget. 145 days That 157/10 Kri 31/12/10 Kri 31/12/10 out of chilar construction 18 days Mon 168/10 Tha 11/2/10 Kri 31/12/10 op and construction 280 days Tha 21/5/09 Sat 62/10 Sat 62/10 CHIS to CHI 105 Approximate 200 days Tha 21/5/09 Sat 62/10 Sat 62/10 Tak External Antacon 200 days Tha 21/5/09 Sat 62/10 Sat 62/10 Tak External Antacon 200 days Tha 21/5/09 Sat 62/10 Sat 62/10 Tak External Antacon External Antacon External Antacon Sat 62/10		rrown Approximate 33 Approximate	solution 00	The sulfil	Tue 6/7/10	
aue contraction for the regea. 145 days Thu 1577(10 Moo 6/210) 2010 2010 2010 2010 2010 2010 2010	Ven	otpath construction	170 days	Thu 15/7/10	Fri 31/12/10	01)
Add Construction L3 days Ann (0.98/10) L3 Lip		se construction for the verges	145 days	Thu 15/7/10	Mon 6/12/10	
ar wall construction CH55 to CH 105 Approximate The 21/500 Star 6/2/10 The 21/500 Star 6/2/2/20 The 21/500 Star 6/2/20 The 21/500 Star 6/20 The		est centurar construction paveille 2 railine construction	138 days	Mon 16/8/10	Fri 31/12/10	
CH35 to CH1 (05 Approximate 290 days Tha 21/509 Sat 62/10 Type D1 - shared RW construction 200 days Tha 21/509 Sat 62/10 That External Type D1 - shared RW construction 200 days That 21/509 Sat 62/10 Task External Type D1 - shared RW construction Sammay External Type D1 - shared Type D1 - shared RW construction External Type D1 - shared RW construction	Retu	t wall construction	290 days	Thu 21/5/09	Sat 6/3/10	0
Tak Estimation for the formula formula for the formula for the formula for the formula for the formula	ALC	THIS to CH 105 Approximate	290 days	Thu 21/5/09	Sat 6/3/10 Sun 6/12/09	0
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			Spienter c. (Xarber C.) November Nov
Backfilling the RW 90 days 7	Mon 7/12/09	Sat 6/3/10	
128 U. Charnel construction 80 days Firi 8 272.8255 f 1/2 or 714557 Americanda 70 days Set 16	Fri 8/10/10	Sun 26/12/10	
Trench excavation 20 days	Sat 16/10/10	Thu 4/11/10	
Concrete for the U channel 60 days	Tue 26/10/10	Fri 24/12/10	
525UC at CH552 Approximate 55 days	Mon 25/10/10	Sat 18/12/10	
133 174 174 174 174 174 174 17 174 17	The A11/10	Sar 15/12/10	
525&600 UC at CH690 Approximate 80 days		Sun 26/12/10	
Trench excavation 20 days		Wed 27/10/10	
Concrete for the U channel 70 days	Mon 18/10/10	Sun 26/12/10	
		Sar 31/10/09	
Infect pipe at CHM00 Approximate 25 days		Wed 25/11/09	
Infer pipe at CT1408 Approximate 25 days		Sun 20/12/09	
Inlier pipe at CH450 Approximate 25 days	on 21/12/09	Thu 14/1/10	
Inlet pipe at CEIS70 Approximate 25 days	True 00000	Mon 8/2/10	
	Sat 6/3/10	Tue 30/3/10	
14/ Section 3 - Man Uk Fone (Portion D & E) [305 days Well 3	Wed 30/4/08	Thu 23/2/12	
Commencement Date 0 days	Wed 30/A/08	Wed 30/4/08	
Handover of Portion D 0 days	Wed 30/1/08	Wed 30/1/08	
300 days	Wed 30/4/08	Mon 23/2/09	
Hatching Momiltoning Modelisation 30 days	Tue 29/7/08	Wed 27/8/08	
Site clearance 30 days	Thu 28/8/08	Pri 26/9/08	
Initial site survey 30 days	Sat 27/9/08	Sun 26/10/08	
120 If the survey an user in an u	San 27/9/06	Thu 16/10/08	
Remove and Transplant the trees X0 days	Thu 19/6/08	FH 1877/08	
Underground Utility Survey	Sul 27/9/08	Mos 23/2/09	
160 River MUPUI (Portion D) 500 days 10c 20 161 Temevery How (Neveran	Tue 24/2/09	Sun 15/309	
Open cut exervation. (20 days	Mon 16/3/09	Mon L3/7/09	
Rock & gamular filling for the base of gabien 120 days	Thu 26/3/09	Thu 23/7/09	
Blinding layer for the gablon construction B -definer and reduce construction by frame	FUNIOS 112	Sun 2/8/09	
400 days S	Sun 1/11/09	Sun 5/12/10	
Subsec construction for the verges 100 days 5	Sun 1/11/09	Mon 8/2/10	
168 Gassed cellular concrete/concrete paying 130 days 1 La 120 Tree-3 milities concrete/concrete paying 130 days 7 Law	Tax 9/2/10	Sun 5/12/10	
300LC construction 120 days M	Mon 19/7/10	Mon 15/11/10	
River MUP02 (Portion D) 445 days	Sun 1/11/09	11/1/61 pam	
Stabilise existing river bank 360 days	Sun 1/11/09	Tue 26/10/10	
	Tue 1/12/09	Sun 20/12/09	
Excavate & erect shoring support 60 days M	Mos 21/12/09	Thu 18/2/10	
Rock & garular litting for the base of gabten	these 2008/00	01/C/61 00/	
1/7 Binding layer for the gathon construction	Sat 19/6/10	Sat 16/10/10 125	
Removal of the sheet piles 10 days 5	Sun 17/10/10	Tue 26/10/10	
MUP02 Bypass 381 days	Mcm 4/1/10	TI/1/61 POM	
181 Temporary Flow Diversion 10 days Mor 182 Down or accountion 00 days Thu	Thu 10/1/10	Tor 13/4/10	
Rock & gamdar filling for the base of gabion 60 days	Wed 14/1/10	Sat 12/6/10	
Blinding layer for the galation construction 21 days	Sun 13/6/10	Sat 3///10	
185 Backfilling and galves constrution by layers our 100 days our two Entition of this bun	Tue 12/10/10	Sat 25/12/10	
Vergefrootpath construction 200 days	Sun 4/7/10	Wed 19/1/11	
to verges 45 days	Sun 4/7/10 Worl 18/8/10	Tue (7/8/10	
VI (2020) CETTURE CONSTRUCTOR CONSTRUCTOR PARTING	ALL 40.401 AM	Contraction (N	
Project. Mater Programme (Rev 10) Lak CONSTINCT Involves Construction	Summary Protect Summary		External Tasks Teachine Teachi

Matrix Matrix<	Unitaria Image				Duration	Start	Finish		
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Observation Open state Open s			T)pc 2 n	ailing construction	65 days	Tue 16/11/10	11/1/61 pay		
constant		16	Main River of M	rUP02	379 days	Sun 1/11/09	Sun 14/11/10 Sat 14/11/09		
Interfaction Open Wild Wild Interfaction 000 5000 5000	Initial classical Open classical Open	- 56	Open cut exca	row Leverston	60 days	Sun 15/11/09	Wed 13/1/10		
Interfactor Option Control Contro Control Control	Interfactor Interfactor <thinterfactor< th=""> <thinterfactor< th=""></thinterfactor<></thinterfactor<>	16	Rock & gamil	dar filling for the base of gabion	60 days	Wei 25/11/09	Sat 23/1/10		
All All <td>And memory mem</td> <td>-9</td> <td>Rinding layo</td> <td>ir for the gabion construction</td> <td>60 days</td> <td>S0/21/2 InS</td> <td>Tue 2/2/10</td> <td></td> <td></td>	And memory mem	-9	Rinding layo	ir for the gabion construction	60 days	S0/21/2 InS	Tue 2/2/10		
Only (a)		8	Backfilling at	and gathon construction by layers	90 days	60/71/51 201	Wed 347410		
Chronic Mathematican Control Mathematican Contrela Contrela Control Mathematican Control Mathematican Control Ma	International Control	16	200 Rip Rap I	CONTRUCTION IN THE INVESTOR OF THE TAKET	30 days	Thu 25/3/10	Fri 23/4/10		
Def Chance Def Chance <thdef chance<="" th=""> Def Chance Def Chan</thdef>		(6	PBM02-1 foo	Abridge at CH 8+455 Approximate	45 days	Sat 24/4/10	Mon 7/6/10		
Contraction Color	Contraction	005	RW type D at	r CH8+525 Approximate	Nutrie OF	Tue 8/6/10	Wed 7/7/10		
at at a model at a	attache attache <t< td=""><td>102</td><td>Verge/footpa</td><td>ath construction continuation for the verses</td><td>200 days 100 days</td><td>01/C/C1 mol/</td><td>Tue 22/6/10</td><td></td><td></td></t<>	102	Verge/footpa	ath construction continuation for the verses	200 days 100 days	01/C/C1 mol/	Tue 22/6/10		
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Constraint Constra	Control Control <t< td=""><td>_</td><td>300 & 375 UC</td><td>C at C118+400 Approximate</td><td>45 days</td><td>Fit 1/10/10</td><td>Sun 14/11/10</td><td></td><td></td></t<>	_	300 & 375 UC	C at C118+400 Approximate	45 days	Fit 1/10/10	Sun 14/11/10		
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Constant	Control Control <t< td=""><td>101</td><td>600mm dia, pipe 6</td><td>construction</td><td>90 days</td><td>FH 31/12/10</td><td>Wed 30/3/11</td><td></td><td></td></t<>	101	600mm dia, pipe 6	construction	90 days	FH 31/12/10	Wed 30/3/11		
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mont mont <th< td=""><td>and influences influences inf</td><td></td><td>Trumorano Flow 1</td><td>tion D)</td><td>20 days</td><td>Thu 25/3/10</td><td>Tue 13/4/10</td><td></td><td></td></th<>	and influences influences inf		Trumorano Flow 1	tion D)	20 days	Thu 25/3/10	Tue 13/4/10		
Click (Click) Click (Click) <thclick (click)<="" th=""> Click (Cl</thclick>	Mark (are in the internet of a procession) Out of a procession of a procession Out of a procession of	11	Open cut excavatu	101	30 days	Wed 14/4/10	Thu 13/5/10		
Click Relation control State	Click relation (constraint) Click relation (constraint) <t< td=""><td>14</td><td>Rock & gamular fi</td><td>filling for the base of gabion</td><td>30 days</td><td>Mon 19/4/10</td><td>Tac 18/5/10</td><td></td><td></td></t<>	14	Rock & gamular fi	filling for the base of gabion	30 days	Mon 19/4/10	Tac 18/5/10		
All All <td>Mathematical control Contro Control Control<td>215</td><td>Blinding layer for</td><td>r the gabion construction</td><td>30 days</td><td>Sat 24/4/10</td><td>Sun 23/5/10</td><td></td><td></td></td>	Mathematical control Contro Control Control <td>215</td> <td>Blinding layer for</td> <td>r the gabion construction</td> <td>30 days</td> <td>Sat 24/4/10</td> <td>Sun 23/5/10</td> <td></td> <td></td>	215	Blinding layer for	r the gabion construction	30 days	Sat 24/4/10	Sun 23/5/10		
mark mark <th< td=""><td>mm mm mm<</td><td>216</td><td>Backfilling and gu</td><td>ablor constration by layers</td><td>57 days</td><td>Thu 29/0/10 Wed 31/3/10</td><td>01/0/2 nat</td><td></td><td></td></th<>	mm mm<	216	Backfilling and gu	ablor constration by layers	57 days	Thu 29/0/10 Wed 31/3/10	01/0/2 nat		
Order of Lie do Appendie Outon (5.900)<	Andle of the Alphonemist Tubble in SAB00 TurbAB00 TurbAB00 <thturab00< th=""> TurbAB00 <tht< td=""><td>- 177</td><td>200 Rin Ran fillin</td><td>TALOCHORY IN 1150 THADAGE OF HER RALE</td><td>45 days</td><td>Sun 20/6/10</td><td>Tue 3/8/10</td><td></td><td></td></tht<></thturab00<>	- 177	200 Rin Ran fillin	TALOCHORY IN 1150 THADAGE OF HER RALE	45 days	Sun 20/6/10	Tue 3/8/10		
Colume Colume<	Colume content Distance Version	613	FBM03-1 footbrid	dge at CH E+60 Approximate	70 days	Fri 25/6/10			
International concentration diffication dif	International and extensional differences Internation differences		1.35m high box cul-	freet crossing construction	(20 days	Wed 29/6/11	11/01/92 Pay		
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Instruction Total Total <thtotal< th=""> Total Total</thtotal<>	Interention Onlog Tur/1010 Mont/101 Mont/101 or Chenden 00 doi: 15 doi: 16 doi:	100	Gassed cellul.	lar concrete/concrete paving	Sol days	Fin 13/8/10	Wed 10/11/01		
Material	Monton (1) Monton(Type 2 rullin	vu construction	70 days	Thu 11/11/10	11/1/61 pow		
Image: constraint of the	International Internat		iver MUP04A (Por	tion D)	701 days	Thu 25/3/10	Thu 23/2/12		
are filling (of e bless of splic) de 6010 Te 7010 <	unified of the fore of galaxie 6 dby (10 km) Te 8000 (10 km) 6 dby (10 km) 1 e 8000 (10 km) 6 dby (10 km) 1 e 8000 (10 km) 6 dby (10 km) 1 e 8000 (10 km) 1 e 80000 (10 km) 1 e 800000000000000000000000000000000000	226	Lemporary Plow	Diversion	symb Ci	114 24 24 10	Mon 7/6/10		
Interference Odo No	Interface Output Statistical Statistical Output	100	Rock & gamular fi	filling for the base of gabion	60 days	Tuc 8/6/10	Fri 6/8/10		
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Table	Interview Galaxy Well S(W) W	325	Construct 4X165	0mm dia, pipes at CH D+185 Approximate	120 days	This 27/10/11	Thu 23/2/12		
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351 River MUIDS (Perion 1) 678 days Mon 12/W10 Sat 18/2/12 254 Main River Construction CH 4-0.00 to C-400 approximate) 345 days Hei 31/12/10 Sat 18/2/12 254 Temporary flow diversion 0.0 days Hei 31/12/10 Sat 18/2/12 Sat 18/2/12 254 Temporary flow diversion 0.0 days Hei 31/12/10 Sat 18/2/12 Sat 18/2/12 254 Open cut cutaration 0.0 days Hei 31/12/10 Sat 23/7/11 Sat 23/7/11 254 Biologing layer filting and gabior constration by layers 200 days Hei 31/12/10 Sat 23/7/11 250 Rote taccoration 100 days Hon 12/4/10 Sat 23/7/11 Sat 23/7/11 250 Biologing layers 100 days Hei 20/711 Sat 23/7/11 Sat 23/7/11 250 Graved certalizer overtacions 100 days Hei 20/711 Sat 23/7/11 Sat 23/7/11 261 Biologing layers 100 days Hei 20/711 Sat 23/7/11 Sat 23/7/11 261 Biologing layers 100 days Hei 20/711 Sat 23/7/11 </th <th>Accentor Sep Accentor Sep Mor 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101</th>	Accentor Sep Accentor Sep Mor 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101
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Environmental Mitigation Implementation Schedule

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APPENDIX A IMPLEMENTATION SCHEDULE OF THE PROPOSED MITIGATION MEASURES

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Table A1 Implementation Schedule of Air Quality Mitigation Measures

EIA Ref	EM&A Ref	Recommended Mitigation Measures	Objectives of the Recommended	Location /	Implementation	Im	plementa Stages*	tion	Relevant
			Measures and Main Concerns to addressed	Timing	Agent	D	C	0	Legislation & Guidelines
Air Q	uality - Co	nstruction Phase				<u> </u>		L	<u> </u>
		Construction Dust					T		l
3.6.1	2.9.2	In order to comply with Air Pollution Control Ordinance (APCO), the Contractor should undertake at all times measures to prevent dust nuisance as a results of his activities. The Contractors are required	To prevent dust nuisance on ASRs during construction	All works site / during construction	Construction Contractor		4		Air Pollution Control Ordinanc Air Pollution
		to follow all the requirements for dust control stipulated in the Air Pollution Control (Construction Dust) Regulation. Dust suppression measures should be installed as part of good construction practice, and							Control (Construction Dust) Regulation
1	l.	they should be incorporated in the Contract Specification and implemented to minimize dust nuisance to within acceptable levels arising from the				i			
		works. The followings are examples of the dust suppression measures.							
		 The area in which excavation takes place shall be sprayed with water immediately prior to, during and immediately after the excavation to minimise dust generation. 				-			
		(ii) The Contractor shall frequently clean and water the site to minimize fugitive dust emissions.							

EIA	EM&A	Dee	ommended Mitigation Measures	Objectives of the Recommended	Location /	Implementation	Imį	olementa Stages*	tion	Relevant
Ref	Ref	Ket		Measures and Main Concerns to addressed	Timing	Agent	D	Ĉ	0	Legislation & Guidelines
		delive simila create	ive water sprays shall be used during the ry and handling of aggregate, and other r materials, when dust is likely to be d and to dampen all stored materials g dry and windy weather.							
		condu	ing of exposed surfaces shall be incred at least 2 times per day especially g dry and windy weather.							
		mover as oft	within the site where there is a regular ment of vehicles must be regularly watered en as necessary for effective suppression st or as often as directed by the Engineer.							
		vehicl transf with a provid this e	e dusty material are being discharged to le from a conveying system at a fixed er point, a three-sided roofed enclosure a flexible curtain across the entry shall be ded. Exhaust fans shall be provided for enclosure and vented to a suitable fabric system.							
		vehic public hour	Contractor shall restrict all motorised les within the site, excluding those on c roads, to a maximum speed of 15 km per and confine haulage and delivery vehicles signated roadways inside the site.							
ĩ		used mud,	el washing facilities shall be installed and by all vehicles leaving the site. No earth, debris, dust and the like shall be deposited ublic roads. Water in the wheel cleaning							

EIA Ref	EM&A Ref	Recommended Mitigation Measures	Objectives of the Recommended	Location /	Implementation	Im	plement Stages		Relevant
		·	Measures and Main Concerns to addressed	Timing	Agent	D	.C	0	- Legislation & Guidelines
		facility shall be changed at frequent intervals and sediments shall be removed regularly. The Contractor shall submit details of proposals for the wheel cleaning facility. Such wheel washing facilities shall be usable prior to any earthworks excavating activity on the site. The Contractor shall also provide a hard-surfaced road between any washing facility and the public road.							
		(ix) All vehicle exhausts should be directly vertically upwards or directed away from the ground.							
		(x) Any materials dropped on paved roads will need to be cleaned up immediately to prevent dust nuisance.							
		Odow [.]					-		
3.6.2	2.9.3	In the event that excavated materials are found to be odourous, the following measures should be implemented by the Contractor.	To prevent odour nuisance on ASRs during construction	All works site / during construction	Construction Contractor		4		Air Pollution Control Ordinanc Environmental
		 Place odorous excavated material as far away (say, at least 20m) from air sensitive receivers as possible. 							Impact Assessmen Ordinance
		(ii) Temporary stockpiles of odorous excavated material should be properly covered with tarpaulin and should be removed off-site as soon as practically possible within 24 hours to							

EIA	EM&A	Recommended Mitigation Measures	Objectives of the Recommended	Location /	Implementation	Imj	plementa Stages*		Relevant Legislation &
Ref	Ref	Accommences (Anglesse (Account)	Measures and Main Concerns to addressed	Timing	Agent	D	C	0	Guidelines
		avoid any odour nuisance arising.							
Air Qı	uality - Ope	erational Phase					······································	T	F
		N/A							

Table A2 Implementation Schedule of Noise Mitigation Measures

EIA Ref	EM&A Ref	Recommended Mitigation Measures	Objectives of the Recommended	Location /	Implementation	Im	plementa Stages*		Relevant
			Measures and Main Concerns to addressed	Timing	Agent	D	D C O		Legislation & Guidelines
Noise - (Constructio	on Phase							
		Level 1 Mitigation – Use of Quiet Plant							
4.6.2 – 4.6.5	Table 3.4	effective ways of alleviating construction noise impact. The Contractor should use quiet plant with sound power level lower than that stipulated in the	To protect NSRs from noise during construction	All works site / during construction	Construction Contractor			:	Environmental Impact Assessmen Ordinance
		TM-GW as the Level 1 mitigation for construction noise. The quiet plant used in the construction noise calculation is shown in Appendix B. The							ETWB TCW No. 19/2005
		Contractor can propose other suitable alternative equipment with similar or lower sound power level.							
		The use of mini or lower power rating equipment (e.g. mini excavator) should also be considered where practical. This technique would be feasible							
		and practical at some locations given the limited space available for using large size construction equipment and the small scale works involved (e.g. localised bank improvement at LMH01, U-channel							
:		and drainage pipes at MUP03 & 04B).		·					
		The contractor should take note of ETWB TCW No. 19/2005 on the use of QPME.							

EIA EM8	8	Objectives of the Recommended	Location /	Implementation	Im	plementa Stages*		Relevant Legislation &
Ref Ref	8	Measures and Main Concerns to addressed	Timing	Agent	D	C	0	Guidelines
	Level 2 Mitigation - Use of Temporary Noise Barriers							
4.6.7 – 4.6.8	3.4 Since most of the NSRs within the Project area are typically low-rise village houses of not more than 3 storeys tall, it would be effective to have noise screening structures or temporary noise barriers purposely-built along the site boundary to provide additional protection to NSRs close to the construction site boundary. This could be in the form of purposely-built site hoarding constructed from appropriate materials with a minimum superficial density of 7 kg/m ² . Noise barrier should be provided for noisy construction activities that would be undertaken close (about 25m or less) to NSRs. With the exception of NSRs MUP04A-2 and MUP05-6, the noise barrier should have a vertical height of at least 2.5 m or (depending on the height of the NSRs to be protected) a height ensuring that the operating equipment can be shielded from the view of the NSRs. For NSR MUP04A-2, the temporary noise barrier should have a minimum height of 3.5m with a small cantilevered upper portion. For MUP05-6, the temporary noise barrier should have a minimum height of 3m with a small cantilevered upper portion. The temporary noise barrier should have no gaps or opening at joints. The Contractor should regularly inspect and maintain the noise	noise during construction	All works site located at 25m or less from NSRs as shown in Figures 4.4 – 4.6 / during construction	Construction Contractor				Environmental Impact Assessment Ordinance

EIA Ref	EM&A Ref	Recommended Mitigation Measures	Objectives of the Recommended	Location /	Implementation	Im	plement Stages ³		Relevant
			Measures and Main Concerns to addressed	Timing	Agent	D	С	0	Legislation & Guidelines
		barrier to ensure its effectiveness.						1	
		For the construction works which have the potential to exceed the noise standards on nearby NSR and whose line of sight cannot be effectively blocked by the temporary noise barrier, movable (mobile) barriers should be provided. Movable barriers of at least 2.5 m height with a small cantilevered upper portion and skid footing can be located within a few meters of stationary plant (e.g. generator, compressor) and within about 5 m or more of a mobile equipment (e.g. excavator, mobile crane), such that the line of sight to the NSR is blocked by the barriers.							
		Good Site Practices							
4.6.11	Table 3.4	In general, potential construction noise impact can be minimised or avoided by imposing a combination of the following good site practices as mitigation measures:	To protect NSRs from noise during construction	All works site / during construction	Construction Contractor	·	4		Environmental Impact Assessmer Ordinance
		(a) Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction period.		· ,· ·	, . 		•	:	
		(b) Construction plant should be sited away from NSRs.							

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ELA	EM&A		Recommended Mitigation Measures	Objectives of the Recommended	Location /	Implementation	Im	plementa Stages*		Relevant
Ref	Ref		Recommended winigation measures	Measures and Main Concerns to addressed	Timing	Agent	D	Ĉ	0	Legislation & Guidelines
ì		(c)	Machines and plant that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum.							
		(d)	Equipment known to emit sound strongly in one direction should be orientated such that the noise is directed away from nearby NSRs.							
		(e)	Material stockpiles and other structures (such as site offices) should be effectively utilised to shield on-site construction activities.							
		(f)	Stationary equipment should be located within the channel when weather conditions permit (e.g. dry season).	× .						
		(g)	The Contractor shall devise, arrange methods of working and carrying out the works in such manner as to minimise noise impacts on the surrounding environment, and shall provide experienced personnel with suitable training to ensure that these measures are implemented properly.	÷						
		(h)	In the event that new schools are built near the works area, the Contractor should minimize construction noise exposure to the schools (especially during examination periods). The Contractor should liaise with the school and the Examination Authority to							

EIA Ref	EM&A Ref	Recommended Mitigation Measures	Objectives of the Recommended	Location /	Implementation	Im	plementa Stages*	tion .	Relevant
			Measures and Main Concerns to addressed	Timing	Agent	D	C	0	Legislation & Guidelines
		ascertain the exact dates and times of all examination periods during the course of the contract and to avoid noisy activities during these periods.							
4.6.13 - 4.6.14	Table 3.4	To adopt good public relation with the local communities and maintain effective communication channel with the public such as setting up a 24-hour hotline system for enquiry and complaint.	To promote good public relation and maintain effective communication during construction	All works site / during construction	Project Office (Engineer) & Construction Contractor		1		Environmental Impact Assessmer Ordinance
4.6.17 & 4.6.18	Table 3.4	Further mitigation by restricting concurrent usage of several equipment at the same time.	To further mitigate construction noise at NSRs MUP04A-2 & MUP04B-2	For works within 20m of NSRs MUP04A-2 & MUP04B-2 / during construction	Construction Contractor		1		Environmental Impact Assessmer Ordinance
4.6.19	Table 3.4	The use of purpose built temporary noise barriers would not be practicable for works at LMH01 as the works are small scale, short duration and within village environs with very limited working space. It may also hamper access causing inconvenience to the villagers. The process of installing and dismantling the noise barriers itself would create additional noise nuisance. The use of light-weight mobile barrier is considered more preferable.	To protect NSRs at LMH01 from noise during construction	All works site located at 25m or less from NSRs as shown in Figure 4.6 / during construction	Construction Contractor		1		Environmental Impact Assessmen Ordinance

EIA	EM&A	Recommended Mitigation Measures	Objectives of the Recommended	Location /	Implementation	Imj	plementa Stages*		Relevant
Ref	Ref		Measures and Main Concerns to addressed	Timing	Agent	D	C	0	Legislation & Guidelines
4.6.20	Table 3.4	Employ quiet working method (e.g. mini-concrete crusher, saw & lift) during demolition works of crossings, restrict concurrent usage of several equipment at the same time such as parking dump truck, concrete lorry mixer outside main village area. The use of dump truck or concrete lorry mixer will be limited to only about 1 trip every few days.	To further mitigate construction noise at NSRs for LMH01	Construction works at LMH01 / during construction	Construction Contractor		~		Environmental Impact Assessment Ordinance
4.8.4	Table 3.4	It is recommended that works programme should be scheduled such that only one crossing is constructed at any one time. Bank improvement work can be conducted concurrently.	To mitigate cumulative noise impact at LMH01	Crossing construction at LMH01 / during construction	Construction Contractor		4		Environmental Impact Assessment Ordinance
4.9.1	3.8.1	The Contractor should design, construct, operate and maintain the mitigation measures throughout the construction stage and as required by the Engineer. Before commencement of the works, the Contractor should submit to the Engineer for approval (as part of their method statement) details of the mitigation measures to be employed under the works. The Contractor's proposed mitigation measures should also be certified by the ET Leader and verified by the IEC to ensure the intended noise reduction effectiveness can be achieved.	To protect NSRs from noise during construction and to ensure the Contractor will properly implement the mitigation measures	All works site / during construction	Construction Contractor		1		Environmental Impact Assessment Ordinance

EM&A Ref	Recommended Mitigation Measures	Objectives of the Recommended	Location /	Implementation	Imj	plementa Stages*	tion	Relevant
		Concerns to addressed	Timing	Agent	D	C	0	Legislation & Guidelines
T								
1	N/A							
	Ref erational I	Ref erational Phase N/A	Ref Recommended Measures and Main Concerns to addressed	Ref Recommended Location / rational Phase Recommended Location /	Ref Location / Measures and Main Concerns to addressed Location / Timing Implementation Agent erational Phase N/A N/A Implementation Agent Implementation Agent	Ref Location / Measures Implementation / Measures and Main Concerns to addressed Implementation / Agent erational Phase N/A N/A Implementation / Concerns to addressed Implementation / D	Ref Indext and Main Concerns to addressed Location / Timing Implementation Agent Stages* erational Phase N/A N/A Implementation Agent Implementation Agent	Ref Implementation Stages* Measures and Main Concerns to addressed Timing Agent D C O

Table A3 Implementation Schedule of Water Quality Mitigation Measures

EIA	EM&A		Objectives of the Recommended	Location /	Implementation	-	lementa Stages*	tion	Relevant Legislation &
Ref	Ref	Recommended Mitigation Measures	Measures and Main Concerns to addressed	Timing	Agent	D	C	0	Guidelines
Water	Quality - (Construction Phase		-					
		General	- -						,
5.6.2	4.9.2	The contractor shall observe and comply with the Water Pollution Control Ordinance (WPCO) and its subsidiary regulations. The contractor shall carry out the works in such a manner as to minimise adverse impacts on the water quality during execution of the works. In particular the contractor shall arrange his method of working to minimise the effects on the water quality within and outside the site and on the transport routes.	To minimize adverse water quality impact during construction	All works site / during construction	Construction Contractor		~		Water Pollution Control Ordinance
5.6.3	4.9.3	The contractor shall follow the practices, and be responsible for the design, construction, operation and maintenance of all the mitigation measures below and as specified in ProPECC PN 1/94 - Construction Site Drainage. In particular, the contractor shall submit and implement an Erosion Control Plan (as part of the Environmental Management Plan) which shall incorporate details of the mitigation measures recommended below to reduce water quality impacts arising from construction works. The design of the mitigation measures and the Plan shall be submitted by the contractor to the Engineer for approval.		All works site / during construction	Construction Contractor		1		ProPECC PN 1/94 ETWB TCW No. 19/2005

EM&A Ref		Objectives of the Recommended Measures and Main Concerns to addressed	Location / n Timing	/ Implementation Agent	<u>5 12 500</u>			Legislation &
		Concerns to addressed	Timing	Agent	D	C	0	Guidelines
	·				•			
4.9.4	Proper construction site drainage management measures shall be implemented to control site runoff and drainage, and thereby prevent high sediment loadings from reaching downstream sections of the river and adjacent agricultural land.	To minimize adverse water quality impact during construction	All works site / during construction	Construction Contractor		V		ProPECC PN 1/9
4.9.5	Turbid water from construction sites must be treated to minimise the solids content before being discharged. Advice on the handling and disposal of site discharge is given in the ProPECC Note PN 1/94 - Construction Site Drainage.	To minimize adverse water quality impact during construction	All works site / during construction	Construction Contractor		4		ProPECC PN 1/94
4.9.6	In general, surface run-off from construction sites should be discharged into waterbodies via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels or earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Perimeter channels at site boundaries should be provided to intercept storm run-off from outside the site so that it will not wash across the site (or into the proposed channel works area). Catchpits and perimeter channels should be constructed in advance of earthworks.	To minimize adverse water quality impact during construction	All works site / during construction	Construction Contractor		1	- - - -	ProPECC PN 1/94
	4.9.4	 Site Surface Runoff 4.9.4 Proper construction site drainage management measures shall be implemented to control site runoff and drainage, and thereby prevent high sediment loadings from reaching downstream sections of the river and adjacent agricultural land. 4.9.5 Turbid water from construction sites must be treated to minimise the solids content before being discharged. Advice on the handling and disposal of site discharge is given in the ProPECC Note PN 1/94 - Construction Site Drainage. 4.9.6 In general, surface run-off from construction sites should be discharged into waterbodies via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels or earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Perimeter channels at site boundaries should be provided to intercept storm run-off from outside the site so that it will not wash across the site (or into the proposed channel works area). Catchpits and perimeter channels should be constructed in 	 4.9.4 Proper construction site drainage management measures shall be implemented to control site runoff and drainage, and thereby prevent high sediment loadings from reaching downstream sections of the river and adjacent agricultural land. 4.9.5 Turbid water from construction sites must be treated to minimise the solids content before being discharged. Advice on the handling and disposal of site discharge is given in the ProPECC Note PN 1/94 - Construction Site Drainage. 4.9.6 In general, surface run-off from construction sites should be discharged into waterbodies via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. 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Advice on the handling and disposal of site discharge is given in the ProPECC Note PN 1/94 - Construction Site Drainage. To minimize adverse water quality impact during construction All works site / during construction 4.9.6 In general, surface run-off from construction sites should be discharged into waterbodies via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels or earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Perimeter channels at site boundaries should be provided to intercept storm run-off from outside the site so that it will not wash across the site (or into the proposed channel works area). Catchpits and perimeter channels should be constructed in All works site / during	Measures and Main Concerns to addressed Timing Agent 4.9.4 Site Surface Runoff To minimize adverse measures shall be implemented to control site runoff and drainage, and thereby prevent high sediment loadings from reaching downstream sections of the river and adjacent agricultural land. To minimize adverse water quality impact during construction All works site / during construction Construction Contractor 4.9.5 Turbid water from construction sites discharged. Advice on the handling and disposal of site discharge is given in the ProPECC Note PN 1/94 - Construction Site Drainage. To minimize adverse water quality impact during construction All works site / during construction Construction Contractor 4.9.6 In general, surface run-off from construction sites should be discharged into waterbodies via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. 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To minimize adverse water quality impact during construction All works site / during construction Construction Contractor 19.5 Turbid water from construction sites must be treated to minimise the solids content before being discharged. Advice on the handling and disposal of site discharge is given in the ProPECC Note PN 1/94 - Construction Site Drainage. To minimize adverse water quality impact during construction All works site / during construction Construction Contractor 4.9.6 In general, surface run-off from construction sites should be discharged into waterbodies via adequately designed sand/silt removal facilities, such as sand traps, silt traps and sediment basins. Channels or earth bunds or sand bag barriers should be provided on site to properly direct stornwater to such silt removal facilities. Perimeter channels at site boundaries should be provided to intercept storm run-off from outside the site so that it will not wash across the site (or into the proposed channel works area). Catchpits and perimeter channels should be constructed in To minimize adverse water quality impact All works site / during construction Construction Contractor	Measures and Main Concerns to addressed Timing Agent D C 4.9.4 Site Surface Runoff Proper construction site drainage management measures shall be implemented to control site runoff and drainage, and thereby prevent high sediment loadings from reaching downstream sections of the river and adjacent agricultural land. To minimize adverse water quality impact during construction All works site / during construction Construction V 19.5 Turbid water from construction sites must be freated to minimise the solids content before being discharged. Advice on the handling and disposal of site discharge is given in the ProPECC Note PN 1/94 - Construction Site Drainage. To minimize adverse water quality impact during construction All works site / during construction Construction Contractor V 4.9.6 In general, surface run-off from construction should be discharged into waterbodies via adequately designed. sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels or earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities Perimeter channels at site boundaries should be provided to intercept storm run-off from outside the site so that it will not wash across the site (or into the proposed channel works area). Catchpits and perimeter channels would be constructed in All works site / during construction Construction Contractor I	Measures and Main Concerns to addressed Timing Agent D C O 4.9.4 Site Surface Runoff Proper construction site drainage management measures shall be implemented to control site runoff and drainage, and thereby prevent high sediment loadings from reaching downstream sections of the river and adjacent agricultural land. To minimize adverse water quality impact during construction All works site / during construction Construction Image: Construction 19.5 Turbid water from construction sites must be treated to minimise the solids content before being discharged. Advice on the handling and disposal of site discharge is given in the ProPECC Note PN 1/94 - Construction Site Drainage. To minimize adverse water quality impact during construction All works site / during construction Construction Image: Construction 4.9.6 In general, surface run-off from construction sites should be discharged into waterbodies via adequately designed. sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels or earth bunds or sand bag barriers should be provided to intercept storm run-off from custide the site so that it will not wash across the site (or into the proposed channel works area). Catchpits and perimeter channels should be constructed in All works site / during construction Construction Image: Construction

EIA	EM&A		Objectives of the Recommended	Location /	Implementation	Imj	plementa Stages*		Relevant
Ref	Ref	Recommended Mitigation Measures	Measures and Main Concerns to addressed	Timing	Agent	D	Ċ	0	Legislation & Guidelines
5.6.7	4.9.7	Silt removal facilities, channels should be maintained and the deposited silt and grit should be removed regularly, at the onset of and after each rainstorm to ensure proper functioning of these facilities at all times.	To minimize adverse water quality impact during construction	All works site / during construction	Construction Contractor				ProPECC PN 1/94
5.6.8	4.9.8	Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into the nearby waterbodies. Open stockpiles susceptible to erosion should be covered with tarpaulin or similar fabric and provided with containment such as bunds, sand bag barriers or equivalent measures, especially during the wet season (April – September) or when heavy rainstorm is predicted. Runoff to watercourses should be reduced by minimising flat exposed areas of permeable soil, and by forming pits or diversion channels into which runoff can flow to suitable treatment facilities before discharge.	To minimize adverse water quality impact during construction	All works site / during construction	Construction Contractor		1		ProPECC PN 1/94
i		De-watering / Excavation of Streams and Removal of Sediment	-						
5.6.9	4.9.9	The use of containment structures such as earth bund or sand bag barriers wrapped with geotextile fabric or similar material or diversion channels is recommended to facilitate a dry or at least confined excavation within watercourses.	To minimize adverse water quality impact during construction	All works site / during construction	Construction Contractor		~		Water Pollution Control Ordinance

EIA Ref	EM&A Ref	Recommended Mitigation Measures	Objectives of the Recommended	Location /	Implementation	Im	plement Stages [*]		Relevant
			Measures and Main Concerns to addressed	Timing	Agent	D	C	0	- Legislation & Guidelines
5.6.10	4.9.10	Excavation works at the existing stream section of MUP05 should be programmed to be carried out during periods of low flow (dry season from 1 st October to 31 st March) to minimise impacts on downstream water quality and sensitive receivers. For the ecologically sensitive stream of LMH01, the restriction period should be further extended for an additional month (i.e. excavation works allowed from 1 st November to 31 st March) to protect the aquatic fauna from silty runoff due to possible heavy rain during the transitional period of the wet / dry seasons.	To minimize adverse water quality impact from excavation works during wet season	MUP05 & LMH01 / during construction	Construction Contractor		1		Water Pollution Control Ordinance
5.6.11	4.9.11	In addition, the excavation works should be carried out in sections to reduce the area of exposed surfaces as described below. For MUP05, the first 300m upstream section will have no restriction. For the remaining sections of MUP05 (within existing stream course), the length would be restricted to 300m at any one time. For MUP04A, a 100m restriction should be imposed for the entire stream works area to cater for potential cumulative impact on MUP05.	Restrict length of excavation work to minimise impacts on downstream water quality and sensitive receivers	MUP05 & MUP04A / during construction	Construction Contractor		1		Water Pollution Control Ordinance
5.6.12	4.9.12	As for LMH01, given its relatively small scale works but sensitive nature of the stream, it is recommended that only either one portion of bank	To minimize adverse water quality impact on LMH01 during	LMH01 / during construction	Construction Contractor		1		Water Pollution Control Ordinance

EIA	EM&A		Objectives of the Recommended	Location /	Implementation	Imj	plementa Stages*		Relevant
Ref	Ref	Recommended Mitigation Measures	Measures and Main Concerns to addressed	Timing	Agent	D	C	0	Legislation & Guidelines
		improvement works or one vehicular crossing reconstruction should be carried out at any one time.	construction						
5.6.14	4.9.14	After dewatering of the streams, the sediments should be allowed to dry before excavation (yet still maintain a moist state to avoid dust nuisance). This will facilitate excavation of the sediments and also minimise the risk of drained water flowing back into watercourses as the sediment is handled. Where time or weather constraints require handling of wet sediment, care should be taken in the removal of sediment and the storage area should be bunded to prevent silty runoff entering watercourses. Given its small quantity, all excavated sediment should be reused on-site as backfilling material.	To minimize adverse water quality impact during construction (in particular when excavating and handling sediments)	All works site where sediment removal is required / during construction	Construction Contractor		1		Water Pollution Control Ordinance
5.6.15	4.9.15	Excavated sediment will likely be temporarily stored on-site for reuse as backfilling material. This should be stored in a bunded area and covered during wet season or when rainstorm is forecasted to avoid inadvertent release of silts and suspended solids to nearby water bodies.	To minimize adverse water quality impact during construction (in particular when excavating and handling sediments)	All works site where sediment removal is required / during construction	Construction Contractor		1		Water Pollution Control Ordinance
5.6.16	4.9.16	Regular monitoring of suspended solids and turbidity should be conducted during excavation works. Any exceedance of water quality in the	To minimize adverse water quality impact during construction	All works site / during construction	Construction Contractor		V		Water Pollution Control Ordinance

EIA Ref	EM&A Ref	Recommended Mitigation Measures	Objectives of the Recommended	Location /	Implementation	Imj	olements Stages*		Relevant
		N .	Measures and Main Concerns to addressed	Timing	Agent	D	C	0	- Legislation & Guidelines
		nearby water bodies caused by inadvertent release of site runoff should be rectified in accordance with EM&A programme for this Project.				•			
		Concreting Work		·					
5.6.17	4.9.17	Runoff should be carefully channelled to prevent concrete-contaminated water from entering watercourses. Adjustment of pH can be achieved by adding a suitable neutralising reagent to wastewater prior to discharge. Re-use of the supernatant from the sediment pits for washing out of concrete lorries should be practised.	To minimize adverse water quality impact during construction (in particular concreting works)	All works site / during construction	Construction Contractor		4		Water Pollution Control Ordinance
5.6.18	4.9.18	Any exceedance of acceptable range of pH levels in the nearby water bodies caused by inadvertent release of site runoff containing concrete should be monitored and rectified under the EM&A programme for this Project.	To minimize adverse water quality impact during construction (in particular concreting works)	All works site / during construction	Construction Contractor		1		Water Pollution Control Ordinance
5.6.19	4.9.19	To protect the sensitive stream of Lin Ma Hang, no concrete should be used during bank improvement works at LMH01.	To minimize adverse water quality impact on LMH01 during construction	LMH01 bank improvement works / during construction	Construction Contractor		1		Environmental Impact Assessment Ordinance
		Site Workshop or Depot					. :		•
5.6.20	4.9.20	Any contractor generating waste oil or other	To minimize adverse	All works site /	Construction		1		Water Pollution

EIA Ref	EM&A Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures and Main	Location / Timing	Implementation Agent	Imj D	olementa Stages* C	Relevant Legislation & Guidelines
ï		chemicals as a result of his activities should register as a chemical waste producer and provide a safe storage area for chemicals on site. The storage site should be located away from existing water courses.	Concerns to addressed water quality impact during construction	during construction	Contractor			Control Ordinance
5.6.21	4.9.21	All compounds in works areas should be located on areas of hard standing with provision of drainage channels and settlement ponds where necessary to allow interception and controlled release of settled/treated water; and provision of bunding for all potentially hazardous materials on site including fuels. Hard standing compounds should drain via an oil interceptor. To prevent spillage of fuels or other chemicals to water courses, all fuel tanks and storage areas should be sited on sealed areas, within a bund of a capacity equal to 110% of the storage capacity of the largest tank. Disposal of the waste oil should be done by a licensed collector. Oil interceptors should be regularly inspected and cleaned to avoid wash-out of oil during storm conditions. A bypass should be provided to avoid overload of the interceptor's capacity. 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.		All works site / during construction	Construction Contractor			Water Pollution Control Ordinance

ELA Ref	EM&A Ref	Recommended Mitigation Measures	Objectives of the Recommended	Location /	Implementation	Implementation Stages*			Relevant
Kei	Rei		Measures and Main Concerns to addressed	Timing	Agent	D	C	0	Legislation & Guidelines
				•					
5.6.22	4.9.22	The contractor should prepare an emergency contingency plan (spill action plan) for the Project to contain and remove all accidental spillage of chemicals and hazardous materials on-site including fuels at short notice and to prevent or minimize the quantities of contaminants entering the stream water and affecting the habitats. The contractor should submit the emergency contingency plan to the ET for review & comment and the engineer for approval.	To prevent or minimize the quantities of contaminants entering the stream water and affecting the habitats in case of accidental spillage of chemicals and hazardous materials	All works site / during construction	Construction Contractor		√		Water Pollution Control Ordinance
5.6.24 î	4.9.24	Presence of Additional Population (Workers) Sewage arising from the additional population of workers on site should be collected in a suitable storage facility, such as portable chemical toilets. An adequate number of portable toilets should be provided for the construction workforce. The portable toilets should be maintained in a state that will not deter the workers from using them. The collected wastewater from sewage facilities must be disposed of properly, in accordance with the WPCO requirements. Wastewater collected should be discharged into foul sewers and collected by licensed collectors.	To minimize adverse water quality impact during construction	All works site / during construction	Construction Contractor		1		ProPECC PN 1/94 Water Pollution Control Ordinance

Table A4 Implementation Schedule of Waste Management Measures

EIA Ref	EM&A Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures and Main	Location / Timing	Implementation	Implementation Stages*			Rélevant Legislation &
			Concerns to addressed	Timing	Agent	D	C	0	Guidelines
Waste	- Construc	tion Phase					J	I	
		General					<u> </u>		l
6.5.2 - 5.5.3	5.1.2 - 5.1.3	Upon appointment, the main contractor of each construction contract should prepare and implement an Environmental Management Plan (EMP) in accordance with ETWB TCW No. 19/2005 – Environmental Management on Construction Sites which should describe the arrangements for avoidance, reuse, recovery, recycling, storage, collection, treatment and disposal of different categories of waste to be generated from the construction activities. Such a management plan should incorporate site specific factors, such as the designation of areas for segregation and temporary storage of reusable and recyclable materials. The EMP should be submitted to the Engineer for approval. The contractor shall implement the waste management practices in the EMP throughout the construction stage of the Project. The EMP should be reviewed regularly and updated (preferably monthly) by the contractor. The EMP should take into account the recommended mitigation measures in the EIA Report. The contractor also should refer to the Construction and Demolition Material Management Plan (C&DMMP) in Appendix D1 (of the EIA) to facilitate him in the preparation of the EMP of the	Waste reduction, reuse, recycling and proper disposal of waste	All works site / during construction	Construction Contractor		4		Waste Disposal Ordinance ETWB TCW No 19/2005
		Contract.							

EIA	EM&A	Recommended Mitigation Measures	Objectives of the Recommended	Location /	Implementation	Im	olementa Stages*	tion	Relevant Legislation &
Ref	Ref		Measures and Main Concerns to addressed	Timing	Agent	Ø	C	0	Guidelines
	5.1.4	Training of construction staff should be undertaken by the contractor about the concept of site cleanliness and appropriate waste management procedures. The contractor should develop and provide toolbox talk for on-site sorting of C&D materials to enhance worker's awareness in handling, sorting, reuse and recycling of C&D materials. Requirements for staff training should be included in the EMP.	Waste reduction, reuse, recycling and proper disposal of waste	All work sites / during construction	Construction Contractor		V		Waste Disposal Ordinance ETWB TCW No. 19/2005
6.5.5	5.1.5	Good planning and site management practice should be employed to eliminate over ordering or mixing of construction materials to reduce wastage. Proper storage and site practices will minimise the damage or contamination of construction materials.	Waste reduction, reuse, recycling and proper disposal of waste	All work sites / during construction	Construction Contractor		~		Waste Disposal Ordinance ETWB TCW No. 19/2005
6.5.6	5.1.6	Where waste generation is unavoidable, the potential for recycling or reuse should be rigorously explored. If wastes cannot be recycled, disposal routes described in the EMP should be followed. A recoding system for the amount of waste generated, recycled and disposed (including the disposal sites) should be implemented. In order to monitor the disposal of C&D material and solid wastes at public filling facilities and landfills and to control fly-tipping, a trip-ticket system should be included.	Waste reduction, reuse, recycling and proper disposal of waste	All work sites / during construction	Construction Contractor		٨		Waste Disposal Ordinance ETWB TCW No 19/2005 31/2004
6.5.7	5.1.7	Regular cleaning and maintenance of the waste storage area should be provided.	Waste reduction, reuse, recycling and proper disposal of waste	All work sites / during construction	Construction Contractor		4		Waste Disposal Ordinance

EIA Ref	EM&A Ref	Recommended Mitigation Measures	Objectives of the Recommended	Location /	Implementation	Im	plementa Stages*		Relevant
			Measures and Main Concerns to addressed	Timing	Agent	D	C	0	– Legislation & Guidelines
									ETWB TCW No. 19/2005
		On-site Sorting, Reuse and Recycling		-			-		
6.5.8	5.1.8	All waste materials should be segregated into categories covering:	Waste reduction, reuse, recycling and proper disposal of waste	All work sites / during construction	Construction Contractor		V		Waste Disposal Ordinance
		• excavated materials suitable for reuse on-site;							ETWB TCW No.
		 excavated materials suitable for public filling facilities; 							19/2005
		 remaining C&D waste for landfill; 							
:		• chemical waste; and		[
		• general refuse for landfill.							
6.5.9	5.1.9	Proper segregation and disposal of construction waste should be implemented. Separate containers should be provided for inert and non-inert wastes.	Waste reduction, reuse, recycling and proper	· All work sites / during construction	Construction Contractor	• .	1	. Arenner	Waste Disposal Ordinance
		should be provided for men and non-ment wastes.	disposal of waste	construction					ETWB TCW No. 19/2005
6.5.10	5.1.10	Sorting is important to recover materials for reuse	337						
	5.1.10	and recycling. Specific area should be allocated for on-site sorting of C&D materials and to provide a	Waste reduction, reuse, recycling and proper	All work sites / during construction	Construction Contractor		. √		Waste Disposal Ordinance
		temporary storage area for those sorted materials	disposal of waste	construction					ETWB TCW No. 19/2005, 31/2004

EIA	EM&A	Recommended Mitigation Measures	Objectives of the Recommended	Location /	Implementation	Imp	olementa Stages*	tion	Relevant
Ref	Ref	Accommended mangaton measures	Measures and Main Concerns to addressed	Timing	Agent	D	C	0	Legislation & Guidelines
Ĩ		such as metals, concrete, timber, plastics, glass, excavated spoils, bricks / tiles and waste papers. If area is limited, all C&D materials should at least be sorted on-site into inert and non-inert component. Non-inert materials (C&D waste) such as bamboo, timber, vegetation, packaging waste and other organic materials should be reused and recycled wherever possible and disposed of to designated landfill only as a last resort. Inert materials (public fill) such as concrete, stone, clay, brick, soil, asphalt and the like should be separated and reuse in this or other projects (subject to approval by the relevant parties in accordance with the ETWB TCW No. 31/2004) before disposed of at a public filling facility operated by Civil Engineering and Development Department (CEDD). Steel and other metals should be recovered from demolition waste stream and recycled.							
6.5.11	5.1.11	The reuse of inert materials such as soil, rock and broken concrete should be maximised. Waste should be separated into fine, soft and hard materials. With the use of a crusher coarse material can be crushed to make it suitable for use as fill material where fill is required in the works. This minimises the use of imported material and maximises use of the C&D material produced.	Waste reduction, reuse, recycling and proper disposal of waste	All work sites / during construction	Construction Contractor		1		Waste Disposal Ordinance ETWB TCW No. 19/2005
6.5.12	5.1.12	Prior to export of material from the site, the	Waste reduction, reuse,	All work sites /	Construction		1		Waste Disposal

EIA Ref	EM&A Ref	Recommended Mitigation Measures	Objectives of the Recommended	Location /	Implementation	Implementation Stages*			Relevant
Kei	Kei		Measures and Main Concerns to addressed	Timing	Agent	D .	C	0	- Legislation & Guidelines
		potential for it to be reused should be assessed. With the exception of excavated clay most C&D material can easily be reused. Waste separation methods should be followed to ensure that C&D waste is separated at source. Suitable soft materials should be used for landscaping and grading of embankments. Fine material should be separated out and used as topsoil.	recycling and proper disposal of waste	during construction	Contractor				Ordinance ETWB TCW No. 19/2005
6.5.13	5.1.13	The feasibility of using recycled aggregates in lieu of virgin materials should be rigorously considered during the detailed design and construction stages as stipulated in WBTC No. 12/2002 and ETWB TCW No. 24/2004. In general, recycled aggregates are suitable for use as fill materials in earthworks, road sub-base formation, and drainage works. Recycled aggregates can also be used in concrete (up to Grade 35) for mass concrete walls and other minor structures such as planter boxes, toe wall planters and pavement, etc.	Waste reduction, reuse, recycling and proper disposal of waste	All work sites / during construction	Construction Contractor		1		Waste Disposal Ordinance ETWB TCW No. 19/2005, 24/2004 WBTC No. 12/2002
6.5.14	5.1.14	Recycled inert C&D material should be used in the works as sub-bases for access roads and footpaths of the proposed channels. Recycled aggregates should be considered for use in concrete as outlined in the above mentioned technical circulars. Some recycled rock material can be reused in the gabions, as rock fill or as stream bed material. This is dependent on size of rock fragments but can be	Waste reduction, reuse, recycling and proper disposal of waste	All work sites / during construction	Construction Contractor	-	1		Waste Disposal Ordinance ETWB TCW No. 19/2005

EIA	EM&A	Recommended Mitigation Measures	Objectives of the Recommended	Location /	Implementation	Implementation Stages*			Relevant
Ref	Ref	Accommented Mittgation measures	Measures and Main Concerns to addressed	Timing	Agent	D	C	0	Legislation & Guidelines
		achieved by appropriate use of a crusher.							
		Site Clearance / Demolition Materials							· · · · · · · · · · · · · · · · · · ·
		Excavated Materials							
6.5.15	5.1.15	All C&D materials should be sorted on-site into inert and non-inert components by the contractor.	Waste reduction, reuse, recycling and proper	All work sites / during	Construction Contractor		V		Waste Disposal Ordinance
		Non inert materials (C&D waste) such as wood, glass and plastic should be reuse and recycle before disposal to a designated landfill as a last resort (currently assume to be the nearby NENT Landfill). Inert materials (public fill) such as soil, rubble, sand, rock, brick and concrete should be separated and where appropriate broken down to size suitable for subsequent filling. Suitable C&D material should be use as pipe bedding or for backfilling of retaining walls, box culvert and formation of	disposal of waste	construction					ETWB TCW No 19/2005, 31/2004
		channel embankments. Excavated rocks from existing streams should be reuse for rip-rap lining and gabion lining. Inert materials should be reused on-site or in other projects approved by relevant parties in accordance with the ETWB TCW No. 31/2004 before disposed of at public filling facilities. Steel and other metals should be recovered from C&D materials and recycled.							
6.5.16	5.1.16	Excavated sediment from existing stream should be reuse on-site as backfilling material.	Reuse of excavated sediment to minimize offsite disposal	MUP04A / during construction	Construction Contractor		1		Waste Disposal Ordinance

EIA Ref	EM&A Ref	Recommended Mitigation Measures	Objectives of the Recommended	Location /	Implementation	Implementation Stages*			Relevant
			Measures and Main Concerns to addressed	Timing	Agent	D	C	0	Legislation & Guidelines
6.5.17	5.1.17	Good quality reusable topsoil should be stockpiled for later landscaping works. Stockpiles should be less than 2 m in height, formed to a safe angle of repose and hydroseeded or covered with tarpaulin to prevent erosion during the rainy season and to minimise dust generation.	Waste reduction, reuse, recycling and proper disposal of waste	All work sites / during construction	Construction Contractor		4		Waste Disposal Ordinance ETWB TCW No 19/2005
5.5.18	5.1.18	 Control measures for temporary stockpiles on-site should be taken in order to minimize the noise, generation of dust, pollution of water and visual impact. These measures include: surface of stockpiled soil should be regularly wetted with water especially during dry season; 	Waste reduction, reuse, recycling and proper disposal of waste	All work sites / during construction	Construction Contractor		1		Waste Disposal Ordinance ETWB TCW No. 19/2005
		 disturbance of stockpiled soil should be minimized; stockpiled soil should be properly covered with tarpaulin especially when heavy rain storms are predicted; stockpiling areas should be enclosed where space is available; stockpiling location should be away from the water bodies; and an independent surface water drainage system 							

EIA	EM&A	Recommended Mitigation Measures	Objectives of the Recommended	Location /	Implementation	Imp	olementa Stages*	tion	Relevant Legislation &
Ref	Ref		Measures and Main Concerns to addressed	Timing	Agent	D	C	0	Guidelines
ĩ		equipped with silt traps should be installed at the stockpiling area.							
6.5.19	5.1.19	The identification of final disposal sites for C&D materials generated by the construction works will be considered during the detailed design stage of the Project when the volume and types of C&D materials can be more accurately estimated. The Public Fill Committee of CEDD should be consulted on designated outlets (e.g. public filling area) for public fill, whilst EPD should be consulted on landfills for C&D waste. Disposal of C&D waste to landfill must not have more than 50% (by weight) inert material. The C&D waste delivered for landfill disposal should contain no free water and the liquid content should not exceed 70% by weight.	Waste reduction, reuse, recycling and proper disposal of waste	All work sites / during construction	Construction Contractor		1		Waste Disposal Ordinance ETWB TCW No. 19/2005
6.5.20	5.1.20	In order to avoid dust or odour impacts, any vehicle leaving a works area carrying C&D waste or public fill should have their load covered before leaving the construction site.	Waste reduction, reuse, recycling and proper disposal of waste	All work sites / during construction	Construction Contractor		7		Waste Disposal Ordinance ETWB TCW No. 19/2005 WBTC No. 19/2001
6.5.21	.5.1.21	C&D materials should be disposed of at designated public filling facilities or landfills. Disposal of		All work sites / during	Construction Contractor		1		Waste Disposal Ordinance

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EIA Ref	EM&A Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures and Main	Location /	Implementation	In	plement Stages		Relevant
		these materials for use		1 Timing	Agent	D	C	0	Legislation &
		these materials for use at other construction projects is subject to the approval of the EPD Engineer and/or relevant authorities, such a LandsD, PlanD, etc. Furthermore, unauthorized disposal of C&D materials in particular on private agricultural land is prohibited and may be subject to relevant enforcement and regulating actions. The	n disposal of waste , s i t	construction					Guidelines ETWB TCW No. 19/2005, 31/2004
		contractor shall refer and strictly follow the trip- ticket system for the disposal of C&D material as stipulated in the ETWB TCW No. 31/2004.							
5.22		Where the construction processes produce chemical waste, the contractor must register with EPD as a chemical waste producer. Wastes classified as chemical waste are listed in the Waste Disposal (Chemical Waste) (General) Regulation. These wastes are subject to stringent disposal routes. EPD requires information on the particulars of the waste generation processes including the types of waste produced, their location, quantities and generation rates. A nominated contact person must be registered with EPD. An updated list of licensed chemical waste collector can be obtained from EPD.	recycling and proper disposal of chemical	All work sites / during construction	Construction Contractor		1		Waste Disposal (Chemical Waste) (General) Regulation, Code of Practice on the Packaging Labelling and Storage of Chemical Waste
.23	5.1.23	Storage, handling, transport and disposal of chemical waste should be arranged in accordance with the		All work sites / during	Construction Contractor		1		Waste Disposal (Chemical Waste)

			Objectives of the Recommended	Location /	Implementation	Imp	olementat Stages*	ion	Relevant
EIA Ref	EM&A Ref	Recommended Mitigation Measures	Measures and Main Concerns to addressed	Timing	Agent	D	C	0	Legislation & Guidelines
<u></u>		Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published by EPD, and should be collected by a licensed chemical waste collector.	disposal of chemical waste	construction					Regulation, Code of Practice on the Packaging Labelling and Storage of Chemical Waste
6.5.24	5.1.24	Suitable containers should be used for specific types of chemical wastes, containers should be properly labelled (English and Chinese in accordance with instructions prescribed in Schedule 2 of the Regulations), resistance to corrosion, stored safely and closely secure. Stored volume should not be kept more than 450 liters unless the specification has been approved by the EPD. Storage area should be enclosed by three sides by a wall, partition of fence that is at least 2 m height or height of tallest container with adequate ventilation and space.		All work sites / during construction	Construction Contractor		1		Waste Disposal (Chemical Waste) (General) Regulation, Code of Practice on the Packaging Labelling and Storage of Chemical Waste
6.5.25	5.1.25	Hard standing, impermeable surfaces draining via oil interceptors should be provided in works area compounds. Interceptors should be regularly emptied to prevent release of oils and grease into the surface water drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain. Oil and fuel bunkers should be bunded and/or enclosed on three sides to prevent discharge due to accidental spillages or breaches of tanks. Bunding	recycling and proper disposal of chemical waste	During	Construction Contractor		4		Waste Disposal (Chemical Waste) (General) Regulation, Code of Practice on the Packaging Labelling and Storage of Chemical Waste

EIA Ref	EM&A Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures and Main	Location / Timing	Implementation		plement: Stages*		Relevant
		should be of sufficient capacity to accommodate 110% of the volume of the largest container or 20% of the total volume of waste, whichever is largest.		g	Agent	D	C	0	Legislation & Guidelines
		Waste collected from any grease traps should be collected and disposed of by a licensed contractor.							
6.5.26	5.1.26	Lubricants, waste oils and other chemical wastes are likely to be generated during the maintenance of vehicles and mechanical equipment. Used lubricants should be collected and stored in individual containers which are fully labelled in English and Chinese and stored in a designated secure place. If possible, such waste should be sent to oil recycling companies, and the empty oil drums collected by appropriate companies for reuse or refill.	Waste reduction, reuse, recycling and proper disposal of chemical waste	All work sites / during construction	Construction Contractor		1		Waste Disposal (Chemical Waste) (General) Regulation, Code of Practice on the Packaging Labelling and Storage of Chemical Waste
5.27	1	be collected by licensed collectors. The licensed collector should regularly take chemical waste to a licensed chemical waste treatment facility (such as the Chemical Waste Treatment Centre in Tsing Yi). A trip ticket system operates to control the novement of chemical wastes.	recycling and proper	All work sites / during construction	Construction Contractor	·	1	• .	Waste Disposal (Chemical Waste) (General) Regulation, Code of Practice on the Packaging Labelling and Storage of Chemical Waste
5.28	5.1.28 } s	No lubricants, oils, solvents or paint products V hould be allowed to discharge into water courses, re		All work sites / Juring	Construction Contractor		1		Waste Disposal

			Objectives of the Recommended	Location /	Implementation	Im	olementa Stages*	tion	Relevant Legislation &
EIA Ref	EM&A Ref	Recommended Mitigation Measures	Measures and Main Concerns to addressed	Timing	Agent	D	C	0	Guidelines
ï		either by direct discharge, or as contaminants carried in surface water runoff from the construction site.	disposal of chemical waste	construction					(General) Regulation, Code of Practice on the Packaging Labelling and Storage of Chemical Waste
6.5.29	5.1.29	Concrete Waste Dry concrete waste (considered as public fill) should be sorted out from the other wastes and recycled for reuse or sorted out for disposal at designated public filling facilities.	Waste reduction, reuse, recycling and proper disposal of waste	All work sites / during construction	Construction Contractor		V		Waste Disposal Ordinance ETWB TCW No. 19/2005, 33/2002
6.5.30	5.1.30	Wooden Materials All wooden materials used on-site should be kept separate from other wastes to avoid damage and to facilitate reuse. Timber which cannot be reused should be sorted out from other waste and stored separately from all inert waste before being disposed of to landfill.	recycling and proper disposal of waste	1	Construction Contractor				Waste Disposal Ordinance ETWB TCW No. 19/2005, 33/2002
6.5.31	5.1.31	Reusable steel or concrete panel shutters, fencing and hoarding and signboard should be used as a preferred alternative to items made of wood, to minimise wastage of wood. Attention should be paid to WBTC No. 19/2001 - Metallic Site Hoardings and Signboards to reduce the amount of	disposal of waste		Construction Contractor		4		Waste Disposal Ordinance ETWB TCW No. 19/2005, 33/2002

EIA Ref	EM&A Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures and Main	Location / Timing	Implementation	Im	plement. Stages*	ation	Relevant
		timber used on construction sites. Metallic alternatives to timber are readily available and	Concerns to addressed	l x ming	Agent	D	C	0	Legislation & Guidelines
		should be used rather than new timber. Recast concrete units should be adopted wherever feasible to minimize the use of timber formwork.							
5.32	5.1.32	Only waste material need be taken to a landfill. It	Waste reduction, reuse,	All work sites /					
		should be separated from recyclable wood and steel materials. As for all waste types these materials should be reused on-site or other approved sites before disposal is considered as an option.	recycling and proper disposal of waste	during construction	Construction Contractor		V		Waste Disposal Ordinance
		Disposal to landfill should only be considered as a final option. Contractors are responsible for storage of re-useable materials on-site.							ETWB TCW No. 19/2005, 33/2002
		Municipal Waste							
.33		from other construction and chemical wastes and disposed of at designated landfill A temporary	recycling and proper	All work sites / during construction	Construction Contractor		~		Waste Disposal Ordinance
		contractor to facilitate the collection of refuse by icensed contractors. The removal of wasta from the	- ·	• • •					ETWB TCW No. 19/2005
	p p	site should be arranged on a daily or at least on every second day by the contractor to minimise any potential odour impacts, minimise the presence of pests, vermin and other scavengers and prevent nsightly accumulation of waste.							· . 1

Table A5 Implementation Schedule of Ecological Impact Measures

			Objectives of the	Location /	Implementation	Imp	olementa Stages*	tion	Relevant Legislation &
EĮA Ref	EM&A Ref	Recommended Mitigation Measures	Recommended Measures and Main Concerns to addressed	Timing	Agent	D	C	0	Guidelines
Ecology	- Construct	ion Phase	• · · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			1	r	l
7.9.3	6.5.2	<i>LMH01</i> Given the ecological importance of Lin Ma Hang stream, it is proposed that construction works at LMH01 should be restricted to the dry season period from 1 st November -31^{st} March. The small scale of works should allow all construction to be completed within dry season to ensure that the risk of erosion and sedimentation due to heavy rain on the works areas, as well as disturbance impacts to surrounding areas, will be minimised.	impacts during construction at LMH01	All works sites at LMH01 / during construction	Construction Contractor		~		Environmental Impact Assessment Ordinance
7.9.4	6.5.3	In addition, the breaking of existing shotcrete banks at LMH01 should be restricted to hand-held equipment. Concrete should not be used for construction of the gabion banks.	impacts during	All works sites at LMH01 / during construction	Construction Contractor		7		Environmental Impact Assessment Ordinance
7.9.5	6.5.4	Potential disturbance impacts to surrounding habitats and pollution risks (water quality impacts) to the stream should be minimised by adoption of appropriate site managemen procedures, as detailed in ETWB TCW No 5/2005; including among others the location o access to the site and storage of materials, and treatment of construction site waste to preven	construction at LMH01 t f f	All works sites at LMH01 / during construction	Construction Contractor		1		Environmental Impact Assessment Ordinance

ELA Ref	EM&A Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures and Main	Location / Timing	Implementation	In	nplement Stages	tation *	Relevant
		pollution of the stream. These site management measures are listed in the subsequent section.			Agent	D	C	0	Legislation & Guidelines
7.9.9 i		MUP05 (natural stream section) <u>Streambed</u> One of the main benefits of the proposed stream widening measures is that the existing natural stream bed is left undisturbed. Accordingly, works should be carried out in such a way that as much as possible of the natural stream bed should be left undisturbed and that where disturbance is essential this should be minimised in terms of area, magnitude and duration to minimise potential impacts to stream fauna and to ensure refuges for these species during the period of the works. Avoidance of the stream bed can be achieved by conducting the earthworks to widen the stream from the landward side, by not lowering the widened channel to the same level as, or below, the existing channel, and by leaving the existing stream untouched except during the inal stage, when the newly formed widened tream bed is joined to the existing stream.	Minimize ecological impacts during construction at MUP05	All works sites at MUP05 / during construction	Construction Contractor		1		Environmental Impact Assessmer Ordinance
2.10	fi p st	nes of varying sizes) to approximate as closely as	mpacts during	All works sites at MUP05 / during construction	Construction Contractor		√		Environmental Impact Assessment Ordinance

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			Objectives of the Recommended	Location /	Implementation	Imj	lementa Stages*		Relevant Legislation &
EIA Ref	EM&A Ref	Recommended Mitigation Measures	Measures and Main Concerns to addressed	Timing	Agent	D	С	0	Guidelines
		deposited naturally.							
9.11	6.5.10	In order to minimise potential impacts to stream fauna during excavation of the widened "two- stage" channel, this work should be limited to the dry season as far as possible, between 1 st October and 31 st March. As rainfall is low at this time, erosion is less likely and deposition of sediment downstream of the works should be minimised. This also avoids the time when stream fauna are at the most vulnerable stage in their life cycle (eggs and young larvae). Any essential works outside the dry season should be temporarily isolated from the stream to prevent the risk of pollution or sedimentation affecting the ecological integrity of the stream.	Minimize ecological impacts during construction at MUP05	All works sites at MUP05 / during construction	Construction Contractor		1		Environmental Impact Assessment Ordinance
7.9.12	6.5.11	As required to minmize potential water quality impacts (Section 5.6), excavation works at the stream section of MUP05 should be restricted to 300m length at any one time. No restriction is considered necessary for the first 300m upstream concrete drains section. Excavation works at MUP04A should be restricted to 100m to cater for potential cumulative impact on MUP05.	construction at MUP05	All works sites at MUP05 / during construction	Construction Contractor		N .		Environmental Impact Assessmen Ordinance
1		Appropriate site management procedures during	Minimize ecological	All works sites at			1		Environmental Impact Assessme
7.9.13	6.5.12	the construction phase should be adopted, as	'l	MUP05 / during	Contractor	1			Impactication

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EIA Ref	EM&A Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures and Main	Location / Timing	Implementation	In	nplemen Stages	tation *	Relevant
	1	recommended in ETWB TCW No. 5/2005, to	Concerns to addressed	Thung	Agent	D	C	0	 Legislation & Guidelines
}		minimise potential disturbance impacts and pollution risks (water quality impacts) to the stream. This should include the location of access to the site and storage of materials, and treatment of construction site waste to prevent pollution of the stream. These site management measures are listed in the subsequent section.	construction at MUP05	construction					Ordinance
7.9.20, Fable 7.29		transplanting existing trees to suitable locations	Mitigate the loss of bankside trees and associated riparian habitats at MUP05	MUP05 / during construction	Construction Contractor				Environmental Impact Assessmen Ordinance
	-	Ficus hispida Ficus microcarpa				2			

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			Objectives of the	Location /	Implementation		lementat Stages*	ion	Relevant Legislation &
EIA Ref	EM&A Ref	Recommended Mitigation Measures	Recommended Measures and Main Concerns to addressed	Timing	Agent	D	С	0	Guidelines
		Bambusa eutuldoides							
7.9.21	6.5.20	The proposed landscape compensatory planting of about 740 trees (approximately $1,100 \text{ m}^2$) along the MUP channels will serve dual purpose of landscape impact mitigation as well as mitigating the loss of riparian trees.	Dual purpose of landscape impact mitigation and mitigate the loss of riparian trees at the MUP channels	MUP channels / during construction	Construction Contractor		1		Environmental Impact Assessmen Ordinance
7.9.22	6.5.21	The Landscape Plan to be submitted prior to	To ensure the	All works site / during detailed	DSD (or its appointed	1	1		Environmental Impact Assessme
fable	Table 6.6	commencement of planting or landscaping works	recommended plant species are taken into	design and	Detailed Design			1	Ordinance
7.29	(7.5.11)	should take into account the recommended plant species.	account in the Landscape Plan	construction	Engineer)	1			
(8.11.27		sporton	Landscape Flan						
)					Construction Contractor to implement the approved planting plan				
7.9.23	6.5.22	The recommended site management measures are generally good site practices and proper wate quality control / waste management measures to be implemented by the contractor for all work near stream courses. These measures include:	to minimize ecological	All works sites at LMH01 and MUP05 / during construction	Construction Contractor		4		Environmental Impact Assessme Ordinance
		 Construction activities should be restricted t works area that should be clearly demarcated 	>						

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EM&A Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures and Main	Location / Timing	Implementation		plement Stages	Relevant
- H - H - H - H - H - H - H - H	Excavation works should be carried out during the dry season where stream flow is low. Where adequate space is available, works should be carefully phased such that only one side of the channel is constructed. Temporary diversion should be provided to ensure continuous water flow to the downstream section. The proposed works site inside or in the proximity of natural streams should be temporarily isolated, such as using bunds or sandbag barriers (wrapped with geotextile fabric) or other similar techniques, to prevent adverse impacts on the stream water quality. For the stream section where the existing natural stream bed and bank will be left untouched, no disturbance to the stream bed and bank should be allowed from construction works, equipment or workers. If temporary access track on streambed is unavoidable, this should be kept to the minimum width and length. Temporary stream crossings should be supported on stilts above the stream bed. Adequate temporary drainage measures ncluding sediment and oil/grease traps hould be provided to prevent contaminated ite run-off entering the water bodies.	Measures and Main Concerns to addressed	Location / Timing	Implementation Agent	D		Relevant Legislation & Guidelines

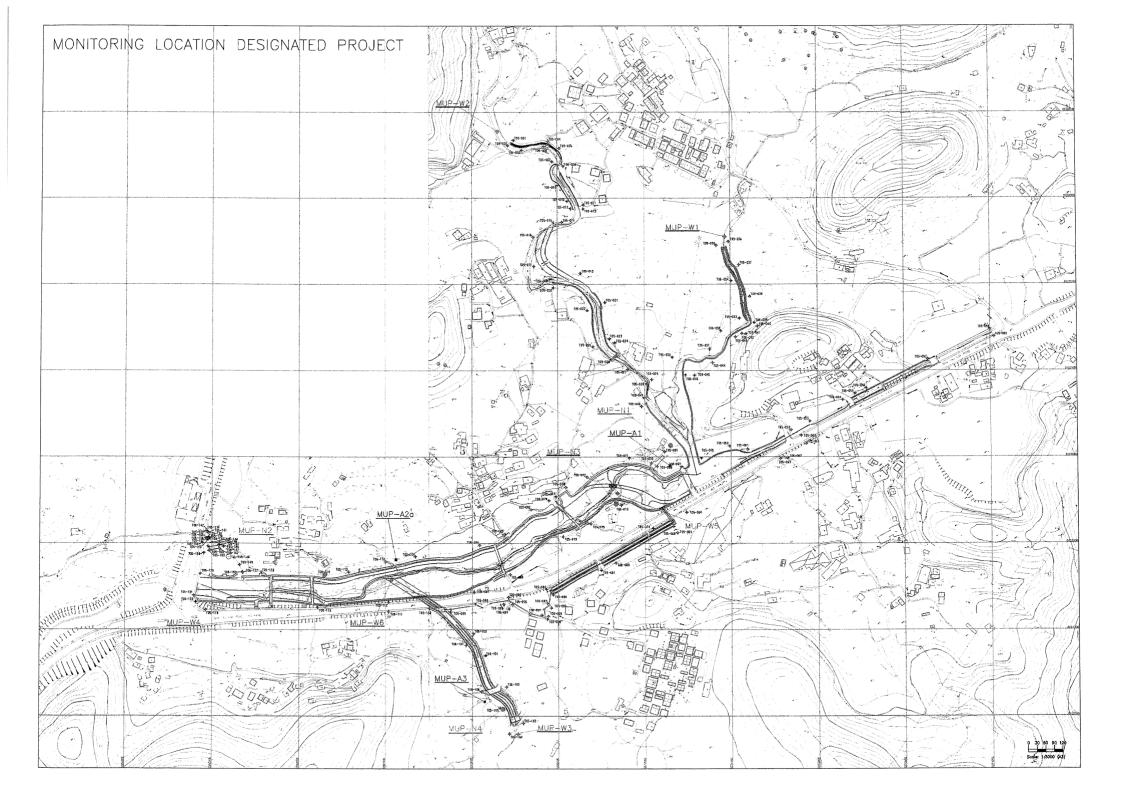
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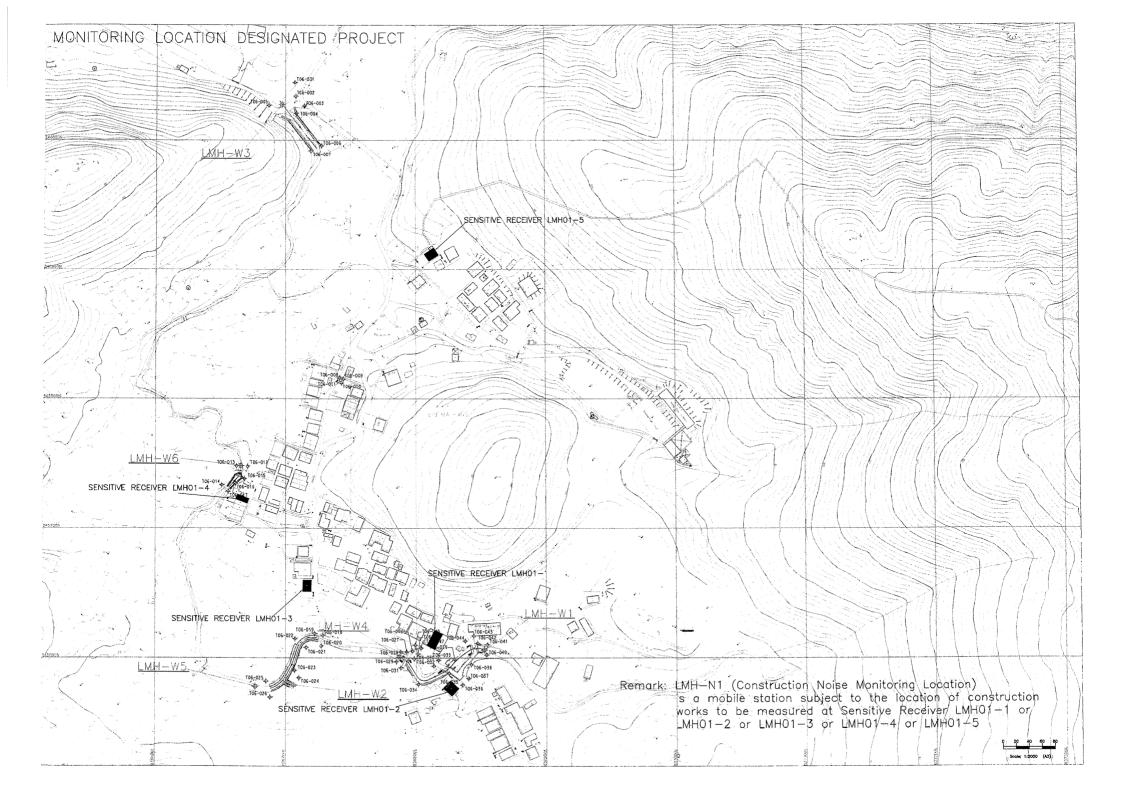
		of	Objectives of the Recommended Location /	Implementation	Implementation Stages*		ion	Relevant Legislation &	
EIA Ref	EM&A Ref		Measures and Main Concerns to addressed	Timing	Agent	D	C	0	Guidelines
		the water bodies during rain storms.							
		 Construction effluent, site run-off and sewage should be properly collected, treated and disposed. Supervisory staff of the contractor should be assigned to station on site to closely supervise and monitor the construction works. All workers should be regularly briefed to avoid disturbing the flora and fauna near the works area. 							
7.9.24	6.5.23	The contractor should provide details of the mitigation measures to be implemented during construction stage as part of their working method statement to the Engineer for approval. This should be reviewed by the Environmental Team Leader.	construction at LMH01 and MUP05	All works sites at LMH01 and MUP05 / during construction	Construction Contractor		7		Environmental Impact Assessmen Ordinance
						<u>t</u>			
Ecology	- Operatio	n Phase		1		1			
7.9.6	6.5.5	<i>LMH01</i> Very little or no management / maintenance of the completed sections of LMH01 are expected Removal of obstruction should be undertaken only when flooding or safety issues have been identified.	operation of LMH01	LMH01 / during operation stage	DSD (or DSD's maintenance contractor)				Environmental Impact Assessme Ordinance



Appendix D

Environmental Monitoring Locations







Appendix E

Certificates of Calibration

Equipment Calibration List

Items	Aspect	Description of Equipment	Date of Calibration	Date of Next Calibration
1		TSP Sampler Calibration Spreadsheet for MUP-A1	1 Sep 10	1 Dec 10
2		TSP Sampler Calibration Spreadsheet for MUP-A2	25 Aug 10	25 Nov 10
3		TSP Sampler Calibration Spreadsheet for MUP-A3	1 Sep 10	1 Dec 10
4	Air	TSI DustTrak Model 8520 (Serial No. 21060)	12 Dec 09	12 Dec 10
5		TSI DustTrak Model 8520 (Serial No. 23080)	12 Dec 09	12 Dec 10
6		TSI DustTrak Model 8520 (Serial No. 23079)	5 May 10	5 May 11
7		Bruel & Kjaer Integrating Sound Level Meter (Serial No. 2285762)	26 Apr 10	26 Apr 11
8	Noise	Bruel & Kjaer Integrating Sound Level Meter (Serial No. 2285721)	16 Apr 10	16 Apr 11
9		Bruel & Kjaer Acoustical Calibrator (Serial No. 2326408)	26 Apr 10	26 Apr 11
10		Cesva Acoustical Calibrator CB-5 (Serial No. 030023)	16 Apr 10	16 Apr 11
11*		YSI DO Meter 55 (Serial No. 05F2063AZ)	19 Jul 10	19 Oct 10
			19 Oct 10 19 July 10	19 Jan 11 19 Oct 10
12*	Water	Extect pH Meter EC500	19 Oct 10	19 Jan 11
12*		HACH Turkidimeter 2100r (Seriel No. 05000000225)	23 Jul 10	23 Oct 10
13*		HACH Turbidimeter 2100p (Serial No. 950900008735)	19 Oct 10	19 Jan 11

*Note: Calibration certificates will only be provided when monitoring equipment is re-calibrated or new. # Calibration could not conduct due to power failure.

ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES ALS Technichem (HK) Pty Ltd

Environmental Division



CERTIFICATE OF ANALYSIS

CONTACT: MR BEN TAM CLIENT: ACTION UNITED ENVIRO SERVICES ADDRESS: RM A 20/F., GOLDEN KING IND BLDG, NO. 35-41 TAI LIN PAI ROAD, KWAI CHUNG, N,T., HONG KONG. PROJECT:
 Batch:
 HK1024695

 LABORATORY:
 HONG KONG

 DATE RECEIVED:
 19/10/2010

 DATE OF ISSUE:
 22/10/2010

 SAMPLE TYPE:
 EQUIPMENT

 No. of SAMPLES:
 1

COMMENTS

The calibration procedure used for the analysis has been applied for the calibration of the above instrument.

NOTES

This is the Final Report and supersedes any preliminary report with this batch number. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

ISSUING LABORATORY: HONG KONG

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Abbreviations: % SPK REC denotes percentage spike recovery CHK denotes duplicate check sample LOR denotes limit of reporting LCS % REC denotes Laboratory Control Sample percentage recovery

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Page 1 of 2

Part of the ALS Laboratory Group 11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., H.K. Phone: 852-2610 1044 Fax: 852-2610 2021 www.alsenviro.com A Campbell Brothers Limited Company

CERTIFICATE OF ANALYSIS



Batch:HK1024695Date of Issue:22/10/2010Client:ACTION UNITED ENVIRO SERVICESClient Reference:

Calibration of Multimeter

Item : Multimeter ALS Lab ID: HK1024695-001 Date of Calibration: 19 October, 2010 Model No.: YSI 550A Equipment No.: --Serial No.: 05F2063AZ

Testing Results :

DO	Expected Reading	Recording Reading	Testing Method:		
	3.57 mg/L 6.15 mg/L 8.18 mg/L	3.52 mg/L 6.14 mg/L 8.15 mg/L	APHA (20th edition), 4500-OC & G		
	Allowing Deviation	± 0.2 mg/L			
Temperature	Expected Reading	Recording Reading	Testing Method:		
	14.5 °C 23.5 °C 34.0 °C	14.9 °C 23.6 °C 33.9 °C	In-House Method		
	Allowing Deviation	±2.0°C			

Mr Chan Kwok Fai, Godfrey Laboratory Manager Hong Kong

ALS Technichem (HK) Pty Ltd ALS Environmental ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES

ALS Technichem (HK) Pty Ltd

Environmental Division



CERTIFICATE OF ANALYSIS

CONTACT: MR BEN TAM CLIENT: ACTION UNITED ENVIRO SERVICES ADDRESS: RM A 20/F., GOLDEN KING IND BLDG, NO. 35-41 TAI LIN PAI ROAD, KWAI CHUNG, N.T., HONG KONG.

HK1024697 Batch: LABORATORY: HONG KONG 19/10/2010 DATE RECEIVED: 22/10/2010 DATE OF ISSUE: EQUIPMENT SAMPLE TYPE: No. of SAMPLES: 1

PROJECT:

COMMENTS

The calibration procedure used for the analysis has been applied for the calibration of the above instrument.

NOTES

This is the Final Report and supersedes any preliminary report with this batch number. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

ISSUING LABORATORY: HONG KONG

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Abbreviations: % SPK REC denotes percentage spike recovery CHK denotes duplicate check sample LOR denotes limit of reporting LCS % REC denotes Laboratory Control Sample percentage recovery

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Page 1 of 2

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CERTIFICATE OF ANALYSIS



Batch:HK1024697Date of Issue:22/10/2010Client:ACTION UNITED ENVIRO SERVICESClient Reference:

Calibration of Multimeter

Item : pH Meter ALS Lab ID: HK1024697-001 Date of Calibration: 19 October, 2010 Model No.: EXTECH EC500 Equipment No.: --Serial No.: CE133298

Testing Results :

рΗ

Expected Reading	Recording Reading	Testing Method:
4.00	3.92	APHA (20th edition), 4500-H ⁺ B
7.00	7.00	
10.0	9.92	
Allowing Deviation	± 0.2 unit	

Mr Chan Kwok Fai, Godfrey Laboratory Manager - Hong Kong

ALS Technichem (HK) Pty Ltd ALS Environmental ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES ALS Technichem (HK) Pty Ltd

Environmental Division



CERTIFICATE OF ANALYSIS

CONTACT: MR BEN TAM CLIENT: ACTION UNITED ENVIRO SERVICES ADDRESS: RM A 20/F., GOLDEN KING IND BLDG, NO. 35-41 TAI LIN PAI ROAD, KWAI CHUNG, N,T., HONG KONG. Batch:HKLABORATORY:HONDATE RECEIVED:19/DATE OF ISSUE:22/SAMPLE TYPE:EQUNo. of SAMPLES:1

HK1024699 HONG KONG 19/10/2010 22/10/2010 EQUIPMENT

PROJECT:

COMMENTS

The calibration procedure used for the analysis has been applied for the calibration of the above instrument.

NOTES

This is the Final Report and supersedes any preliminary report with this batch number. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

ISSUING LABORATORY: HONG KONG

Address

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Abbreviations: % SPK REC denotes percentage spike recovery CHK denotes duplicate check sample LOR denotes limit of reporting LCS % REC denotes Laboratory Control Sample percentage recovery

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CERTIFICATE OF ANALYSIS



Batch:HK1024699Date of Issue:22/10/2010Client:ACTION UNITED ENVIRO SERVICESClient Reference:

Calibration of Multimeter

Item : Turbidimeter ALS Lab ID: HK1024699-001 Date of Calibration: 19 October, 2010 Model No.: HACH 2100P Equipment No.: EQ091 Serial No.: 950900008735

Testing Results :

Turbidity

idity	Expected Reading	Recording Reading	Testing Method:
	0.00 NTU	0.10 NTU	APHA (19th edition), 2130B
	4.00 NTU	3.81 NTU	
	40.0 NTU	36.4 NTU	
	80.0 NTU	77.1 NTU	
	400 NTU	382 NTU	
	Allowing Deviation	± 10%	

Mr Chan Kwøk Fai, Godfrey Laboratory Manager - Hong Kong

ALS Technichem (HK) Pty Ltd ALS Environmental



Appendix F

Details of the Event Action Plan

Event/Action Plan for Air Quality

	ACTION						
EVENT	ET Leader	IEC	ER	Contractor			
ACTION LEVEL							
Exceedance for one sample	 Identify source Inform IEC, ER and Contractor Repeat measurement to confirm findings Increase monitoring frequency to daily 	 Check monitoring data submitted by ET Leader Check Contractor's working method 	1. Notify Contractor	 Rectify any unacceptable practice Amend working methods if appropriate 			
Exceedance for two or more consecutive samples	 Identify source Inform IEC, ER and Contractor Repeat measurement to confirm findings Increase monitoring frequency to daily Discuss with IEC, Contractor and ER on remedial actions required If exceedance continue, arrange meeting with IEC, ER and Contractor If exceedance stops, cease additional monitoring 	 Check monitoring data submitted by ET Leader Check Contractor's working method Discuss with ET Leader and Contractor on possible remedial measures Advise the ER on the effectiveness of the proposed remedial measures Supervise implementation of remedial measures 	 Confirm receipt of notification of failure in writing Notify Contractor Ensure remedial measure properly implemented 	 Submit proposals for remedial actions to IEC and ER within 3 working days notification Implement the agreed proposals Amend proposal if apprpriate 			
LIMIT LEVEL							
Exceedance for one sample	 Identify source Inform IEC, ER, EPD and Contractor Repeat measurement to confirm findings Increase monitoring frequency to daily Access effectiveness of Contractor's remedial actions and kept IEC, EPD and ER informed of results 	 Check monitoring data submitted by ET Leader Check Contractor's working method Discuss with ET Leader and Contractor on possible remedial measures Advise the ER on the effectiveness of the proposed remedial measures Audit implementation of remedial measures 	 Confirm receipt of notification of failure in writing Notify Contractor Ensure remedial measures properly implemented 	 Take immediate action to avoid for the exceedance Submit proposals for remedial actions to IEC and ER within 3 working days of notification Implement the agreed proposals Amend proposal if appropriate 			
Exceedance for two or more consecutive samples	 Notify IEC, ER, Contractor and EPD Identify source Repeat measurement to confirm findings Increase monitoring frequency to daily Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented Arrange meeting with IEC, Contractor and ER to discuss the remedial actions to be taken Access effectiveness of Contractor's remedial actions and kept IEC, EPD and ER informed of results If exceedance stops, cease additional monitoring 	 Discuss amongst ER, ET Leader and Contractor on the potential remedial actions Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly Audit the implementation of remedial measures 	 Confirm receipt of notification of failure in writing Notify Contractor In consultation with IEC, agree with the Contractor on the remedial measures to be implemented Ensure remedial measures properly implemented If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	 Take immediate action to avoid for the exceedance Submit proposals for remedial actions to IEC and ER within 3 working days of notification Implement the agreed proposals Resubmit proposals if problem still not under control Stop the relevant portion of works as determined by the ER unit the exceedance is abate 			

Event/Action Plan for Water Quality

EVENT	ET Leader	IEC	ER	Contractor
Action Level being exceeded by one sampling day	 Repeat in-situ measurement to confirm findings Identify source(s) of impact Inform IEC and Contractor Check monitoring data, all plant, equipment and Contractor's working methods Discuss mitigation measures with IEC and Contractor Repeat measurement on next day of exceedance 	 Discuss with ET and Contractor on the mitigation measures Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly Assess the effectiveness of the implemented mitigation measures 	 Discuss with IEC on the proposed mitigation measures Make agreement on the mitigation measures to be implemented Assess effectiveness of the implemented mitigation measures 	 Inform the ER and confirm notification of the non-compliance in writing Rectify unacceptable practice Check all plant and equipment Consider changes of working methods Discuss with ET and IEC and propose mitigation measures to IEC and ER Implement the agreed mitigation measures
Action Level being exceeded by more than one consecutive sampling day	 Repeat in-situ measurement to confirm findings Identify source(s) of impact Inform IEC and Contractor Check monitoring data, all plant, equipment and Contractor's working methods Discuss mitigation measures with IEC and Contractor Ensure mitigation measures are implemented Prepare to increase the monitoring frequency to daily Repeat measurement on next day of exceedance 	 Discuss with ET and Contractor on the mitigation measures Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly Assess the effectiveness of the implemented mitigation measures 	 Discuss with IEC on the proposed mitigation measures Make agreement on the mitigation measures to be implemented Assess effectiveness of the implemented mitigation measures 	 Inform the ER and confirm notification of the non-compliance in writing Rectify unacceptable practice Check all plant and equipment Consider changes of working methods Discuss with ET and IEC and propose mitigation measures to IEC and ER within 3 working days Implement the agreed mitigation measures
Limit Level being exceeded by one sampling day	 Repeat in-situ measurement to confirm findings Identify source(s) of impact Inform IEC, Contractor and EPD Check monitoring data, all plant, equipment and Contractor's working methods Discuss mitigation measures with IEC, ER and Contractor Ensure mitigation measures are implemented Increase the monitoring frequency to daily until no exceedance of Limit Level 	 Discuss with ET and Contractor on the mitigation measures Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly Assess the effectiveness of the implemented mitigation measures 	 Discuss with IEC on the proposed mitigation measures Request Contractor to critically review the working methods Make agreement on the mitigation measures to be implemented Assess effectiveness of the implemented mitigation measures 	 Inform the ER and confirm notification of the non-compliance in writing Rectify unacceptable practice Check all plant and equipment Consider changes of working methods Discuss with ET and IEC and propose mitigation measures to IEC and ER within 3 working days Implement the agreed mitigation measures
Limit Level being exceeded by more than one consecutive sampling day	 Repeat in-situ measurement to confirm findings Identify source(s) of impact Inform IEC, Contractor and EPD Check monitoring data, all plant, equipment and Contractor's working methods Discuss mitigation measures with IEC, ER and Contractor Ensure mitigation measures are implemented Increase the monitoring frequency to daily until no exceedance of Limit Level for two consecutive days 	 Discuss with ET and Contractor on the mitigation measures Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly Assess the effectiveness of the implemented mitigation measures 	 Discuss with IEC on the proposed mitigation measures Request Contractor to critically review the working methods Make agreement on the mitigation measures to be implemented Assess effectiveness of the implemented mitigation measures Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the work until no exceedance of Limit Level 	 Inform the ER and confirm notification of the non-compliance in writing Rectify unacceptable practice Check all plant and equipment Consider changes of working methods Discuss with ET and IEC and propose mitigation measures to IEC and ER within 3 working days Implement the agreed mitigation measures As directed by the ER, to slow down or to stop all or part of the work or construction activities

Event/Action Plan for Ecology

EVENT	ACTION					
	ET Leader	IEC	ER	Contractor		
Non-conformity on one occasion	 Identify source Inform the IEC and ER Discuss remedial actions with IEC, the ER and the Contractor Monitor remedial actions until rectification has been completed 	 Check monitoring results Check the Contractor's working method Discuss with the ET and Contractor on possible remedial measures Advise the ER on effectiveness of proposed remedial measures Check the implementation of remedial measures 	 Notify Contractor Ensure remedial measures are properly implemented Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the works in the case of serous non-conformity until situation is rectified 	 Take immediate action to avoid further problem Amend working methods if needed Submit proposals for remedial actions to ET, ER and IEC Rectify damage and implement the agreed remedial actions 		
Repeated Non-confirmity	 Identify source Inform the IEC, ER, EPD and AFCD Increase monitoring frequency Discuss remedial actions with IEC, the ER and the Contractor Monitor remedial actions until rectification has been completed If exceedance stops, cease additional monitoring 	 Check monitoring results Check the Contractor's working method Discuss with the ET and Contractor on possible remedial measures Supervise the implementation of remedial measures Advise the ER on effectiveness of proposed remedial measures and keep EPD and AFCD informed 	 Notify Contractor Ensure remedial measures are properly implemented Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the works in the case of serous non-conformity until situation is rectified 	 Take immediate action to avoid further problem Amend working methods if needed Submit proposals for remedial actions to ET, ER and IEC Rectify damage and implement the agreed remedial actions 		

Event/Action Plan for Landscape and Visual Impact

EVENT	ACTION						
EVENI	ET Leader	IEC	ER	Contractor			
Non-conformity on one occasion	 Identify source Inform the IEC and the ER Discuss remedial actions with IEC, the ER and the Contractor Monitor remedial actions until rectification has been completed 	 Check report Check the Contractor's working method Discuss with the ET and Contractor on possible remedial measures Advise the ER on effectiveness of proposed remedial measures 	 Notify the Contractor Ensure remedial measures are properly implemented. 	 Amend working methods if needed Rectify damage and undertake remedial measures or any necessary replacement 			
Repeated Non-conformity	 Identify source Inform the IEC, ER, EPD and AFCD Increase monitoring (site audit) frequency Discuss remedial actions with IEC, the ER and the Contractor Monitor remedial actions until rectification has been completed If exceedance stops, cease additional monitoring (site audit) 	 Check report Check the Contractor's working method Discuss with the ET and Contractor on possible remedial measures Advise the ER on effectiveness of proposed remedial measures. Supervise the implementation of remedial measures 	 Notify Contractor Ensure remedial measures are properly implemented 	 Amend working methods if needed Rectify damage and undertake remedial measures or any necessary replacement 			

Event/Action	Plan	for	Construction	Noise
---------------------	------	-----	--------------	-------

	Action							
EVENT Action Level	ET Leader 1. Notify IEC, Contractor and ER 2. Carry out investigation and identify source 3. Report the results of investigation to IEC, Contractor and ER 4. Discuss with the Contractor and formulate remedial measures 5. Increase monitoring frequency 6. Check compliance to Action/limit Levels after application of mitigation measures	IEC IEC 1. Review the analysed results submitted by the ET Leader 2. Review the proposed remedial measures by the Contractor and advise the ER & ER accordingly 3. Review the implementation of remedial measures	ER 1. Confirm receipt of notification of complaint in writing 2. Notify Contractor 3. Check monitoring data submitted by the ET 4. Require Contractor to propose remedial measures for the analysed noise problem 5. Ensure remedial measures are properly implemented	Contractor1.Submit noise mitigation proposals to ER and IEC within three working days2.Liaise with the ER to ensure the effectiveness of the agreed mitigation3.Amend proposal if required4.Implement noise mitigation proposals				
Limit Level	 Notify IEC, Contractor and ER Identify source 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 the causes & actions taken form the exceedances Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results If exceedance stops, cease additional monitoring 	 Check monitoring data submitted by ET Discuss amongst ER, ET Leader and Contractor on the potential remedial actions Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER & ET accordingly Audit the implementation of remedial measures 	 Confirm receipt of notification of exceedance Notify Contractor Check monitoring data submitted by the ET Require Contractor to propose remedial measures for the analysed noise problem Discuss with ET, IEC and Contractor on proposed remedial actions to be implemented Ensure remedial measures are properly implemented Assess the effectiveness of the remedial actions and keep the Contractor informed If exceedance continues, consider what protion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated 	 Take immediate action to avoid further exceedance Submit proposals for remedial actions to ER within three working days of notification Liaise with the ER to ensure the effectiveness of the agreed mitigation Amend proposal if required Implement the agreed proposals Resubmit proposals if problem still not under control Stop the relevant portion of works as determined by the ER until the exceedance is abated 				



Appendix G

Monitoring Schedule

 $\label{eq:loss_2008} Z:Jobs\2008\TCS00409\DC-2007-08\b00\mpact\DP\Monthly\Report\20th\Monthly\-\Oct2010\R0872v1_Oct.doc\Action-United\Environmental\Services\ and\ Consulting$



Monitoring Schedule for Channels MUP in this Reporting Month

Date		Air Q	uality	NOISE	WATER	ECOLOGY	
	Dute	1-hour TSP	24-hour TSP	-LEQ 30MIN	QUALITY	Water Quality	ECOLOGY SURVEYS
Sun	26-Sep-10						
Mon	27-Sep-10						
Tue	28-Sep-10						
Wed	29-Sep-10						
Thu	30-Sep-10						
Fri	1-Oct-10						
Sat	2-Oct-10						
Sun	3-Oct-10						
Mon	4-Oct-10						
Tue	5-Oct-10						
Wed	6-Oct-10						
Thu	7-Oct-10						
Fri	8-Oct-10						
Sat	9-Oct-10						
Sun	10-Oct-10						
Mon	11-Oct-10						
Tue	12-Oct-10						
Wed	13-Oct-10						
Thu	14-Oct-10						
Fri	15-Oct-10						
Sat	16-Oct-10						
Sun	17-Oct-10						
Mon	18-Oct-10						
Tue	19-Oct-10						
Wed	20-Oct-10						
Thu	21-Oct-10						
Fri	22-Oct-10						
Sat	23-Oct-10						
Sun	24-Oct-10						
Mon	25-Oct-10						

Monitoring Day Sunday or Public Holiday

Parameters:

Air Noise Water Location ID

MUP-A1 (Same as MUP01/02-A1), MUP-A2a, MUP-A3, MUP05-N1 (Same as MUP01/02-N1), MUP-N2, MUP-N3, MUP-N4, MUP-W1 (Same as MUP01/02-W1), MUP-W2 (Same as MUP01/02-W2), MUP-W3, MUP-W4, MUP-W5, MUP-W6 As location in MUP05

Ecology Survey

	Date	Air Qu	uality	NOISE	WATER	ECOLOG	Y
		1-hour TSP	24-hour TSP	-LEQ 30MIN	QUALITY	Water Quality	ECOLOGY SURVEYS
Tue	26-Oct-10						
Wed	27-Oct-10						
Thu	28-Oct-10						
Fri	29-Oct-10						
Sat	30-Oct-10						
Sun	31-Oct-10						
Mon	1-Nov-10						
Tue	2-Nov-10						
Wed	3-Nov-10						
Thu	4-Nov-10						
Fri	5-Nov-10						
Sat	6-Nov-10						
Sun	7-Nov-10						
Mon	8-Nov-10						
Tue	9-Nov-10						
Wed	10-Nov-10						
Thu	11-Nov-10						
Fri	12-Nov-10						
Sat	13-Nov-10						
Sun	14-Nov-10						
Mon	15-Nov-10						
Tue	16-Nov-10						
Wed	17-Nov-10						
Thu	18-Nov-10						
Fri	19-Nov-10						
Sat	20-Nov-10						
Sun	21-Nov-10						
Mon	22-Nov-10						
Tue	23-Nov-10						
Wed	24-Nov-10						
Thu	25-Nov-10						

Monitoring Schedule for Channels MUP in coming month

AUES

Monitoring Day
Sunday or Public Holiday

Parameters:

Air Noise Water

Ecology Survey

Location ID

MUP-A1 (Same as MUP01/02-A1), MUP-A2a, MUP-A3, MUP05-N1 (Same as MUP01/02-N1), MUP-N2, MUP-N3, MUP-N4, MUP-W1 (Same as MUP01/02-W1), MUP-W2 (Same as MUP01/02-W2), MUP-W3, MUP-W4, MUP-W5, MUP-W6 As location in MUP05



Appendix H

Detailed Impact Monitoring Data of Air Quality and Water Quality

DSD CONTRACT NO. DC/2007/08 Drainage Improvements Works in Tai Po Tin, Ping Che, Man Uk Pin and Lin Ma Hang 24- hour TSP Monitoring Data

										STANDARD		BLANK	BLANK	BLANK	BLANK	INITIAL	FINAL	WEIGHT			
DATE	SAMPLE	ELAPSED	ELAPSED	ELAPSED	MIN	MAX	AVG	AVG	AVG	FLOW	AIR	SAMPLE	INTIAL	FINAL	DIFF	FILTER	FILTER	DUST	Dust 24-hr TSP in Air		
	NUMBER	TIME	TIME	TIME	CHART	CHART	CHART	TEMP	PRESS	RATE	VOLUME	NUMBER	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	COLLECTED			
		INITIAL	FINAL	(min)	READING	READING	READING	(oC)	(hPa)	(m3/min)	(std m3)		(g)	(g)	(g)	(g)	(g)	(g)	(ug/m3)	Action Level	Limit Level
24-hour TSP	Monitoring Da	ta for MUP-A1	(same as MU	JP01/02-A1)																	
2-Oct-10	22632	2501.5	2525.09	1415.40	36	38	37	28.4	1011.7	1.3436	1901.72	NA	2.8565	2.8568	0.0010	2.8417	2.9273	0.0856	44	156	260
7-Oct-10	22684	2525.09	2548.87	1426.80	36	38	37	25.4	1012.3	1.3491	1924.83	NA	2.8572	2.8570	0.0010	2.8452	3.0011	0.1559	80	156	260
13-Oct-10	22730	2548.87	2572.57	1422.00	36	38	37	27.6	1011.9	1.3451	1912.68	NA	2.8567	2.8568	0.0010	2.7847	2.8569	0.0722	37	156	260
19-Oct-10	22753	2572.57	2596.65	1444.80	36	38	37	26.1	1009.8	1.3466	1945.52	NA	2.8550	2.8546	0.0010	2.7960	2.9274	0.1314	67	156	260
25-Oct-10	22776	2596.65	2620.72	1444.20	36	38	37	24.9	1011.0	1.3493	1948.60	NA	2.8495	2.8486	0.0010	2.8095	2.9175	0.1080	55	156	260
24-hour TSP	Monitoring Da	ta for MUP-A2	la	-								-			-			•			
2-Oct-10	power failure																		power failure	149	260
7-Oct-10	power failure																		power failure	149	260
13-Oct-10	22512	1614.22	1638.25	1441.80	36	38	37	27.6	1011.9	1.2398	1787.57	NA	2.8567	2.8568	0.001	2.84	3.0589	0.2189	122	149	260
19-Oct-10	22751	1638.25	1662.27	1441.2	36	38	37	26.1	1009.8	1.2412	1788.81	NA	2.855	2.8546	0.001	2.802	2.9836	0.1816	101	149	260
25-Oct-10	22774	1662.27	1686.35	1444.8	36	38	37	24.9	1011	1.2437	1796.84	NA	2.8495	2.8486	0.001	2.8213	2.944	0.1227	68	149	260
																				_	
24-hour TSP	Monitoring Da	ta for MUP-A3																			
2-Oct-10	22620	2413.21	2437.77	1473.60	36	38	37	28.4	1011.7	1.2685	1869.21	NA	2.8565	2.8568	0.001	2.8458	2.874	0.0282	15	150	260
7-Oct-10	22683	2437.77	2461	1393.80	36	38	37	25.4	1012.3	1.2736	1775.16	NA	2.8572	2.8570	0.001	2.8778	2.9606	0.0828	46	150	260
13-Oct-10	22729	2461	2484.17	1390.20	36	38	37	27.6	1011.9	1.2698	1765.34	NA	2.8567	2.8568	0.001	2.7901	2.8376	0.0475	26	150	260
19-Oct-10	22752	2484.17	2507.38	1392.60	36	38	37	26.1	1009.8	1.2713	1770.37	NA	2.8550	2.8546	0.0010	2.8023	2.9263	0.1240	69	150	260
25-Oct-10	power failure																		power failure	150	260

AUES

DSD CONTRACT NO. DC/2007/08 Drainage Improvements Works in Tai Po Tin, Ping Che, Man Uk Pin and Lin Ma Hang Water Quality Monitoring Data for MUP05

Date	27-	Sep-10												
Location	Time	Depth (m)	Tem	p(oC)	DO (1	ng/L)	DOS	6(%)	Turbidi	ty(NTU)	р	н	S	S
MUP-W1 (Control)	03:48	0.2	28.3	28.3	3.34	3.4	54.00	54.0	6.90	6.9	7.30	7.3	7.00	7.0
(MUP01/02-W1)	03:46	0.2	28.3	20.3	3.36	3.4	54.00	54.0	6.87	0.9	7.30	1.3	7.00	7.0
MUP-W2 (Control)	02:36	0.25	28.3	28.3	5.18	5.2	63.60	63.5	5.68	5.7	7.00	7.0	2.00	2.0
(MUP01/02-W2)	02:30	0.25	28.3	20.3	5.14	5.2	63.40	03.5	5.66	5.7	7.00	7.0	2.00	2.0
MUP-W3 (Control)	04:04	0.2	28.6	28.6	3.09	3.1	50.80	51.0	18.60	18.7	7.10	7.2	13.00	13.0
wop-ws (control)	04:04	0.2	28.6	26.0	3.18	3.1	51.20	51.0	18.80	16.7	7.20	1.2	13.00	13.0
MUD W/A (Imment)	02:58	0.45	28.6	28.6	5.33	5.3	65.60	65.4	7.69	7.7	7.30	7.3	<2	2.0
MUP-W4 (Impact)	02:56	0.45	28.6	26.0	5.32	5.3	65.20	00.4	7.74	1.1	7.30	1.3	<2	2.0
	00.00		28.4	00.4	4.59		57.30		6.31	()	7.20	7.0	<2	
MUP-W5 (mobile)	03:22	0.6	28.4	28.4	4.56	4.6	56.80	57.1	6.38	6.3	7.20	7.2	<2	2.0
MUP-W6 (mobile)	03:10	0.3	28.7	28.7	4.74	4.7	58.70	58.5	7.01	7.0	7.30	7.3	<2	2.0
WOP-W6 (mobile)	03:10	0.3	28.7	26.7	4.72	4.7	58.30	56.5	7.06	7.0	7.30	1.3	<2	2.0

Date	29-	Sep-10												
Location	Time	Depth (m)	Tem	o(oC)	DO (1	ng/L)	DOS	6(%)	Turbidi	ty(NTU)	р	н	S	S
MUP-W1 (Control)	03:30	0.2	28.3	28.3	3.24	3.3	55.00	54.9	6.44	6.5	7.20	7.2	6.00	6.0
(MUP01/02-W1)	03:30	0.2	28.3	26.3	3.26	3.3	54.70	54.9	6.46	0.0	7.20	1.2	6.00	0.0
MUP-W2 (Control)	02:18	0.25	28.2	28.2	5.17	5.2	64.60	64.3	5.77	5.7	7.10	7.1	3.00	3.0
(MUP01/02-W2)	02:18	0.25	28.2	26.2	5.19	5.2	64.00	04.3	5.72	5. <i>1</i>	7.10	7.1	3.00	3.0
			28.6		3.08	3.1	52.60	50.0	16.60	44.7	7.30	7.0	22.00	22.0
MUP-W3 (Control)	03:44	0.2	28.6	28.6	3.11	3.1	52.90	52.8	16.80	16.7	7.30	7.3	22.00	22.0
	02:39	0.45	28.7	28.7	5.32	5.3	66.00	65.9	8.94	8.9	7.30	7.3	<2	2.0
MUP-W4 (Impact)	02:39	0.45	28.7	26.7	5.28	5.3	65.80	05.9	8.93	0.9	7.30	1.3	<2	2.0
MUP-W5 (mobile)	03:00	0.55	28.5	28.5	4.61	5.0	57.20	57.0	6.41	6.4	7.20	7.3	<2	2.0
wor-wo (mobile)	03:00	U.55	28.5	26.5	5.46	5.0	56.80	57.0	6.38	0.4	7.30	1.3	<2	2.0
	03.50	0.2	28.7	20.7	4.76	4.0	58.20	50.4	7.11	7.1	7.20	7.0	<2	2.0
MUP-W6 (mobile)	02:50	0.3	28.7	28.7	4.77	4.8	58.60	58.4	7.08	7.1	7.20	7.2	<2	2.0

Date	2-0	Oct-10												
Location	Time	Depth (m)	Tem	p(oC)	D0 (r	mg/L)	DOS	6(%)	Turbidi	ty(NTU)	р	н	S	s
MUP-W1 (Control)	11:36	0.2	28.1	00.4	3.36		52.60	50.7	7.24	7.0	7.20	7.2	6.00	
(MUP01/02-W1)	11:36	0.2	28.1	28.1	3.42	3.4	52.80	52.7	7.19	7.2	7.20	1.2	6.00	6.0
MUP-W2 (Control)	10:20	0.25	28.2	28.2	5.18	5.2	62.60	62.4	5.48	5.5	7.10	7.1	2.00	2.0
(MUP01/02-W2)	10:20	0.25	28.2	28.2	5.14	5.2	62.20	62.4	5.53	5.5	7.10	7.1	2.00	2.0
MUP-W3 (Control)	11:50	0.2	28.4	28.4	3.08	3.1	49.60	50.2	13.20	13.3	7.00	7.0	<2	2.0
MOP-W3 (Control)	11:50	0.2	28.4	20.4	3.13	3.1	50.70	50.2	13.30	13.3	6.90	7.0	<2	2.0
	10:41	0.45	28.6	28.6	5.36	5.4	64.40	64.6	8.19	8.2	7.20	7.2	<2	2.0
MUP-W4 (Impact)	10:41	0.45	28.6	20.0	5.39	5.4	64.80	04.0	8.22	0.2	7.20	1.2	<2	2.0
MUP-W5 (mobile)	11:03	0.45	28.3	28.3	4.67	4.7	56.90	57.3	6.72	6.7	7.30	7.3	<2	2.0
wop-ws (mobile)	11:03	0.45	28.3	20.3	4.69	4.7	57.70	57.3	6.70	0.7	7.30	7.5	<2	2.0
	10.50	0.2	28.3	20.2	4.87	4.0	58.00	577	7.68	77	7.10	7.1	<2	2.0
MUP-W6 (mobile)	10:52	0.3	28.3	28.3	4.82	4.8	57.30	57.7	7.64	7.7	7.10	7.1	<2	2.0

Date	4-0	Oct-10												
Location	Time	Depth (m)	Tem	p(oC)	DO (I	ng/L)	DOS	6(%)	Turbidi	ty(NTU)	р	н	S	is
MUP-W1 (Control)	15:16	0.2	26.1	26.1	3.37	3.4	55.00	55.1	6.39	6.4	7.00	7.0	6.00	6.0
(MUP01/02-W1)	15:10	0.2	26.1	20.1	3.39	3.4	55.10	55.1	6.42	0.4	7.00	7.0	6.00	0.0
MUP-W2 (Control)	14:06	0.25	26.1	26.1	5.16	5.2	63.00	63.3	5.39	5.4	7.00	7.1	<2	2.0
(MUP01/02-W2)	14:00	0.25	26.1	20.1	5.18	5.2	63.50	03.3	5.36	0.4	7.10	7.1	<2	2.0
MUP-W3 (Control)	15:37	0.2	26.5	26.5	3.10	3.1	52.00	52.2	18.40	18.3	7.30	7.3	17.00	17.0
NUP-W3 (Control)	15:37	0.2	26.5	20.5	3.16	3.1	52.30	5Z.Z	18.20	16.3	7.30	1.3	17.00	17.0
	14:28	0.4	26.3	26.3	5.33	5.3	63.80	63.8	7.25	7.3	7.20	7.2	<2	2.0
MUP-W4 (Impact)	14:26	0.4	26.3	20.3	5.34	5.3	63.70	03.0	7.27	1.3	7.20	1.2	<2	2.0
MUP-W5 (mobile)	14:50	0.5	26.6	26.6	4.69	4.7	58.20	58.1	5.41	5.4	7.00	7.1	<2	2.0
MOF-W5 (Hobile)	14.50	0.5	26.6	20.0	4.72	4.7	57.90	30.1	5.44	3.4	7.10	7.1	<2	2.0
MUP-W6 (mobile)	14:38	0.3	26.5	26.5	4.82	4.8	59.60	59.5	7.21	7.2	7.20	7.2	<2	2.0
wor-wo (mobile)	14:30	0.3	26.5	20.0	4.80	4.0	50 30	57.5	7.24	1.2	7.20	1.2	-2	2.0

Date	6-0	Oct-10												
Location	Time	Depth (m)	Tem	o(oC)	D0 (r	ng/L)	DOS	6(%)	Turbidi	ty(NTU)	р	н	S	s
MUP-W1 (Control)	03:22	0.2	24.1	24.1	3.28	3.3	52.10	52.3	9.11	9.1	7.20	7.2	5.00	5.0
(MUP01/02-W1)	03:22	0.2	24.1	24.1	3.36	3.3	52.50	52.3	9.03	9.1	7.20	1.2	5.00	5.0
MUP-W2 (Control)	02:08	0.25	24.0	24.0	5.20	5.2	64.80	64.6	5.47	5.5	7.00	7.0	<2	2.0
(MUP01/02-W2)	02:06	0.25	24.0	24.0	5.17	5.2	64.40	04.0	5.44	5.5	7.00	7.0	<2	2.0
MUP-W3 (Control)	03:38	0.2	24.3	24.3	3.09	3.1	51.20	51.4	17.60	17.7	7.40	7.4	17.00	17.0
MOP-W3 (Control)	03:36	0.2	24.3	24.3	3.11	3.1	51.60	51.4	17.70	17.7	7.30	7.4	17.00	17.0
MUP-W4 (Impact)	02:32	0.45	24.3	24.3	5.31	5.3	63.90	63.8	8.69	8.7	7.20	7.2	<2	2.0
MOP-W4 (Impact)	02:32	0.45	24.3	24.3	5.32	5.3	63.70	03.8	8.66	0.7	7.10	1.2	<2	2.0
MUP-W5 (mobile)	02:56	0.4	24.5	24.5	4.68	4.7	56.70	56.4	6.82	6.9	7.20	7.2	<2	2.0
wor-ws (mobile)	02:50	0.4	24.5	24.0	4.66	4.7	56.10	50.4	6.88	0.9	7.20	1.2	<2	2.0
MUP-W6 (mobile)	02:46	0.35	24.2	24.2	4.74	4.8	58.20	58.4	6.77	6.8	7.10	7.1	<2	2.0
MOP-W6 (mobile)	02:40	0.35	24.2	24.2	4.77	4.0	58.60	36.4	6.74	0.0	7.10	7.1	<2	2.0

Date	8-0	ct-10												
Location	Time	Depth (m)	Temp	(oC)	D0 (r	ng/L)	DOS	6(%)	Turbidi	ty(NTU)	р	н	S	s
MUP-W1 (Control)	03:16	0.2	25.8	25.8	3.29	3.3	50.60	51.0	8.83	8.9	7.10	7.2	8.00	8.0
(MUP01/02-W1)	03:10	0.2	25.8	25.6	3.34	3.3	51.30	51.0	8.88	0.9	7.20	1.2	8.00	8.0
MUP-W2 (Control)	02:00	0.25	25.4	25.4	5.22	5.2	64.40	64.6	4.21	4.2	7.10	7.1	3.00	3.0
(MUP01/02-W2)	02:00	0.25	25.4	25.4	5.26	5.2	64.70	04.0	4.24	4.2	7.10	7.1	3.00	3.0
MUP-W3 (Control)	03:32	0.25	25.6	25.6	3.28	3.3	52.30	52.2	17.80	17.8	7.40	7.4	27.00	27.0
WOP-W3 (Control)	03.32	0.25	25.6	25.0	3.26	3.3	52.00	32.2	17.70	17.0	7.30	7.4	27.00	27.0
MUP-W4 (Impact)	02:22	0.45	25.6	25.6	5.30	5.3	65.50	65.7	8.11	8.1	7.30	7.3	<2	2.0
WOP-W4 (Impact)	02.22	0.45	25.6	23.0	5.31	0.5	65.80	03.7	8.08	0.1	7.20	1.5	<2	2.0
MUP-W5 (mobile)	02:48	0.35	25.4	25.4	4.61	4.6	57.70	57.5	6.58	6.6	7.10	7.1	<2	2.0
wop-ws (mobile)	02:46	0.35	25.4	25.4	4.59	4.0	57.30	57.5	6.54	0.0	7.10	7.1	<2	2.0
MUP-W6 (mobile)	02:34	0.3	25.3	25.3	4.88	4.9	59.80	59.5	7.23	7.3	7.00	7.1	<2	2.0
wor-wo (mobile)	UZ:34	U.3	25.3	20.3	4.84	4.9	59.10	24.2	7.29	1.5	7.10	7.1	<2	2.0

Date	11-	Oct-10												
Location	Time	Depth (m)	Tem	(oC)	D0 (r	ng/L)	DOS	(%)	Turbidi	ty(NTU)	р	н	S	s
MUP-W1 (Control)	15:20	0.2	27.9	27.9	3.36	3.3	51.20	51.1	5.88	5.9	7.20	7.2	5.00	5.0
(MUP01/02-W1)	15.20	0.2	27.9	21.7	3.31	3.5	51.00	51.1	5.93	3.7	7.20	1.2	5.00	5.0
MUP-W2 (Control)	14:05	0.25	27.8	27.8	5.20	5.2	62.10	61.8	4.63	4.6	7.00	7.0	<2	2.0
(MUP01/02-W2)	14.05	0.25	27.8	27.0	5.17	5.2	61.40	01.0	4.66	4.0	7.00	7.0	<2	2.0
MUP-W3 (Control)	15:36	0.2	28.3	28.3	3.08	3.1	48.90	48.6	12.60	12.7	7.30	7.3	10.00	10.0
WOP-W3 (CONTO)	15.50	0.2	28.3	20.5	3.12	3.1	48.30	40.0	12.80	12.7	7.30	1.5	10.00	10.0
MUP-W4 (Impact)	14:30	0.45	28.3	28.3	5.28	5.3	62.70	62.9	7.63	7.6	7.20	7.2	<2	2.0
WOP-W4 (Impact)	14.30	0.45	28.3	20.5	5.30	5.5	63.00	02.7	7.59	7.0	7.10	1.2	<2	2.0
MUP-W5 (mobile)	14:52	0.5	28.4	28.4	4.69	4.7	56.70	56.7	6.43	6.4	7.20	7.3	<2	2.0
WOP-W3 (mobile)	14.52	0.5	28.4	20.4	4.64	4.7	56.60	50.7	6.46	0.4	7.30	1.5	<2	2.0
MUP-W6 (mobile)	14:40	0.3	28.2	28.2	4.84	4.9	58.20	58.5	6.88	6.9	7.10	7.2	<2	2.0
MOP-W8 (mobile)	14.40	0.3	28.2	20.2	4.86	4.7	58.80	38.5	6.92	0.7	7.20	1.2	<2	2.0
Date	13-	Oct-10												
Location	Time	Depth (m)	Tem	o(oC)	D0 (r	ng/L)	DOS	(%)	Turbidi	ty(NTU)	р	н	S	s

Location	Time	Depth (m)	Temp(oC)	DO (mg/L)	DOS(%)	Turbidity(NTU)	pН	SS
								-

AUES

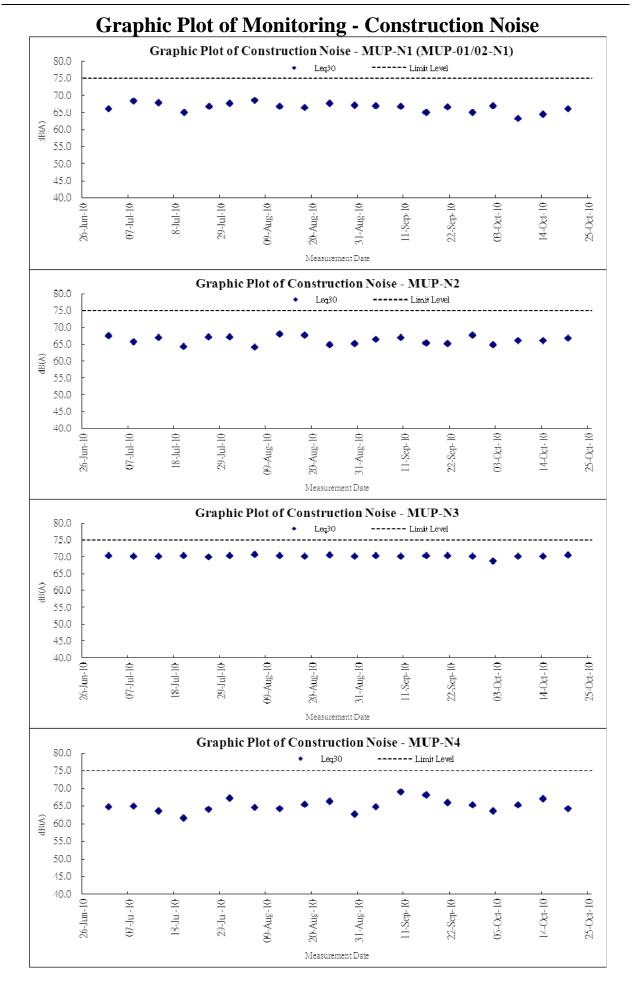
DSD CONTRACT NO. DC/2007/08 Drainage Improvements Works in Tai Po Tin, Ping Che, Man Uk Pin and Lin Ma Hang Water Quality Monitoring Data for MUP05

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MUP-W1 (Control)	15:28	0.2	28.4	28.4	3.40	3.4	53.00	52.8	9.13	9.1	7.20	7.2	10.00	10.0
(MUP01/02-W1) MUP-W2 (Control)			28.4 28.2		3.36 5.18		52.60 62.10		9.16 5.66		7.20 7.20		10.00 2.00	
(MUP01/02-W2)	14:10	0.25	28.2	28.2	5.14	5.2	61.80	62.0	5.71	5.7	7.10	7.2	2.00	2.0
MUP-W3 (Control)	15:45	0.2	28.8	28.8	3.19	3.2	50.60	50.4	14.20	14.4	7.10	7.1	19.00	19.0
Mor -W3 (control)	13.45	0.2	28.8	20.0	3.14	3.2	50.10	50.4	14.50	14.4	7.10	7.1	19.00	17.0
MUP-W4 (Impact)	14:36	0.4	28.4	28.4	5.33	5.3	63.80	63.9	7.66	7.7	7.10	7.2	<2	2.0
			28.4 28.5		5.36 4.58		63.90 56.20		7.64 6.20		7.20 7.10		<2	
MUP-W5 (mobile)	15:00	0.5	28.5	28.5	4.54	4.6	56.80	56.5	6.28	6.2	7.10	7.1	<2	2.0
MUP-W6 (mobile)	14:47	0.45	28.3	28.3	4.69	4.7	58.60	58.7	8.33	8.3	7.20	7.2	<2	2.0
WOP-W8 (HODIE)	14.47	0.45	28.3	20.3	4.73	4.7	58.80	56.7	8.36	0.5	7.20	1.2	<2	2.0
D .1.														
Date Location	Time	Oct-10 Depth (m)	Tem	n(oC)	DO (1	mg/L)	DOS	6(%)	Turbidi	ty/NTU)	р	ч	s	s
MUP-W1 (Control)			25.3		3.32		53.90		6.21		7.20		6.00	
(MUP01/02-W1)	15:26	0.2	25.3	25.3	3.29	3.3	53.10	53.5	6.25	6.2	7.10	7.2	6.00	6.0
MUP-W2 (Control)	14:16	0.2	25.1	25.1	5.13	5.1	63.60	63.2	4.94	5.0	7.00	7.0	<2	2.0
(MUP01/02-W2)	11.10	0.2	25.1	20.1	5.12	0.1	62.80	00.2	4.98	0.0	7.00	7.0	<2	2.0
MUP-W3 (Control)	15:41	0.2	25.6 25.6	25.6	3.08	3.1	50.60 51.60	51.1	14.60 14.50	14.6	7.00 6.90	7.0	3.00	3.0
			25.6		5.33		51.00		8.84		7.20		<2	
MUP-W4 (Impact)	14:40	0.4	25.4	25.4	5.30	5.3	5.30	5.3	8.90	8.9	7.10	7.2	<2	2.0
MUP-W5 (mobile)	15:00	0.45	25.6	25.6	4.58	4.6	4.58	4.6	6.03	6.1	7.20	7.2	<2	2.0
(mobile)	10:00	0.40	25.6	∠J.0	4.54	4.0	4.54	4.0	6.08	0.1	7.10	1.2	<2	2.0
MUP-W6 (mobile)	14:50	0.3	25.8	25.8	4.74	4.7	59.40	59.3	7.21	7.2	7.10	7.1	<2	2.0
		1	25.8	1	4.70	I	59.10	1	7.24	1	7.10		<2	
Date	18-	Oct-10												1
Location	Time	Depth (m)	Tem	p(oC)	DO (I	mg/L)	DOS	6(%)	Turbidi	ty(NTU)	р	н	s	s
MUP-W1 (Control)	03:30	0.2	28.2	28.2	3.30	3.3	52.60	52.8	8.82	8.9	7.20	7.2	2.00	2.0
(MUP01/02-W1)	03.30	0.2	28.2	20.2	3.33	0.0	52.90	32.0	8.89	0.7	7.20	1.2	2.00	2.0
MUP-W2 (Control) (MUP01/02-W2)	02:20	0.25	27.8	27.8	5.18	5.2	63.30	63.2	5.36	5.4	7.10	7.1	<2	2.0
(MUP01/02-W2)			27.8 28.0		5.14 3.03		63.00 50.10		5.34 14.40		7.10 7.10		<2	
MUP-W3 (Control)	03:44	0.3	28.0	28.0	3.06	3.0	50.60	50.4	14.50	14.5	7.10	7.1	<2	2.0
	00.40	0.45	28.1	00.4	5.29		63.90		8.62		7.20	7.0	<2	
MUP-W4 (Impact)	02:40	0.45	28.1	28.1	5.33	5.3	64.40	64.2	8.63	8.6	7.20	7.2	<2	2.0
MUP-W5 (mobile)	03:02	0.5	28.3	28.3	4.50	4.5	57.10	57.2	6.79	6.8	7.00	7.0	<2	2.0
			28.3 28.2		4.53		57.30 58.80		6.82 7.03		7.00		<2	
MUP-W6 (mobile)	02:50	0.35	28.2	28.2	4.67	4.7	58.20	58.5	7.03	7.1	7.10	7.1	<2	2.0
		1	20.2		1.07		00.20		7.11	I	7.10			
Date	20-	Oct-10												
Date Location	20- Time	Oct-10 Depth (m)	Tem	p(oC)		mg/L)		6(%)		ty(NTU)	р	н	s	s
Location MUP-W1 (Control)		1	26.2	p(oC) 26.2	3.26	mg/L) 3.3	54.10	54.0	8.89	ty(NTU) 9.0	7.00	H 7.0	12.00	s 12.0
Location MUP-W1 (Control) (MUP01/02-W1)	Time	Depth (m)	26.2 26.2		3.26 3.24		54.10 53.80		8.89 9.13		7.00		12.00 12.00	-
Location MUP-W1 (Control)	Time	Depth (m)	26.2		3.26		54.10		8.89		7.00		12.00	-
Location MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control) (MUP01/02-W2)	Time 03:29 02:20	Depth (m) 0.25 0.2	26.2 26.2 25.9	26.2 25.9	3.26 3.24 5.18	3.3 5.2	54.10 53.80 61.90	54.0 61.8	8.89 9.13 4.82	9.0 4.9	7.00 7.00 7.00	7.0 7.1	12.00 12.00 <2	12.0 2.0
Location MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control)	Time 03:29	Depth (m) 0.25	26.2 26.2 25.9 25.9 26.2 26.2	26.2	3.26 3.24 5.18 5.14 3.08 3.02	3.3	54.10 53.80 61.90 61.70 50.40 49.80	54.0	8.89 9.13 4.82 4.88 12.60 12.90	9.0	7.00 7.00 7.00 7.10 6.90 6.90	7.0	12.00 12.00 <2 <2 14.00 14.00	12.0
Location MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control) (MUP01/02-W2)	Time 03:29 02:20	Depth (m) 0.25 0.2	26.2 26.2 25.9 25.9 26.2 26.2 26.2 26.2	26.2 25.9	3.26 3.24 5.18 5.14 3.08 3.02 5.29	3.3 5.2	54.10 53.80 61.90 61.70 50.40 49.80 62.90	54.0 61.8	8.89 9.13 4.82 4.88 12.60 12.90 9.68	9.0 4.9	7.00 7.00 7.00 7.10 6.90 6.90 7.20	7.0 7.1	12.00 12.00 <2 <2 14.00 14.00 <2	12.0 2.0
Location MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control) (MUP01/02-W2) MUP-W3 (Control)	Time 03:29 02:20 03:45	Depth (m) 0.25 0.2 0.2	26.2 26.2 25.9 25.9 26.2 26.2 26.2 26.2 26.2	26.2 25.9 26.2	3.26 3.24 5.18 5.14 3.08 3.02 5.29 5.31	- 3.3 - 5.2 - 3.1	54.10 53.80 61.90 61.70 50.40 49.80 62.90 63.30	54.0 61.8 50.1	8.89 9.13 4.82 4.88 12.60 12.90 9.68 9.62	9.0 4.9 12.8	7.00 7.00 7.00 7.10 6.90 6.90 7.20 7.20	7.0 7.1 6.9	12.00 12.00 <2 <2 14.00 14.00 <2 <2 <2	12.0 2.0 14.0
Location MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control) (MUP01/02-W2) MUP-W3 (Control)	Time 03:29 02:20 03:45	Depth (m) 0.25 0.2 0.2	26.2 26.2 25.9 25.9 26.2 26.2 26.2 26.2	26.2 25.9 26.2	3.26 3.24 5.18 5.14 3.08 3.02 5.29	- 3.3 - 5.2 - 3.1	54.10 53.80 61.90 61.70 50.40 49.80 62.90	54.0 61.8 50.1	8.89 9.13 4.82 4.88 12.60 12.90 9.68	9.0 4.9 12.8	7.00 7.00 7.00 7.10 6.90 6.90 7.20	7.0 7.1 6.9	12.00 12.00 <2 <2 14.00 14.00 <2	12.0 2.0 14.0
Location MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control) (MUP01/02-W2) MUP-W3 (Control) MUP-W4 (Impact) MUP-W5 (mobile)	Time 03:29 02:20 03:45 02:44 03:00	Depth (m) 0.25 0.2 0.2 0.2 0.45 0.4	26.2 25.9 25.9 26.2 26.2 26.2 26.2 26.2 26.2 26.3	26.2 25.9 26.2 26.2 26.2 26.3	3.26 3.24 5.18 5.14 3.08 3.02 5.29 5.31 4.49	3.3 5.2 3.1 5.3 4.5	54.10 53.80 61.90 61.70 50.40 49.80 62.90 63.30 56.40	54.0 61.8 50.1 63.1 56.7	8.89 9.13 4.82 4.88 12.60 12.90 9.68 9.62 6.86	9.0 4.9 12.8 9.7 6.9	7.00 7.00 7.00 7.10 6.90 6.90 7.20 7.30	7.0 7.1 6.9 7.2 7.3	12.00 12.00 <2 <2 14.00 14.00 <2 <2 <2 <2 <2 <2	12.0 2.0 14.0 2.0 2.0
Location MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control) (MUP01/02-W2) MUP-W3 (Control) MUP-W4 (Impact)	Time 03:29 02:20 03:45 02:44	Depth (m) 0.25 0.2 0.2 0.2 0.2	26.2 25.9 25.9 26.2 26.2 26.2 26.2 26.2 26.2 26.3 26.3	26.2 25.9 26.2 26.2	3.26 3.24 5.18 5.14 3.08 3.02 5.29 5.31 4.49 4.52	3.3 5.2 3.1 5.3	54.10 53.80 61.90 61.70 50.40 49.80 62.90 63.30 56.40 56.90	54.0 61.8 50.1 63.1	8.89 9.13 4.82 4.88 12.60 12.90 9.68 9.62 6.86 6.91	9.0 4.9 12.8 9.7	7.00 7.00 7.10 6.90 6.90 7.20 7.20 7.30 7.20	7.0 7.1 6.9 7.2	12.00 12.00 <2 <2 14.00 14.00 <2 <2 <2 <2 <2 <2 <2 <2	12.0 2.0 14.0 2.0
Location MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control) (MUP01/02-W2) MUP-W3 (Control) MUP-W4 (Impact) MUP-W5 (mobile) MUP-W6 (mobile)	Time 03:29 02:20 03:45 02:44 03:00 02:55	Depth (m) 0.25 0.2 0.2 0.2 0.45 0.4 0.3	26.2 25.9 25.9 26.2 26.2 26.2 26.2 26.2 26.2 26.3 26.3	26.2 25.9 26.2 26.2 26.2 26.3	3.26 3.24 5.18 5.14 3.08 3.02 5.29 5.31 4.49 4.52 4.68	3.3 5.2 3.1 5.3 4.5	54.10 53.80 61.90 61.70 50.40 49.80 62.90 63.30 56.40 56.90 58.80	54.0 61.8 50.1 63.1 56.7	8.89 9.13 4.82 4.88 12.60 12.90 9.68 9.62 6.86 6.91 7.03	9.0 4.9 12.8 9.7 6.9	7.00 7.00 7.10 6.90 6.90 7.20 7.20 7.30 7.20 7.30	7.0 7.1 6.9 7.2 7.3	12.00 12.00 <2 <2 14.00 14.00 2 <2 <2 <2 <2 <2 <2 <2	12.0 2.0 14.0 2.0 2.0
Location MUP-W1 (Control) (MUP01/02-W1) (MUP01/02-W2) MUP-W2 (Control) MUP-W3 (Control) MUP-W3 (Control) MUP-W4 (Impact) MUP-W6 (mobile) Date	Time 03:29 02:20 03:45 02:44 03:00 02:55 22-	Depth (m) 0.25 0.2 0.2 0.2 0.45 0.4 0.3 Oct-10	26.2 26.2 25.9 25.9 26.2 26.2 26.2 26.2 26.2 26.3 26.3 26.1 26.1	26.2 25.9 26.2 26.2 26.3 26.1	3.26 3.24 5.18 5.14 3.08 3.02 5.29 5.31 4.49 4.52 4.68 4.66	3.3 5.2 3.1 5.3 4.5 4.7	54.10 53.80 61.90 61.70 50.40 49.80 62.90 53.640 56.90 58.80 58.20	54.0 61.8 50.1 63.1 56.7 58.5	8.89 9.13 4.82 4.88 12.60 12.90 9.68 9.62 6.86 6.91 7.03 7.10	9.0 4.9 12.8 9.7 6.9 7.1	7.00 7.00 7.00 7.10 6.90 6.90 7.20 7.20 7.30 7.20 7.30 7.30	7.0 7.1 6.9 7.2 7.3 7.3	12.00 12.00 <2 <2 14.00 14.00 2 <2 <2 <2 <2 <2 <2 <2	12.0 2.0 14.0 2.0 2.0 2.0 2.0
Location MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control) (MUP01/02-W2) MUP-W3 (Control) MUP-W3 (Mobile) MUP-W5 (mobile) MUP-W6 (mobile) Date Location	Time 03:29 02:20 03:45 02:44 03:00 02:55 22- Time	Depth (m) 0.25 0.2 0.2 0.45 0.4 0.3 Oct-10 Depth (m)	26.2 26.2 25.9 25.9 26.2 26.2 26.2 26.2 26.3 26.3 26.1 26.1	26.2 25.9 26.2 26.2 26.3 26.3 26.1	3.26 3.24 5.18 5.14 3.02 5.29 5.31 4.49 4.52 4.68 4.66 DO (r	3.3 5.2 3.1 5.3 4.5 4.7	54.10 53.80 61.90 61.70 50.40 62.90 63.30 56.40 56.90 58.80 58.20	54.0 61.8 50.1 63.1 56.7 58.5	8.89 9.13 4.82 4.88 12.60 9.68 9.62 6.86 6.91 7.03 7.10 Turbidi	9.0 4.9 12.8 9.7 6.9 7.1	7.00 7.00 7.00 7.10 6.90 7.20 7.20 7.20 7.20 7.30 7.30 7.30	7.0 7.1 6.9 7.2 7.3 7.3 H	12.00 12.00 <2 <2 <2 14.00 14.00 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	12.0 2.0 14.0 2.0 2.0 2.0 8
Location MUP-W1 (Control) (MUP01/02-W1) (MUP01/02-W2) MUP-W2 (Control) MUP-W3 (Control) MUP-W3 (Control) MUP-W4 (Impact) MUP-W6 (mobile) Date	Time 03:29 02:20 03:45 02:44 03:00 02:55 22-	Depth (m) 0.25 0.2 0.2 0.2 0.45 0.4 0.3 Oct-10	26.2 26.2 25.9 25.9 26.2 26.2 26.2 26.2 26.2 26.3 26.3 26.1 26.1	26.2 25.9 26.2 26.2 26.3 26.1	3.26 3.24 5.18 5.14 3.08 3.02 5.29 5.31 4.49 4.52 4.68 4.66	3.3 5.2 3.1 5.3 4.5 4.7	54.10 53.80 61.90 61.70 50.40 49.80 62.90 53.640 56.90 58.80 58.20	54.0 61.8 50.1 63.1 56.7 58.5	8.89 9.13 4.82 4.88 12.60 12.90 9.68 9.62 6.86 6.91 7.03 7.10	9.0 4.9 12.8 9.7 6.9 7.1	7.00 7.00 7.00 7.10 6.90 6.90 7.20 7.20 7.30 7.20 7.30 7.30	7.0 7.1 6.9 7.2 7.3 7.3	12.00 12.00 <2 <2 14.00 14.00 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	12.0 2.0 14.0 2.0 2.0 2.0 2.0
Location MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control) (MUP01/02-W2) MUP-W3 (Control) MUP-W4 (Impact) MUP-W4 (Impact) MUP-W5 (mobile) Date Location MUP-W1 (Control) MUP-W1 (Control)	Time 03:29 02:20 03:45 02:44 03:00 02:55 22- Time	Depth (m) 0.25 0.2 0.4 0.4 0.3 0ct-10 Depth (m) 0.3	26.2 26.2 25.9 26.2 26.2 26.2 26.2 26.2 26.3 26.3 26.1 26.1 26.1 26.1 26.1 26.1	26.2 25.9 26.2 26.2 26.3 26.1 26.1	3.26 3.24 5.18 5.14 3.08 3.02 5.29 5.31 4.49 4.52 4.68 4.66 DO (r 3.36 3.32 5.26	- 3.3 - 5.2 - 3.1 - 5.3 - 4.5 - 4.7 - 3.3	54.10 53.80 61.90 61.70 50.40 62.90 63.30 56.40 56.90 56.90 58.80 58.20 DOS 53.70 53.00 62.60	54.0 61.8 50.1 63.1 56.7 58.5 (%) 53.4	8.89 9.13 4.82 4.88 12.60 12.90 9.62 6.86 6.91 7.03 7.10 Turbidi 9.19 9.23 5.96	9.0 4.9 12.8 9.7 6.9 7.1 ty(NTU) 9.2	7.00 7.00 7.00 7.10 6.90 7.20 7.20 7.20 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.3	7.0 7.1 6.9 7.2 7.3 7.3 H	12.00 12.00 <2 <2 <2 14.00 14.00 <4 2 <2 <2 <2 <2 <2 <2 <2 <2 <2	12.0 2.0 14.0 2.0 2.0 2.0 8
Location MUP-W1 (Control) (MUP01/02-W1) (MUP1/02-W1) MUP-W2 (Control) MUP-W3 (Control) MUP-W3 (Mup2) MUP-W4 (Impact) MUP-W6 (mobile) MUP-W6 (mobile) Date Location MUP-W1 (Control) (MUP01/02-W1)	Time 03:29 02:20 03:45 02:44 03:00 02:55 22- Time 03:15	Depth (m) 0.25 0.2 0.2 0.45 0.4 0.3 Oct-10 Depth (m)	26.2 26.2 25.9 25.9 26.2 26.2 26.2 26.3 26.3 26.3 26.1 26.1 26.1 26.1 24.3 24.3 24.3 24.2	26.2 25.9 26.2 26.2 26.3 26.3 26.1	3.26 3.24 5.18 5.14 3.08 3.02 5.29 5.31 4.49 4.52 4.68 4.66 DO (r 3.36 3.32 5.26 5.22	3.3 5.2 3.1 5.3 4.5 4.7	54.10 53.80 61.90 61.70 50.40 49.80 62.90 63.30 56.40 56.40 56.90 58.80 58.20 58.20 53.70 53.70 62.60 62.10	54.0 61.8 50.1 63.1 56.7 58.5	8.89 9.13 4.82 4.88 12.60 12.90 9.68 6.86 6.91 7.03 7.10 Turbidi 9.19 9.19 9.25 5.96 6.03	9.0 4.9 12.8 9.7 6.9 7.1	7.00 7.00 7.00 6.90 6.90 7.20 7.20 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.3	7.0 7.1 6.9 7.2 7.3 7.3 H	12.00 12.00 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	12.0 2.0 14.0 2.0 2.0 2.0 2.0 5 72.0
Location MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control) (MUP01/02-W2) MUP-W3 (Control) MUP-W4 (Impact) MUP-W4 (Impact) MUP-W5 (mobile) Date Location MUP-W1 (Control) MUP-W1 (Control)	Time 03:29 02:20 03:45 02:44 03:00 02:55 22- Time 03:15	Depth (m) 0.25 0.2 0.4 0.4 0.3 0ct-10 Depth (m) 0.3	26.2 26.2 25.9 26.2 26.2 26.2 26.2 26.2 26.3 26.3 26.1 26.1 26.1 26.1 26.1 26.1	26.2 25.9 26.2 26.2 26.3 26.1 26.1	3.26 3.24 5.18 5.14 3.08 3.02 5.29 5.31 4.49 4.52 4.68 4.66 DO (r 3.36 3.32 5.26	- 3.3 - 5.2 - 3.1 - 5.3 - 4.5 - 4.7 - 3.3	54.10 53.80 61.90 61.70 50.40 62.90 63.30 56.40 56.90 56.90 58.80 58.20 DOS 53.70 53.00 62.60	54.0 61.8 50.1 63.1 56.7 58.5 (%) 53.4	8.89 9.13 4.82 4.88 12.60 12.90 9.62 6.86 6.91 7.03 7.10 Turbidi 9.19 9.23 5.96	9.0 4.9 12.8 9.7 6.9 7.1 ty(NTU) 9.2	7.00 7.00 7.00 7.10 6.90 7.20 7.20 7.20 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.3	7.0 7.1 6.9 7.2 7.3 7.3 H	12.00 12.00 <2 <2 14.00 14.00 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	12.0 2.0 14.0 2.0 2.0 2.0 2.0 5 72.0
Location MUP-W1 (Control) (MUP01/02-W1) (MUP-W2 (Control) (MUP-W2 (Control) MUP-W3 (Control) MUP-W4 (Impact) MUP-W5 (mobile) Date Location MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control) (MUP01/02-W2) MUP-W3 (Control)	Time 03:29 02:20 03:45 02:44 03:00 02:55 22- Time 03:15 02:00 03:30	Depth (m) 0.25 0.2 0.2 0.2 0.3 Depth (m) 0.3 0.3 0.3 0.3	26.2 25.9 25.9 26.2 26.2 26.2 26.2 26.3 26.3 26.3 26.1 26.1 26.1 24.3 24.3 24.3 24.2 24.2 24.4	26.2 25.9 26.2 26.2 26.3 26.1 24.3 24.3 24.2 24.4	3.26 3.24 5.18 5.14 3.08 3.02 5.29 5.31 4.49 4.52 4.66 4.66 DO (r 3.36 3.36 3.32 5.26 5.22 3.11	- 3.3 - 5.2 - 3.1 - 5.3 - 4.5 - 4.7 - 3.3 - 5.2 - 3.1	54.10 53.80 61.70 50.40 49.80 62.90 63.30 56.40 56.90 58.80 58.20 58.20 58.20 58.20 53.70 53.00 62.10 52.10	54.0 61.8 50.1 63.1 56.7 58.5 53.4 62.4 52.2	8.89 9.13 4.82 4.88 12.60 12.90 9.68 9.62 6.86 6.91 7.03 7.10 Turbidi 9.19 9.23 5.96 6.03 15.10	9.0 4.9 12.8 9.7 6.9 7.1 ty(NTU) 9.2 6.0 15.3	7.00 7.00 7.00 7.10 6.90 7.20 7.20 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.3	7.0 7.1 6.9 7.2 7.3 7.3 7.3 7.2 7.2 7.2 7.3	12.00 12.00 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	12.0 2.0 14.0 2.0
Location MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control) (MUP01/02-W2) MUP-W3 (Control) MUP-W3 (Control) MUP-W4 (Impact) MUP-W5 (mobile) Date Location MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control) (MUP01/02-W2)	Time 03:29 02:20 03:45 02:44 03:00 02:55 22- Time 03:15 02:00	Depth (m) 0.25 0.2 0.2 0.2 0.4 0.3 Oct-10 Depth (m) 0.3 0.3	26.2 26.2 25.9 26.2 26.2 26.2 26.2 26.2 26.3 26.3 26.1 26.1 26.1 26.1 24.3 24.3 24.3 24.2 24.2 24.4	26.2 25.9 26.2 26.2 26.3 26.1 26.1 24.3 24.3	3.26 3.24 5.18 5.14 3.08 3.02 5.29 5.31 4.49 4.52 4.68 4.66 DO (r 3.36 3.32 5.26 5.22 5.22 5.22 3.11 3.17	 3.3 5.2 3.1 5.3 4.5 4.7 mg/L) 3.3 5.2 	54.10 53.80 61.90 50.40 49.80 62.90 63.30 56.40 56.40 56.40 56.90 58.80 58.20 58.20 53.70 53.00 62.60 62.10 52.10 52.30	54.0 61.8 50.1 63.1 56.7 58.5 (%) 53.4 62.4	8.89 9.13 4.82 4.88 12.60 12.90 9.62 6.86 6.91 7.03 7.10 Turbidi 9.19 9.23 5.96 6.03 15.10 15.40	9.0 4.9 12.8 9.7 6.9 7.1 ty(NTU) 9.2 6.0	7.00 7.00 7.10 6.90 6.90 7.20 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.3	7.0 7.1 6.9 7.2 7.3 7.3 7.3 H 7.2 7.2	12.00 12.00 <2 <2 14.00 14.00 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	12.0 2.0 14.0 2.0 2.0 2.0 2.0 5 72.0 9.0
Location MUP-W1 (Control) (MUP01/02-W1) (MUP1/02-W1) MUP-W2 (Control) MUP-W3 (Control) MUP-W4 (Impact) MUP-W6 (mobile) Date Location MUP-W6 (control) (MUP01/02-W1) MUP-W2 (Control) MUP-W3 (Control) MUP-W3 (Control)	Time 03:29 02:20 03:45 02:44 03:00 02:55 22- Time 03:15 02:00 03:30 02:26	Depth (m) 0.25 0.2 0.2 0.2 0.3 Depth (m) 0.3 0.3 0.3 0.3	26.2 26.2 25.9 25.9 26.2 26.2 26.2 26.3 26.1 26.1 26.1 26.1 26.1 24.3 24.3 24.3 24.2 24.2 24.2 24.4 24.4	26.2 25.9 26.2 26.3 26.1 26.1 24.3 24.2 24.3 24.2 24.4 24.5	3.26 3.24 5.18 5.14 3.08 5.29 5.31 4.52 4.52 4.68 4.66 DO (r 3.36 5.26 5.22 5.26 5.22 3.11 3.17 5.33 5.36 4.64	- 3.3 - 5.2 - 3.1 - 5.3 - 4.5 - 4.7 - 3.3 - 5.2 - 3.1 - 5.3	54.10 53.80 61.90 61.70 50.40 49.80 62.90 63.30 56.90 58.80 58.20 58.20 58.20 58.20 58.300 62.60 62.60 62.10 52.10 52.10 52.10 52.10 52.70	54.0 61.8 50.1 63.1 56.7 58.5 (%) 53.4 62.4 52.2 64.1	8.89 9.13 4.82 4.88 12.60 9.68 9.62 6.80 7.03 7.10 Turbidi 9.19 9.23 5.96 6.03 15.10 15.40 9.63 9.66 7.23	9.0 4.9 12.8 9.7 6.9 7.1 ty(NTU) 9.2 6.0 15.3 9.6	7.00 7.00 7.10 6.90 7.20 7.20 7.20 7.20 7.30 7.30 7.30 7.30 7.20 7.30 7.20 7.20 7.20 7.30 7.20 7.20 7.20 7.20 7.20 7.20 7.20 7.10	7.0 7.1 6.9 7.2 7.3 7.3 H 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2	12.00 12.00 2 2 2 14.00 14.00 2 2 2 2 2 2 2 2 2 2 2 2 2	12.0 2.0 14.0 2.0
Location MUP-W1 (Control) (MUP01/02-W1) (MUP-W2 (Control) (MUP-W2 (Control) MUP-W3 (Control) MUP-W4 (Impact) MUP-W5 (mobile) Date Location MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control) (MUP01/02-W2) MUP-W3 (Control)	Time 03:29 02:20 03:45 02:44 03:00 02:55 22- Time 03:15 02:00 03:30	Depth (m) 0.25 0.2 0.2 0.45 0.4 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	26.2 26.2 25.9 25.9 26.2 26.2 26.2 26.3 26.3 26.3 26.3 26.1 26.1 26.1 26.1 26.4 24.3 24.3 24.3 24.4 24.4 24.4 24.5 24.5 24.6	26.2 25.9 26.2 26.2 26.3 26.1 24.3 24.3 24.2 24.4	3.26 3.24 5.18 5.14 3.02 5.29 5.31 4.49 4.52 4.68 4.66 5.22 3.36 5.26 5.22 3.11 5.33 5.36 5.22 3.11 5.33 5.36 4.64 4.66	- 3.3 - 5.2 - 3.1 - 5.3 - 4.5 - 4.7 - 3.3 - 5.2 - 3.1	54.10 53.80 61.90 61.70 50.40 49.80 62.90 63.30 56.40 56.40 56.40 56.80 58.20 58.20 58.20 58.20 53.70 53.70 62.60 62.10 52.30 63.80 64.40 57.70 57.20	54.0 61.8 50.1 63.1 56.7 58.5 53.4 62.4 52.2	8.89 9.13 4.82 4.88 12.60 9.68 9.62 6.86 6.91 7.03 7.10 7.10 9.19 9.23 5.96 6.03 15.10 15.40 9.63 9.66 9.63 7.28	9.0 4.9 12.8 9.7 6.9 7.1 ty(NTU) 9.2 6.0 15.3	7.00 7.00 7.10 6.90 7.20 7.20 7.20 7.30 7.30 7.30 7.30 7.30 7.20 7.30 7.20 7.30 7.20 7.20 7.20 7.30 7.20 7.20 7.20 7.30 7.20 7.20 7.20 7.20 7.20 7.20 7.20 7.2	7.0 7.1 6.9 7.2 7.3 7.3 7.3 7.2 7.2 7.2 7.3	12.00 12.00 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	12.0 2.0 14.0 2.0 2.0 2.0 2.0 5 72.0 9.0 20.0 6.0
Location MUP-W1 (Control) (MUP01/02-W1) (MUP1/02-W1) MUP-W2 (Control) MUP-W3 (Control) MUP-W4 (Impact) MUP-W6 (mobile) Date Location MUP-W6 (control) (MUP01/02-W1) MUP-W2 (Control) MUP-W3 (Control) MUP-W3 (Control)	Time 03:29 02:20 03:45 02:44 03:00 02:55 22- Time 03:15 02:00 03:30 02:26	Depth (m) 0.25 0.2 0.2 0.45 0.4 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	26.2 26.2 25.9 25.9 26.2 26.2 26.2 26.3 26.3 26.1 26.1 26.1 26.1 26.1 26.1 24.3 24.3 24.3 24.3 24.3 24.2 24.4 24.5 24.5 24.5 24.6 24.8	26.2 25.9 26.2 26.3 26.1 26.1 24.3 24.2 24.3 24.2 24.4 24.5	3.26 3.24 5.18 5.14 3.02 5.29 5.21 4.49 4.52 4.68 4.66 DO (t 3.36 3.32 5.26 5.22 3.31 3.17 5.36 4.64 4.64 4.66	- 3.3 - 5.2 - 3.1 - 5.3 - 4.5 - 4.7 - 3.3 - 5.2 - 3.1 - 5.3	54.10 53.80 61.90 61.70 50.40 49.80 62.90 63.30 56.40 56.40 56.40 56.40 56.40 56.20 58.80 58.20 DOS 53.70 53.00 62.60 62.10 52.10 52.10 52.30 63.80 54.40 52.10 52.30 63.80 53.70 52.60 53.70 52.60 53.70 52.80 53.70 52.80 53.70 52.80 53.70 52.80 53.70 52.80 53.70 52.80 53.70 52.80 53.70 52.80 53.70 53.70 53.80 53.70 53.80 53.70 53.80 53.70 53.80 53.70 53.70 53.70 53.80 53.70 53.70 53.70 53.70 53.70 53.80 53.70 53.80 53.70 53.70 53.80 53.70 53.80 53.70 53.80 53.70 53.80 53.70 53.80 53.80 53.80 53.70 53.80 53.80 53.80 53.70 53.80	54.0 61.8 50.1 63.1 56.7 58.5 (%) 53.4 62.4 52.2 64.1	8.89 9.13 4.82 4.88 12.60 9.68 9.62 6.86 6.91 7.03 7.10 Turbidi 9.19 9.23 5.96 6.03 15.10 15.40 9.66 7.23 7.28 8.79	9.0 4.9 12.8 9.7 6.9 7.1 ty(NTU) 9.2 6.0 15.3 9.6	7.00 7.00 7.00 7.10 6.90 7.20 7.20 7.20 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.3	7.0 7.1 6.9 7.2 7.3 7.3 H 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2	12.00 12.00 <2 <2 14.00 14.00 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	12.0 2.0 14.0 2.0 2.0 2.0 2.0 5 72.0 9.0 20.0 6.0
Location MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control) (MUP01/02-W2) MUP-W3 (Control) MUP-W3 (Control) MUP-W4 (Impact) MUP-W6 (mobile) Date Location MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control) (MUP01/02-W1) MUP-W3 (Control) MUP-W3 (Control) MUP-W4 (Impact)	Time 03:29 02:20 03:45 02:44 03:00 02:55 22- Time 03:15 02:00 03:30 02:26 02:46	Depth (m) 0.25 0.2 0.2 0.2 0.2 0.4 0.3 0.4 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	26.2 26.2 25.9 25.9 26.2 26.2 26.2 26.3 26.3 26.3 26.3 26.1 26.1 26.1 26.1 26.4 24.3 24.3 24.3 24.4 24.4 24.4 24.5 24.5 24.6	26.2 25.9 26.2 26.3 26.1 26.1 24.3 24.3 24.2 24.4 24.5 24.6	3.26 3.24 5.18 5.14 3.02 5.29 5.31 4.49 4.52 4.68 4.66 5.22 3.36 5.26 5.22 3.11 5.33 5.36 5.22 3.11 5.33 5.36 4.64 4.66	3.3 5.2 3.1 5.3 4.5 4.7 mg/L) 3.3 5.2 3.1 5.3 4.7	54.10 53.80 61.90 61.70 50.40 49.80 62.90 63.30 56.40 56.40 56.40 56.80 58.20 58.20 58.20 58.20 53.70 53.70 62.60 62.10 52.30 63.80 64.40 57.70 57.20	54.0 61.8 50.1 63.1 56.7 58.5 58.5 53.4 62.4 52.2 64.1 57.5	8.89 9.13 4.82 4.88 12.60 9.68 9.62 6.86 6.91 7.03 7.10 7.10 9.19 9.23 5.96 6.03 15.10 15.40 9.63 9.66 9.63 7.28	9.0 4.9 12.8 9.7 6.9 7.1 ty(NTU) 9.2 6.0 15.3 9.6 7.3	7.00 7.00 7.10 6.90 7.20 7.20 7.20 7.30 7.30 7.30 7.30 7.30 7.20 7.30 7.20 7.30 7.20 7.20 7.20 7.30 7.20 7.20 7.20 7.30 7.20 7.20 7.20 7.20 7.20 7.20 7.20 7.2	7.0 7.1 6.9 7.2 7.3 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	12.00 12.00 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	12.0 2.0 14.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 5.0
Location MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control) (MUP01/02-W2) MUP-W3 (Control) MUP-W4 (Impact) MUP-W5 (mobile) Date Location MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control) (MUP01/02-W2) MUP-W3 (Control) MUP-W3 (Control) MUP-W4 (Impact)	Time 03:29 02:20 03:45 02:44 03:00 02:55 22:55 22:00 03:30 02:55 03:00 02:55 02:00 03:30 02:26 02:26 02:26 02:26 02:26	Depth (m) 0.25 0.2 0.2 0.2 0.2 0.4 0.3 0.4 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	26.2 26.2 25.9 25.9 26.2 26.2 26.2 26.3 26.3 26.1 26.1 26.1 26.1 26.1 26.1 24.3 24.3 24.3 24.3 24.3 24.2 24.4 24.5 24.5 24.5 24.6 24.8	26.2 25.9 26.2 26.3 26.1 26.1 24.3 24.3 24.2 24.4 24.5 24.6	3.26 3.24 5.18 5.14 3.02 5.29 5.21 4.49 4.52 4.68 4.66 DO (t 3.36 3.32 5.26 5.22 3.31 3.17 5.36 4.64 4.64 4.66	3.3 5.2 3.1 5.3 4.5 4.7 mg/L) 3.3 5.2 3.1 5.3 4.7	54.10 53.80 61.90 61.70 50.40 49.80 62.90 63.30 56.40 56.40 56.40 56.40 56.40 56.20 58.80 58.20 DOS 53.70 53.00 62.60 62.10 52.10 52.10 52.30 63.80 54.40 52.10 52.30 63.80 53.70 52.60 53.70 52.60 53.70 52.80 53.70 52.80 53.70 52.80 53.70 52.80 53.70 52.80 53.70 52.80 53.70 52.80 53.70 52.80 53.70 53.70 53.80 53.70 53.80 53.70 53.80 53.70 53.80 53.70 53.70 53.70 53.80 53.70 53.70 53.70 53.70 53.70 53.80 53.70 53.80 53.70 53.70 53.80 53.70 53.80 53.70 53.80 53.70 53.80 53.70 53.80 53.80 53.80 53.70 53.80 53.80 53.80 53.70 53.80	54.0 61.8 50.1 63.1 56.7 58.5 58.5 53.4 62.4 52.2 64.1 57.5	8.89 9.13 4.82 4.88 12.60 9.68 9.62 6.86 6.91 7.03 7.10 Turbidi 9.19 9.23 5.96 6.03 15.10 15.40 9.66 7.23 7.28 8.79	9.0 4.9 12.8 9.7 6.9 7.1 ty(NTU) 9.2 6.0 15.3 9.6 7.3	7.00 7.00 7.00 7.10 6.90 7.20 7.20 7.20 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.3	7.0 7.1 6.9 7.2 7.3 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	12.00 12.00 <2 <2 14.00 14.00 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	12.0 2.0 14.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 5.0
Location MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control) (MUP01/02-W2) MUP-W3 (Control) MUP-W3 (Control) MUP-W5 (mobile) Date Location MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control) MUP-W3 (Control) MUP-W3 (Control) MUP-W5 (mobile) MUP-W5 (mobile) MUP-W6 (mobile) Date Location	Time 03:29 02:20 03:45 02:44 03:00 02:55 22:55 22:00 03:30 02:55 03:00 02:55 02:00 03:30 02:26 02:26 02:26 02:26 02:26	Depth (m) 0.25 0.2 0.2 0.2 0.3 Dot-10 Depth (m) 0.3 0.3 0.45 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	26.2 26.2 25.9 25.9 26.2 26.2 26.2 26.3 26.3 26.1 26.1 26.1 26.1 26.1 26.1 24.3 24.3 24.3 24.3 24.3 24.2 24.4 24.5 24.5 24.5 24.6 24.8	26.2 25.9 26.2 26.3 26.1 24.3 24.4 24.4 24.5 24.4 24.5 24.8	3.26 3.24 5.18 5.14 3.02 5.29 5.21 4.49 4.52 4.68 4.68 4.68 4.68 5.26 5.26 5.22 3.11 3.17 5.33 5.26 5.22 3.11 3.17 5.33 5.33 5.464 4.66 4.90	3.3 5.2 3.1 5.3 4.5 4.7 mg/L) 3.3 5.2 3.1 5.3 4.7	54.10 53.80 61.90 61.70 50.40 49.80 62.90 63.30 56.40 56.40 56.40 56.40 56.40 56.20 58.80 58.20 DOS 53.70 53.00 62.60 62.10 52.10 52.10 52.30 63.80 54.40 52.10 52.30 63.80 53.70 52.60 53.70 52.60 53.70 52.80 53.70 52.80 53.70 52.80 53.70 52.80 53.70 52.80 53.70 52.80 53.70 52.80 53.70 52.80 53.70 53.70 53.80 53.70 53.80 53.70 53.80 53.70 53.80 53.70 53.70 53.70 53.80 53.70 53.70 53.70 53.70 53.70 53.80 53.70 53.80 53.70 53.70 53.80 53.70 53.80 53.70 53.80 53.70 53.80 53.70 53.80 53.80 53.80 53.70 53.80 53.80 53.80 53.70 53.80	54.0 61.8 50.1 63.1 56.7 58.5 (%) 53.4 62.4 52.2 64.1 57.5 58.4	8.89 9.13 4.82 4.88 12.60 9.68 9.62 6.86 6.91 7.03 7.10 7.10 9.19 9.23 5.96 6.03 15.10 9.63 9.63 9.63 9.63 9.63 9.63 9.63 8.79 8.70 8.70	9.0 4.9 12.8 9.7 6.9 7.1 ty(NTU) 9.2 6.0 15.3 9.6 7.3 8.7	7.00 7.00 7.00 7.10 6.90 7.20 7.20 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.20 7.30 7.20 7.30 7.20 7.20 7.20 7.20 7.20 7.20 7.20 7.2	7.0 7.1 6.9 7.2 7.3 7.4 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.3	12.00 12.00 2 2 2 14.00 14.00 14.00 2 2 2 2 2 2 2 2 2 2 2 2 2	12.0 2.0 14.0 2.0 2.0 2.0 2.0 72.0 9.0 20.0 6.0 5.0 2.0
Location MUP-W1 (Control) (MUP01/02-W1) (MUP01/02-W1) MUP-W2 (Control) MUP-W2 (Control) MUP-W3 (Control) MUP-W6 (mobile) Date Location MUP-W2 (Control) MUP-W2 (Control) MUP-W4 (Impact) MUP-W4 (Impact) MUP-W6 (mobile) MUP-W6 (mobile) Date Location MUP-W6 (mobile)	Time 03:29 02:20 03:45 02:44 03:00 02:55 02:55 02:55 02:55 02:55 02:55 02:55 02:55 02:55 02:55 02:55 02:30 02:24 02:36 02:36	Depth (m) 0.25 0.2 0.2 0.2 0.2 0.45 0.45 0.3 Depth (m) 0.3 0.3 0.3 0.45 0.3 0.3 0.3 0.3 0.45 0.5 0.3 0.5 0.3 0.2 0.45 0.5 0.3	26.2 26.2 25.9 25.9 26.2 26.2 26.3 26.3 26.3 26.3 26.3 26.3	26.2 25.9 26.2 26.3 26.1 24.3 24.4 24.4 24.5 24.4 24.5 24.8	3.26 3.24 5.18 5.14 3.02 5.29 5.31 4.49 4.52 4.68 4.66 5.22 3.14 3.36 5.26 5.22 3.11 5.33 5.26 5.22 3.11 5.33 5.34 4.66 4.96 4.90 4.90 DO ((3.22	3.3 5.2 3.1 5.3 4.5 4.7 3.3 5.2 3.1 5.2 3.1 5.3 4.7 4.9	54.10 53.80 61.90 61.70 50.40 49.80 62.90 63.30 56.40 56.40 56.90 58.80 58.20 58.20 58.20 58.20 58.20 62.10 62.10 62.10 62.10 62.10 62.10 62.10 52.30 63.80 64.40 52.30 53.20 53.20 53.20	54.0 61.8 50.1 63.1 56.7 58.5 (%) 53.4 62.4 52.2 64.1 57.5 58.4	8.89 9.13 4.82 4.82 12.60 12.90 9.68 6.86 6.91 7.03 7.10 7.10 7.10 7.10 7.10 9.19 9.23 5.96 6.03 15.10 15.40 9.63 9.66 7.23 7.28 8.79 8.70 8.70	9.0 4.9 12.8 9.7 6.9 7.1 ty(NTU) 9.2 6.0 15.3 9.6 7.3 8.7	7.00 7.00 7.10 6.90 6.90 7.20 7.20 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.20 7.20 7.30 7.20 7.30 7.20 7.30 7.20 7.30 7.20 7.30 7.20 7.20 7.30 7.20 7.30 7.20 7.30 7.20 7.20 7.30 7.20 7.20 7.20 7.20 7.20 7.20 7.20 7.2	7.0 7.1 6.9 7.2 7.3 7.4 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.3	12.00 12.00 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	12.0 2.0 14.0 2.0 2.0 2.0 2.0 72.0 9.0 20.0 6.0 5.0 2.0
Location MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control) (MUP01/02-W2) MUP-W2 (Control) MUP-W3 (Control) MUP-W4 (Impact) MUP-W6 (mobile) Date Location MUP-W1 (Control) (MUP01/02-W1) MUP-W3 (Control) MUP-W4 (Impact) MUP-W5 (mobile) MUP-W6 (mobile) Date Location MUP-W6 (mobile)	Time 03:29 02:20 03:45 02:44 03:00 02:55 02:41 03:00 02:55 02:43 03:00 02:55 02:00 03:30 02:26 02:46 02:26 02:46 02:36 7:1me	Depth (m) 0.25 0.2 0.2 0.2 0.2 0.45 0.45 0.3 Depth (m) 0.3 0.3 0.3 0.45 0.3 0.3 0.45 0.3 0.2 0.45 0.3 0.2 0.45 0.3 0.3 0.2 0.45 0.3 0.5 0.3 0.5 0.3	26.2 26.2 25.9 25.9 26.2 26.2 26.2 26.3 26.3 26.3 26.1 26.1 26.1 26.1 24.3 24.3 24.4 24.4 24.4 24.4 24.4 24.4	26.2 25.9 26.2 26.3 26.1 24.3 24.2 24.4 24.5 24.4 24.5 24.6	3.26 3.24 5.18 5.14 3.08 3.02 5.29 5.21 4.49 4.52 4.66 4.66 5.22 3.32 5.26 5.26 5.22 3.11 3.17 5.33 5.36 4.64 4.66 4.90 DO (r 3.22 DO (r 3.22	3.3 5.2 3.1 5.3 4.5 4.7 3.3 5.2 3.1 5.3 4.7 5.3 4.7 4.9 4.9	54.10 53.80 61.90 61.70 50.40 49.80 62.90 63.30 56.40 56.40 56.90 58.20 58.20 58.20 58.20 53.00 52.10 52.30 63.80 64.40 57.70 57.20 58.20	54.0 61.8 50.1 63.1 58.5 58.5 53.4 62.4 52.2 64.1 57.5 58.4 (%)	8.89 9.13 4.82 4.88 12.60 9.68 9.62 6.86 6.91 7.03 7.10 Turbidi 9.19 9.23 5.96 6.03 15.10 15.40 9.63 9.66 8.79 8.70 8.70	9.0 4.9 12.8 9.7 6.9 7.1 ty(NTU) 9.2 6.0 15.3 9.6 7.3 8.7 ty(NTU)	7.00 7.00 7.00 7.10 6.90 7.20 7.20 7.20 7.30 7.30 7.30 7.30 7.30 7.30 7.20 7.30 7.30 7.30 7.20 7.20 7.30 7.30 7.30 7.20 7.20 7.30 7.30 7.30 7.20 7.20 7.20 7.30 7.30 7.30 7.30 7.30 7.20 7.20 7.30 7.30 7.30 7.30 7.30 7.20 7.20 7.30 7.30 7.30 7.30 7.30 7.20 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.20 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.3	70 7.1 6.9 7.2 7.3 7.3 7.3 7.2 7.2 7.2 7.2 7.3 7.2 7.3	12.00 12.00 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2	12.0 2.0 14.0 2.0 2.0 2.0 2.0 72.0 9.0 20.0 6.0 5.0 2.0 5.0 2.0
Location MUP-W1 (Control) (MUP01/02-W1) (MUP01/02-W1) MUP-W2 (Control) MUP-W3 (Control) MUP-W3 (Control) MUP-W6 (mobile) Date Location MUP-W6 (mobile) MUP-W4 (Impact) MUP-W2 (Control) MUP-W4 (Impact) MUP-W4 (Impact) MUP-W4 (Impact) MUP-W4 (Impact) MUP-W4 (Impact) MUP-W6 (mobile) Date Location MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control) MUP-W4 (Control) MUP-W6 (mobile)	Time 03:29 02:20 03:45 02:44 03:00 02:55 02:41 03:00 02:55 02:43 03:00 02:55 02:00 03:30 02:26 02:46 02:26 02:46 02:36 7:me	Depth (m) 0.25 0.2 0.2 0.2 0.2 0.45 0.45 0.3 Depth (m) 0.3 0.3 0.3 0.45 0.3 0.3 0.45 0.3 0.2 0.45 0.3 0.2 0.45 0.3 0.3 0.2 0.45 0.3 0.5 0.3 0.5 0.3	26.2 26.2 25.9 25.9 26.2 26.2 26.3 26.3 26.3 26.3 26.1 26.1 26.1 26.1 26.1 24.3 24.2 24.2 24.2 24.2 24.2 24.2 24.4 24.5 24.6 24.6 24.8 24.8 24.8 24.8	26.2 25.9 26.2 26.3 26.1 24.3 24.2 24.4 24.5 24.4 24.5 24.6	3.26 3.24 5.18 5.14 3.02 5.29 5.31 4.49 4.52 4.68 4.68 4.68 4.68 5.26 5.26 5.22 3.11 3.17 5.33 5.26 5.22 3.11 3.17 5.33 5.26 4.64 4.66 4.90 4.90 4.90 (3.22 3.28 5.30	3.3 5.2 3.1 5.3 4.5 4.7 3.3 5.2 3.1 5.3 4.7 5.3 4.7 4.9 4.9	54.10 53.80 61.90 61.70 50.40 49.80 62.90 63.30 56.40 56.40 56.40 56.90 58.20 DOS 53.70 53.70 53.70 62.60 62.60 62.10 62.10 62.10 62.10 62.00 62.10 52.30 53.80 64.40 DOS 53.00 52.40 64.40	54.0 61.8 50.1 63.1 58.5 58.5 53.4 62.4 52.2 64.1 57.5 58.4 (%)	8.89 9.13 4.82 4.88 12.60 9.68 9.62 6.86 6.91 7.03 7.03 7.03 7.03 7.03 7.03 7.03 7.03	9.0 4.9 12.8 9.7 6.9 7.1 ty(NTU) 9.2 6.0 15.3 9.6 7.3 8.7 ty(NTU)	7.00 7.00 7.00 7.10 6.90 7.20 7.20 7.30 7.20 7.30 7.30 7.30 7.30 7.30 7.20 7.30 7.20 7.30 7.20 7.30 7.20 7.30 7.20 7.20 7.20 7.30 7.20 7.20 7.30 7.20 7.20 7.30 7.20 7.20 7.30 7.20 7.20 7.30 7.20 7.20 7.30 7.20 7.30 7.20 7.20 7.30 7.20 7.30 7.20 7.20 7.30 7.20 7.20 7.30 7.20 7.30 7.20 7.30 7.20 7.20 7.30 7.20 7.30 7.20 7.20 7.20 7.30 7.20 7.20 7.30 7.20 7.20 7.30 7.20 7.20 7.30 7.20 7.20 7.20 7.20 7.20 7.20 7.20 7.2	70 7.1 6.9 7.2 7.3 7.3 7.3 7.2 7.2 7.2 7.2 7.3 7.2 7.3	12.00 12.00 2 2 2 2 2 2 2 2 2 2 2 2 2	12.0 2.0 14.0 2.0 2.0 2.0 2.0 72.0 9.0 20.0 6.0 5.0 2.0 5.0 2.0
Location MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control) (MUP01/02-W2) MUP-W3 (Control) MUP-W3 (Control) MUP-W5 (mobile) Date Location MUP-W1 (Control) (MUP01/02-W1) MUP-W3 (Control) MUP-W5 (mobile) MUP-W5 (mobile) MUP-W5 (mobile) MUP-W5 (mobile) MUP-W4 (Impact) MUP-W4 (Impact) MUP-W4 (Impact) MUP-W4 (Control) MUP-W4 (Control) MUP-W1 (Control) MUP-W1 (Control) MUP-W1 (Control) MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control) (MUP01/02-W1)	Time 03:29 02:20 03:45 02:44 03:00 02:55 22- Time 03:15 02:00 03:30 02:26 02:26 02:26 02:26 02:36 25	Depth (m) 0.25 0.2 0.2 0.2 0.4 0.3 0.4 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.5 0.5 0.3 0.5 0.3 0.5 0.3 0.5 0.3 0.25	26.2 26.2 25.9 25.9 26.2 26.2 26.3 26.3 26.3 26.3 26.3 26.3	26.2 25.9 26.2 26.3 26.3 26.3 26.3 26.3 26.3 24.3 24.4 24.5 24.4 24.5 24.6 24.8 24.6 24.8 26.0	3.26 3.24 5.18 5.14 3.08 3.02 5.29 5.21 4.49 4.52 4.66 4.66 5.22 3.32 5.26 5.26 5.22 3.11 3.17 5.33 5.36 4.64 4.66 4.90 DO (r 3.22 DO (r 3.22	- 3.3 5.2 3.1 5.3 4.5 4.7 3.3 5.2 3.1 5.2 3.1 5.3 - 4.7 - 4.9 	54.10 53.80 61.90 61.70 50.40 49.80 62.90 63.30 56.40 56.40 56.90 58.20 58.20 58.20 58.20 53.00 52.10 52.30 63.80 64.40 57.70 57.20 58.20	54.0 61.8 50.1 63.1 56.7 58.5 53.4 62.4 52.2 64.1 57.5 58.4 (%) 52.7 64.1	8.89 9.13 4.82 4.88 12.60 9.68 9.62 6.86 6.91 7.03 7.10 Turbidi 9.19 9.23 5.96 6.03 15.10 15.40 9.63 9.66 8.79 8.70 8.70	9.0 4.9 12.8 9.7 6.9 7.1 ty(NTU) 9.2 6.0 15.3 9.6 7.3 8.7 ty(NTU) 9.7 6.1	7.00 7.00 7.00 7.10 6.90 6.90 7.20 7.20 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.20 7.30 7.30 7.20 7.30 7.20 7.30 7.20 7.30 7.20 7.30 7.20 7.30 7.30 7.20 7.30 7.30 7.30 7.30 7.20 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.3	7.0 7.1 6.9 7.2 7.3 7.4 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.0 7.0	12.00 12.00 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2	12.0 12.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 5.0 5.0 5.0 2.0
Location MUP-W1 (Control) (MUP01/02-W1) (MUP01/02-W2) MUP-W2 (Control) MUP-W3 (Control) MUP-W4 (Impact) MUP-W6 (mobile) MUP-W6 (mobile) MUP-W6 (mobile) MUP-W4 (Impact) MUP-W2 (Control) MUP-W4 (Impact) MUP-W4 (Impact) MUP-W4 (Impact) MUP-W4 (Impact) MUP-W4 (Impact) MUP-W6 (mobile) Date Location MUP-W4 (Control) MUP-W4 (Control) MUP-W4 (Control) MUP-W4 (Control) MUP-W4 (Control) MUP-W4 (Control) MUP-W4 (Control) MUP-W4 (Control) MUP-W4 (Control) MUP-W4 (Control)	Time 03:29 02:20 03:45 02:44 03:00 02:55 22-7 Time 03:30 02:26 02:26 02:26 02:26 02:26 02:26 102:26 02:26 102:26 102:26 102:36 102:36	Depth (m) 0.25 0.2 0.2 0.45 0.4 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	26.2 26.2 25.9 25.9 26.2 26.2 26.3 26.3 26.3 26.3 26.1 26.1 26.1 26.1 26.1 24.3 24.2 24.2 24.2 24.2 24.2 24.2 24.4 24.5 24.6 24.6 24.8 24.8 24.8 24.8	26.2 25.9 26.2 26.3 26.1 24.3 24.3 24.3 24.4 24.5 24.4 24.5 24.6 24.8 24.6 24.8	3.26 3.24 5.18 5.14 3.02 5.29 5.31 4.49 4.52 4.68 4.66 5.22 3.11 5.26 5.26 5.22 3.11 5.33 5.26 5.22 3.11 3.17 5.33 5.36 4.64 4.66 4.96 4.90 5.22 3.22 3.22 5.20 5.26	3.3 5.2 3.1 5.3 4.5 4.7 3.3 5.2 3.1 5.3 4.7 4.7 4.9 mg/L) 3.3	54.10 53.80 61.90 61.70 50.40 49.80 62.90 56.40 56.40 56.90 58.80 58.20 58.20 58.20 58.20 53.70 53.00 62.60 62.10 52.30 62.10 52.30 62.80 62.10 52.30 53.20 53.20 53.20 53.20 53.30 53.20 53.30 54.40 57.70 57.20 58.60 58.20	54.0 61.8 50.1 63.1 56.7 58.5 53.4 62.4 52.2 64.1 57.5 58.4 (%) 52.7	8.89 9.13 4.82 4.88 12.60 9.62 9.68 6.91 7.03 7.10 9.19 9.23 5.96 6.03 15.10 15.40 9.63 9.66 7.23 7.28 8.79 8.70 8.70 8.70 8.70	9.0 4.9 12.8 9.7 6.9 7.1 9.2 6.0 15.3 9.6 7.3 8.7 ty(NTU) 9.7	7.00 7.00 7.00 7.10 6.90 7.20 7.20 7.30 7.20 7.30 7.30 7.30 7.30 7.30 7.20 7.30 7.20 7.30 7.20 7.30 7.20 7.30 7.20 7.20 7.20 7.30 7.20 7.20 7.30 7.20 7.20 7.30 7.20 7.20 7.30 7.20 7.20 7.30 7.20 7.20 7.30 7.20 7.30 7.20 7.20 7.30 7.20 7.30 7.20 7.20 7.30 7.20 7.20 7.30 7.20 7.30 7.20 7.30 7.20 7.20 7.30 7.20 7.30 7.20 7.20 7.20 7.30 7.20 7.20 7.30 7.20 7.20 7.30 7.20 7.20 7.30 7.20 7.20 7.20 7.20 7.20 7.20 7.20 7.2	7.0 7.1 6.9 7.2 7.3 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3	12.00 12.00 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	12.0 2.0 2.0 2.0 2.0 2.0 2.0 72.0 9.0 20.0 6.0 5.0 2.0 5.0 5.0
Location MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control) (MUP01/02-W2) MUP-W3 (Control) MUP-W3 (Control) MUP-W5 (mobile) Date Location MUP-W6 (mobile) MUP-W1 (Control) (MUP01/02-W1) MUP-W3 (Control) MUP-W5 (mobile) MUP-W5 (mobile) MUP-W6 (mobile) Date Location MUP-W5 (mobile) MUP-W6 (mobile) MUP-W6 (mobile) MUP-W1 (Control) (MUP01/02-W1) MUP-W1 (Control) (MUP01/02-W1) MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control) (MUP01/02-W2) MUP-W3 (Control)	Time 03:29 02:20 03:45 02:44 03:00 02:55 02:40 03:00 02:55 02:40 03:00 02:55 02:00 03:30 02:26 02:36 25- 25- 15:19 14:12 15:38	Depth (m) 0.25 0.2 0.2 0.2 0.2 0.45 0.45 0.3 Depth (m) 0.3 0.3 0.3 0.45 0.3 0.3 0.45 0.5 0.3 0.45 0.5 0.3 Deth (m) 0.3 0.2 0.3 0.2 0.3 0.3 0.3 0.2 0.2	26.2 26.2 25.9 25.9 26.2 26.2 26.2 26.2 26.3 26.1 26.1 26.1 26.1 26.1 26.1 26.1 26.1	26.2 25.9 26.2 26.3 26.1 24.3 24.2 24.4 24.5 24.4 24.5 24.6 24.8 24.6 24.6 26.2	3.26 3.24 5.18 5.14 3.02 5.29 5.21 4.49 4.52 4.68 4.66 4.66 5.22 3.32 5.26 5.22 3.11 3.17 5.36 4.64 4.90 4.90 (f 3.22 3.28 5.26 5.26 3.22 3.28 5.26 4.52 4.90 (f 3.22 3.28 5.26 5.26 3.11 3.11 3.12 5.26 4.52 5.26 5.26 5.26 5.26 5.26 5.26 5.26 5	3.3 5.2 3.1 5.3 4.5 4.7 3.3 5.2 3.1 5.3 4.7 4.7 4.9 4.9	54.10 53.80 61.90 61.70 50.40 49.80 62.90 63.30 56.40 56.40 56.40 56.40 56.40 56.20 53.70 53.00 62.60 62.10 52.10 52.10 52.10 52.10 52.10 52.20 53.00 52.40 64.40 57.20 53.00 52.40 63.80 52.40 53.00 52.40 63.80 52.40 53.00 52.40 53.00 52.40 53.00 52.40 53.00 52.40 53.00 52.40 53.00	54.0 61.8 50.1 63.1 56.7 58.5 58.5 53.4 62.4 52.2 64.1 57.5 58.4 57.5 58.4 52.7 64.1 51.9	8.89 9.13 4.82 4.88 12.60 9.68 9.62 6.86 6.91 7.03 7.10 Turbidi 9.19 9.23 5.96 6.03 7.10 Turbidi 9.19 9.23 5.96 6.03 7.10 9.62 8.79 8.70 8.70 8.70 8.70 9.66 6.8.79 8.70 8.70 9.66 6.8.79 8.70 8.70 9.66 6.18 18.10 18.20 8.13	9.0 4.9 12.8 9.7 6.9 7.1 9.2 6.0 15.3 9.6 7.3 8.7 7.3 8.7 ty(NTU) 9.7 6.1 18.2	7.00 7.00 7.00 7.10 6.90 7.20 7.20 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.3	7.0 7.1 6.9 7.2 7.3 7.4 7.2 7.2 7.2 7.2 7.2 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.2 7.3 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.3 7.5	12.00 12.00 12.00 2 2 2 2 2 2 2 2 2 2 2 2 2	12.0 12.0 2.0 14.0 2.0 2.0 2.0 2.0 32.0 5.0 2.0 5.0 2.0 32.0
Location MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control) (MUP01/02-W2) MUP-W3 (Control) MUP-W3 (Control) MUP-W5 (mobile) Date Location MUP-W1 (Control) (MUP01/02-W1) MUP-W3 (Control) MUP-W5 (mobile) MUP-W5 (mobile) MUP-W5 (mobile) MUP-W5 (mobile) MUP-W4 (Impact) MUP-W4 (Impact) MUP-W4 (Impact) MUP-W4 (Control) MUP-W4 (Control) MUP-W1 (Control) MUP-W1 (Control) MUP-W1 (Control) MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control) (MUP01/02-W1)	Time 03:29 02:20 03:45 02:44 03:00 02:55 22- Time 03:15 02:00 03:30 02:26 02:26 02:26 02:26 02:36 25	Depth (m) 0.25 0.2 0.2 0.2 0.4 0.3 0.4 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.5 0.5 0.3 0.5 0.3 0.5 0.3 0.5 0.3 0.25	26.2 26.2 25.9 25.9 26.2 26.2 26.3 26.3 26.3 26.3 26.1 26.3 26.1 26.3 26.1 24.3 24.4 24.4 24.4 24.5 24.4 24.4 24.4 24.5 24.6 24.6 24.8 24.8 24.8 24.8 26.2 26.2 26.0 26.6 26.3 26.3	26.2 25.9 26.2 26.3 26.3 26.3 26.3 26.3 26.3 24.3 24.4 24.5 24.4 24.5 24.6 24.8 24.6 24.8 26.0	3.26 3.24 5.18 5.14 3.08 3.02 5.29 5.29 4.49 4.52 4.66 4.46 5.26 5.26 5.26 5.22 3.32 5.26 5.26 5.22 3.11 3.17 5.36 4.64 4.66 4.90 4.90 DO (0 3.22 3.28 5.30 5.30 0 5.31 0 5.31 5.34	- 3.3 5.2 3.1 5.3 4.5 4.7 3.3 5.2 3.1 5.2 3.1 5.3 4.7 - 4.7 - 4.9 	54.10 53.80 61.90 61.70 50.40 49.80 62.90 63.30 56.40 56.90 58.20 58.20 53.70 53.00 62.60 62.10 52.10 52.10 52.10 52.10 52.20 53.00 52.40 53.00 52.40 53.00 52.40 53.00 52.40 58.20	54.0 61.8 50.1 63.1 56.7 58.5 53.4 62.4 52.2 64.1 57.5 58.4 (%) 52.7 64.1	8.89 9.13 4.82 4.88 12.60 9.62 9.62 6.86 6.91 7.03 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10	9.0 4.9 12.8 9.7 6.9 7.1 ty(NTU) 9.2 6.0 15.3 9.6 7.3 8.7 ty(NTU) 9.7 6.1	7.00 7.00 7.00 7.10 6.90 7.20 7.20 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.3	7.0 7.1 6.9 7.2 7.3 7.4 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.0 7.0	12.00 12.00 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2	12.0 12.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 5.0 5.0 5.0 2.0
Location MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control) (MUP01/02-W2) MUP-W3 (Control) MUP-W3 (Control) MUP-W5 (mobile) Date Location MUP-W6 (mobile) MUP-W1 (Control) (MUP01/02-W1) MUP-W3 (Control) MUP-W5 (mobile) MUP-W5 (mobile) MUP-W6 (mobile) Date Location MUP-W5 (mobile) MUP-W6 (mobile) MUP-W6 (mobile) MUP-W1 (Control) (MUP01/02-W1) MUP-W1 (Control) (MUP01/02-W1) MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control) (MUP01/02-W2) MUP-W3 (Control)	Time 03:29 02:20 03:45 02:44 03:00 02:55 02:40 03:00 02:55 02:40 03:00 02:55 02:00 03:30 02:26 02:36 25- 25- 15:19 14:12 15:38	Depth (m) 0.25 0.2 0.2 0.2 0.2 0.45 0.45 0.3 Depth (m) 0.3 0.3 0.3 0.45 0.3 0.3 0.45 0.5 0.3 0.45 0.5 0.3 Deth (m) 0.3 0.2 0.3 0.2 0.3 0.3 0.3 0.2 0.2	26.2 26.2 25.9 25.9 26.2 26.2 26.3 26.3 26.3 26.3 26.1 26.1 26.1 26.1 26.1 24.3 24.2 24.2 24.2 24.2 24.2 24.2 24.2	26.2 25.9 26.2 26.3 26.1 24.3 24.2 24.4 24.5 24.4 24.5 24.6 24.8 24.6 24.6 26.2	3.26 3.24 5.18 5.14 3.08 3.02 5.29 5.31 4.49 4.52 4.68 4.68 4.68 4.68 5.26 5.26 5.22 3.11 3.17 5.33 5.26 5.22 3.11 3.17 5.33 5.26 4.64 4.66 4.90 4.90 4.90 4.64 4.66 4.90 5.22 3.22 3.22 3.22 3.22 3.22 3.22 3.22	3.3 5.2 3.1 5.3 4.5 4.7 3.3 5.2 3.1 5.3 4.7 4.7 4.9 4.9	54.10 53.80 61.90 61.70 50.40 49.80 62.90 63.30 56.90 58.20 58.20 58.20 58.20 58.20 58.20 58.20 58.20 58.20 58.20 58.20 62.60 62.10 62.60 62.10 62.10 62.10 62.10 62.10 62.10 62.10 52.30 63.80 64.40 57.70 57.20 58.20 53.00 52.40 64.40 57.20 58.20 53.00 52.40 65.80 52.40 65.80 52.40 65.80 52.40 65.80 52.40 52.40 52.40 52.40 52.40 53.80 52.40 53.00 52.40 53.00 52.40 53.00 52.40 53.00 52.40 53.00 52.40 53.00 52.40 53.00 52.40 53.00 53.00 52.40 53.00 52.40 53.00 53.00 52.40 53.00 50 50.00 50 50.00 50 50 50 50 50 50 50 50 50 50 50 50 5	54.0 61.8 50.1 63.1 56.7 58.5 58.5 53.4 62.4 52.2 64.1 57.5 58.4 57.5 58.4 52.7 64.1 51.9	8.89 9.13 4.82 4.88 12.60 9.68 9.62 6.86 6.91 7.03 7.10 9.19 9.29 6.86 6.91 7.03 7.10 9.19 9.29 6.03 15.10 15.40 9.63 9.66 3.7.28 8.79 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70	9.0 4.9 12.8 9.7 6.9 7.1 9.2 6.0 15.3 9.6 7.3 8.7 7.3 8.7 ty(NTU) 9.7 6.1 18.2	7.00 7.00 7.00 7.10 6.90 7.20 7.20 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.3	7.0 7.1 6.9 7.2 7.3 7.4 7.2 7.2 7.2 7.2 7.2 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.2 7.3 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.3 7.5	12.00 12.00 12.00 2 2 2 2 2 2 2 2 2 2 2 2 2	12.0 12.0 2.0 14.0 2.0 2.0 2.0 2.0 32.0 5.0 2.0 5.0 2.0 32.0
Location MUP-W1 (Control) (MUP01/02-W1) (MUP-W2 (Control) (MUP-W2 (Control) MUP-W2 (Control) MUP-W3 (Control) MUP-W4 (Impact) MUP-W6 (mobile) Date Location MUP-W6 (mobile) MUP-W2 (Control) (MUP01/02-W2) MUP-W3 (Control) MUP-W6 (mobile) Date Location MUP-W6 (mobile) MUP-W6 (mobile) MUP-W6 (mobile) MUP-W6 (mobile) MUP-W6 (mobile) MUP-W6 (mobile) MUP-W2 (Control) (MUP01/02-W1) MUP-W2 (Control) (MUP01/02-W2) MUP-W3 (Control) MUP-W3 (Control) MUP-W3 (Control) MUP-W3 (Control) MUP-W3 (Control) MUP-W3 (Control) MUP-W3 (Control) MUP-W4 (Impact)	Time 03:29 02:20 03:45 02:44 03:00 02:55 22-7 Time 03:15 02:00 03:30 02:26 02:26 02:26 02:36 15:19 14:12 15:38 14:35	Depth (m) 0.25 0.2 0.2 0.45 0.4 0.3 0.3 0.3 0.3 0.3 0.3 0.2 0.45 0.5 0.5 0.3 0.3 0.2 0.5 0.3 0.2 0.3 0.2 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	26.2 26.2 25.9 25.9 26.2 26.2 26.2 26.3 26.3 26.1 26.1 26.1 26.1 26.1 26.1 26.1 26.1	26.2 25.9 26.2 26.3 26.1 24.3 24.3 24.4 24.4 24.4 24.5 24.4 24.5 24.6 24.8 26.0 26.2 26.0 26.6 26.3	3.26 3.24 5.18 5.14 3.00 5.29 5.29 4.49 4.52 4.49 4.52 4.68 4.66 4.66 5.22 3.32 5.26 5.26 5.22 3.11 3.17 5.33 5.36 4.64 4.90 4.90 DO (r 3.22 3.28 5.30 5.26 4.90 DO (r 3.22 3.28 5.30 5.26 4.90 4.90 DO (r 3.22 3.28 5.30 5.26 4.90 4.90 4.90 4.90 4.90 4.90 4.90 4.90	3.3 5.2 3.1 5.3 4.5 4.7 3.3 5.2 3.1 5.3 4.7 4.9 ng/L) 3.3 5.3 4.7 4.9 ng/L) 3.3 5.3 3.1	54.10 53.80 61.90 61.70 50.40 49.80 56.40 56.40 56.40 58.20 58.20 58.20 58.20 58.20 58.20 58.20 58.20 58.20 58.20 58.20 53.00 52.10 52.10 52.10 52.10 52.10 52.20 53.00 52.40 54.40 57.20 58.80 52.40 53.00 52.40 57.30	54.0 61.8 50.1 63.1 56.7 58.5 53.4 62.4 52.2 64.1 57.5 58.4 52.7 64.1 51.9 65.6	8.89 9.13 4.82 4.88 12.60 12.90 9.62 6.86 6.91 7.03 7.10 Turbidi 9.62 9.23 5.96 6.03 7.10 15.40 9.23 5.96 6.03 15.10 15.40 9.66 7.23 7.28 8.79 8.70 Turbidi 15.40 9.66 6.11 6.81 8.10 18.10 18.10 18.10 8.13 8.16 6.87	9.0 4.9 12.8 9.7 6.9 7.1 9.2 6.0 15.3 9.6 7.3 8.7 ty(NTU) 9.7 6.1 18.2 8.1	7.00 7.00 7.00 7.10 6.90 6.90 7.20 7.20 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.3	7.0 7.1 6.9 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.0 7.0 7.5 7.1	12.00 12.00 12.00 2 2 2 2 2 2 2 2 2 2 2 2 2	12.0 12.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 5.0 2.0 32.0 2.0 2.0
Location MUP-W1 (Control) (MUP01/02-W1) MUP-W2 (Control) MUP-W2 (Control) MUP-W3 (Control) MUP-W3 (Control) MUP-W6 (mobile) Date Location MUP-W6 (mobile) MUP-W2 (Control) (MUP01/02-W1) MUP-W2 (Control) MUP-W4 (Impact) MUP-W6 (mobile) Date Location MUP-W6 (mobile) MUP-W6 (mobile) MUP-W6 (mobile) MUP-W6 (mobile) MUP-W6 (mobile) MUP-W6 (mobile) MUP-W2 (Control) (MUP01/02-W1) MUP-W2 (Control) (MUP01/02-W1) MUP-W2 (Control) MUP-W3 (Control) MUP-W3 (Control) MUP-W3 (Control) MUP-W3 (Control) MUP-W3 (Control) MUP-W3 (Control) MUP-W3 (Control) MUP-W4 (Impact)	Time 03:29 02:20 03:45 02:44 03:00 02:55 22-7 Time 03:15 02:00 03:30 02:26 02:26 02:26 02:36 15:19 14:12 15:38 14:35	Depth (m) 0.25 0.2 0.2 0.45 0.4 0.3 0.3 0.3 0.3 0.3 0.3 0.2 0.45 0.5 0.5 0.3 0.3 0.2 0.5 0.3 0.2 0.3 0.2 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	26.2 26.2 25.9 25.9 26.2 26.2 26.3 26.3 26.3 26.3 26.1 26.1 26.1 26.1 26.1 24.3 24.2 24.2 24.2 24.2 24.2 24.2 24.2	26.2 25.9 26.2 26.3 26.1 24.3 24.3 24.4 24.4 24.4 24.5 24.4 24.5 24.6 24.8 26.0 26.2 26.0 26.6 26.3	3.26 3.24 5.18 5.14 3.08 3.02 5.29 5.31 4.49 4.52 4.68 4.68 4.68 4.68 5.26 5.26 5.22 3.11 3.17 5.33 5.26 5.22 3.11 3.17 5.33 5.26 4.64 4.66 4.90 4.90 4.90 4.64 4.66 4.90 5.22 3.22 3.22 3.22 3.22 3.22 3.22 3.22	3.3 5.2 3.1 5.3 4.5 4.7 3.3 5.2 3.1 5.3 4.7 4.9 ng/L) 3.3 5.3 4.7 4.9 ng/L) 3.3 5.3 3.1	54.10 53.80 61.90 61.70 50.40 49.80 62.90 63.30 56.90 58.20 58.20 58.20 58.20 58.20 58.20 58.20 58.20 58.20 58.20 58.20 62.60 62.10 62.60 62.10 62.10 62.10 62.10 62.10 62.10 62.10 52.30 63.80 64.40 57.70 57.20 58.20 53.00 52.40 64.40 57.20 58.20 53.00 52.40 65.80 52.40 65.80 52.40 65.80 52.40 65.80 52.40 52.40 52.40 52.40 52.40 53.80 52.40 53.00 52.40 53.00 52.40 53.00 52.40 53.00 52.40 53.00 52.40 53.00 52.40 53.00 52.40 53.00 53.00 52.40 53.00 52.40 53.00 53.00 52.40 53.00 50 50.00 50 50.00 50 50 50 50 50 50 50 50 50 50 50 50 5	54.0 61.8 50.1 63.1 56.7 58.5 53.4 62.4 52.2 64.1 57.5 58.4 52.7 64.1 51.9 65.6	8.89 9.13 4.82 4.88 12.60 9.68 9.62 6.86 6.91 7.03 7.10 9.19 9.29 6.86 6.91 7.03 7.10 9.19 9.29 6.03 15.10 15.40 9.63 9.66 3.7.28 8.79 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70	9.0 4.9 12.8 9.7 6.9 7.1 9.2 6.0 15.3 9.6 7.3 8.7 ty(NTU) 9.7 6.1 18.2 8.1	7.00 7.00 7.00 7.10 6.90 7.20 7.20 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.3	7.0 7.1 6.9 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.0 7.0 7.5 7.1	12.00 12.00 12.00 2 2 2 2 2 2 2 2 2 2 2 2 2	12.0 2.0 2.0 2.0 2.0 2.0 2.0 3.0 5.0 2.0 5.0 2.0 32.0 32.0 2.0

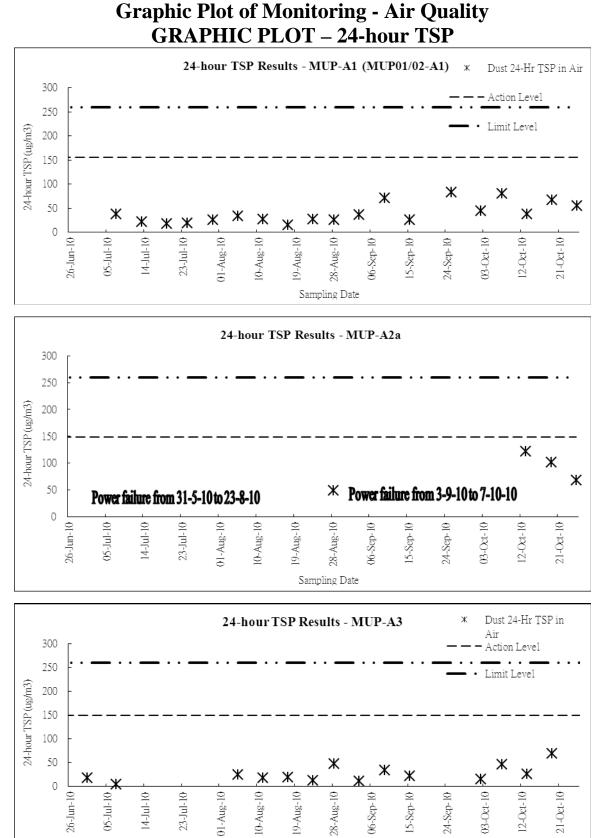
Appendix I

Graphic Plot of Monitoring

- 1. Construction Noise
- 2. Air Quality
- 3. Water Quality



AUES

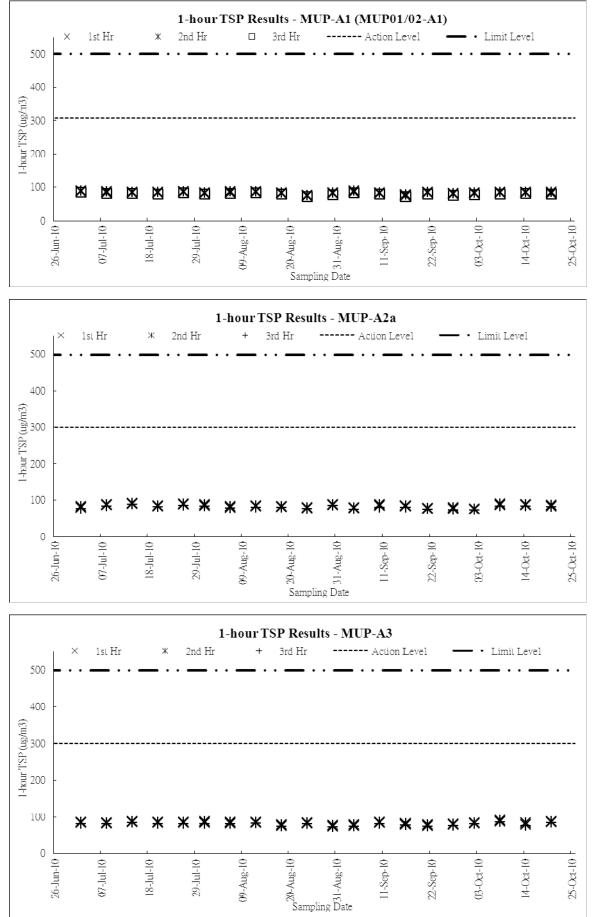


AUES

Sampling Date



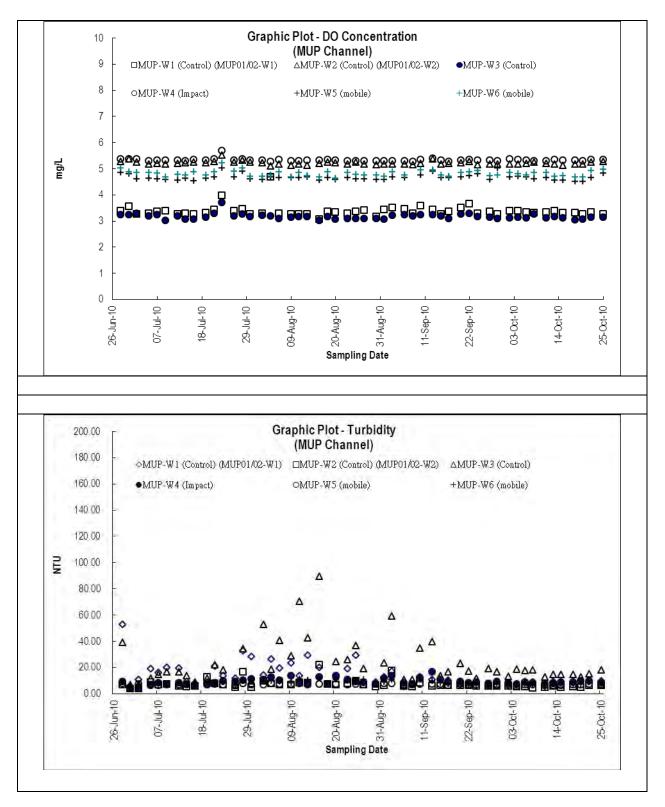
GRAPHIC PLOT – 1-hour TSP

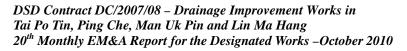


Z:\Jobs\2008\TCS00409 (DC-2007-08)\600\Impact\DP\Monthly Report\20th Monthly - Oct2010\R0872v1_Oct.doc Action-United Environmental Services and Consulting

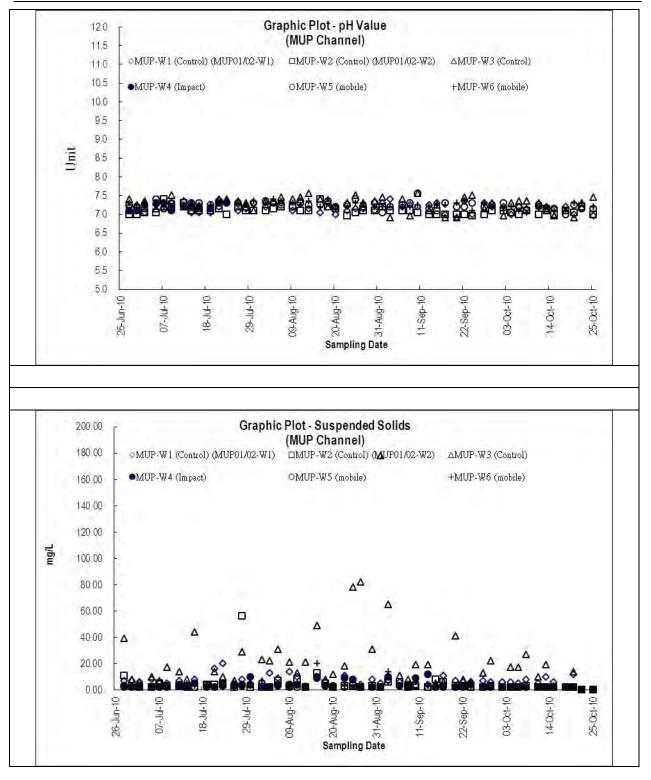


Graphic Plot of Monitoring - Water Quality











Appendix J

Meteorological Records

					<u>Ta Kv</u>	vu Ling			
Date	9	Weather	Total Rainfall (mm)	Mean Air Temp. (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	Wind Direction		
26-Sep-10	Sun	Light to moderate easterly winds.	0	28	6.1	76.2	Е		
27-Sep-10	Mon	Light to moderate easterly winds, freshening tomorrow.	0	27.9	6	77.5	Е		
28-Sep-10	Tue	Sunny periods.	0	28.4	7	75	E/NE		
29-Sep-10	Wed	Moderate to fresh east to northeasterly winds.	Trace	29.3	8.5	73	E/SE		
30-Sep-10	Thu	Sunny periods this afternoon. Cloudy tonight.	4.4	27.2	6	82	Ν		
1-Oct-10	Fri		HOLI	HOLIDAY					
2-Oct-10	Sat	Moderate to fresh northeasterly winds.	0	28.6	5.5	72.7	N		
3-Oct-10	Sun	Mainly cloudy. It will be dry in the afternoon.	Trace	27.8	10	72	N/NE		
4-Oct-10	Mon	There will be swells over the sea.	Trace	23.3	9.7	66.2	N		
5-Oct-10	Tue	Cloudy with a few rain patches	2.2	23.6	5.5	69.5	E/SE		
6-Oct-10	Wed	Moderate easterly winds	0.9	24.1	7	79.2	E		
7-Oct-10	Thu	Moderate east to northeasterly winds	Trace	25.8	6.5	66.5	E/SE		
8-Oct-10	Fri	Cloudy with a few light rain patches.	Trace	26.7	6	71	E/SE		
9-Oct-10	Sat	he maximum temperature will be around 28 degrees.	1.4	25	5.5	85.2	Е		
10-Oct-10	Sun	Moderate to fresh easterly winds	10.2	25	13	86	Е		
11-Oct-10	Mon	Mainly cloudy with a few rain patches.	3.7	27.1	10	84.2	E/SE		
12-Oct-10	Tue	Mainly fine. Moderate east to northeasterly winds.	Trace	28.5	6.2	76	Е		
13-Oct-10	Wed	Mainly fine, becoming cloudy tomorrow night.	0	28.3	6.7	73.7	E/E		
14-Oct-10	Thu	Fine and dry with some haze.	0	28.3	6.7	77	Е		
15-Oct-10	Fri	Moderate east to northeasterly winds.	3.9	25.1	8.6	81.2	N		
16-Oct-10	Sat	Fine and dry.	0.2	24.9	8.2	73	N		
17-Oct-10	Sun	Moderate north to northeasterly winds	Trace	26.1	7.1	75	Е		
18-Oct-10	Mon	Becoming cloudy. It will be dry.	Trace	26.6	4.5	68	N		
19-Oct-10	Tue	Fresh north to northeasterly winds	0	25.8	9.5	68	Ν		
20-Oct-10	Wed	The Standby Signal, No. 1 is in force.	0	26.3	17.7	60.5	Ν		
21-Oct-10	Thu	The Strong Wind Signal, No. 3 is in force.	Trace	25.8	16.5	60.5	N		
22-Oct-10	Fri	Cloudy and cooler with a few squally showers.	0.2	22.1	8	74.2	Ν		
23-Oct-10	Sat	Dry with sunny periods.	0	24.4	7.5	60	N/NW		
24-Oct-10	Sun	Mainly cloudy. A few light rain patches overnight.	0	24	6	72.5	N		
25-Oct-10	Mon	Moderate northerly winds.	0	24.7	10.2	68	N/NE		

Meteorological Data in this Reporting Month

* The record was extracted from The Hong Kong Observatory Weather Stations # missing (less than 24 hourly observations a day)



Appendix K

Proforma of the Weekly ET Site Inspection Checklist

Project:	DSD Contract No	. DC/2007/08			Inspect	ted by		Checklist No.	DC200708-300910
- rojeot	Drainage Improven Man Uk Pin and Lin	nent Works at Tai	Po Tin, Ping C	Che,	IEC/IEC	's Representa		William Tang	
Inspection					ETL/ E	T's Represent	ative:	Ray Cheung	
Date:	30 September 2010					's Representa	ative:	C.P. Chan	
Time:	10:00am				Contra Repres	ctor's entative:		Y. M. Mo	
PART A:		GENEI	RAL INFORMA	TION			Enviro	onmental Permi	t No. EP-277/2007/A
Weather:	Sunny	Fine	✓ Cloudy	Rai	ny	Calm			
Temperature:	30.7	⊃°C							
Humidity:	High	✓ Moderate	Low					N/A	
Wind:	Strong	Breeze	✓ Light	Ca	m				
Channel				Are	ea Inspec	ted			
TKL02 TKL07 MUP01/02 MUP05									
PART B:			SITE AUDIT						
	os.: Not Observed; Yes: v Up: Observations requi			cable	Not Obs.	Yes N	۰ · ·	illow N/A Up	Photo/ Remarks

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	Follow OP . Observations requiring follow-OP actions IN/A . Not Applicable	Ubs.		υρ	Remarks
Section	on 1: Water Quality				
1.01	Is an effluent discharge license obtained for the Project?	\checkmark			
1.02	Is the effluent discharged in accordance with the discharge licence?	\checkmark			
1.03	Is the discharge of turbid water avoided?		\checkmark		
1.04	Are there proper desilting facilities in the drainage systems to reduce SS levels in effluent?		\checkmark		
1.05	Are there channels, sandbags or bunds to direct surface run-off to sedimentation tanks?		\checkmark		
1.06	Are there any perimeter channels provided at site boundaries to intercept storm runoff from crossing the site?		\checkmark		
1.07	Is drainage system well maintained?		\checkmark		
1.08	As excavation proceeds, are temporary access roads protected by crushed stone or gravel?		\checkmark		
1.09	Are temporary exposed slopes properly covered?		\checkmark		
1.10	Are earthworks final surfaces well compacted or protected?		\checkmark		
1.11	Are manholes adequately covered or temporarily sealed?	\checkmark			
1.12	Are there any procedures and equipment for rainstorm protection?		\checkmark		
1.13	Are wheel washing facilities well maintained?			\checkmark	Remark 2
1.14	Is runoff from wheel washing facilities avoided?		\checkmark		
1.15	Are there toilets provided on site?		\checkmark		
1.16	Are toilets properly maintained?		\checkmark		
1.17	Are the vehicle and plant servicing areas paved and located within roofed areas?		\checkmark		
1.18	Is the oil leakage or spillage avoided?		\checkmark		
1.19	Are there any measures to prevent leaked oil from entering the drainage system?		\checkmark		
1.20	Are there any measures to collect spilt cement and concrete washings during concreting works?	\checkmark			



Note:	Not Obs.: Not Observed; Yes: Compliance; No: Non-Compliance; Follow Up: Observations requiring follow-Up actions N/A: Not Applicable	Not Obs.	Yes	No	Follow Up	N/A	Photo/ Remarks
1.21	Are there any oil interceptors/grease traps in the drainage systems for vehicle and plant servicing areas, canteen kitchen, etc?	\checkmark					
1.22	Are the oil interceptors/grease traps maintained properly?	\checkmark					
1.23	Is used bentonite recycled where appropriate?	\checkmark					
1.24	Designated settlement area for runoff/wheel wash waste is provide and located at the streambed with 1-2m deep, 12m long and around 50m3 capacities for sedimentation.		\checkmark				
1.25	No excavation is undertaken in the settlement area.		\checkmark				
1.26	Concreting wastes water should be neutralized below the pH Action Levels before discharge.	\checkmark					
1.27	Mobile toilets should provide on site and located away the stream course.		\checkmark				
1.25	License collector should be employed for handling the sewage of mobile toilet.		\checkmark				
Sectio	n 2: Air Quality						
2.01	Are there wheel washing facilities with high pressure jets provided at every vehicle exit point?		\checkmark				
2.02	Are vehicles washed to remove any dusty materials from their bodies and wheels before leaving construction sites?		\checkmark				
2.03	Are the excavated materials sprayed with water during handling?		\checkmark				
2.04	Are stockpiles of dusty materials sprayed with water, covered or placed in sheltered areas?		\checkmark				
2.05	Is the exposed earth properly treated within six months after the last construction activities?		\checkmark				
2.06	Are the access roads sprayed with water to maintain the entire road surface wet or paved?		\checkmark				
2.07	Is the surface where any drilling, cutting, polishing or breaking operation continuously sprayed with water?		\checkmark				
2.08	Is the load on vehicles covered entirely by clean impervious sheeting?		\checkmark				
2.09	Is the loading of materials to a level higher than the side and tail boards during transportation by vehicles avoided?		\checkmark				
2.10	Is the road leading to the construction site within 30m of the vehicle entrance kept clear of dusty materials?		\checkmark				
2.11	Is dark smoke emission from plant/equipment avoided?		\checkmark				
2.12	Are de-bagging, batching and mixing processes carried out in sheltered areas during the use of bagged cement?	\checkmark					
2.13	Are site vehicles travelling within the speed limit not more than 15km/hour?		\checkmark				
2.14	Are hoardings of not less than 2.4m high provided along the site boundary, which adjoins areas accessible to the public?	\checkmark					
2.15	Is open burning avoided?		\checkmark				
2.16	Excavated materials from the stream must remove form site on the same day. The materials shall be stored in covered impermeable skips awaiting removal from site.		\checkmark				
Sectio	n 3: Noise						
3.01	Are noisy equipment and activities positioned as far as practicable from the sensitive receivers?		\checkmark				
3.02	Is silenced equipment adopted?		\checkmark				
3.03	Is idle equipment turned off or throttled down?		\checkmark				
3.04	Are all plant and equipment well maintained and in good condition?		\checkmark				
3.05	Are noise barriers or enclosures provided at areas where construction activities cause noise impact on sensitive receivers?	\checkmark					
3.06	Are hand held breakers fitted with valid noise emission labels during operation?	\checkmark					
3.07	Are air compressors fitted with valid noise emission labels during operation?	\checkmark					



Note:	Not Obs.: Not Observed; Yes: Compliance; No: Non-Compliance; Follow Up: Observations requiring follow-Up actions N/A: Not Applicable	Not Obs.	Yes	No	Follow Up	N/A	Photo/ Remarks
3.08	Are flaps and panels of mechanical equipment closed during operation?		\checkmark				
3.09	Are Construction Noise Permit(s) applied for percussive piling works?	\checkmark					
3.10	Are Construction Noise Permit(s) applied for general construction works during restricted hours?		\checkmark				
3.11	Are valid Construction Noise Permit(s) posted at site entrances?		\checkmark				
3.12	Use of quiet plant had been used on site to minimise the construction noise impact to the surrounding residences/dwellings (Level 1 mitigation measures).	\checkmark					
3.13	Temporary/Moveable noise barrier or site hoarding are provide or erect at the site boundary to minimise the noise impact of the closest NSRs or stationary equipments shield by the noise barrier which cannot visible from NSRs (Level 2 mitigation measure)	\checkmark					
3.14	Temporary/Moveable noise barrier equal to or more than 3m height with 10kg/m2 are provide for noise mitigation measures (Level 2 mitigation measures).	\checkmark					
Sectio	on 4: Waste/Chemical Management						
4.01	Waste Management Plan had been submit to Engineer for approval.		\checkmark				
4.02	Are receptacles available for general refuse collection?		\checkmark				
4.03	Is general refuse sorting or recycling implemented?		\checkmark				
4.04	Is general refuse disposed of properly and regularly?				\checkmark		Remark 1
4.05	Is the Contractor registered as a chemical waste producer?	\checkmark					
4.06	Are the chemical waste containers properly labelled?	\checkmark					
4.07	Are the chemical wastes stored in proper storage areas?		\checkmark				
4.08	Is the chemical waste storage area properly labelled?		\checkmark				
4.09	Is the chemical waste storage area used for storage of chemical waste only?		\checkmark				
4.10	Are incompatible chemical wastes stored in different areas?	\checkmark					
4.11	Are the chemical wastes disposed of by licensed collectors?	\checkmark					
4.12	Are trip tickets for chemical wastes disposal available for inspection?	\checkmark					
4.13	Are chemical/fuel storage areas bunded?		\checkmark				
4.14	Are designated areas identified for storage and sorting of construction wastes?	\checkmark					
4.15	Are construction wastes sorted (inert and non-inert) on site?	\checkmark					
4.16	Are construction wastes reused?	\checkmark					
4.17	Are construction wastes disposed of properly?		\checkmark				
4.18	Are site hoardings and signboards made of durable materials instead of timber?		\checkmark				
4.19	Is trip ticket system implemented for the disposal of construction wastes and records available for inspection?		\checkmark				
4.20	Are appropriate procedures followed if contaminated material exists?		\checkmark				
4.21	Is relevant license/ permit for disposal of construction waste or excavated materials available for inspection?		\checkmark				
4.22	Site cleanliness and appropriate waste management training had provided for the site workers.		\checkmark				
4.23	Contaminated sediments will managed according to WBTC No.12/2000 and EWTB TC(W) No. 34/2002.		\checkmark				



Note:	Not Obs.: Not Observed; Yes: Compliance; No: Non-Compliance; Follow Up: Observations requiring follow-Up actions N/A: Not Applicable	Not Obs.	Yes	No	Follow Up	N/A	Photo/ Remarks
Sectio	on 5: Landscape & Visual						
5.01	Are retained and transplanted trees in health condition?		\checkmark				
5.02	Are retained and transplanted trees properly protected?		\checkmark				
5.03	Are surgery works carried out for the damaged trees?					\checkmark	
5.04	Is damage to trees outside site boundary due to construction activities avoided?		\checkmark				
5.05	Is the night-time lighting controlled to minimize glare to sensitive receivers?		\checkmark				
Sectio	on 6: Ecology						
6.01	Gabion banks and base had been provide for channel linings and banks for typical sections?	\checkmark					
6.02	Prevent site effluent/runoff discharge to the seasonal wetlands?	\checkmark					
6.03	Stockpiling or disposal of materials, and any dredging or construction activities at the seasonal wetlands are prohibited?	\checkmark					
Sectio	on 7: Others						
7.01	Are relevant Environmental Permits posted at all vehicle site entrances/exits?		\checkmark				





Condition of heavy smoke emitted from the backhoe was improved.



Findings of Site Inspection on 30th September 2010:



Project:	DSD Contract N	lo. DC/2007/08			Inspect	ed by		Checklist No.	DC200708-081010
	Drainage Improve Man Uk Pin and L	ement Works at Ta in Ma Hang	i Po Tin, Ping (Che,		's Representa s Representat		William Tang	
Inspection					ETL/ ET	's Representa	tive:	Ray Cheung	
Date:	8 October 2010					s Representat	tive:	C.P. Chan	
Time:	2:00pm				Contrac Represe	tor's entative:		Y. M. Mo	
PART A:		GENE	RAL INFORMA				Enviro	nmental Permit	No. EP-277/2007/A
Weather:	Sunny	Fine	✓ Cloudy	Ra	ny	Calm			
Temperature	28.3	⊃°C							
Humidity:	High	✓ Moderate	Low					N/A	
Wind:	Strong	Breeze	✓ Light	Ca	m				
Channel				Are	ea Inspect	ed			
TKL02 TKL07 MUP01/02 MUP05									
PART B:			SITE AUDIT						

AUES

Note:	Not Obs.: Not Observed; Yes: Compliance; No: Non-Compliance; Follow Up: Observations requiring follow-Up actions N/A: Not Applicable	Not Obs.	Yes	No	Follow Up	N/A	Photo/ Remarks
Sectio	n 1: Water Quality						
1.01	Is an effluent discharge license obtained for the Project?	\checkmark					
1.02	Is the effluent discharged in accordance with the discharge licence?	\checkmark					
1.03	Is the discharge of turbid water avoided?		\checkmark				
1.04	Are there proper desilting facilities in the drainage systems to reduce SS levels in effluent?		\checkmark				
1.05	Are there channels, sandbags or bunds to direct surface run-off to sedimentation tanks?		\checkmark				
1.06	Are there any perimeter channels provided at site boundaries to intercept storm runoff from crossing the site?		\checkmark				
1.07	Is drainage system well maintained?				\checkmark		Remark 1
1.08	As excavation proceeds, are temporary access roads protected by crushed stone or gravel?		\checkmark				
1.09	Are temporary exposed slopes properly covered?		\checkmark				
1.10	Are earthworks final surfaces well compacted or protected?		\checkmark				
1.11	Are manholes adequately covered or temporarily sealed?	\checkmark					
1.12	Are there any procedures and equipment for rainstorm protection?		\checkmark				
1.13	Are wheel washing facilities well maintained?		\checkmark				
1.14	Is runoff from wheel washing facilities avoided?		\checkmark				
1.15	Are there toilets provided on site?		\checkmark				
1.16	Are toilets properly maintained?		\checkmark				
1.17	Are the vehicle and plant servicing areas paved and located within roofed areas?		\checkmark				
1.18	Is the oil leakage or spillage avoided?		\checkmark				
1.19	Are there any measures to prevent leaked oil from entering the drainage system?		\checkmark				
1.20	Are there any measures to collect spilt cement and concrete washings during concreting works?	\checkmark					



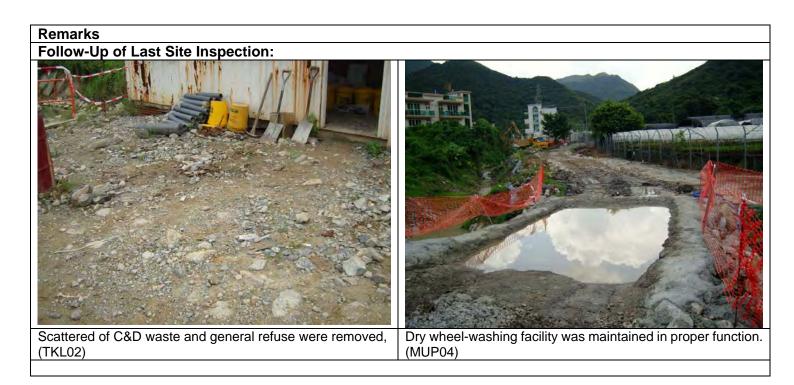
Note:	Not Obs.: Not Observed; Yes: Compliance; No: Non-Compliance; Follow Up: Observations requiring follow-Up actions N/A: Not Applicable	Not Obs.	Yes	No	Follow Up	N/A	Photo/ Remarks
1.21	Are there any oil interceptors/grease traps in the drainage systems for vehicle and plant servicing areas, canteen kitchen, etc?	\checkmark					
1.22	Are the oil interceptors/grease traps maintained properly?	\checkmark					
1.23	Is used bentonite recycled where appropriate?	\checkmark					
1.24	Designated settlement area for runoff/wheel wash waste is provide and located at the streambed with 1-2m deep, 12m long and around 50m3 capacities for sedimentation.		\checkmark				
1.25	No excavation is undertaken in the settlement area.		\checkmark				
1.26	Concreting wastes water should be neutralized below the pH Action Levels before discharge.	\checkmark					
1.27	Mobile toilets should provide on site and located away the stream course.		\checkmark				
1.25	License collector should be employed for handling the sewage of mobile toilet.		\checkmark				
Sectio	n 2: Air Quality						
2.01	Are there wheel washing facilities with high pressure jets provided at every vehicle exit point?		\checkmark				
2.02	Are vehicles washed to remove any dusty materials from their bodies and wheels before leaving construction sites?		\checkmark				
2.03	Are the excavated materials sprayed with water during handling?		\checkmark				
2.04	Are stockpiles of dusty materials sprayed with water, covered or placed in sheltered areas?		\checkmark				
2.05	Is the exposed earth properly treated within six months after the last construction activities?		\checkmark				
2.06	Are the access roads sprayed with water to maintain the entire road surface wet or paved?		\checkmark				
2.07	Is the surface where any drilling, cutting, polishing or breaking operation continuously sprayed with water?		\checkmark				
2.08	Is the load on vehicles covered entirely by clean impervious sheeting?		\checkmark				
2.09	Is the loading of materials to a level higher than the side and tail boards during transportation by vehicles avoided?		\checkmark				
2.10	Is the road leading to the construction site within 30m of the vehicle entrance kept clear of dusty materials?		\checkmark				
2.11	Is dark smoke emission from plant/equipment avoided?		\checkmark				
2.12	Are de-bagging, batching and mixing processes carried out in sheltered areas during the use of bagged cement?	\checkmark					
2.13	Are site vehicles travelling within the speed limit not more than 15km/hour?		\checkmark				
2.14	Are hoardings of not less than 2.4m high provided along the site boundary, which adjoins areas accessible to the public?	\checkmark					
2.15	Is open burning avoided?		\checkmark				
2.16	Excavated materials from the stream must remove form site on the same day. The materials shall be stored in covered impermeable skips awaiting removal from site.		\checkmark				
Sectio	n 3: Noise						
3.01	Are noisy equipment and activities positioned as far as practicable from the sensitive receivers?		\checkmark				
3.02	Is silenced equipment adopted?		\checkmark				
3.03	Is idle equipment turned off or throttled down?		\checkmark				
3.04	Are all plant and equipment well maintained and in good condition?		\checkmark				
3.05	Are noise barriers or enclosures provided at areas where construction activities cause noise impact on sensitive receivers?	\checkmark					
3.06	Are hand held breakers fitted with valid noise emission labels during operation?	\checkmark					
3.07	Are air compressors fitted with valid noise emission labels during operation?	\checkmark					



Note:	Not Obs.: Not Observed; Yes: Compliance; No: Non-Compliance; Follow Up: Observations requiring follow-Up actions N/A: Not Applicable	Not Obs.	Yes	No	Follow Up	N/A	Photo/ Remarks
3.08	Are flaps and panels of mechanical equipment closed during operation?		\checkmark				
3.09	Are Construction Noise Permit(s) applied for percussive piling works?	\checkmark					
3.10	Are Construction Noise Permit(s) applied for general construction works during restricted hours?		\checkmark				
3.11	Are valid Construction Noise Permit(s) posted at site entrances?		\checkmark				
3.12	Use of quiet plant had been used on site to minimise the construction noise impact to the surrounding residences/dwellings (Level 1 mitigation measures).	\checkmark					
3.13	Temporary/Moveable noise barrier or site hoarding are provide or erect at the site boundary to minimise the noise impact of the closest NSRs or stationary equipments shield by the noise barrier which cannot visible from NSRs (Level 2 mitigation measure)	\checkmark					
3.14	Temporary/Moveable noise barrier equal to or more than 3m height with 10kg/m2 are provide for noise mitigation measures (Level 2 mitigation measures).	\checkmark					
Sectio	on 4: Waste/Chemical Management						
4.01	Waste Management Plan had been submit to Engineer for approval.		\checkmark				
4.02	Are receptacles available for general refuse collection?		\checkmark				
4.03	Is general refuse sorting or recycling implemented?		\checkmark				
4.04	Is general refuse disposed of properly and regularly?		\checkmark				
4.05	Is the Contractor registered as a chemical waste producer?	\checkmark					
4.06	Are the chemical waste containers properly labelled?	\checkmark					
4.07	Are the chemical wastes stored in proper storage areas?		\checkmark				
4.08	Is the chemical waste storage area properly labelled?		\checkmark				
4.09	Is the chemical waste storage area used for storage of chemical waste only?		\checkmark				
4.10	Are incompatible chemical wastes stored in different areas?	\checkmark					
4.11	Are the chemical wastes disposed of by licensed collectors?	\checkmark					
4.12	Are trip tickets for chemical wastes disposal available for inspection?	\checkmark					
4.13	Are chemical/fuel storage areas bunded?		\checkmark				
4.14	Are designated areas identified for storage and sorting of construction wastes?	\checkmark					
4.15	Are construction wastes sorted (inert and non-inert) on site?	\checkmark					
4.16	Are construction wastes reused?	\checkmark					
4.17	Are construction wastes disposed of properly?		\checkmark				
4.18	Are site hoardings and signboards made of durable materials instead of timber?		\checkmark				
4.19	Is trip ticket system implemented for the disposal of construction wastes and records available for inspection?		\checkmark				
4.20	Are appropriate procedures followed if contaminated material exists?		\checkmark				
4.21	Is relevant license/ permit for disposal of construction waste or excavated materials available for inspection?		\checkmark				
4.22	Site cleanliness and appropriate waste management training had provided for the site workers.		\checkmark				
4.23	Contaminated sediments will managed according to WBTC No.12/2000 and EWTB TC(W) No. 34/2002.		\checkmark				



Note:	Not Obs.: Not Observed; Yes: Compliance; No: Non-Compliance; Follow Up: Observations requiring follow-Up actions N/A: Not Applicable	Not Obs.	Yes	No	Follow Up	N/A	Photo/ Remarks
Sectio	on 5: Landscape & Visual						
5.01	Are retained and transplanted trees in health condition?		\checkmark				
5.02	Are retained and transplanted trees properly protected?		\checkmark				
5.03	Are surgery works carried out for the damaged trees?					\checkmark	
5.04	Is damage to trees outside site boundary due to construction activities avoided?		\checkmark				
5.05	Is the night-time lighting controlled to minimize glare to sensitive receivers?		\checkmark				
Sectio	on 6: Ecology						
6.01	Gabion banks and base had been provide for channel linings and banks for typical sections?	\checkmark					
6.02	Prevent site effluent/runoff discharge to the seasonal wetlands?	\checkmark					
6.03	Stockpiling or disposal of materials, and any dredging or construction activities at the seasonal wetlands are prohibited?	\checkmark					
Sectio	on 7: Others						
7.01	Are relevant Environmental Permits posted at all vehicle site entrances/exits?		\checkmark				



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Findings of Site Inspection on 8th October 2010:

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The ponding water was observed, the contractor			and rominder, the or	ntractor should keep the haul
reminded to apply Larvidical oil to prevent mosqu			to minimize dust nuis	
breeding and implement relative desilting facilitie	es, such			
as set up gabion prior discharge to eliminate the	SS			
content. (MUP05)				
IEC's representative RE's representative	ET's represent	ative	EO's representative	Contractor's representative
	Raye	\wedge		

) (William Tang) (Ray Cheung) (C. P. Chan) (Y. M. Mo)

Project:	DSD Contract No. DC/2007/08	nspected by	Checklist No. DC200708-141010	
•	Drainage Improvement Works at Tai Po Ti Man Uk Pin and Lin Ma Hang	n, Ping Che,	EC/IEC's Representative: EC/RE's Representative:	Edmund Cheung William Tang
Inspection	Man OK Fin and Lin Ma hang		TL/ ET's Representative:	Ray Cheung
Date:	14 October 2010	E	O/ EO's Representative:	C.P. Chan
Time:	10:00am	-	Contractor's Representative:	Y. M. Mo
PART A:	GENERAL IN	FORMATION	Envir	onmental Permit No. EP-277/2007/A
Weather:	Sunny 🖌 Fine	Cloudy Rainy	Calm]
Temperature	30.8 °C]
Humidity:	High ✓ Moderate	Low		N/A
Wind:	Strong Breeze	Light Calm		
Channel		Area Ir	nspected	
TKL02 TKL07 MUP01/02 MUP05				
PART B:	SITE	AUDIT		

AUES

Note:	Not Obs.: Not Observed; Yes: Compliance; No: Non-Compliance; Follow Up: Observations requiring follow-Up actions N/A: Not Applicable	Not Obs.	Yes	No	Follow Up	N/A	Photo/ Remarks
Sectio	n 1: Water Quality						
1.01	Is an effluent discharge license obtained for the Project?	\checkmark					
1.02	Is the effluent discharged in accordance with the discharge licence?	\checkmark					
1.03	Is the discharge of turbid water avoided?		\checkmark				
1.04	Are there proper desilting facilities in the drainage systems to reduce SS levels in effluent?		\checkmark				
1.05	Are there channels, sandbags or bunds to direct surface run-off to sedimentation tanks?		\checkmark				
1.06	Are there any perimeter channels provided at site boundaries to intercept storm runoff from crossing the site?		\checkmark				
1.07	Is drainage system well maintained?		\checkmark				
1.08	As excavation proceeds, are temporary access roads protected by crushed stone or gravel?		\checkmark				
1.09	Are temporary exposed slopes properly covered?		\checkmark				
1.10	Are earthworks final surfaces well compacted or protected?		\checkmark				
1.11	Are manholes adequately covered or temporarily sealed?	\checkmark					
1.12	Are there any procedures and equipment for rainstorm protection?		\checkmark				
1.13	Are wheel washing facilities well maintained?		\checkmark				
1.14	Is runoff from wheel washing facilities avoided?		\checkmark				
1.15	Are there toilets provided on site?		\checkmark				
1.16	Are toilets properly maintained?		\checkmark				
1.17	Are the vehicle and plant servicing areas paved and located within roofed areas?		\checkmark				
1.18	Is the oil leakage or spillage avoided?		\checkmark				
1.19	Are there any measures to prevent leaked oil from entering the drainage system?		\checkmark				
1.20	Are there any measures to collect spilt cement and concrete washings during concreting works?	\checkmark					



Note:	Not Obs.: Not Observed; Yes: Compliance; No: Non-Compliance; Follow Up: Observations requiring follow-Up actions N/A: Not Applicable	Not Obs.	Yes	No	Follow Up	N/A	Photo/ Remarks
1.21	Are there any oil interceptors/grease traps in the drainage systems for vehicle and plant servicing areas, canteen kitchen, etc?	\checkmark					
1.22	Are the oil interceptors/grease traps maintained properly?	\checkmark					
1.23	Is used bentonite recycled where appropriate?	\checkmark					
1.24	Designated settlement area for runoff/wheel wash waste is provide and located at the streambed with 1-2m deep, 12m long and around 50m3 capacities for sedimentation.		\checkmark				
1.25	No excavation is undertaken in the settlement area.		\checkmark				
1.26	Concreting wastes water should be neutralized below the pH Action Levels before discharge.	\checkmark					
1.27	Mobile toilets should provide on site and located away the stream course.		\checkmark				
1.25	License collector should be employed for handling the sewage of mobile toilet.		\checkmark				
Sectio	n 2: Air Quality						
2.01	Are there wheel washing facilities with high pressure jets provided at every vehicle exit point?		\checkmark				
2.02	Are vehicles washed to remove any dusty materials from their bodies and wheels before leaving construction sites?		\checkmark				
2.03	Are the excavated materials sprayed with water during handling?		\checkmark				
2.04	Are stockpiles of dusty materials sprayed with water, covered or placed in sheltered areas?		\checkmark				
2.05	Is the exposed earth properly treated within six months after the last construction activities?		\checkmark				
2.06	Are the access roads sprayed with water to maintain the entire road surface wet or paved?				\checkmark		Photo 1
2.07	Is the surface where any drilling, cutting, polishing or breaking operation continuously sprayed with water?		\checkmark				
2.08	Is the load on vehicles covered entirely by clean impervious sheeting?		\checkmark				
2.09	Is the loading of materials to a level higher than the side and tail boards during transportation by vehicles avoided?		\checkmark				
2.10	Is the road leading to the construction site within 30m of the vehicle entrance kept clear of dusty materials?		\checkmark				
2.11	Is dark smoke emission from plant/equipment avoided?		\checkmark				
2.12	Are de-bagging, batching and mixing processes carried out in sheltered areas during the use of bagged cement?	\checkmark					
2.13	Are site vehicles travelling within the speed limit not more than 15km/hour?		\checkmark				
2.14	Are hoardings of not less than 2.4m high provided along the site boundary, which adjoins areas accessible to the public?	\checkmark					
2.15	Is open burning avoided?		\checkmark				
2.16	Excavated materials from the stream must remove form site on the same day. The materials shall be stored in covered impermeable skips awaiting removal from site.		\checkmark				
Sectio	n 3: Noise						
3.01	Are noisy equipment and activities positioned as far as practicable from the sensitive receivers?		\checkmark				
3.02	Is silenced equipment adopted?		\checkmark				
3.03	Is idle equipment turned off or throttled down?		\checkmark				
3.04	Are all plant and equipment well maintained and in good condition?		\checkmark				
3.05	Are noise barriers or enclosures provided at areas where construction activities cause noise impact on sensitive receivers?	\checkmark					
3.06	Are hand held breakers fitted with valid noise emission labels during operation?	\checkmark					
3.07	Are air compressors fitted with valid noise emission labels during operation?	\checkmark					



Note:	Not Obs.: Not Observed; Yes: Compliance; No: Non-Compliance; Follow Up: Observations requiring follow-Up actions N/A: Not Applicable	Not Obs.	Yes	No	Follow Up	N/A	Photo/ Remarks
3.08	Are flaps and panels of mechanical equipment closed during operation?		\checkmark				
3.09	Are Construction Noise Permit(s) applied for percussive piling works?	\checkmark					
3.10	Are Construction Noise Permit(s) applied for general construction works during restricted hours?		\checkmark				
3.11	Are valid Construction Noise Permit(s) posted at site entrances?		\checkmark				
3.12	Use of quiet plant had been used on site to minimise the construction noise impact to the surrounding residences/dwellings (Level 1 mitigation measures).	\checkmark					
3.13	Temporary/Moveable noise barrier or site hoarding are provide or erect at the site boundary to minimise the noise impact of the closest NSRs or stationary equipments shield by the noise barrier which cannot visible from NSRs (Level 2 mitigation measure)	\checkmark					
3.14	Temporary/Moveable noise barrier equal to or more than 3m height with 10kg/m2 are provide for noise mitigation measures (Level 2 mitigation measures).	\checkmark					
Sectio	on 4: Waste/Chemical Management						
4.01	Waste Management Plan had been submit to Engineer for approval.		\checkmark				
4.02	Are receptacles available for general refuse collection?		\checkmark				
4.03	Is general refuse sorting or recycling implemented?		\checkmark				
4.04	Is general refuse disposed of properly and regularly?		\checkmark				
4.05	Is the Contractor registered as a chemical waste producer?	\checkmark					
4.06	Are the chemical waste containers properly labelled?	\checkmark					
4.07	Are the chemical wastes stored in proper storage areas?		\checkmark				
4.08	Is the chemical waste storage area properly labelled?		\checkmark				
4.09	Is the chemical waste storage area used for storage of chemical waste only?		\checkmark				
4.10	Are incompatible chemical wastes stored in different areas?	\checkmark					
4.11	Are the chemical wastes disposed of by licensed collectors?	\checkmark					
4.12	Are trip tickets for chemical wastes disposal available for inspection?	\checkmark					
4.13	Are chemical/fuel storage areas bunded?		\checkmark				
4.14	Are designated areas identified for storage and sorting of construction wastes?	\checkmark					
4.15	Are construction wastes sorted (inert and non-inert) on site?	\checkmark					
4.16	Are construction wastes reused?	\checkmark					
4.17	Are construction wastes disposed of properly?		\checkmark				
4.18	Are site hoardings and signboards made of durable materials instead of timber?		\checkmark				
4.19	Is trip ticket system implemented for the disposal of construction wastes and records available for inspection?		\checkmark				
4.20	Are appropriate procedures followed if contaminated material exists?		\checkmark				
4.21	Is relevant license/ permit for disposal of construction waste or excavated materials available for inspection?		\checkmark				
4.22	Site cleanliness and appropriate waste management training had provided for the site workers.		\checkmark				
4.23	Contaminated sediments will managed according to WBTC No.12/2000 and EWTB TC(W) No. 34/2002.		\checkmark				

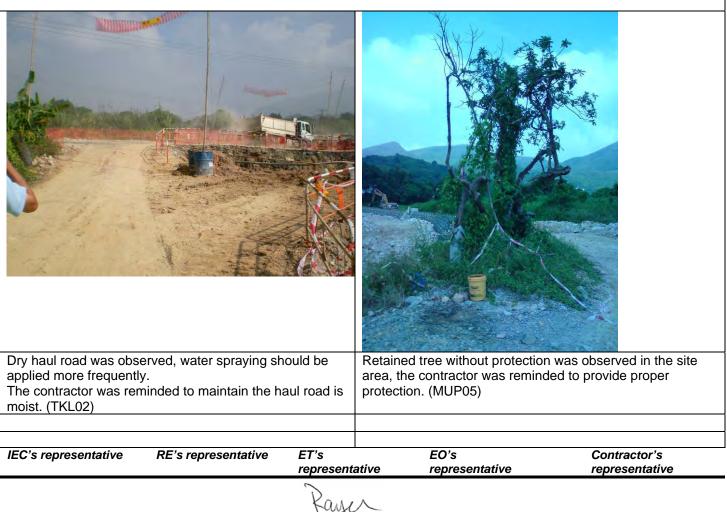


Note:	Not Obs.: Not Observed; Yes: Compliance; No: Non-Compliance; Follow Up: Observations requiring follow-Up actions N/A: Not Applicable	Not Obs.	Yes	No	Follow Up	N/A	Photo/ Remarks
Sectio	on 5: Landscape & Visual						
5.01	Are retained and transplanted trees in health condition?		\checkmark				
5.02	Are retained and transplanted trees properly protected?				\checkmark		Photo 2
5.03	Are surgery works carried out for the damaged trees?					\checkmark	
5.04	Is damage to trees outside site boundary due to construction activities avoided?		\checkmark				
5.05	Is the night-time lighting controlled to minimize glare to sensitive receivers?		\checkmark				
Sectio	on 6: Ecology						
6.01	Gabion banks and base had been provide for channel linings and banks for typical sections?	\checkmark					
6.02	Prevent site effluent/runoff discharge to the seasonal wetlands?	\checkmark					
6.03	Stockpiling or disposal of materials, and any dredging or construction activities at the seasonal wetlands are prohibited?	\checkmark					
Sectio	on 7: Others						
7.01	Are relevant Environmental Permits posted at all vehicle site entrances/exits?		\checkmark				

Remarks
Follow-Up of Last Site Inspection:
Earvidical oil was applied to prevent mosquito breeding.
(MUP05)



Findings of Site Inspection on 14th October 2010:



(

William Tang) (

)

(Ray Cheung)

(C. P. Chan) (Y. M. Mo

)

Project:	DSD Contract No	SD Contract No. DC/2007/08					Checklist No.	DC200708-211010
-	Drainage Improven Man Uk Pin and Lir		i Po Tin, Ping C	Che,	IEC/IEC's Rep RE/ RE's Rep		William Tang	
Inspection					ETL/ ET's Rej	presentative:	Ray Cheung	
Date:	21 October 2010				EO/ EO's Rep	presentative:	C.P. Chan	
Time:	10:00am				Contractor's Representativ	ve:	Y. M. Mo	
PART A:		GENE	RAL INFORMA	TION		Env	ironmental Permit I	No. EP-277/2007/A
Weather:	Sunny	✓ Fine	Cloudy	Rain	у	Calm		
Temperature:	28.2	J⁰C						
Humidity:	High	✓ Moderate	Low				N/A	
Wind:	Strong	✓ Breeze	Light	Caln	ı			
Channel				Area	a Inspected			
TKL02 TKL07 MUP01/02 MUP05								
PART B:			SITE AUDIT					

AUES

Note:	Not Obs.: Not Observed; Yes: Compliance; No: Non-Compliance; Follow Up: Observations requiring follow-Up actions N/A: Not Applicable		Yes	No	Follow Up	N/A	Photo/ Remarks
Sectio	on 1: Water Quality						
1.01	Is an effluent discharge license obtained for the Project?	\checkmark					
1.02	Is the effluent discharged in accordance with the discharge licence?	\checkmark					
1.03	Is the discharge of turbid water avoided?		\checkmark				
1.04	Are there proper desilting facilities in the drainage systems to reduce SS levels in effluent?		\checkmark				
1.05	Are there channels, sandbags or bunds to direct surface run-off to sedimentation tanks?		\checkmark				
1.06	Are there any perimeter channels provided at site boundaries to intercept storm runoff from crossing the site?		\checkmark				
1.07	Is drainage system well maintained?		\checkmark				
1.08	As excavation proceeds, are temporary access roads protected by crushed stone or gravel?		\checkmark				
1.09	Are temporary exposed slopes properly covered?		\checkmark				
1.10	Are earthworks final surfaces well compacted or protected?		\checkmark				
1.11	Are manholes adequately covered or temporarily sealed?	\checkmark					
1.12	Are there any procedures and equipment for rainstorm protection?		\checkmark				
1.13	Are wheel washing facilities well maintained?		\checkmark				
1.14	Is runoff from wheel washing facilities avoided?		\checkmark				
1.15	Are there toilets provided on site?		\checkmark				
1.16	Are toilets properly maintained?		\checkmark				
1.17	Are the vehicle and plant servicing areas paved and located within roofed areas?		\checkmark				
1.18	Is the oil leakage or spillage avoided?		\checkmark				
1.19	Are there any measures to prevent leaked oil from entering the drainage system?		\checkmark				
1.20	Are there any measures to collect spilt cement and concrete washings during concreting works?	\checkmark					



Note:	Not Obs.: Not Observed; Yes: Compliance; No: Non-Compliance; Follow Up: Observations requiring follow-Up actions N/A: Not Applicable	Not Obs.	Yes	No	Follow Up	N/A	Photo/ Remarks
1.21	Are there any oil interceptors/grease traps in the drainage systems for vehicle and plant servicing areas, canteen kitchen, etc?	\checkmark					
1.22	Are the oil interceptors/grease traps maintained properly?	\checkmark					
1.23	Is used bentonite recycled where appropriate?	\checkmark					
1.24	Designated settlement area for runoff/wheel wash waste is provide and located at the streambed with 1-2m deep, 12m long and around 50m3 capacities for sedimentation.		\checkmark				
1.25	No excavation is undertaken in the settlement area.		\checkmark				
1.26	Concreting wastes water should be neutralized below the pH Action Levels before discharge.	\checkmark					
1.27	Mobile toilets should provide on site and located away the stream course.		\checkmark				
1.25	License collector should be employed for handling the sewage of mobile toilet.		\checkmark				
Sectio	n 2: Air Quality						
2.01	Are there wheel washing facilities with high pressure jets provided at every vehicle exit point?		\checkmark				
2.02	Are vehicles washed to remove any dusty materials from their bodies and wheels before leaving construction sites?		\checkmark				
2.03	Are the excavated materials sprayed with water during handling?		\checkmark				
2.04	Are stockpiles of dusty materials sprayed with water, covered or placed in sheltered areas?		\checkmark				
2.05	Is the exposed earth properly treated within six months after the last construction activities?		\checkmark				
2.06	Are the access roads sprayed with water to maintain the entire road surface wet or paved?		\checkmark				
2.07	Is the surface where any drilling, cutting, polishing or breaking operation continuously sprayed with water?		\checkmark				
2.08	Is the load on vehicles covered entirely by clean impervious sheeting?		\checkmark				
2.09	Is the loading of materials to a level higher than the side and tail boards during transportation by vehicles avoided?		\checkmark				
2.10	Is the road leading to the construction site within 30m of the vehicle entrance kept clear of dusty materials?		\checkmark				
2.11	Is dark smoke emission from plant/equipment avoided?		\checkmark				
2.12	Are de-bagging, batching and mixing processes carried out in sheltered areas during the use of bagged cement?	\checkmark					
2.13	Are site vehicles travelling within the speed limit not more than 15km/hour?		\checkmark				
2.14	Are hoardings of not less than 2.4m high provided along the site boundary, which adjoins areas accessible to the public?	\checkmark					
2.15	Is open burning avoided?		\checkmark				
2.16	Excavated materials from the stream must remove form site on the same day. The materials shall be stored in covered impermeable skips awaiting removal from site.		\checkmark				
Sectio	n 3: Noise						
3.01	Are noisy equipment and activities positioned as far as practicable from the sensitive receivers?		\checkmark				
3.02	Is silenced equipment adopted?		\checkmark				
3.03	Is idle equipment turned off or throttled down?		\checkmark				
3.04	Are all plant and equipment well maintained and in good condition?		\checkmark				
3.05	Are noise barriers or enclosures provided at areas where construction activities cause noise impact on sensitive receivers?	\checkmark					
3.06	Are hand held breakers fitted with valid noise emission labels during operation?	\checkmark					
3.07	Are air compressors fitted with valid noise emission labels during operation?	\checkmark					



Note:	Not Obs.: Not Observed; Yes: Compliance; No: Non-Compliance; Follow Up: Observations requiring follow-Up actions N/A: Not Applicable	Not Obs.	Yes	No	Follow Up	N/A	Photo/ Remarks
3.08	Are flaps and panels of mechanical equipment closed during operation?		\checkmark				
3.09	Are Construction Noise Permit(s) applied for percussive piling works?	\checkmark					
3.10	Are Construction Noise Permit(s) applied for general construction works during restricted hours?		\checkmark				
3.11	Are valid Construction Noise Permit(s) posted at site entrances?		\checkmark				
3.12	Use of quiet plant had been used on site to minimise the construction noise impact to the surrounding residences/dwellings (Level 1 mitigation measures).	\checkmark					
3.13	Temporary/Moveable noise barrier or site hoarding are provide or erect at the site boundary to minimise the noise impact of the closest NSRs or stationary equipments shield by the noise barrier which cannot visible from NSRs (Level 2 mitigation measure)	\checkmark					
3.14	Temporary/Moveable noise barrier equal to or more than 3m height with 10kg/m2 are provide for noise mitigation measures (Level 2 mitigation measures).	\checkmark					
Sectio	n 4: Waste/Chemical Management						
4.01	Waste Management Plan had been submit to Engineer for approval.		\checkmark				
4.02	Are receptacles available for general refuse collection?		\checkmark				
4.03	Is general refuse sorting or recycling implemented?		\checkmark				
4.04	Is general refuse disposed of properly and regularly?				\checkmark		Photo 1&2
4.05	Is the Contractor registered as a chemical waste producer?	\checkmark					
4.06	Are the chemical waste containers properly labelled?	\checkmark					
4.07	Are the chemical wastes stored in proper storage areas?		\checkmark				
4.08	Is the chemical waste storage area properly labelled?		\checkmark				
4.09	Is the chemical waste storage area used for storage of chemical waste only?		\checkmark				
4.10	Are incompatible chemical wastes stored in different areas?	\checkmark					
4.11	Are the chemical wastes disposed of by licensed collectors?	\checkmark					
4.12	Are trip tickets for chemical wastes disposal available for inspection?	\checkmark					
4.13	Are chemical/fuel storage areas bunded?		\checkmark				
4.14	Are designated areas identified for storage and sorting of construction wastes?	\checkmark					
4.15	Are construction wastes sorted (inert and non-inert) on site?	\checkmark					
4.16	Are construction wastes reused?	\checkmark					
4.17	Are construction wastes disposed of properly?		\checkmark				
4.18	Are site hoardings and signboards made of durable materials instead of timber?		\checkmark				
4.19	Is trip ticket system implemented for the disposal of construction wastes and records available for inspection?		\checkmark				
4.20	Are appropriate procedures followed if contaminated material exists?		\checkmark				
4.21	Is relevant license/ permit for disposal of construction waste or excavated materials available for inspection?		\checkmark				
4.22	Site cleanliness and appropriate waste management training had provided for the site workers.		\checkmark				
4.23	Contaminated sediments will managed according to WBTC No.12/2000 and EWTB TC(W) No. 34/2002.		\checkmark				



Note:	Not Obs.: Not Observed; Yes: Compliance; No: Non-Compliance; Follow Up: Observations requiring follow-Up actions N/A: Not Applicable	Not Obs.	Yes	No	Follow Up	N/A	Photo/ Remarks
Sectio	on 5: Landscape & Visual						
5.01	Are retained and transplanted trees in health condition?		\checkmark				
5.02	Are retained and transplanted trees properly protected?		\checkmark				
5.03	Are surgery works carried out for the damaged trees?					\checkmark	
5.04	Is damage to trees outside site boundary due to construction activities avoided?		\checkmark				
5.05	Is the night-time lighting controlled to minimize glare to sensitive receivers?		\checkmark				
Sectio	on 6: Ecology						
6.01	Gabion banks and base had been provide for channel linings and banks for typical sections?	\checkmark					
6.02	Prevent site effluent/runoff discharge to the seasonal wetlands?	\checkmark					
6.03	Stockpiling or disposal of materials, and any dredging or construction activities at the seasonal wetlands are prohibited?	\checkmark					
Sectio	on 7: Others						
7.01	Are relevant Environmental Permits posted at all vehicle site entrances/exits?		\checkmark				

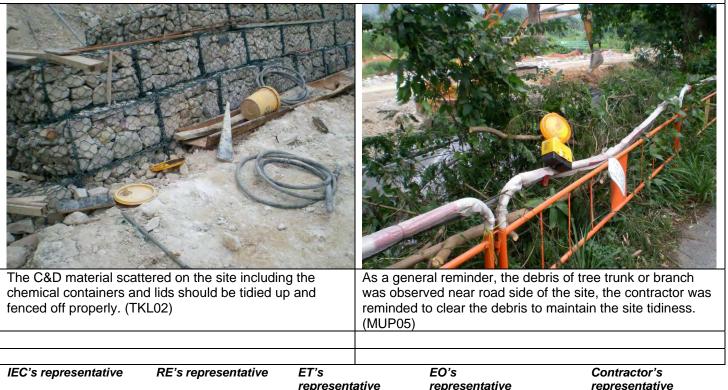




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Findings of Site Inspection on 21st October 2010:

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-			-	representative	representative			representative		
				Payer						
))	(William Tang)	(Ray Cheung)	(C. P. Chan)	(Y. M. Mo	



Appendix L

Proforma of Ecology Inspection Checklist

 $\label{eq:list} Z:\label{loss} 2008\TCS00409\DC-2007-08\belowdef{list} and \text{list} and \$

Project:	DSD Contract N Drainage Improve Tai Po Tin, Ping C	nd Lin Ma Hang	Inspected by IEC/IEC's Repres		Checklist No. 100 १ - ୨		
Inspection Date: Time:	2-18/10				ETL/ ET's Repre EO/EO's Repres Contractor's Rep	entative:	YW Wong CP (HAN
PART A:		GENE	RAL INFORMA			En	vironmental Permit No.
Weather:	Sunny	Fine	Cloudy	Rainy	Calm	E	P-277/2007A
Temperature	: <u> </u>	_ °⊂					
Humidity:	High	Moderate	Low			N/A	
Wind:	Strong	Breeze	Light	Calm			
Channel				Area In:	spected		
MUP05	/ MSROL	1 Milon	-		A.		

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PART	в:	SITE AUDIT						
Note:	EM&A REF:	Not Obs.: Not Observed; Yes: Compliance; No: Non-Compliance; Follow Up: Observations requiring follow-Up actions N/A: Not Applicable	Not Obs.	Yes	No	Follow Up	N/A	Photo/ Remarks
Secti	on 6: Ecc	ology						
1.01	6.5.8	earthworks to widen the stream have been undertaken from the landward side and existing stream untouched except during the final stage		d				
1. 04	6.5. 9	widened stream bottom floored with natural materials to approximate as closely as possible to the rocky components of a natural stream bottom					ø	No work on Stream bottom
1.02	6.5.10	Any essential works outside the dry season have been temporarily isolated from the stream		₽∕				Structure Darlor
1.03	6.5.11	Excavation works have been restricted to 300m length at any one time						
1.04	6.5.13	native riparian trees which would be impacted during construction works have been transplanted to suitable sites within the project area where possible				V		02- 902p
1.05	6.5.22	Construction activities have been restricted to works area that should be clearly demarcated		J				
1.06	6.5.22	Temporary diversions have been provided to ensure continuous water flow to the downstream section.						
1.07	6.5.22	The proposed works site inside or in the proximity of natural streams have been temporarily isolated		q/				
1.08	6.5.22	no disturbance to the stream bed and bank have been found from construction works, equipment or workers for the stream section where the existing natural stream bed and bank will be left untouched						
1.09	6.5.22	Temporary access track on streambed have been kept to the minimum width and length		₽∕				44.0.5
1.09	6.5.22	Temporary stream crossings are supported on stilts above the stream bed.						NU 105
1.10	6.5.22	Adequate temporary drainage measures including sediment and oil/grease traps have been provided to prevent contaminated site run-off entering the water bodies		¢				
1.11	6.5.22	Stockpiling of construction materials, spoils and waste have been properly covered and located away from water bodies						

Page 1 of 2

AUES

Note:	EM&A REF:	Not Obs.: Not Observed; Yes: Compliance; No: Non-Compliance; Follow Up: Observations requiring follow-Up actions N/A: Not Applicable	Not Obs.	Yes	No	Follow Up	N/A	Photo/ Remarks
1.12	6.5.22	Supervisory staff of the contractor have been assigned to station on site to closely supervise and monitor the construction works						
1.13	6.5.22	workers have bee regularly briefed to avoid disturbing the flora and fauna near the works area	D	v ⁄			-	
1.14	6.5. 22	Construction effluent, site run-off and sewage have been properly collected, treated and disposed	D				-	
1.15	6.5.22	details of the mitigation measures to be implemented during construction stage have been submitted to the Engineer for approval		₽∕			-	

Remarks

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Au mitigertion measurer mere found to be properly implemented in all chanels

IEC's representative RE's representative ET's representative EO's representative Contractor's representative (Reith Wing) M. C. P. Chan ()) (() (

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AUES

Project:	DSD Contract No Drainage Improven Tai Po Tin, Ping Ch	Inspected by IEC/IEC's Repres RE/RE's Represe		Checklist No.	010-1			
Inspection					ETL/ ET's Repres		YW Wong	
Date:	7/ (0/ ()				EO/EO's Represe	ntative:	CPC	VION
Time:	1115				Contractor's Rep	resentative:		
PART A:		GENE	RAL INFORMA	TION		Env	vironmental Permi	t No.
Weather:	Sunny	Fine	🗹 Cloudy	Rainy	Calm	EP	-277/2007A	
Temperature	. V	_ °C						
Humidity:	- High	Moderate	Low			N/A		
Wind:	Strong	Breeze	Light	Calm				
Channel				Area Ins	spected			
MUP05	1 m 1 Ros	INUPOR			An			

PART	B:	SITE AUDIT						
Note:	EM&A REF:	Not Obs.: Not Observed; Yes: Compliance; No: Non-Compliance; Follow Up: Observations requiring follow-Up actions N/A: Not Applicable	Not Obs.	Yes	No	Follow Up	N/A	Photo/ Remarks
Sectio	on 6: Eco							
1.01	6.5.8	earthworks to widen the stream have been undertaken from the landward side and existing stream untouched except during the final stage						
1. 04	6.5. 9	widened stream bottom floored with natural materials to approximate as closely as possible to the rocky components of a natural stream bottom					ď	ha work
1. 02	6.5.10	Any essential works outside the dry season have been temporarily isolated from the stream		√				on streak floor
1.03	6.5.11	Excavation works have been restricted to 300m length at any one time		V				
1.04	6. 5 .13	native riparian trees which would be impacted during construction works have been transplanted to suitable sites within the project area where possible				D⁄	•	transplanting
1.05	6.5.22	Construction activities have been restricted to works area that should be clearly demarcated		⊳∕				ale an going
1.06	6.5.22	Temporary diversions have been provided to ensure continuous water tlow to the downstream section.						
1.07	6.5.22	The proposed works site inside or in the proximity of natural streams have been temporarily isolated						the care installed
1.08	6.5.22	no disturbance to the stream bed and bank have been found from construction works, equipment or workers for the stream section where the existing natural stream bed and bank will be left untouched		e⁄				
1.09	6.5.22	Temporary access track on streambed have been kept to the minimum width and length		⊡∕				MUPJS
1.0 9	6.5.22	Temporary stream crossings are supported on stilts above the stream bed.		ø				Mulos
1.10	6.5.22	Adequate temporary drainage measures including sediment and oil/grease traps have been provided to prevent contaminated site run-off entering the water bodies						<u> </u>
1.11	6.5. 2 2	Stockpiling of construction materials, spoils and waste have been properly covered and located away from water bodies	۵		٥			

AUES

Note:	EM&A REF:	Not Obs.: Not Observed; Yes: Compliance; No: Non-Compliance; Follow Up: Observations requiring follow-Up actions N/A: Not Applicable	Not Obs.	Yes	No	Follow Up	N/A	Photo/ Remarks
1.12	6.5.22	Supervisory staff of the contractor have been assigned to station on site to closely supervise and monitor the construction works	۵	e				
1.13	6.5.22	workers have bee regularly briefed to avoid disturbing the flora and fauna near the works area						
1.14	6.5.22	Construction effluent, site run-off and sewage have been properly collected, treated and disposed				₽∕		ser helow
1.15	6.5.22	details of the mitigation measures to be implemented during construction stage have been submitted to the Engineer for approval		র্দ্র				

Remarks

2

Land March 14

and the second

Mupor/oz - An hetigetion measures were faid to	
be properly explanded	
MU105 - one of the outlet of water settlet for the site was found bypassing the teaparent sedimentation takk and dischage to the clane	~
the site was found byparsing the temporany	
sedimentation that and dischage to the	
directly.	

IEC's representative	RE's representative	ET's representative	EO's representative	Contractor's representative
()	()	(Cet way)	C.P. Chem	()

.

1				an and Au	dit Checklist		AULU
Environm	ental Team – E	cological Si	te inspecti	on and Au			
Project:	DSD Contract No	. DC/2007/08			Inspected by		Checklist No. (010 - V
	Drainage Improvem Tai Po Tin, Ping Ch	ent Works at	d Lin Ma Hang		IEC/IEC's Represe RE/RE's Represe		
-					ETL/ ET's Repres		YW Wong
Inspection Date:	1410-11	٩			EO/EO's Represe	ntative:	CP CHON_
Time:	11.3e				Contractor's Rep	resentative:	
PART A:		GENE	RAL INFORMA	TION		Env	ironmental Permit No.
Weather:	$ \rightarrow $						
vvedulet.	Sunny	Fine	Cloudy	Rainy	Calm	EP	2-277/2007A
Temperature		Fine □ °C	Cloudy	Rainy	Calm	EP	-277/2007A
			Cloudy		Calm	EP N/A	-277/2007A
Temperature	<u> </u>	°⊂		Calm	Calm		-277/2007A
Temperature Humidity:		□ °C □ Moderate	Low	Calm	Calm		-277/2007A

AUES

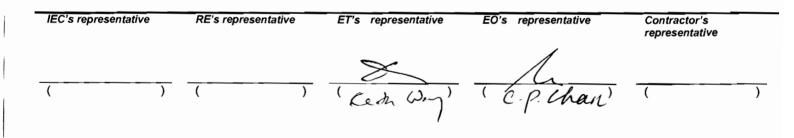
PART B:		SITE AUDIT						
Note:	EM&A REF:	Not Obs.: Not Observed; Yes: Compliance; No: Non-Compliance; Follow Up: Observations requiring follow-Up actions N/A: Not Applicable	Not Obs.	Yes	No	Follow Up	N/A	Photo/ Remarks
Sectio	n 6: Eco							
1.01	6.5.8	earthworks to widen the stream have been undertaken from the landward side and existing stream untouched except during the final stage						
1.04	6.5.9	widened stream bottom floored with natural materials to approximate as closely as possible to the rocky components of a natural stream bottom					e	the hork on these follow yest
1.02	6.5.10	Any essential works outside the dry season have been temporarily isolated from the stream		R				1000 psince yo
1.03	6.5.11	Excavation works have been restricted to 300m length at any one time						
1.04	6.5.13	native riparian trees which would be impacted during construction works have been transplanted to suitable sites within the project area where possible						en going
1.05	6.5.22	Construction activities have been restricted to works area that should be clearly demarcated		ø				
1.06	6.5.22	Temporary diversions have been provided to ensure continuous water flow to the downstream section.		0⁄				
1.07	6.5.22	The proposed works site inside or in the proximity of natural streams have been temporarily isolated		¢⁄				- linciel
1.08	6.5.22	no disturbance to the stream bed and bank have been found from construction works, equipment or workers for the stream section where the existing natural stream bed and bank will be left untouched	۵	Ð				
1.09	6.5.22	Temporary access track on streambed have been kept to the minimum width and length	۵	2				Mupos
1.09	6.5.22	Temporary stream crossings are supported on stilts above the stream bed.		¢⁄				MUPOS
1.10	6.5.22	Adequate temporary drainage measures including sediment and oil/grease traps have been provided to prevent contaminated site run-off entering the water bodies		€ √				<u> </u>
1.11	6.5.22	Stockpiling of construction materials, spoils and waste have been properly covered and located away from water bodies						

AUES

Note:	EM&A REF:	Not Obs.: Not Observed; Yes: Compliance; No: Non-Compliance; Follow Up: Observations requiring follow-Up actions N/A: Not Applicable	Not Obs.	Yes	No	Follow Up	N/A	Photo/ Remarks
1.12	6.5.22	Supervisory staff of the contractor have been assigned to station on site to closely supervise and monitor the construction works		J				
1.13	6.5.22	workers have bee regularly briefed to avoid disturbing the flora and fauna near the works area			Ó			
1.14	6.5.22	Construction effluent, site run-off and sewage have been properly collected, treated and disposed						
1.15	6.5.22	details of the mitigation measures to be implemented during construction stage have been submitted to the Engineer for approval		,,∕	-			

Remarks

MUPOI / MIPOZ - Au mitigation masure crere found properly implemented HUPOS - An hitig ation measures have found properly implemented



Environ	nental Team –	Ecological S	te Inspecti	on and Au	dit Checklist		
Project:	DSD Contract N	o. DC/2007/08 ment Works at			Inspected by IEC/IEC's Repres	entative:	Checklist No. <u>90 - 3</u>
	Tai Po Tin, Ping C	Che, Man Uk Pin an	d Lin Ma Hang		RE/RE's Represe	ntative:	
Inspection					ETL/ ET's Rep re s	sentative:	YW Wong
Date:	22 ((, 1	(9			EO/EO's Rep re se	entative:	CPCMP2
Time:	1130				Contractor's Rep	oresentative:	
PART A:		GENE		TION		Env	vironmental Permit No.
Weather:	Sunny	🖌 Fine	Cloudy	Rainy	Calm	EF	P-277/2007A
Temperature		⊃°C	/				
Humidity:	High	Moderate	Low			N/A	
Wind:	Strong	Breeze	Light	Calm			
Channel				Area In	spected		
MUP05	IMIRAL	1 Miles	-		P10		

AUES

PART	B:	SITE AUDIT						
Note:	EM&A REF:	Not Obs.: Not Observed; Yes: Compliance; No: Non-Compliance; Follow Up: Observations requiring follow-Up actions N/A: Not Applicable	Not Obs.	Yes	No	Follow Up	N/A	Photo/ Remarks
Sectio	n 6: Eco							
1.01	6.5.8	earthworks to widen the stream have been undertaken from the landward side and existing stream untouched except during the final stage		ď				
1.04	6.5.9	widened stream bottom floored with natural materials to approximate as closely as possible to the rocky components of a natural stream bottom					U⁄	no work on Stream Moor
1.02	6.5.10	Any essential works outside the dry season have been temporarily isolated from the stream		£				Stires - fcar
1.03	6 .5. 1 1	Excavation works have been restricted to 300m length at any one time				D		
1.04	6 .5.1 3	native riparian trees which would be impacted during construction works have been transplanted to suitable sites within the project area where possible				₽⁄		the transperti
1.05	6.5.22	Construction activities have been restricted to works area that should be clearly demarcated		\mathbf{V}				
1.06	6.5.22	Temporary diversions have been provided to ensure continuous water flow to the downstream section.		ď				
1.07	6.5.22	The proposed works site inside or in the proximity of natural streams have been temporarily isolated		v			0	- les en destallat
1.08	6.5.22	no disturbance to the stream bed and bank have been found from construction works, equipment or workers for the stream section where the existing natural stream bed and bank will be left untouched		vī/	D			
1.09	6.5.22	Temporary access track on streambed have been kept to the minimum width and length	۵	V	, D			M U105
1.09	6.5.22	Temporary stream crossings are supported on stilts above the stream bed.		ď				MUlos
1.10	6.5. 22	Adequate temporary drainage measures including sediment and oil/grease traps have been provided to prevent contaminated site run-off entering the water bodies						
1.11	6.5.22	Stockpiling of construction materials, spoils and waste have been properly covered and located away from water bodies						

Note:	EM&A REF:	Not Obs.: Not Observed; Yes: Compliance; No: Non-Compliance; Follow Up: Observations requiring follow-Up actions N/A: Not Applicable	Not Obs.	Yes	No	Follow Up	N/A	Photo/ Remarks
1.12	6.5.22	Supervisory staff of the contractor have been assigned to station on site to closely supervise and monitor the construction works		ď				
1.13	6.5.22	workers have bee regularly briefed to avoid disturbing the flora and fauna near the works area		ø				
1.14	6.5.22	Construction effluent, site run-off and sewage have been properly collected, treated and disposed		⋼∕				
1.15	6.5.22	details of the mitigation measures to be implemented during construction stage have been submitted to the Engineer for approval		9 ⁄				

Remarks

Au clander. Au mitigation measure, were fours properly implemented

ET's representative EO's representative Contractor's IEC's representative RE's representative representative (cit wy) (C. P. Chan)) ()) ((



Appendix M

Monthly Summary Waste Flow Table

Monthly Summary Waste Flow Table for 2010 (26 September to 25 October)

		Actual Quan	tities of Inert C&	D Wastes Generate	d Monthly			Actual Quantities of	of C&D Wastes G	enerated Monthly	
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m3)
Jan	10.532	0	0	9.422	0	1.11	0.2	0	0	0	0.006
Feb	5.665	0	0	5.335	0	0.33	0.15	0	0	0	0
Mar	5.935	0	0	5.605	0	0.33	0	0	0	0	0
Apr	7.072	0	3.502	1.887	0	1.683	0.1	0	0	0	0
May	9.638	0	4.42	3.108	0	2.11	0	0	0	0	0
Jun	6.155	0	0.864	1.991	0	3.3	0	0	0	0	0
Sub-total	44.997	0	8.786	27.348	0	8.863	0.45	0	0	0	0.006
Jul	6.067	0	1.128	2.706	0	2.233	0.1	0	0	0	0.017
Aug	3.84	0	1.2	0.52	0	2.12	0	0	0	0	0.017
Sep	4.528	0	1.64	1.161	0	1.727	0	0	0	0	0
Oct	5.566	0	2.32	0.83	0	2.416	0.2	0	0	0.02	0
Nov								1			
Dec											
Total	61.752	0	15.074	32.565	0	17.359	0.75	0	0	0.02	0.04

				Forecast of Tota	ll Quantities of C	&D Materials to	be Generated from	n the Contract*			
IVI	Total Quantity	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000m ³)
	283.5	35.1	47.5	107	32	24	60	1	1	1	10

Notes: (1) The performance targets are given in PS Clause 25.01F(14).

(2) The waste flow table shall also include C&D materials 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) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m3. (PS Clause 25.01E(4)(b) refers). [Delete Note (4) and the table above on the forecast, where inapplicable].

Summary Table for Work Processes or Activities Requiring Timber for Temporary Works

Contract No. : DC/2007/08

Date: : 01 November 2010

Contract Title: _____DRAINAGE IMPROVEMENT WORKS AT TAI PO TIN, PING CHE, MAN UK PIN & LIN MA HANG_

Item No.	Description of Works Process or Activity [see note (a) below]	Justifications for Using Timber in Temporary Construction Works	Est. Quantities of Timber Used (m ³)	Actual Quantities used (m ³)	Remarks
	Construction inlet & outlet chamber at channel TKL02	Wall and base slab formwork	1.7	2.0	
2.	Construction of access ramp at channel TKL07	Base slab & wall formwork of FBM07-3 and Ramp 1's bay 2-3.	7.6	7.0	
		Wall formwork of footbridge FBM05-4, retaining by FBM05-5 and inlet chamber	3.8	4.0	
4	Construction of footbridge at channel MUP02	Wall formwork of retaining by FBM05-5 and inlet chamber			
. <u> </u>		Total Estimated Quantity of Timber Used	13.1		

- Notes: (a) The Contractor shall list out all the work items requiring timber for use in temporary construction works. Several minor work items may be grouped into one for ease of updating.
 - (b) The summary table shall be submitted to the Engineer's Representative monthly together with the Waste Flow Table for review and monitoring in accordance with the PS Clause 25.01E(5).



Appendix N

Response to Comments

 $\label{eq:loss_2008} Z:Jobs\2008\TCS00409\DC-2007-08\b00\mpact\DP\Monthly\Report\20th\Monthly\-\Oct2010\R0872v1_Oct.doc\Action-United\Environmental\Services\ and\ Consulting$

DSD Contract DC/2007/08 – Drainage Improvement Works at Tai Po Tin, Ping Che, Man Uk and Lin Ma Hang

1st Response to IEC Comments – EM&A Report (Designated Project)

ltem	Section / Paragraph	Comment	Response
1	ES.05	Please check whether the information is up-to-date.	Updated
2	Section 5.4	The audited result is not the reporting period. Please update.	Updated
3	Table 6-1	Refer to the attached WFT, chemical waste was generated in the reporting period. Please report the quantity in the Table.	Amended
4	Appendix H	Missing.	Attached
5	Appendix L	Missing.	Attached
6		Please be reminded that the power failure should be fixed as soon as possible and the 24-hr TSP monitoring shall be resumed immediately when the power supply is re-installed.	Done

2nd Response to IEC Comments – EM&A Report (Designated Project)

ltem	Section / Paragraph	Comment	Response