# **Drainage Service Department**

Monthly Environmental Monitoring & Auditing report for

Contract No.DC/2009/22

Drainage Improvement in Shuen Wan, Tai Po – Contract 1

**July 2012** 

# **Environmental Pioneers & Solutions Limited**

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#### **EXECUTIVE SUMMARY**

This is the seventeenth monthly Environmental Monitoring and Audit (EM&A) Report for the drainage improvement works in Shuen Wan, Tai Po under Drainage Services Department Contract No. DC/2009/22 entitled "Drainage Improvement Works in Shuen Wan, Tai Po – Contract 1". This report concludes the impact monitoring for the activities undertaken during the period from 1<sup>st</sup> of July 2012 to 31<sup>st</sup> July 2012. The major site activities in this reporting period were mainly Internal finishing for the proposed Transformer room & Switchroom, concreting of the proposed discharge chamber at +3.0mPD, sheetpiles installation for the proposed the DN2100 storm relief drain at the proposed stormwter pumping station site and Excavation for construction of the proposed box culvert (CH156 to CH214).

The Environmental Team (ET) is responsible for the EM&A works required in the EM&A manual (revision 3). Site inspections were carried out on weekly basis to investigate and audit the equipment and work methodologies with respect to pollution control and environmental mitigation. The weekly inspections records and photos taken were kept.

In general, waste management was satisfactory during the reporting period.

Impact monitoring for construction noise was conducted in the reporting period. No exceedance of A/L level was reported.

Furthermore, impact monitoring for water quality was conducted. Total 13 abnormal incidents of water quality criteria were recorded in this reporting month. It was observed that the river was narrowed for construction of mechanical penstocks; and increases the speed of water current. During the reporting period, no construction works were carried out at the river bed. Proper mitigation measures were implemented by contractor to avoid site water release to the Wai Ha river and no particular observation of defective site activities were found causing water contamination; The exceedance of Turbidity and Total Suspended Solid were believed to be mainly attributed by high water flow rate and for the high level of turbidity and SS, it was also believed to be mainly attributed by adverse weather. The exceedances of DO were believed to be mainly attributed by natural fluctuation. And, since the recorded

levels of DO at control station had also exceeded its baseline limit level, the exceedances recorded at W2 were unlikely to be related to the Project.

No exceedance of A/L level was reported for the monitoring of hydrological characteristics in the reporting period.

The ecological monitoring of the Ecological Compensatory Area (ECA) of the project is conducted. Details of the findings are referred to sections 6.2.

Visual and landscape monitoring has been conducted for the project. Details of the observations are referred to sections 7.3.

There was no complaint, notification of any summons and successful prosecutions against the project received during the reporting period.

Site works proposed to be carried out in the upcoming month at Area A, B & C are refer to section 2.2.

It is expected that noise, air and water quality impacts will be resulted from the works. ET has reminded the contractor to provide environmental pollution control measures wherever necessary and to keep a good environmental management at site practice. The recommended mitigation measures proposed for the project as well as implementation status are refer to section 12.3.

The ET will continue to implement the environmental monitoring & audit programme in accordance with the EM&A Manual (revision 3) and Environmental Permit requirement.

#### 1 Introduction

This is the seventeenth monthly Environmental Monitoring and Audit (EM&A) Report for the drainage improvement works in Shuen Wan, Tai Po under Drainage Services Department Contract No. DC/2009/22 entitled "Drainage Improvement Works in Shuen Wan, Tai Po – Contract 1". The site layout plan is shown in Appendix A. The Environmental Team, Environmental Pioneers & Solutions Limited was appointed by Kwan Lee – Kuly Joint Venture to prepare the report. The report is to be submitted to the Contractor, the Engineer and the IEC.

This report presents the results of the environmental monitoring of the project activities conducted within the reporting period from 1<sup>st</sup> July 2012 to 31<sup>st</sup> July 2012. This report included the noise monitoring, water quality monitoring, hydrological characteristics monitoring, ecological monitoring, visual and landscape monitoring, and regular site inspections once per week for verification of implementation of the mitigation measures as recommended in the Environmental Permit (EP-303/2008) (EP), EM&A Manual (revision 3) and the Contractor's Environmental Management Plan (EMP).

#### 2 Construction Stage

#### 2.1 Construction activities in the reporting period

Major activities in the reporting period included the followings:

Area A – Internal finishing for the proposed Transformer room & switchroom.

Area A – Laying of E&M ducting for the proposed Transformer room & switchroom.

Area A – Concreting of the proposed discharge chamber at +3.0mPD.

Area A – Sheetpiles installation for the proposed DN1200 at the proposed Stormwater Pumping Station Site.

Area A – Sheetpiles installation for the proposed DN2100 storm relief drain at the proposed Stormwater pumping Station Site.

Area A – Excavation for construction of the proposed DN1200 drain at the proposed Stormwater Pumping Station Site.

Area A – Sheetpiles installation for DN2100 storm relief drain (CH80 to 120) at Ting Kok Raod.

Area A – Excavation for the proposed DN2100 Storm relief drain (CH80 to CH140) at Ting Kok Road.

Area B – Excavation for construction of the proposed box culvert (CH 156 to CH214).

Area B – Concreting for base slab for the proposed box culvert (CH186 to CH214)

Area B – Drill cut for grouting for the proposed DN2800 twin pipe

Area C – In Maintenance period.

#### 2.2 Construction activities for the coming month

Proposed key construction works in the coming month will include:

Area A (Pumping Station)

- 1. Internal finishing for the proposed transformer room and switch room.
- 2. Construction of screen house and store room.
- 3. Construction of flowmeter chamber and DN1200 concrete pipe.

- 4. Construction of DN2100 Storm relief drains (CH80 to CH120) at Ting Kok Road.
- 5. Construction of receiving pit for cross road DN2800 twin pipe.
- 6. Construction of the proposed receiving pit.
- 7. Construction of the proposed discharge chamber

#### Area B (Tung Tsz Nursery)

- 1. Construction of box culvert CH156 to CH214.5.
- 2. Construction of jacking pit for cross road DN2800 twin pipe.

#### Area C (HCA)

1. In Maintenance Period

#### 2.3 Environmental Status

Appendix A shows the drawing of the project area.

Locations of the monitoring and control stations with environmental sensitive receivers are presented in Section 3.3, 4.3, and 5.3 for noise, water quality, and hydrological characteristics respectively.

#### 3 Noise Monitoring

# 3.1 Monitoring Parameters and Methodology

The construction noise level was measured in terms of the A-weighted equivalent continuous sound pressure level ( $L_{eq}$ ).  $L_{eq~(30 minutes)}$  was used as the monitoring parameter for the impact monitoring in the time period between 0700 to 1900 hours on normal weekdays. For all other time period,  $L_{eq~(5 minutes)}$  was employed for comparison with the Noise Control Ordinance (NCO) criteria.

Noise measurement results obtained from each monitoring location were recorded in the Construction Noise Monitoring Data Sheet (Appendix D) immediately after the measurement. As supplementary information for data auditing, statistical results  $L_{10}$  and  $L_{90}$  were also be recorded for reference.

In case of non-compliance with the construction noise criteria, more frequent monitoring, as specified in the Action plan in Table 3.5.2, shall be carried out. This additional monitoring shall be carried out until the recorded noise levels are rectified or proved to be irrelevant to the construction activities.

#### 3.2 Monitoring Equipment

The sound level meters and calibrators comply with the International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications as referred to in the Technical Memorandum (TM) to the Noise Control Ordinance was deployed as monitoring equipment for noise measurement.

Noise measurement was not be made in the presence of fog, rain, wind with a steady speed exceeding 5ms<sup>-1</sup> or wind with gust exceeding 10ms<sup>-1</sup>. Thus wind speed was checked by the portable wind speed indicator capable of measuring the wind speed in m/s. Table 3.2.1 summarizes the equipment list for noise monitoring

Table 3.2.1 Equipment List for Noise Monitoring

Equipment	Manufacturer & Model No.	<b>Precision Grade</b>	Qty
Integrated sound	Svantek 949	IEC 651 Type 1	1
level meter		IEC 804 Type 1	
Windscreen	Microtech gefell model W2	N/A	1
Acoustical	Svantek SV30A	IEC 942 Type 1	1
calibrator			
Wind speed	Kestrel K1000	N/A	1
indicator			

Remarks: Calibration details of the sound level meter is given in Appendix C for reference

# 3.3 Monitoring Locations

According to the Environmental Monitoring and Audit manual, impact noise monitoring for contract 1 was undertaken at two locations during the construction phase of the project. The proposed monitoring locations are summarized in Table 3.3.1. Figure 3.3.1 shows the Noise Monitoring Locations

Noise measurement at each monitoring location was taken at a point 1m from the exterior of the selected premises and at a height of 1.2m above ground with no disturbance to the dweller and least obstructed view.

Table 3.3.1 Noise Monitoring Locations during Construction Phase

Noise	Monitoring	Lagation				
Station		Location				
M1		14, Shuen Wan Chim Uk				
A T 1		Joint Village Office for Villages in Shuen Wan,				
AL1		Tai Po				

In accordance with the requirements in the EM&A manual (revision 3), weekly impact monitoring was conducted. For the time period between 0700 and 1900 hours on normal weekdays, and noise parameter of  $L_{eq~(30minutes)}$  was measured. As if the construction works were carried out during restricted period (i.e. 1900-2300, 2300-0700 of next day and Sundays / general holiday), impact monitoring that comprises 3 consecutive  $L_{eq~(5minutes)}$  would be carried out.

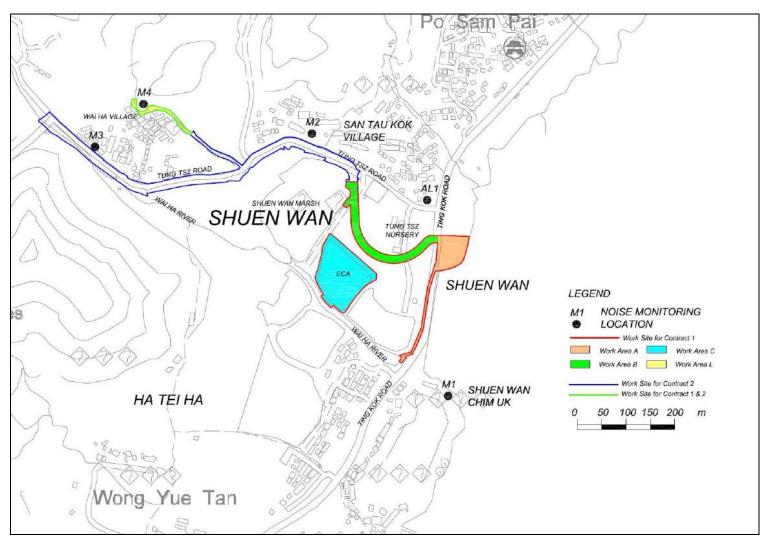


Figure 3.3.1 Impact noise monitoring locations

#### 3.4 Monitoring Results and Interpretation

Relevant details of the noise monitoring results are presented in Table 3.4.1. The results of M1 ranged between 60.7dB (A) and 64.4dB (A), and AL1 ranged between 62.6dB (A) and 68.2dB (A), were within the limit levels and therefore, no exceedance was found.

	Table 3.4.1 Noise Monitoring Results for the reporting period						
Location	Parameter	Date*	Time	L <sub>Aeq</sub> dB(A)	Limit dB(A)	Exceedance	Weather
M1	L <sub>eq 30mins</sub>	5-July-12	13:10	62.3	75	N	Sunny
M1	L <sub>eq 30mins</sub>	11-July-12	10:45	60.7	75	N	Sunny
M1	L <sub>eq 30mins</sub>	18-July-12	11:00	64.4	75	N	Sunny
M1	L <sub>eq 30mins</sub>	25-July-12	11:45	62.1	75	N	Sunny
AL1	L <sub>eq 30mins</sub>	5-July-12	13:50	62.6	75	N	Sunny
AL1	L <sub>eq 30mins</sub>	11-July-12	11:25	64.2	75	N	Sunny
AL1	L <sub>eq 30mins</sub>	18-July-12	11:35	67.2	75	N	Sunny
AL1	L <sub>eq 30mins</sub>	25-July-12	13;10	68.2	75	N	Sunny

Remarks: Raw datasheet for noise monitoring are attached in Appendix D for reference.

# 3.5 Action and Limit level for Construction noise

The Action and Limit (A/L) levels for construction noise are defined in Table 3.5.1. Should non-compliance of the criteria occur, action in accordance with the Action Plan in Table 3.5.2 should be carried out.

There was no exceedance recorded in the reporting period.

Table 3.5.1 Action and Limit Levels for Construction noise

Time Period	Action Level	Limit Level			
	When one documented complaint is received	75dB(A)			
-	works are to be carried out du	ring restricted hours, the			
conditions stipulated in the construction noise permit issued					
Noise Contro	Noise Control Authority have to be followed.				

#### 3.6 Monitoring Schedule for the next reporting period

Noise monitoring schedule is proposed to be carried out on  $1^{st}$ ,  $8^{th}$ ,  $15^{th}$ ,  $22^{nd}$  and  $29^{th}$  of August 2012.

Table 3.5.2 Event / Action Plan for Construction Noise

EVENT	ET Leader	IEC	ER	CONTRACTOR
Action	1. Notify IEC and	1. Review the	1. Confirm receipt	1. Submit noise
Level	Contractor.	analysed	of notification	mitigation
	2. Carry out	results	of	proposals to
	investigation.	submitted by	failur	IEC.
	3. Report the results	the ET.	e in writing.	2. Implement
	of investigation	2. Review the	2. Notify	noise
	to the IEC, ER	proposed	Contractor.	mitigation
	and Contractor.	remedial	3. Require	proposals.
	4. Discuss with the	measures by the	Contractor	
	Contractor and	Contractor and	to propose remedial	
	formulate	advise the ER	measures for	
	remedial	accordingly.	the analysed	
	measures.	3. Supervise the	noise problem;	
	5. Increase	implementation	4. Check remedial	
	monitoring	of remedial	measures are	
	frequency to	measures.	properly	
	check mitigation		implemented.	
	effectiveness.			

#### Limit 1. Take immediate 1. Notify IEC, ER, 1. Discuss 1. Confirm Level EPD and amongst ER. receipt of action to avoid Contractor. ET, and notification of f Contractor on urther 2. Identify source. 2. Notify the potential exceedance. Contractor. 3. Repeat remedial 2. Submit measurements to 3. Require actions. proposals for confirm findings. Contractor 2. Review remedial 4. Increase Check remedial Contractor's' actions to IEC monitoring measures within 3 remedial frequency. properly working days actions implemented. 5. Carry out whenever of notification. analysis If exceedance necessary to 3. Implement the Contractor's continues. assure their agreed consider what working effectiveness proposals. procedures to portion of the advise and 4. Resubmit determine work is the proposals if possible responsible ER problem still mitigation to be and instruct the accordingly. not under implemented. Contractor to 3. Supervise the control. stop that 6. Inform IEC, ER implementation portion of work 5. Stop the and EPD the remedial until the relevant portion causes and measures. exceedance is of works as actions taken for abated. determined by the exceedances. the ER until the 7. Assess exceedance is effectiveness of abated. Contractor's remedial actions and keep IEC, EPD and ER informed of the results. 8. If exceedance stops, cease additional monitoring.

#### 4 Water Monitoring

# 4.1 Water Quality Monitoring Parameters and methodology

Turbidity in Nephelometric Turbidity Unit (NTU), and Dissolved Oxygen (DO) in mg/L, temperature, and pH measurements were in-situ measurements and suspended solids measurements were performed by a HOKLAS accredited laboratory using recommended reference method APHA 2540D.

# 4.2 Monitoring Equipment

Turbidity, DO, Salinity, pH and temperature was measured by an instrument complied with the following requirements:

The instrument is a portable as well as weatherproof multimeter complete with cable and uses a DC power source. It is capable of measuring:

- A turbidity between 0-800NTU;
- A dissolved Oxygen level in the range of 0-20mg/L and 0-200% saturation;
- A temperature of 0-50°C;
- Salinity in the range of 0-40ppt;
- pH in the range of 0-14.

The measurements were performed by a portable and weatherproof multi-meter, model TOA-DKK WQC-24. The equipment was calibrated and verified by certified laboratory every 3 months to ensure they perform to the same level of accuracy as stated in the manufacturer's specification. Detailed calibration records of the multi-meter were shown in Appendix C for reference

Suspended solids were determined by the water samples collected from the monitoring locations for further analysis in accredited HOKLAS laboratory. Water samples were contained by polythene bottles, packed in ice (cooled in 4°C without frozen) and delivered to the laboratory for analysis as soon as possible after collection.

# 4.3 Monitoring Locations

In accordance with the EM&A Manual (revision 3), monitoring stations for contract 1 were established at two locations, which are summarized in Table 4.3.1.

**Table 4.3.1 – Water Quality Monitoring Stations** 

Monitoring Station	Location	Coordinates
W1	Between the Shuen Wan Marsh	E:839301
W I	and ECA	N:836386
	Between Tolo Harbour and	E:839542
W2	Proposed Penstock	N:836184

As illustrated in Figure 4.3.1, W1 served as the control station while W2 was the monitoring location of water quality.

According to the approved proposal of revision for Action/Limit Level Criteria of Water Quality Monitoring, two reference points (C1 & C2) were added.

Should the water quality parameters monitoring results at the monitoring station W2 exceed the water quality criteria, the water quality monitoring data of two reference points (C1 and C2) will be used as the supplementary information. The monitoring data of C1 should be used for comparison with the monitoring data of W2 that taken at flood tide; and the monitoring data of C2 should be used for comparison with the monitoring data of W2 that taken at ebb tide. The comparison of water quality between W2 and C1 at flood tide and between W2 and C2 at ebb tide is to prove whether influence of water quality is caused by the construction activities. The details of C1 and C2 are presented in **Appendix O**.

In accordance with the EM&A Manual (revision 3), measurements shall be taken at 3 water depths, namely, 1m below water surface, mid-depth and 1m above river bed, except where the water depth less than 6m, the mid-depth station may be omitted. Should the water depth be less than 3m, only the mid-depth station will be monitored.

As the depth of water was less than 3m, water samples were collected at mid-depth of each proposed monitoring stations for measurements and sample collection.

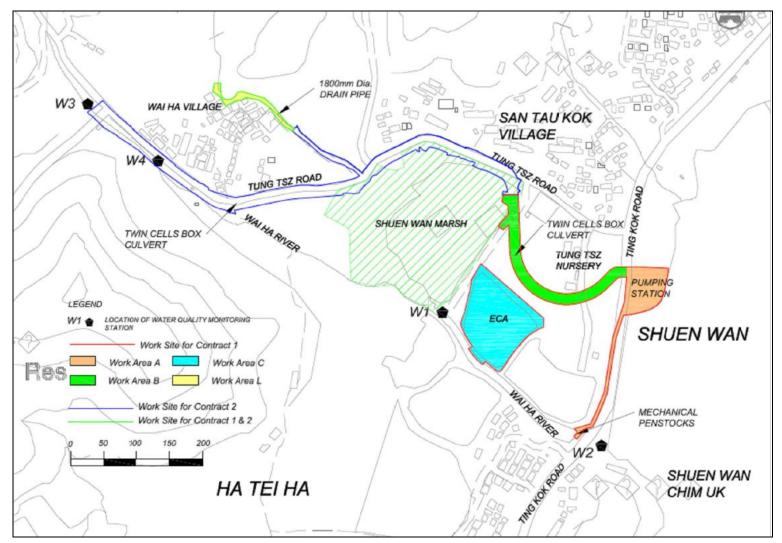


Figure 4.3.1 Water Quality Monitoring Locations

### 4.4 Monitoring Frequency

Impact water quality monitoring for each monitoring station were performed at mid-flood or mid-ebb tides for 3 days per week during the course of the construction river works.

Monitoring were carried out on 3<sup>rd</sup>, 5<sup>th</sup>, 7<sup>th</sup>, 9<sup>th</sup>, 11<sup>th</sup>, 13<sup>th</sup>, 16<sup>th</sup>, 18<sup>th</sup>, 20<sup>th</sup>, 23<sup>rd</sup>, 25<sup>th</sup>, 27<sup>th</sup> and 30<sup>th</sup> of July 2012.

# 4.5 Monitoring Results and Interpretation

Water quality monitoring was carried out thirteen times in this reporting month. Detailed on-site measurements are shown in Appendix E. Table 4.5.1 presents consolidated results throughout the reporting month.

There were 13 abnormal incidents of water quality limits (Dissolved Oxygen, Suspended Solid and Turbidity) were recorded in this reporting month according to the established action and limit levels. ET has arranged site investigations for the abnormal incidents and it was observed that the river was narrowed for construction of mechanical penstocks; and increases the speed of water current. No construction activities were carried out at the river bed during the reporting period. Proper mitigation measures were implemented by contractor to avoid site water release to the Wai Ha river and no particular observation of defective site activities were found causing water contamination; The exceedance of Turbidity and Total Suspended Solid were believed to be mainly attributed by high water flow rate and adverse weather. The exceedances of DO were believed to be mainly attributed by natural fluctuation, since the recorded levels of DO at control station had also exceeded its baseline limit level, the exceedances recorded at W2 were unlikely to be related to the Project.

The water condition of Wai Ha River is presented in photo attached in Appendix N.

Details information of these incidents was presented in Section 8.

Table 4.5.1 Summary of Water Quality Monitoring Results of this reporting month

	Average of M	verage of Monitoring Results						
	Townsonature	Turki dita		Dissolved	Dissolved	Suspended		
	Temperature	Turbidity	pH Oxygen Ox	Oxygen	Solids			
	(°C)	(NTU)		(mg/L)	(%)	(mg/L)		
W1	30.76	8.2	6.96	4.84	63.1	14.08		
W2	29.8	40.5	7.33	7.17	89.5	33.28		
C1	27.35	13.95	7.50	7.72	96.5	9.9		
C2	31.63	7.6	8.13	4.77	63.8	11.55		

Table 4.5.2 Interpretations of abnormal incidents recorded in the reporting month

Date	Tide	Parameter	Interpretations	
2/7/2012	Dhh	Turbidity	Incident was regarded as high river flow rate since	
3/7/2012 Ebb		SS	river narrowed was observed.	
5/7/2012	Dhh	Turbidity	Incident was regarded as high river flow rate since	
5/7/2012	Ebb	SS	river narrowed was observed.	
7/7/2012	Ebb	Turbidity	Incident was regarded as high river flow rate since river narrowed was observed.	
		Turbidity	T-1:1:4:1 CC	
0/7/2012	Ekk	DO	Turbidity and SS exceedances were regarded as high river flow rate since river narrowed was observed.	
9/7/2012	Ebb	Suspended Solids	DO exceedance was caused by natural fluctuation.	
11/7/2012	Ebb	Turbidity	Turbidity exceedance was regarded as high river flow rate since river narrowed was observed.	
			DO	DO exceedance was caused by natural fluctuation.
13/7/2012	Ebb	Turbidity	Incident was regarded as high river flow rate since river narrowed was observed.	
16/7/2012	El-l-	Turbidity	Incident was regarded as high river flow rate since	
16/7/2012	Ebb	SS	river narrowed was observed.	
10/7/0010	TI I	Turbidity	Incident was regarded as high river flow rate since	
18/7/2012	Ebb	SS	river narrowed was observed.	
20/7/2012	Ebb	Turbidity	Incident was regarded as high river flow rate since river narrowed was observed.	
23/7/2012	Flood	Turbidity	Incident was regarded as high river flow rate since river narrowed was observed.	

25/7/2012	Ebb	Turbidity	Exceedances were caused by adverse weather
23/1/2012		SS	condition.
		Turbidity	Exceedances were caused by adverse weather and
27/7/2012		DO	natural fluctuation.
		SS	natural fluctuation.
30/7/2012	Ebb	Turbidity	Incident was regarded as high river flow rate since
30/7/2012	EDD	SS	river narrowed was observed.

The site activities of July 2012 were shown in **Appendix P**.

#### 4.6 Action and limit level for Water Quality

Based on the criteria stipulated in EM&A manual (revision 3) and baseline water quality monitoring data obtained, the A/L levels are shown in Table 4.6.1, Table 4.6.2. The A/L levels for W1 were ignored since W1 functions as the control station for contract 1. If the water quality monitoring results at any impact stations exceeded the criteria, the actions in accordance with the Event and Action Plan in Table 4.6.3 should be taken.

Table 4.6.1 Action and Limit Levels for Water Quality at All Monitoring Stations

Parameters	Action	Limit		
DO in mg/L	5 percentile of baseline data	4 mg/L		
pН	N/A	6.0 – 9.0		
	95 percentile of baseline data or	99 percentile of baseline data or		
SS in mg/L	120% of upstream control	130% of upstream control		
	station's SS	station's SS		
Trade i ditara i in	95 percentile of baseline data or	99 percentile of baseline data or		
Turbidity in	120% of upstream control	130% of upstream control		
NTU	station's Turbidity	station's Turbidity		

Table 4.6.2 Action and Limit Levels for Water Quality at All Monitoring Stations

	Monitor	ing Statio	ons (Flood	Flood Tide) Monitoring Stations (Ebb		ons (Ebb '	Γide)	
Parameters	W1		W2		W1		W2	
rarameters	Action	Limit	Action	Limit	Action	Limit	Action	Limit
	Level	Level	Level	Level	Level	Level	Level	Level
DO (mg/L)	8.07	8.07	7.81	7.69	7.12	7.02	6.77	6.31
pН	N/A	6.0-9.0	N/A	6.0-9.0	N/A	6.0-9.0	N/A	6.0-9.0
SS (mg/L)	7.7	8.1	7.7	8.6	10.5	10.9	9.4	9.9
Turbidity (NTU)	4.9	5.3	1.7	1.8	4.2	4.7	3.0	3.5

#### Remarks:

For DO, non-compliance of the 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.

Table 4.6.3 Event and action Plan for Water Quality

Event	ET Leader	IEC	ER	Contractor
ACTION LEV	EL			
Action level	1. Repeat in-situ	1. Discuss	1. Discuss	1. Inform Engineer
being	measurements to	mitigation	proposed	and confirm in
exceeded by	confirm findings;	measures with	mitigation	writing
one sampling	2. Identify reasons for	ET, Engineer	measures with	notification of the
day	non-compliance	and Contractor;	IEC, ET and	non-compliance;
	and source(s) of	2. Review	Contractor;	2. Rectify
	impact;	proposals on	2. Make	unacceptable
	3. Inform IEC,	mitigation	agreement on	practice;
	Contractor and	measures	mitigation	3. Check all plant
	Engineer;	submitted by	measures to	and equipment;
	4. Check monitoring	Contractor and	be	4. Consider changes
	data, all plant,	advise the	implemented;	in working
	equipment and	Engineer	3. Assess	methods;
	Contractor's	accordingly;	effectiveness	5. Discuss with ET,
	working methods;	3. Assess	of	IEC and Engineer
	5. Discuss mitigation	effectiveness of	implemented	and propose
	measures with	implemented	mitigation	mitigation
	IEC, Engineer and	mitigation	measures.	measures to IEC
	Contractor;	measures.		and Engineer
	6. Ensure mitigation			within three
	measures are			working days;
	implemented.			6. Implement
	7. Repeat			agreed mitigation
	measurement on			measures.
	next day of			
	exceedance.			

Action level	1. Repeat in-situ	1. Discuss	1. Discuss 1	. Inform Engineer
being	measurements to	mitigation	proposed	and confirm in
exceeded by	confirm findings;	measures with	mitigation	writing
more than	2. Identify reasons for	ET, Engineer	measures with	notification of the
two	non-compliance	and Contractor;	IEC, ET and	non-compliance;
consecutive	and source(s) of	2. Review	Contractor; 2	2. Rectify
sampling	impact;	proposals on	2. Make	unacceptable
days	3. Inform IEC,	mitigation	agreement on	practice;
	Contractor and	measures	mitigation 3	3. Check all plant
	Engineer;	submitted by	measures to	and equipment;
	4. Check monitoring	Contractor and	be 4	. Consider changes
	data, all plant,	advise the	implemented;	in working
	equipment and	Engineer	3. Assess	methods;
	Contractor's	accordingly;	effectiveness 5	. Discuss with ET,
	working methods;	3. Assess	of	IEC and Engineer
	5. Discuss mitigation	effectiveness of	implemented	and propose
	measures with	implemented	mitigation	mitigation
	IEC, Engineer and	mitigation	measures.	measures to IEC
	Contractor;	measures.		and Engineer
	6. Ensure mitigation			within three
	measures are			working days;
	implemented.		6	. Implement
	7. Prepare to increase			agreed mitigation
	the monitoring			measures.
	frequency to			
	daily;			
	8. Repeat			
	measurement on			
	next day of			
	exeedance.			
LIMIT LEV	EL			
Limit level	1. Repeat in-situ	1. Discuss	1. Discuss 1	. Inform Engineer
being	measurements to	mitigation	proposed	and confirm in
exceeded by	confirm findings;	measures with	mitigation	writing
one	2. Identify reasons for	ET, Engineer	measures with	notification of the
sampling	non-compliance	and Contractor;	IEC, ET and	non-compliance;
day	and source(s) of	2. Review	Contractor; 2	2. Rectify

	impact;	proposals on	2. Request	unacceptable
	3. Inform EPD, IEC,	mitigation	Contractor to	practice;
	Contractor and	measures	critically 3.	Check all plant
	Engineer;	submitted by	review the	and equipment;
	4. Check monitoring	Contractor and	working 4.	Consider changes
	data, all plant,	advise the	methods;	in working
	equipment and	Engineer	3. Make	methods;
	Contractor's	accordingly;	agreement on 5.	Discuss with ET,
	working methods;	3. Assess	mitigation	IEC and Engineer
	5. Discuss mitigation	effectiveness of	measures to	and propose
	measures with IEC,	implemented	be	mitigation
	Engineer and	mitigation	implemented;	measures to IEC
	Contractor;	measures.	4. Assess	and Engineer
	6. Ensure mitigation		effectiveness	within three
	measures are		of	working days;
	implemented;		implemented 6.	Implement
	7. Increase the		mitigation	agreed mitigation
	monitoring		measures.	measures.
	frequency to daily			
	until no exceedance			
	of Limit level.			
Limit level	1. Repeat in-situ	1. Discuss	1. Discuss 1.	Inform Engineer
being	measurements to	mitigation	proposed	and confirm in
exceeded by		measures with	mitigation	writing
more than	2. Identify reasons for	ET, Engineer	measures with	notification of the
two	non-compliance and	and Contractor;	IEC, ET and	non-compliance;
consecutive	source(s) of impact;	2. Review	·	Rectify
sampling	3. Inform EPD, IEC,	1 1	2. Request	unacceptable
days	Contractor and	mitigation	Contractor to	practice;
	Engineer;	measures	•	Check all plant
	4. Check monitoring	submitted by	review the	and equipment;
	data, all plant,	Contractor and		Consider changes
	equipment and	advise the	methods;	in working
	Contractor's	Engineer	3. Make	methods;
	working methods;	accordingly;		Discuss with ET,
		3. Assess	mitigation	IEC and Engineer
	measures with IEC,	effectiveness of	measures to	and propose

Engineer and	implemented	be	mitigation
Contractor;	mitigation	implemented;	measures to IEC
6. Ensure mitigation	measures.	4. Assess	and Engineer
measures are		effectiveness	within three
implemented.		of	working days;
7. Increase the		implemented 6.	Implement
monitoring		mitigation	agreed mitigation
frequency to daily		measures;	measures;
until no exceedance		5. Consider and 7.	As directed by
of Limit level for		if necessary	the Engineer,
two consecutive		instruct	slow down or
days.		Contractor to	stop all or part of
		slow down or	the construction
		to stop all or	activities until no
		part of the	exceedance of
		construction	Limit level.
		activities until	
		no exceedance	
		of Limit	
		Level.	

# 4.7 Monitoring Schedule for the next reporting period

Water quality monitoring schedule is proposed to be carried out on  $1^{st}$ ,  $3^{rd}$ ,  $6^{th}$ ,  $8^{th}$ ,  $10^{h}$ ,  $13^{th}$ ,  $15^{th}$ ,  $17^{h}$ ,  $20^{th}$ ,  $22^{nd}$ ,  $24t^{h}$ ,  $27^{th}$ ,  $29^{th}$  and  $31^{st}$  of August 2012.

#### 5 Hydrological Characteristics Monitoring

# 5.1 Hydrological Characteristics Monitoring Parameters and methodology

Impact monitoring of hydrological characteristics was undertaken to establish hydrological characteristics of sections of Wai Ha River adjacent to Drainage Improvement Works in Shuen Wan, Tai Po.

The hydrological characteristics of sections of Wai Ha River were measured by water flow rate and depth.

# 5.2 Monitoring Equipment

Monitoring performed by a portable echo-sounder, model Greyline Stingray. The equipment was calibrated and verified by certified laboratory or manufacturer every year to ensure they perform to the same level of accuracy as stated in the manufacturer's specification.

Calibration Certificate of the multi-meter is given in Appendix C.

# **5.3** Monitoring Locations

In accordance with the EM&A Manual (revision 3), monitoring stations for contract 1 were established at two locations and summarized in Table 5.3.1.

**Table 5.3.1 – Water Quality Monitoring Stations** 

Monitoring Station	Location	Coordinates
H1	Between the Shuen Wan Marsh	E:839301
	and ECA	N:836386
H2	Route to Sam Kung Temple	E:839163
		N:836433

As illustrated in Figure 5.3.1, H2 served as the control station while H1 was the monitoring location of hydrological characteristics.

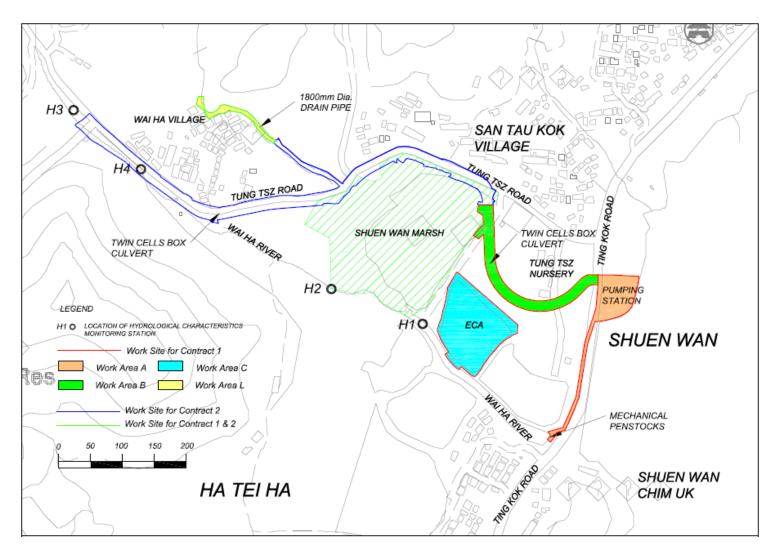


Figure 5.3.1 Hydrological Characteristics Monitoring Locations

# 5.4 Monitoring Frequency

Hydrological characteristics monitoring for each monitoring station were performed at mid-flood and mid-ebb tides for once per week during the course of the construction river works.

Monitoring was carried out on 7<sup>th</sup>, 13<sup>th</sup>, 20<sup>th</sup> and 27<sup>th</sup> of July 2012.

### 5.5 Monitoring Results and Interpretation

Hydrological characteristics monitoring was carried out five times in this reporting period. The monitoring results are summarized in Table 5.5. All results were within the action and limit levels, therefore, no exceedance was found.

Table 5.5 Summary of Water Quality Monitoring Results

	Average of Monitoring	Average of Monitoring Results		
	Water Depth (m)	Water Flow Rate (m <sup>3</sup> /s)		
H1(Floor)	~0.120*	0.200		
H1(Ebb)	~0.263*	0.175		
H2(Floor)	~0.140*	0.879		
H2(Ebb)	~0.140*	0.703		

<sup>\*:</sup> Since the water levels were too low for the depth detector to determine, tape measure was instead adopted for estimation.

Details of the monitoring data were presented in Appendix F.

#### 5.6 Action and limit level for Hydrological Characteristics

The Action and Limit levels for all monitoring stations are summarized in Table 5.6.1, which would be applied for compliance assessment of hydrological characteristics for this project. If the hydrological characteristics monitoring results at any impact stations exceeded the criteria, the actions in accordance with the Event and Action Plan in Table 5.6.2 should be taken.

Table 5.6.1 Action and Limit Levels for Hydrological Characteristics at All Monitoring Stations

Parameters	Action	Limit	
Water Depth at	0.08	0.06	
Mid-flood (m)	0.06	0.00	
Water Depth at	0.08	0.06	
Mid-ebb (m)	0.08		
Water Flow	120% of control station's	140% of control station's water	
Water Flow Rate (m <sup>3</sup> /s)	water flow rate on the same	flow rate on the same day of	
Kate (III /8)	day of measurement	measurement	

Table 5.6.2 Event and action Plan for Hydrological Characteristics

Event	ET	Leader	IEC	ER	Contractor
ACTION LE	VEI				
Action	1.	Repeat in-situ	1. Discuss	1. Discuss	1. Inform Engineer
level being		measurements to	mitigation	proposed	and confirm in
exceeded		confirm findings;	measures with	mitigation	writing
by one	2.	Identify reasons for	ET, Engineer	measures	notification of
sampling		non-compliance and	and Contractor;	with IEC, ET	the
day		source(s) of impact;	2. Review	and	non-compliance;
	3.	Inform IEC,	proposals on	Contractor;	2. Rectify
		Contractor and	mitigation	2. Make	unacceptable
		Engineer;	measures	agreement or	n practice;
	4.	Check monitoring	submitted by	mitigation	3. Check working
		data, Contractor's	Contractor and	measures to	methods and
		working methods	advise the	be	any excavation
		and any excavation	Engineer	implemented;	, works or
		works or dewatering	accordingly;	3. Assess	dewatering
		processes;	3. Assess	effectiveness	processes;
	5.	Discuss mitigation	effectiveness of	of	4. Consider
		measures with IEC,	implemented	implemented	changes in
		Engineer and	mitigation	mitigation	working
		Contractor;	measures.	measures.	methods and
	6.	Ensure mitigation			plans;
		measures are			5. Discuss with ET,

		implemented.				IEC and
	7.	Repeat measurement				Engineer and
		on next day of				propose
		exceedance.				mitigation
						measures to IEC
						and Engineer
						within three
						working days;
					6.	Implement
						agreed
						mitigation
						measures.
Action	1.	Repeat in-situ	1. Discuss	1. Discuss	1.	Inform Engineer
level being		measurements to	mitigation	proposed		and confirm in
exceeded		confirm findings;	measures with	mitigation		writing
by more	2.	Identify reasons for	ET, Engineer	measures		notification of
than two		non-compliance and	and Contractor;	with IEC, ET		the
consecutive		source(s) of impact;	2. Review	and		non-compliance;
sampling	3.	Inform IEC,	proposals on	Contractor;	2.	Rectify
days		Contractor and	mitigation	2. Make		unacceptable
		Engineer;	measures	agreement on		practice;
	4.	Check monitoring	submitted by	mitigation	3.	Check working
		data, Contractor's	Contractor and	measures to		methods and
		working methods	advise the	be		any excavation
		and any excavation	Engineer	implemented;		works or
		works or dewatering	accordingly;	3. Assess		dewatering
		processes;	3. Assess	effectiveness		processes;
	5.	Discuss mitigation	effectiveness of	of	4.	Consider
		measures with IEC,	implemented	implemented		changes in
		Engineer and	mitigation	mitigation		working
		Contractor;	measures.	measures.		methods and
	6.	Ensure mitigation				plans;
		measures are			5.	Discuss with ET,
		implemented.				IEC and
	7.	Prepare to increase				Engineer and
		the monitoring				propose
		frequency to daily;				mitigation

8. Repe	at measurement			measures to IEC
on	next day of			and Engineer
exee	dance.			within three
				working days;
				6. Implement
				agreed
				mitigation
				measures.
LIMIT LEVEL				
Limit level 1. Repe	at in-situ	1. Discuss	1. Discuss	1. Inform Engineer
being meas	urements to	mitigation	proposed	and confirm in
exceeded conf	rm findings;	measures with	mitigation	writing
by one 2. Ident	ify reasons for	ET, Engineer	measures	notification of the
sampling non-	compliance and	and Contractor;	with IEC, ET	non-compliance;
day sour	ce(s) of impact;	2. Review	and	2. Rectify
3. Infor	m AFCD, IEC,	proposals on	Contractor;	unacceptable
Con	ractor and	mitigation	2. Request	practice;
Engi	neer;	measures	Contractor to	3. Check working
4. Chec	k monitoring	submitted by	critically	methods and any
data	and	Contractor and	review the	excavation works
Con	ractor's	advise the	working	or dewatering
work	ing methods	Engineer	methods;	processes;
and	any excavation	accordingly;	3. Make	4. Consider changes
work	s or dewatering	3. Assess	agreement on	in working
proc	esses;	effectiveness of	mitigation	methods and
5. Disc	ıss mitigation	implemented	measures to	plans;
meas	ures with IEC,	mitigation	be	5. Discuss with ET,
Engi	neer and	measures.	implemented;	IEC and Engineer
Cont	ractor;		4. Assess	and propose
6. Ensu	re mitigation		effectiveness	mitigation
meas	ures are		of	measures to IEC
	emented;		implemented	and Engineer
7. Incre			mitigation	within three
mon	toring		measures.	working days;
_	ency to daily			6. Implement agreed
until	no exceedance			mitigation
of L	mit level.			measures.

Limit level 1.	Repeat in-situ	1. Discuss	1. Discuss	1. Inform Engineer
being	measurements to	mitigation	proposed	and confirm in
exceeded	confirm findings;	measures with		writing
by more 2.	Identify reasons for	ET, Engineer		notification of the
than two	non-compliance and	and Contractor;	with IEC, ET	Γ non-compliance;
consecutive	source(s) of impact;	2. Review	and	2. Rectify
sampling 3.	Inform AFCD, IEC,	proposals on	Contractor;	unacceptable
days	Contractor and	mitigation	2. Request	practice;
	Engineer;	measures	Contractor to	o 3. Check working
4.	Check monitoring	submitted by	critically	methods and any
	data, and	Contractor and	review the	e excavation works
	Contractor's working	advise the	working	or dewatering
	methods and any	Engineer	methods;	processes;
	excavation works or	accordingly;	3. Make	4. Consider changes
	dewatering processes;	3. Assess	agreement or	n in working
5.	Discuss mitigation	effectiveness of	mitigation	methods and
	measures with IEC,	implemented	measures to	plans;
	Engineer and	mitigation	be	5. Discuss with ET,
	Contractor;	measures.	implemented	; IEC and Engineer
6.	Ensure mitigation		4. Assess	and propose
	measures are		effectiveness	mitigation
	implemented.		of	measures to IEC
7.			implemented	and Engineer
	monitoring frequency		mitigation	within three
	to daily until no		measures;	working days;
	exceedance of Limit		5. Consider and	
	level for two		if necessary	
	consecutive days.		instruct	measures;
			Contractor to	1
			slow down of	,
			to stop all o	-
			part of the	*
			construction	construction
			activities	activities until no
			until no	
			exceedance	Limit level.
			of Limi	t

		Level	
		Deven.	

# 5.7 Monitoring Schedule for the next reporting period

Hydrological characteristics monitoring schedule is proposed to be carried out on  $3^{rd}$ ,  $10^{th}$ ,  $17^{th}$ ,  $24^{th}$  and 31st of August 2012.

## 6 Ecological Monitoring of ECA

#### 6.1 Introduction

The Ecological Monitoring of the Ecological Compensatory Area (ECA) of the Project is conducted to fulfill Clauses 5.2 and 5.4 of EP-303/2008 and the monitoring requirements in accordance with Section 6 of the approved updated EM&A Manual (approved by EPD on 7th November 2011) and the approved updated Habitat Creation Plan (HCP) (approved by EPD on 8th December 2011) of the Project.

This report documents monitoring findings on the site inspections in the ECA undertaken in July 2012.

## **6.2** Ecological Monitoring of ECA

## **6.2.1** Scope of Monitoring

A specific ecological monitoring programme and ecological monitoring requirements of the ECA are detailed in Section 7 of the approved Habitat Creation Plan (HCP) and Section 6.18 of the approved updated Environmental Monitoring & Audit (EM&A) Manual of the Project.

During the construction phase of the ECA, monthly monitoring of vegetation health (including the planted, retained and transplanted trees and shrubs, and the proposed planting) and weekly site inspections should be undertaken. Monthly monitoring of in situ water quality will be carried out once the ECA is filled with water from the nearby Wai Ha River.

During the 12-month establishment phase of the ECA, monitoring of habitat types, vegetation cover, intertidal fauna and other fauna (including avifauna, herpetofauna, fish, odonates and butterflies) will be undertaken on a six-monthly basis, while the vegetation health and in situ water quality will be monitored monthly. Site inspections will be conducted twice per month.

# 6.2.2 Monitoring Methodology during the construction phase

Monitoring of vegetation health

Monthly monitoring of the health condition of the retained and transplanted trees and vegetation will be conducted. Following planting of vegetation in the ECA, monitoring of the growth and health conditions of the planted vegetation in the created habitats (i.e. brackish marsh, mangrove, woodland areas of planted trees and shrubs, and wooded areas with retained and (trans)planted trees) within the ECA is to be conducted during the construction and establishment phases. General health and growth status of the retained trees within the ECA are recorded and recommendation of appropriate tree care will be made to the maintenance party.

All planted, retained and transplanted trees and shrubs will be surveyed to update their growth and health status. Any signs of pests and/ or poor

growth of planted, retained and transplanted trees and shrubs will be recorded. Appropriate treatment or removal of pests will be implemented if necessary. Supplemental planting will be arranged if needed.

A fixed transect line will be run through the wetland habitats (including intertidal mudflat, brackish marsh and mangrove) and the general growth and health of the planted vegetation along both sides of the transect will be inspected and evaluated. Any adverse plant health, such as dieback of planted species, will be noted and supplemental planting will be arranged. Any signs of pests which cause adverse health problems to the plants will be identified and recorded.

Monitoring of water quality

Since there will be free movement of brackish river water in and out of the ECA, water quality in the ECA will be largely dependent on water quality in the river. In this open system it is not appropriate to set specific targets for water quality parameters. Nevertheless, baseline data on water quality, in particular seasonal patterns, would potentially be useful long term management of the ECA. Once the ECA is filled with water during the construction phase of the ECA, in-situ water quality will be measured once per month during both Construction and Establishment Phases. Parameters, including temperature, pH, salinity, turbidity and dissolved oxygen, will be monitored. Additional measurements of these parameters should also be made by the ecologist in response to unexpected events (e.g. algal blooms or

fish die-offs) in order to inform remedial management measures.

Site inspection

Weekly site inspection will be carried out by the Wetland Specialist to update the status and monitor the progress of the construction of the ECA. Any adverse ecological impact resulting from the construction should be identified and remedial action should be undertaken.

# 6.2.3 Monitoring Methodology during the establishment phase

Monitoring of vegetation health

Same monitoring methodology as in Section 7.2.2.

Monitoring of water quality

Same monitoring methodology as in Section 7.2.2.

Site inspection

Site inspection during the establishment phase of the ECA will be conducted twice per month for monitoring the health and condition of the wetland during the establishment period. Any unsatisfied health and habitat criteria of the wetland will be identified and remedial action should be recommended

Twice monthly establishment phase monitoring has been commenced in November 2011.

Monitoring of habitat types and vegetation cover

Monitoring of habitat types and vegetation cover will be conducted twice during the 12 month Establishment Phase of the ECA; specifically at the end of the dry season and the end of the subsequent wet season after completion of the planting work. The monitoring aims to determine the exact extent of the wetland habitats and vegetation cover (i.e. open water, intertidal mudflat, brackish marsh and mangrove) during the establishment period and control any excessive colonization of unwanted vegetation specific habitats.

Monitoring of intertidal fauna

As the ECA largely comprises an intertidal mudflat, monitoring for intertidal fauna will be conducted. Recolonisation will take time: accordingly monitoring will be tentatively conducted in February 2012 and August 2012. As the important aim of monitoring of intertidal fauna in the ECA is to examine the diversity of the colonising community, a qualitative manner by walk-through survey (i.e. walk through the site with species and relative abundance recorded) will be conducted. Core sampling will also be conducted at different levels to record infauna. Three samples at each level (low, middle and high) will be collected during each monitoring event and

the monitoring will be conducted at low tide.

Monitoring of other fauna

Monitoring of other faunal groups, including birds, herpetofauna, fish, odonate and butterflies, will be conducted. Monitoring of any aquatic invertebrates will be covered by the intertidal surveys. Since the site will be intertidal, it is considered unsuitable for local amphibian species. Therefore, no nighttime survey for detection of mating calls of amphibians is necessary and only daytime surveys are needed. Monitoring of these faunal groups will be conducted on a walk-through survey basis. The surveyor will walk through the site, recording and counting the fauna observed. Microhabitats for herpetofauna will be actively searched. This monitoring will be conducted twice within the establishment period (once in the dry season (tentatively in February 2012) and once in the wet season (tentatively in August 2012).

Monitoring of wild mammals is not necessary in this case; however, if signs of wild mammals are observed (such as footprints) during any field surveys, these will be recorded.

## 6.2.4 Monitoring time and weather condition

Site inspection and monitoring of vegetation, fauna groups and water quality should be carried out during day-time with calm weather. Monitoring

of birds should commence within one hour of sunrise, when is the peak activity period for birds. Other fauna groups shall be undertaken during the warmer part of the monitoring day.

# **6.3** Monitoring Results

# 6.3.1 Description of vegetation monitoring in Ecological Compensatory Area

The vegetation health monitoring during the construction and establishment period required to be conducted on a monthly basis in the Ecological Compensatory Area (ECA). The growth and health of the recorded vegetation was inspected in 31 July 2012 and detail vegetation information was shown in (**Appendix L(A)**).

Monitoring of transplanted trees were carried out in 31 July 2012 and continued since the first transplantation (Appendix L(B)).

Three specimens of protected species *Pavetta hongkongensis* were transplanted to ECA. Weekly monitoring was carried out since transplantation on 20<sup>th</sup> December 2011.

All trees surveyed were evaluated according to the following criteria (Webb 1991)

 Trees of good form, moderate to large size and in good health are classified as good;

- Trees of reasonable form, with few or no visible defects or health problems are classified as being **fair**;
- Trees that are of poor form, badly damaged or clearly suffering from decay die back or the effects of very heavy vine growth are classified as **poor**.

# **6.3.2** Description of vegetations and remarks

Vegetation monitoring in the ECA was carried out on site and growth/health conditions were recorded.

A total of 23 plant species were retained or newly re-colonized within ECA in which 6 of them were retained plant species including Terminalia catappa, Cocculus orbiculatus, Mangifera indica, Dimocarpus longan, Michelia x alba and Macaranga tanarius. Some green algae, such as c.f. Ulothrix sp. and Enteromorpha sp.were re-colonized in the water body or attached to the substratum in the ECA. Those algae could attract algae feeding organisms and it also provide mirco-habitat for some marine or brackish water species especially juveniles. Detailed information of the recorded vegetation is given in (Appendix L(A)).

The general growth/health of the retained or newly re-colonized vegetations was in fair condition.

The trees transplanted from works area under Contract 1 and 2 to ECA,

including 13 Bombax ceiba, 2 Melaleuca quinquenervia and 1 Celtis sinensis, were in fair condition since the transplantation in June (Appendix L(B)). However, the trunk of Bombax ceiba (T152) were found to be broken after typhoon, moreover, Celtis sinensis (T250) were dead also, so that the removal & replacement of these trees are recommended.

A total of 370 trees were newly planted for amenity purpose within the ECA since September 2011. The 370 individual trees were randomly planted at different zones, except for zone F, as showed in **Figure 6.3.2.1**.

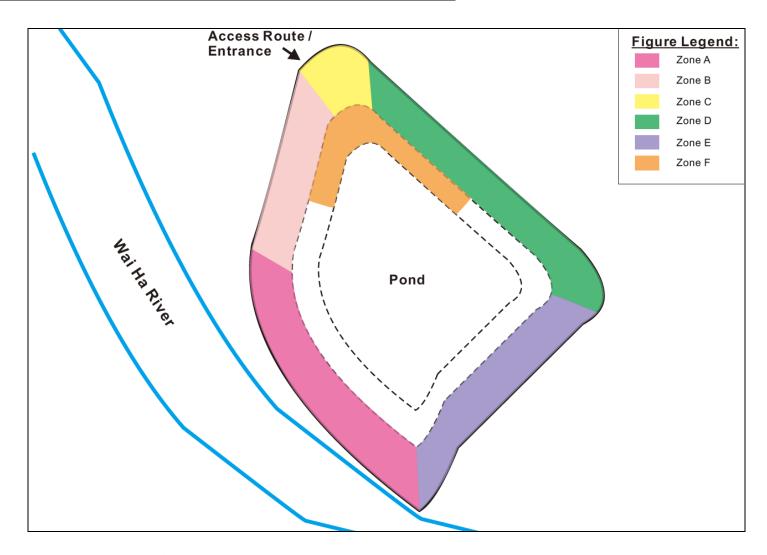


Figure 6.3.2.1 Landscape floor plan of ECA during establishment phase.

The newly planted trees included *Celtis sinensis* (95), *Hibiscus tiliaceus* (114),

Macarango tanarius (57), Ficus superb var japonica (28) and Viburnum

odoratissimum (76).

Newly planted trees in Zone A, B and C were in fair condition, except for Macaranga

tanarius (tag no 331, 337 & 340) & Ficus superb var. japonica (tag no.37) were in

poor condition in terms of dehydrated crown, continuous monitoring of the health

condition in growing season is suggested.

However, some trees in Zone D and E were in poor condition in terms of dehydrated

crown or sparse crown. These are:

Dehydrated crown with no foilage

- Celtis sinensis: tag no. 8, 13, 28, 131

Replacement of these trees is suggested if the condition of the trees can no longer be

improved.

Sparse Crown and yellow leaves

- Celtis sinensis: tag no. 208

- Hibiscus tiliaceus: tag no. 69, 244, 256, 268, 270, 272

Those planted tree poor condition were caused during trans-location or plantation.

It is expect most of them would be recovered and the health condition would be

improved in growing season.

Moreover, some trees in Zone D and E were dead or damaged, these trees is suggested

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to be removed & replaced. These are.

Trees suggested to be removed & replaced

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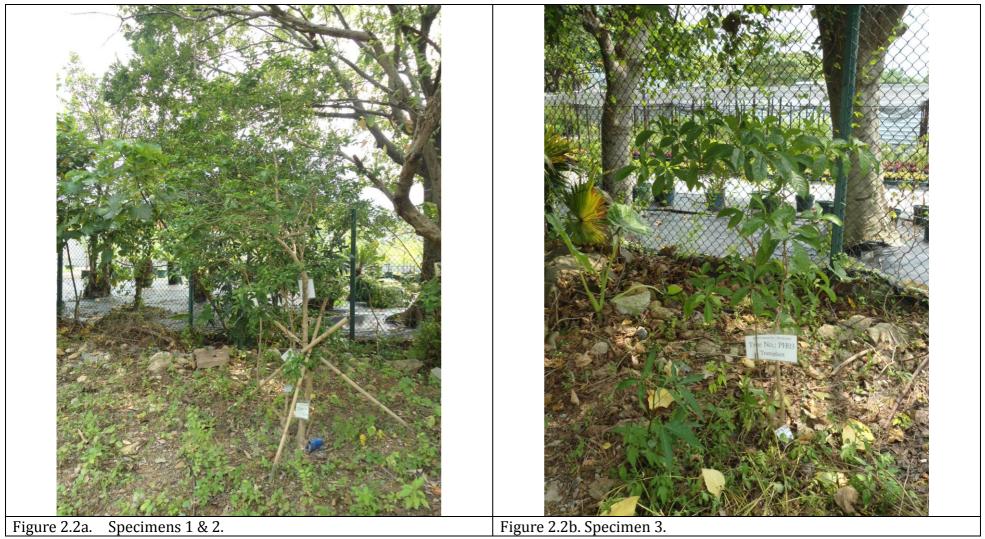
- *Celtis sinensis*: tag no. 17 ( trees found to be seriously leaning with root plate movement after typhoon )
- Celtis sinensis: tag no. 132 ( dead tree )
- *Macaranga tanarius:* tag no. 153 ( tree trunk broken after typhoon )
- *Viburnum odoratissimum:* tag no. 349 ( tree trunk broken after typhoon )

Mangrove seedlings were planted in Zone F, but most of them were in poor to fair condition. It is expected they may grow better in wet season

Three specimens of protected species *Pavetta hongkongensis* were transplanted from work area under Contract 2 to ECA at Zone D on  $20^{th}$  December 2011. Monthly monitoring was carried out and their overall conditions are fair so far (**Appendix L(C)**). Representative photographs of the transplanted *P. hongkongenesis* are showed on **Figure 6.3.2.2**.

A total of 66 trees, including 6 *Celtis Sinensis*, 4 *Ficus Superba Var. Japonica*, 52 *Hibiscus Tiliaceus*, 3 *Macaranga Tanarius* and 1 *Viburnum Odoratissimum*, were removed by contractor from ECA in June 2012, new trees has been transplanted to ECA for replacement in July 2012.

After the typhoon on 23 & 24 July, around 10% of trees were found leaning slightly, those trees were then be re-erected by contractors to resume it's tree forms.



**Figure 6.3.2.2.** Representative photographs of transplanted *Pavetta hongkongensis* in ECA since the first transplantation in May 2012.

Regular watering is recommended to improve the condition of the planted or transplanted plants during non-raining period. Relevant mitigation measures will be proposed when necessary.

There is no sign of pest outbreak or dieback took place in the current monitoring.

## **6.3.3 Summary**

In total, 23 species of trees, shrubs, climbers and herbs were retained or naturally colonized in the ECA during initial establishment period. Starting in August 2011, a total of 16 tree and three specimens of protected species *Pavetta hongkongensis* were transplanted to ECA. Most of them were in fair condition. In addition, 370 trees, including *Celtis sinensis, Hibiscus tiliaceus, Macaranga tanarius, Ficus superb var japonica* and *Viburnum odoratissimum*, were newly planted in ECA since September 2011 for amenity purpose. A total of 66 trees were removed in June 2012 and has been replace by new trees in July 2012. Although there is no sign of pest outbreak or dieback, regular watering and close monitoring are still be recommended.

#### 6.3.4 References

Webb, R (ed.) 1991, Tree Planting & Maintenance in Hong Kong, Hong Kong Government, Hong Kong

## 6.3.5 Monitoring of Water Quality

The point of linkage between the ECA and Wai Ha River at the southern pond bund of the wetland was completed on 30<sup>th</sup> August 2011. The constructed wetland habitats in the ECA have been filled with the tidal water from Wai Ha River. Monitoring of in situ water quality in the ECA was commenced in September 2011 by the IEC's ecologist. In addition, Ecological water quality monitoring at ECA was conducted on 18/7 with result: Turbidity: 7.24NTU; Temperature: 32.9°C; DO: 4.56mg/L; pH: 6.0.

## 6.3.6 Site Inspections

Twice monthly establishment phase monitoring has commenced in November 2011. Two site inspections were carried out on 10th and 26th July 2012. Table 1 summarizes the observations and recommendations for each site inspection.

Table 6-1. Observations and recommendations for each site inspection, May 2012.

Inspection Dates	Observation	Recommendations
10 <sup>th</sup> July 2012	The created wetland was generally in good condition ( <b>Photos 1 and 2</b> ). About 44 planted compensatory trees of <i>Hibiscus tiliaceus</i> with unsatisfactory structural forms had been recently replaced by the appointed landscape contractor, while a few trees of other planted compensatory trees with unfavorable growth performance were also replaced. Among these replaced trees, about 14 individuals of newly planted <i>Hibiscus tiliaceus</i> had fallen down or with unstable root plates. The Main Contractor was informed immediately for arranging the landscape contractor to stabilize the trees with bamboo scaffolds. The remaining compensatory trees were generally in fair to good condition, with a few individuals showing unfavorable growth performance. Compensatory tree (N114) was found with broken trunk and replacement of this tree is necessary.	The Contractor was reminded to replace the compensatory trees, mangrove seedlings and the selected wetland herbs showing poor growth performance as soon as possible. In particular, the replaced trees should be of structurally balanced form and they should not be planted too deep into the soil.  Manual weeding of unwanted herbs (Bidens alba and Mimosa pudica) and seedlings/saplings of weedy tree Leucaena leucocephala should be carried out soon.
	Regeneration of the planted wetland herbs <i>Cyperus malaccensis</i> and <i>Bacopa monnieri</i> were recorded and they have established to colonize wider intertidal area. Replacement planting for poor mangrove seedlings and selected wetland plant species had not yet been carried out by the landscape contractor. As informed by the Main Contractor, the vegetation will be replaced in the week of 16 <sup>th</sup> July 2012.	
26 <sup>th</sup> July	The three transplanted shrubs of conservation interest, <i>Pavetta hongkongensis</i> , show satisfactory growth performance ( <b>Photos 3 and 4</b> ). However, manual weeding of the remaining terrestrial areas in the whole ECA has not been carried out.  This is the site visit after the Typhoon Vicente	Any broken tree parts from the

2012

(Signal No. 8 to 10 hoisted on 23<sup>rd</sup> and 24<sup>th</sup> July 2012). The water level of the created pond was high due to the overflow from the nearby Wai Ha River (**Photo 5**). Parts of the terrestrial bunds and root flares of some of the compensatory trees were overflowed by the rain and pond water (**Photo 6**). One newly planted tree was found fallen down on the bund, while trunks of a few newly planted compensatory trees were found broken.

Majority of the existing trees was remained stable after the typhoon, but broken tree part was observed on a retained tree *Litsea monopetala* (C49). The transplanted trees were generally in good condition but broken tree parts were observed on a few individuals. The three transplanted shrubs of conservation interest, *Pavetta hongkongensis*, have remained in satisfactory condition after the typhoon.

As informed by the Main Contractor, the replacement planting of the selected mangrove seedling and wetland herbs was completed by the landscape contractor in the week of 16<sup>th</sup> July 2012. However, conditions of these newly planted mangrove and wetland herbs could not be evaluated as they were submerged under water by the time of site visit.

The requested weeding work along the terrestrial areas (mainly along the north and northeastern parts of the ECA) has not yet carried out by the appointed landscape contractor by the end of July 2012.

existing and compensatory trees should be removed. The Main Contractor should arrange the landscape contractor to replant the compensatory trees with unstable root balls after the typhoon and ensure that the trees were supported appropriately by the bamboo scaffold.

Manual weeding of unwanted herbs (*Bidens alba* and *Mimosa pudica*) and seedlings/saplings of weedy tree *Leucaena leucocephala* should be carried out soon.

**Photo 1.** General view of the wetland as inspected on 10<sup>th</sup> July 2012.



**Photo 2.** General view of the wetland as inspected on 10<sup>th</sup> July 2012.



**Photo 3.** The transplanted shrubs of *Pavetta hongkongensis*, PH-01 and PH-02, have showed satisfactory growth condition.

**Photo 4.** The transplanted shrub of *Pavetta hongkongensis*, PH-03, has showed satisfactory growth condition. The metal can found next to the shrub should be removed.





**Photo 5.** The pond area was overflowed by the rain and adjacent Wai Ha River as inspected on 26<sup>th</sup> July 2012.



**Photo 6.** Some of the planted compensatory trees were overflowed by the pond water.



# **6.4** Management Activities

## **6.4.1** Ecological Issues/ Management Activities

No significant ecological issues were identified from the site inspection by the Wetland Specialist from the site inspections in July 2012.

The ECA has been maintained in basically good condition. The planted compensatory trees and shrubs have showed fair health condition. The requested replacement planting of selected compensatory trees, mangrove seedlings and wetland herbs which are of unsatisfactory growth performance were carried out by the appointed landscape contractor by mid-August 2012. However, a few of these newly planted compensatory trees were found with unstable root balls or broken tree parts after Typhoon Vicente hoisted on 23rd and 24th August 2012. As abovementioned, the Main Contractor was informed immediately for replanting the fallen trees or trees with unstable root plates. A joint site visit with the Main Contractor, landscape contractor and the Wetland Specialist is scheduled in early August 2012 to update the latest growth and structural conditions of these trees and wetland vegetation in the ECA.

The Contractor is advised to weed the unwanted herbs (especially herbs Bidens alba, Mimosa pudica, climber Mikania micrantha, and seedlings of weedy tree Leucaena leucocephala) along the northern to northeastern boundaries of the ECA soon. Manual

removal of the roots of these unwanted plant species is preferred.

# 6.5 Implication of the Survey Findings

## 6.5.1 Implication to the Wetland design of the ECA

No implication to the wetland design from these two site inspections in July 2012.

#### 6.6 Recommendations

The Contractor should undertake regular monitoring, and maintain frequent and adequate watering of all planted, replaced and transplanted terrestrial trees (including the newly planted compensatory trees for the replacement) and shrubs (including the shrubs of conservation interest Pavetta hongkongensis) throughout the establishment period of the ECA. The unwanted plant species should be removed to prevent their colonization in the ECA. Any broken tree parts from the existing and compensatory trees should be removed. The Main Contractor should arrange the landscape contractor to replant the compensatory trees with unstable root balls after the typhoon and ensure that the trees were supported appropriately by the bamboo scaffold.

## 7 Landscape and Visual

#### 7.1 Introduction

The Landscape and Visual Monitoring of the Project is conducted to fulfill Clauses 5.2 and 5.4 of EP-303/2008 and the monitoring requirements in accordance with Section 7 of the approved updated EM&A Manual (approved by EPD on 7<sup>th</sup> November 2011) of the Project. A Baseline Review on updating the landscape and visual condition, and the mitigation measures of the Project (including Contracts 1 and 2 of the Project) was undertaken before the commencement of the Project. The review findings were updated in the Baseline Environmental Monitoring Report submitted to the EPD on 14<sup>th</sup> February 2011.

This monthly monitoring report will detail the scope of landscape and visual monitoring work, monitoring findings and observations, and any recommendations and advice on proper implementation of the landscape mitigation measures in the works areas under Contract 1 of the Project.

## 7.2 Scope of Monitoring

## 7.2.1 Monitoring Objectives

Landscape and Visual Monitoring of the Project should be conducted in a bi-weekly basis for checking the design, implementation and maintenance of the landscape and visual mitigation measures throughout the construction phase and in a quarterly basis during operational phase of the Project. Observations of any potential conflicts between the proposed mitigation measures and the project works carried out by the Contractors should be recorded. Recommendation and advice on proper implementation of the landscape mitigation measures should be provided to the Contractor for minimizing any potential impacts on the landscape and visual elements.

## 7.2.2 Monitoring during Construction Phase

The following landscape and visual mitigation measure should be implemented during the construction phase of the project to minimize the potential impacts:

- Visual Screen Use of hoardings as visual screens for the construction in the works areas;
- Contaminant/ Sediment Control Use of temporary barriers, covers and drainage provision around the construction works as contaminant/ sediment control to prevent the contaminants and sediments from entering the sensitive water-based habitats:
- Pollution Control Implementation of pollution control measures to minimize any adverse environmental impacts to the surrounding habitats;
- Liaison with Nursery Liaison with the nursery operator as necessary to minimize any adverse impact to the daily operation and plant holding capacity of the nursery;
- Existing Trees within Works Area Maintenance and protection of the existing trees, especially their crowns, trunks and roots, within work sites; and
- Construction Light Provision of construction light should be controlled at night to avoid excessive glare to the surrounding villages and to Plover Cove.

## 7.2.3 Monitoring during Operational Phase

The following landscape and visual mitigation measure should be implemented during the operational phase of the project to minimize the potential impacts:

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

## 7.3 Landscape and Visual Monitoring Results

# **7.3.1** Monitoring Date(s)

This monthly Landscape and Visual Monitoring (July 2012) was conducted to cover only Areas A, B and C of Contract 1 of the Project. The bi-weekly monitoring was conducted on 10<sup>th</sup> and 26<sup>th</sup> July 2012.

All photos stated in this section are recorded in Appendix G.

The bi-weekly monitoring for Contract 2 was also undertaken on 10<sup>th</sup> and 26<sup>th</sup> July 2012. The monitoring findings and recommendation will be submitted in a separate Monthly EM&A Report under Contract DC/2010/02.

#### 7.3.2 Visual Screen

No follow-up action by the Contractor is required as from the *Monthly EM&A Report for June 2012*.

## Observation

Construction hoardings have been erected in Area A along the entire site boundary. Temporary construction hoardings have been erected around Wai Ha River estuary since the commenced work for building an automatic mechanical penstock at the area (**Photo** 1).

A section of temporary hoarding has been erected from northwest to southwest parts (i.e. Phase I construction works) of Tung Tsz Nursery in Area B (approximately along the works boundary from Trees U42 to U62) (**Photo 2**). Another section of temporary hoarding has been erected from southwest to eastern parts of the Nursery (**Photo 3**) since May 2012 and connected with the Phase I construction works area. An open section with no construction work has been maintained as a major road access inside Tung Tsz Nursery for their daily operations.

After the severe Typhoon 'Vicente' (Signal No. 8 to 10 hoisted on 23<sup>rd</sup> and 24<sup>th</sup> July 2012), a number of section of the erected site hoarding was found collapsed in Area B (**Photo 4**)

A line of chain link fence has been maintained around the boundary of Area C since the onset of its establishment period.

#### Recommendation

The collapsed site hoarding for the works area in Area B should be reinstated as soon as possible to prevent affecting the daily operations of the Nursery.

#### 7.3.3 Contaminant/ Sediment Control

No follow-up action by the Contractor is required as from the *Monthly EM&A Report for June 2012*.

## **Observation**

Area A

Provision of dust control measure (such as vehicle wheel washing facilities) was observed at the exit point of Area A.

Used water for washing vehicle wheel and groundwater from the excavated sites were pumped into the silt/sand removal facilities for filtration before discharging into the manhole adjacent to Area A. No unauthorized discharge of contaminated water/ sewerage was observed during the monitoring.

Area B

Used water and groundwater from the built box culvert were collected and drained directly to the sedimentation tank placed adjacent to the fenced Area C. The water was further filtered through the silt/sand removal facilities in the tank before discharging into the manhole adjacent to Area C..

#### Area C

The establishment phase of the Ecological Compensatory Area (ECA) has commenced and the pond of the ECA is connected with the Wai Ha River directly. No water resulting from normal wetland maintenance practice was pumped out from the ECA. Due to the recent heavy rainfall during and after the Typhoon 'Vicente', muddy water caused by the soil runoff from the upper stream of Wai Ha River was found drained in the created pond of the ECA. However, this does not cause signification deterioration of the pond water quality.

## Recommendation

No specific recommendation is required.

#### 7.3.4 Pollution Control

All used water for washing vehicle wheel and construction works was filtered and drained to the manholes, as following the recommendation stated in *Monthly EM&A Report for June 2012*.

## **Observation**

#### Area A

Provision of vehicle wheel washing facilities was observed at the exit point of Area A to reduce the contamination to the surrounding habitats in Plover Cove. Used water for washing vehicle wheel and groundwater from the excavated sites were pumped into the silt/sand removal facilities for filtration before discharging into the manhole adjacent to Area A. The drainage pipes were maintained appropriately to discharge the used water to the manhole at Ting Kok Road. No direct discharge of polluted water into the adjacent Wai Ha River was observed from the works area for building the automatic mechanical penstock at Wai Ha River estuary.

Area B

As observed during the monitoring on 26<sup>th</sup> July 2012, no more used water resulting from

vehicle washing and site cleaning from Area B were found released across the access road located to the northwest of Area B.

All used water was collected and drained directly to the sedimentation tank placed adjacent to the fenced Area C. This water was further filtered through the silt/sand removal facilities in the tank before discharging into the manhole adjacent to Area C

Area C

The pond of the ECA was observed to be connected to Wai Ha River directly as following the scheme design of Habitat Compensatory Plan. No direct discharge of turbid water into the adjacent Wai Ha River was observed. However, as shown in **Photo 5**, muddy water caused by the soil runoff from the upper stream of Wai Ha River was observed. This was due to the massive rainfall during the typhoon.

## Recommendation

No specific recommendation is required for Areas A, B and C. As a reminder, the Contractor should regularly check the condition of the drainage pipe and ensure that the used water should be appropriately filtered and discharged to the manhole/other discharge point agreed by the Engineer and EPD. This is to avoid any potential contamination to the vegetation in Shuen Wan marsh and other vegetated/marinated areas adjacent to the active works area.

## 7.3.5 Liaison with Nursery

Active construction works within Tung Tsz Nursery has been extended to the east of the nursery in connection with Ting Kok Road since May 2012.

The health condition of the *Grevillea robusta* (U58) has been closely monitored on a bi-weekly basis and regular watering of the retained trees and transplanted trees was anticipated. New leaves were observed on its branches and along the trunk.

The works practice and maintenance of trees within the nursery generally follow the

recommendation as stated in *Monthly EM&A Report for June 2012*. Any observed issues related to the liaison with the nursery are highlighted in this section.

#### Observation

As abovementioned in Section "Visual Screen", the temporary hoarding has been erected from northwest to southwest parts of Tung Tsz Nursery in Area B since April 2011. The major construction work within Area B has been extended to the east of the nursery in connection with Ting Kok Road with the establishment of temporary hoarding. The major road access within the Nursery has been maintained to minimize the impact on the nursery's daily operation resulting from the construction works.

Regular monitoring for the transplanted tree U58 *Grevillea robusta* was conducted bi-weekly. After the severe Typhoon 'Vicente' (Signal No. 8 to 10 hoisted on 23<sup>rd</sup> and 24<sup>th</sup> July 2012), a scaffold branch of the tree was found broken. New leaves were still observed on the tree branches but with smaller sizes. Poor physiological performance was still found. Health condition of this transplanted tree has remained fairly poor in July 2012 (**Photo 6**) and close monitoring has to be continued to update its health and structural condition.

After the severe Typhoon 'Vicente' (Signal No. 8 to 10 hoisted on 23<sup>rd</sup> and 24<sup>th</sup> July 2012), the retained tree U50 (*Ficus elastica*) was found having a large broken branch hanging on the scaffold (**Photo 7**). The relocated tree U55 (*Pterocarpus indicus*) was found fallen on the ground with its planter (**Photo 8**). A tree to be retained U68 was found fallen and with its trunk leaning against the hoarding (**Photo 9**). As mentioned in Section "Visual Screen", many site hoarding was found collapsed in Area B after the severe typhoon.

Waterlogged areas were observed in the active works area within the Nursery. Small quantity of muddy water was found leaking out through the temporary hoarding. There would be a potential to affect the nursery's daily operation

## **Recommendation**

The works area and the construction works should be properly managed and implemented

without influencing the daily operation of the nursery (i.e. provide enough access road and works area for the nursery operation).

All transplanted trees should be watered regularly (e.g. at least every two days) by the appointed landscape contractor. Meanwhile, the Contractor should prevent forming waterlogged areas or leakage of used water from the active construction works area into the Nursery. This is to prevent causing any nuisance to the nursery's daily operation.

Regular monitoring and watering of *Grevillea robusta* (U58) are still recommended to be the major treatment to the tree. The appointed landscape contractor and the Contractor should closely monitor the health conditions throughout the establishment period, especially any further deterioration of the wounds at the broken tree part after the typhoon.

The overhanging branch of U50 should be removed to prevent potential hazard to the workers in the Nursery or in the works area. The fallen tree should be restored to its proper positions with a stable planter by the Nursery Operator or other relevant parties as soon as possible.

# **7.3.6** Existing Trees within Works Areas

Tree Protection Zones (TPZs) in Areas A and B were demarcated within the construction sites as following the recommendation stated in the *Monthly EM&A Report for June 2012*, no piling of construction materials within or close to the TPZs were observed in Area A (see details in the following section). The shading net tied on the trunk of U57 in Area B has still remained since the tree transplantation in May 2011.

Regular watering of the retained trees, transplanted trees and the compensatory planting was anticipated. Maintenance of the existing trees within the works areas generally follows the recommendation as stated in *Monthly EM&A Report for June 2012*, except the observations as highlighted in the following sections.

#### Observation

#### Area A

TPZs with temporary storage of construction materials were not observed for trees to be transplanted (E16 to E20) at the southwestern part of Area A (**Photos 10-11**) during the monitoring on 26<sup>th</sup> July 2012.

The tree health of the three relocated *Melaleuca cajuputi* subsp. *cumingiana* (E22, E33 and E34) on the eastern side of Area A next to the site hoarding was regularly monitored. No new leaves or buds were observed on these relocated trees. Health condition of these trees has remained very poor as a result of the transplantation shock and poor transplantation skill in planting them too deep in the soil.

As observed on 26<sup>th</sup> July, 2012, the tree to be transplanted E16 (*Bombax ceiba*) was relocated to the southern side of Area A next to the site hoarding. A TPZ was set up at the base.

No other significant damages on the crowns, trunks and roots of the remaining trees were observed during the monitoring in July 2012 in Area A.

## Area B

Trees, including retained and transplanted specimens, within the nursery were maintained generally in fair condition, with no significant damages on tree crowns, trunks and roots observed during the monitoring in July 2012. Small watersprouts and new leaves were observed on the trunk and branches of the transplanted tree U58 (*Grevillea robusta*) but its physiological condition has still remained fairly poor after the transplant. One of its scaffold branches was found broken after the severe typhoon in July 2012.

The health conditions of U34 (**Photo 12**), U35 (**Photo 13**) and U37 (**Photo 14**) were found to be very poor, with no leaves in the canopies and dried, loose tree bark.

With the extended construction area within the Nursery, it was unable to inspect the latest

tree condition of some relocated trees due to the ongoing construction of the box culvert in July 2012. These inaccessible trees were A42, U74, U72, U70, U69, A43, U62 and an untagged *Terminalia catappa* (**Photos 15-16**). Their health could be assessed only by their overall canopies' and upper trunks' conditions.

The areas around the trunk bases of U76, U77, U78 and U79 were waterlogged. This would potentially damage the roots of those relocated trees (**Photos 17-20**).

All of the translocated trees were not guyed and only a few of these trees were protected within orange construction nets established as temporary TPZs.

Broken planters for 3 trees (U54 and two existing trees with no tag next to U54) were observed at their temporary receptor sites within the active works area to the northwest of the nursery. All of them have been surrounded by the orange construction nets to prevent further damage to the remained planters during the monitoring on 26<sup>th</sup> July 2012.

No significant damages on the crowns, trunks and roots of the remaining trees were observed during the monitoring in July 2012 in Area B.

#### Area C

The existing trees were maintained generally in fair health condition, except that a very few planted compensatory trees showing poor health conditions. No branch pruning and tree felling were observed in the monitoring. No significant damages on the crowns, trunks and roots on trees within Area C were observed during the monitoring in July 2012.

Some planted compensatory trees with poor tree form or growth performance were replaced with new compensatory trees by the landscape contractor by mid-July 2012. However, some compensatory trees were found fallen or with broken tree parts after the typhoon.

No leaves were observed on the transplanted tree T152 and its trunk was found broken during the monitoring on 26<sup>th</sup> July 2012. New leaves were observed on the transplanted trees T153 (**Photo 21**). No foliage was observed on T250. The untagged transplanted tree (*Bombax ceiba*) (possibly T149) was relocated within Area C and new leaves were found

on it (Photo 22).

A tree to be retained C49 (*Litsea monopetala*) was found broken at its trunk after the typhoon (**Photo 23**).

The three transplanted specimens (Tree No.: PH01, PH02 and PH03) of the protected shrub species of conservation interest *Pavetta hongkongensis* have remained in fair health condition (**Photos 24-25**). Newly regenerated leaves were observed on these three specimens

## Recommendations

#### Area A

Maintenance of proper TPZs with no temporarily stored construction materials, excessive stockpiled soil and waterlogged condition around the tree trunk flares have been the major tree management issues in Areas A and B. The Contractor should continue notifying the on-site workers not to stockpile soil/construction materials or place construction equipment within and close to the TPZs or lower trunk/trunk flare. Any temporarily stored construction materials/ equipment and excessive water around the trunk flares should be removed or drained immediately. These are particularly important for the relocated trees (E16, E22, and suspected E33 and E34 in Area A) as they perform poor in health due to the result of the transplantation shock. Operators of the construction machines should be aware of the presence of these relocated and retained trees nearby their works.

All retained trees or trees to be transplanted should be watered regularly (e.g. at least every two days) by the landscape contractor. The Contractor should conduct regular inspection on the health condition and protection measures of each existing trees within the Area A. In particular, regular watering should be applied on the four recently relocated trees (i.e. E16, E22 and suspected E33 and E34) with regard to their poor health condition.

Area B

All transplanted trees should be watered regularly (e.g. at least every two days) by the

landscape contractor. This is a necessary maintenance practice to improve the survival rates and growth for trees showing poor health conditions as a result of the transplantation shock. Regular check of the tree health should be conducted. Proper protective measures such as guying and TPZs are recommended especially for the newly transplanted trees. Waterlogged areas should be avoided and excessive water around the tree trunk flares should be drained immediately.

Regular inspection on the tree health of U58, U34, U35 and U37 should be undertaken to update their health conditions and any tree defects. If these trees are found to be dead specimens for a prolonged period in the wet season, the Contractor should replace these specimens for compensation.

Any broken tree parts from the existing, transplanted or compensatory trees should be removed.

The Contractor has to repair the planters or establish proper TPZs for the tree U54 and the two untagged trees adjacent to U54 as soon as possible. In addition, the Contractor should ensure that all planters have been properly maintained. Manual weeding of overgrowth vegetation within the tree planters is recommended.

The Contractor is recommended to re-tag the translocated trees and regularly check the condition of the tags. All tree tags on the trees should be managed properly by the Contractor throughout the construction and establishment phases. A good tree tag system is important for the Contractor, subcontractor and the auditor to undertake routine maintenance, monitoring and rapid remedial actions (if any)

The shading net tided on the trunk of U57 in Area B should be removed as soon as possible. The Contractor should have regular site check on the conditions of the trees and tree tags within the Project Area.

Area C

All transplanted trees, planted compensatory trees and the three transplanted individuals of *Pavetta hongkongensis* should be watered regularly (e.g. at least every two days) by the

appointed landscape contractor. Regular check of the health conditions of these trees should be conducted. If any of these trees are found to be dead specimens for a prolonged period in the wet season, the Contractor should replace these specimens for compensation. Any broken tree parts from the existing and compensatory trees should be removed. The Contractor should arrange the landscape contractor to replant the compensatory trees which have unstable root balls after the typhoon and ensure that the trees were supported appropriately by the bamboo scaffold.

# 7.3.7 Construction Lights

No follow-up action on maintenance of construction light is required as from the *Monthly EM&A Report for June 2012*.

## **Observation**

No construction light impact to the surrounding villages and to Plover Cove as all construction activities and construction sites are halted at 1800. No construction light at night is provided by the Contractor.

#### Recommendation

No specific recommendation is required.

#### 7.4 Audit Schedule

The next bi-weekly Landscape & Visual Monitoring in August 2012 is scheduled to be conducted in the weeks of 6<sup>th</sup> and 20<sup>th</sup> August 2012.

#### 8 Action taken in Event of Exceedance

If the measurements (Noise, Water, Hydrological Characteristics, and Ecology) exceed the action / limit level, exceedance details will be reported and follow-up actions will be taken by relevant parties involved.

During the reporting month there was no exceedance for noise, hydrological characteristics, and ecological measurements recorded; therefore, no actions were taken.

For water quality monitoring, total 13 abnormal incidents of water quality limits (Dissolved Oxygen, Suspended solids and Turbidity) were recorded in this reporting month according to the established level. ET has arranged site investigations for the abnormal incidents and it was observed that the river was narrowed for construction of mechanical penstocks; and increases the speed of water current. No construction activities were carried out at the river bed during the reporting period. Proper mitigation measures were implemented by contractor to avoid site water release to the Wai Ha river and no particular observation of defective site activities were found causing water contamination; The exceedance of Turbidity and Total Suspended Solid were believed to be mainly attributed by high water flow rate and adverse weather. The exceedances of DO were believed to be mainly attributed by natural fluctuation, since the recorded levels of DO at control station had also exceeded its baseline limit level, the exceedances recorded at W2 were unlikely to be related to the Project.

The water condition of Wai Ha River is presented in photo attached in **Appendix N**.

## 9 Construction waste disposal

It is the contractor's responsibility to ensure that all wastes produced during the construction phase for the drainage improvement works are handled, stored and disposed of in accordance with good waste management practices and EPD's regulation and requirement. Waste materials generated during construction activities, such as construction and demolition (C&D) material, chemical wastes and general refuse, are recommended to be audited at regular intervals to ensure that proper storage, transportation and disposal practices are being implemented.

Table 9.1 is a summary of figures of the construction wastes disposal provided by Contractor.

Table 9.1 Summary of Construction Waste Disposal

	Actual Quantities of Inert C & D Materials Generated Monthly				Actual Quantities of C & D Wastes Generated 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	Metais	Paper/cardboar d packaging	Plastics (see note3)	Chemical Waste	Others, e.g. general refuse
	(in'000m3)	(in'000m3)	(in'000m3)	(in'000m3)	( in'000m3	(in'000m3	(in'000kg	(in'000kg)	(in'000kg	(in'000kg)	(in'000kg)
Year2011		0.00	9.703	0.665	0.750	0.556	0.00	0.00	0.00	0.00	0.165
Jan-12	0.010	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.005
Feb-12	0.130	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mar-12	0.125	0.00	0.125	0.00	0.00	0.00	2.37	0.00	0.00	0.00	0.01
Apr-12	0.265	0.00	0.26	0.00	0.005	0.00	0.00	0.00	0.00	0.00	0.01
May-12	0.705	0.00	0.705	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
June-12	1.395	0.00	1.395	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
July-12	3.310	0.00	2.93	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.02
Total	18.393	0.00	16.082	1.045	0.71	0.556	2.37	0.00	0.00	0.00	0.25
Total	10.373		•						0.00	0.00	0.23
Forecast of Total Quantities of C & D Materials to be Generated from the Contract											
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metais	Paper/cardboar d packaging	Plastics (see note3)		Others, e.g. general refuse
	(in'000m3)	(in'000m3)	(in'000m3)	(in'000m3)	`)	( in'000m3	`)	(in'000kg)	(in'000kg	(in'000kg)	(in'000kg)
	37.37	8.27	12.09	0.00	25.28	2.1	10	2	0.5	1	1

Notes (1) The Performance targets are given in PS Clause 26.23 (14)

- (2) The waste flow table shall also include C & D materials that are specified in the Contract to be imported for used at the sites
- (3) Plastics refer to plastics bottles/containers, plastic sheets/foam from packaging materials.
- (4) The summary table shall be submitted to the Engineer's Representative monthly together with the Waste Flow Table for review and monitoring in accordance with the PS Clause 25.20A(4)

# 10 Status of Permits and Licenses obtained

Table 10.1 is the updated status of environmental related permits/ license obtained for the construction activities

Table 10.1 Status of Permits and Licenses Obtained

Description	License / Permit No.#	Date of Issue	Site	Date of expiry	Status
Environmental Permit	EP-303/2008	2008/2/25	Area A, B & C	not applicable	Valid
Discharge Licence	WT00006448-2010	2010/6/15	Area A, B & C	30/6/2015	Valid
Registration as a Chemical Waste Producer	316597	2010/4/26	Area A, B & C	not applicable	Valid
Waste Disposal	7010348	2010/3/2	Area A, B & C	not applicable	Valid

## 11 Compliant Log

There was no formal complaint received during the reporting period. Therefore, follow up actions for the environmental complaint is not required.

Table 11.1 Summary of Formal Complaints received

	Noise	Water	Ecology	Others
Year 2011	0	0	0	0
January 2012	0	0	0	0
February 2012	0	0	0	0
March 2012	0	0	0	0
April 2012	0	0	0	0
May 2012	0	0	0	0
June 2012	0	0	0	0
July 2012	0	0	0	0
Total	0	0	0	0

#### 12 Site Environmental Audits

## 12.1 Site Inspection

Site inspections were undertaken weekly to inspect the construction activities in active site areas to ensure that appropriate environmental protection and pollution control mitigation measures are properly implemented.

Within this reporting period, site inspections were conducted on 5<sup>rd</sup>, 12<sup>th</sup>, 19<sup>th</sup> and 25<sup>th</sup> of July 2012. A detailed checklist of each site inspection together with comments and relevant photos have been filed and kept. The findings from inspection were summarized in Table 12.1.

Table 12.1 Summary results of site inspections findings

Date	Findings	Identification	Advice from ET	Action taken	Closing date	Remarks
22 & 28 Jun 12 5, 12,19 & 25 Jul 12	Damaged tree protection fence was observed at Area B	Observation	Contractor was reminded to repair or replace the damaged tree protection fence	Outstanding		
	Open stockpile was observed at Area B	Observation	Contractor was reminded that stockpile should be covered with tarpaulin to prevent surface run off and soil erosion.	Outstanding		
	Tree protection zone was not set up at Area A.	Observation	Contractor was reminded that tree protective fencings should be provided after the completion of sheetpiles erection at Area A.	Tree protection zone was set up by contractor.	25 July 12	

Date	Findings	Identification	Advice from ET	Action taken	Closing date	Remarks
19 & 25 Jul 12	Chemical materials without drip tray were observed at area A.	Observation	Contractor was reminded that chemical materials should be placed inside the drip tray to prevent chemical leakage.	Outstanding		

## 12.2 Compliance with legal and Contractual requirement

There was no non-compliance recorded for the month of July 2012.

## 12.3 Implementation status and effectiveness of the mitigation measures

Contractor has implemented mitigation measures to address those problems as advised by ER and ET. Some of the measures taken by the contractor were considered as effective to minimize negative impact to the environment. Ongoing investigation will be carried out to observe performance and effectiveness of those measures. Outstanding environmental items will be inspected in next month.

As there were some ongoing follow up practices, contractor was reminded to regularly review and rectify the discrepancy once found and maintain good site condition. The contractor implemented various environmental mitigation measures as recommended in the Environmental Permit and Final Mitigation Measures Report.

The recommend mitigation measures of EM&A manual (revision 3) are presented in Appendix H (A).

The implemented statues of mitigation measures are presented in Appendix H (B)

### 13 Future Key issues and recommendations

According to the forecasted site activities, key environmental issued to be considered should at least include:

- Site water control and relevant protective measures.
- Quality of effluent discharge from Area A.
- Control and disposal for construction wastes generated from works.

Tree protective measure for tree planting and transplanting, such as tree protection zone and regular watering.

#### 14 Conclusions

Pumping station construction, Concreting works for box culvert and pumping station and plant maintenance were major site activities being carried out within this reporting period.

Regular site meetings and inspection audits led by the seniors for discussing site environmental matters were held among Project Proponent, Contractor and the ET on weekly basis. Also monthly site meeting and inspection audits with the above parties and IEC were carried out on 25<sup>th</sup> of July 2012.

For noise level monitoring, all results were within the established A/L limits.

For water quality monitoring, total 13 abnormal accidents of water quality limits (Dissolved Oxygen, Suspended solids and Turbidity) were recorded in this reporting month according to the established level. ET has arranged site investigations for the abnormal incidents and it was observed that the river was redirected and narrowed for construction of mechanical penstocks; and increases the speed of water current. No construction activities were carried out at the river bed during the reporting period. Proper mitigation measures was implemented by contractor to avoid site water release to the Wai Ha river and No particular observation of defective site activities were found causing water contamination; The exceedance of Turbidity and Total Suspended Solid were believed to be mainly attributed by high water flow rate and adverse weather. The exceedance of DO were believed to be mainly attributed by natural fluctuation, since the recorded levels of DO at control station had also exceeded its baseline limit level, the exceedances recorded at were unlikely to be related to the Project.

For ecological monitoring survey, all vegetations recorded were in fair condition, with no significance sign of health deterioration for the retained trees. In addition, Ecological water quality monitoring at ECA was conducted on 30/5 with result: Turbidity: 7.245NTU; Temperature:  $32.9\,^{\circ}\text{C}$ ; DO: 4.56mg/L and pH: 6.0.

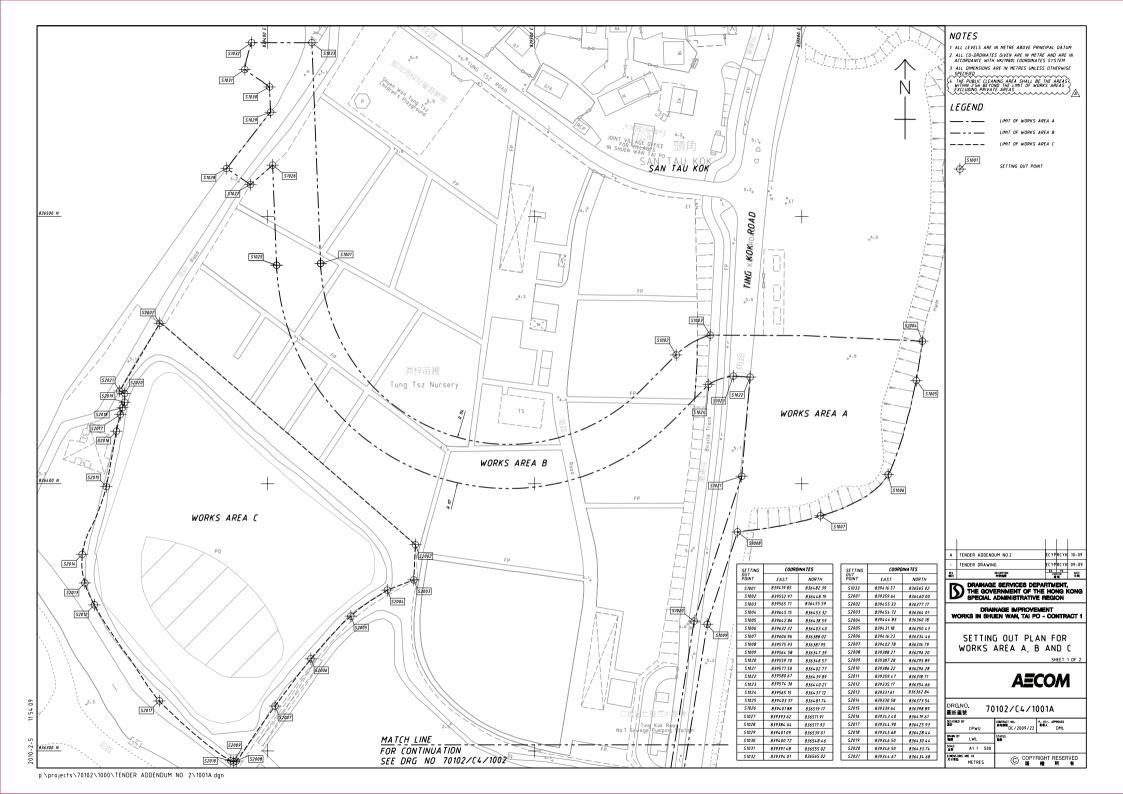
Also, there were not any notifications of summons recorded during the reporting period. Furthermore, there were not any formal prosecution and

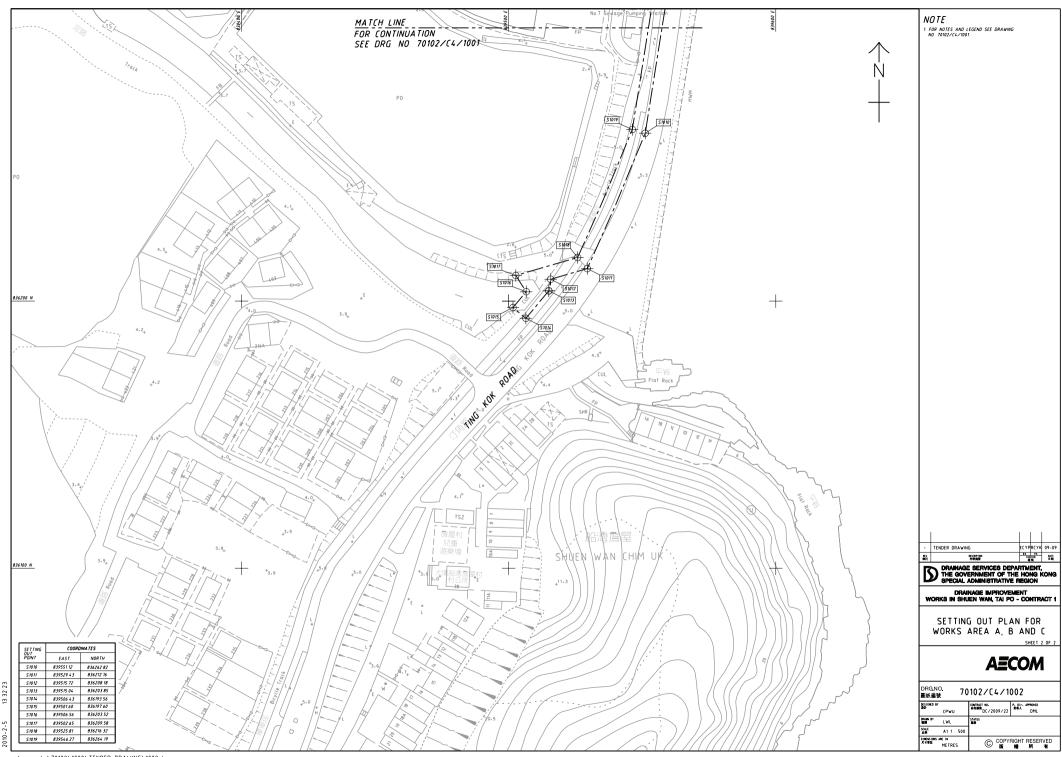
complaints recorded.

ET has reminded the contractor to provide environmental pollution control measures wherever necessary, and to keep a good environmental management at site practice.

The ET will continue to implement the environmental monitoring & audit programme in accordance with the EM&A Manual (revision 3) and Environmental Permit requirement.

**Appendix A: Site Location** 







Post	Name	Contact No.	Contact Fax	e-mail
Project Manager	Mr. W. K. Chan	6821 1136	2674 6688	dc200922jv_pmcwk @yahoo.com.hk
Site Agent	Mr. C. L. Wong	9280 0166	2674 6688	dc200922jv_sa@yaho o.com.hk
Environmental Officer / Sub-agent	Mr. K. M. Ma	9552 1734	2674 6688	dc200922jv_suba@ya hoo.com.hk
Environmental Supervisor	Mr. Anthony Chan	9179 2092	2674 6688	anthony277@hotmail.
Asia Ecological Consultants Ltd. (Wetland Specialist)	Dr. Mike Leven	2486 2885	2471 8389	mrleven@asiaecol.co m.hk
Environmental Pioneers & Solutions Limited (Environmental Team)	Miss. Goldie Fung	2556 9172	2856 2010	goldiefung@fseng.co m.hk



**Environmental Pioneers and Solutions Limited** 



Certificate No. 21289 1 of 3 Pages Page

Customer: Environmental Pioneers and Solutions Limited

Address: Flat A, 19/F., Chai Wan Industrial Centre Building, 21 Lee Chung Street, Chai Wan, HK.

Order No.: Q20468 Date of receipt 2-Mar-12

**Item Tested** 

**Description**: Digital Sound Level Meter

Manufacturer: SVAN

Model : 949 Serial No. : 8571

**Test Conditions** 

Date of Test: 5-Mar-12 Supply Voltage : --

**Ambient Temperature:** Relative Humidity: (50 ± 25) %  $(23 \pm 3)^{\circ}C$ 

**Test Specifications** 

Calibration check.

Ref. Document/Procedure: Z01.

**Test Results** 

All results were within the IEC 651 Type 1 & IEC 804 Type 1 specification after adjustment.

The results are shown in the attached page(s).

Main Test equipment used:

Equipment No. Description Cert. No. Traceable to

S017A Multi-Function Generator 07279 SCL-HKSAR

S024 Sound Level Calibrator 15136 NIM-PRC & SCL-HKSAR

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI).

The test results apply to the above Unit-Under-Test only

Calibrated by :

This Certificate is issued by: Hong Kong Calibration Ltd.

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong.

Tel: 2425 8801 Fax: 2425 8646



Certificate No. 21289

Page 2 of 3 Pages

Results:

### 1. SPL Accuracy

	UUT Set	ting			UUT Rea	ding (dB)
Level Range	Octave Filter	Weight	Response	Applied Value (dB)	Before	After
			<u>-</u> I		adjust	adjust
105 dB	OFF	A	Fast	94.0	*92.0	94.0
			Slow	]		94.0
		C	Fast			94.0
130 dB	OFF	A	Fast	94.0		94.0
			Slow	1		94.0
		С	Fast			94.0
	OFF	A	Fast	114.0		114.1
			Slow			114.1
		С	Fast			114.1

IEC 651 Type 1 Spec. :  $\pm$  0.7 dB

Uncertainty: ± 0.1 dB

2. Level Stability: 0.0 dB

IEC 651 Type 1 Spec. : ± 0.3 dB

Uncertainty: ± 0.01 dB

### 3. Linearity

3.1 Level Linearity

5.1 Level Linearity					
UUT Range	Applied			IEC 651 Type 1 Spec.	
(dB)	Value (dB)	UUT Reading (dB)	Variation (dB)	(inside Primary)	
130	114.0	114.0	0.0	± 0.7 dB	
	104.0	104.0	0.0		
	94.0	94.0 (Ref.)			
105	84.0	84.0	0.0		
	74.0	74.0	0.0		
	64.0	64.0	0.0		
	54.0	54.0	0.0	<u> </u>	

Uncertainty:  $\pm 0.1 \text{ dB}$ 



Certificate No. 21289

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## 3.2 Differential level linearity

UUT Range (dB)	Applied Value (dB)	UUT Read	ing (dB)	Variation (dB)	IEC 651 Type 1 Spec.
130	84.0	84.0		0.0	± 0.4 dB
	94.0	94.0	(Ref.)	0.0	
	95.0	95.0		0.0	± 0.2 dB

Uncertainty:  $\pm 0.1 \text{ dB}$ 

## 4. Frequency Weighting

A weighting

A weighting		
Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-40.4	- 39.4 dB, ± 1.5 dB
63 Hz	-27.2	$-26.2 \text{ dB}, \pm 1.5 \text{ dB}$
125 Hz	-17.0	- 16.1 dB, $\pm$ 1 dB
250 Hz	-9.4	- $8.6  dB, \pm 1  dB$
500 Hz	-2.6	$-3.2 \text{ dB}, \pm 1 \text{ dB}$
1 kHz	0.0 (Ref)	0 dB, ± 1 dB
2 kHz	+1.8	$+ 1.2 \text{ dB}, \pm 1 \text{ dB}$
4 kHz	+1.8	+ 1.0 dB, ± 1 dB
8 kHz	-0.4	$-1.1 \text{ dB}, +1.5 \text{ dB} \sim -3 \text{ dB}$
16 kHz	-6.3	- 6.6 dB, + 3 dB $\sim$ - $\infty$

Uncertainty: ± 0.1 dB

#### **Time Averaging** 5.

Applied Burst duty Factor	Applied Leq. Value (dB)	UUT Reading (dB)	IEC 804 Type 1 Spec.
continuous	50.0		
1/10	50.0	50.2	± 0.5 dB
1/10 <sup>2</sup>	50.0	49.8	
1/10 <sup>3</sup>	50.0	50.1	± 1.0 dB
1/104	50.0	49.9	

Uncertainty: ± 0.1 dB

Remarks: 1. UUT: Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric Pressure: 1 001 hPa.
- 4. \*Out of specification.

----- END -----



Certificate No. 21290

Page 1 of 2 Pages

2-Mar-12

Date of receipt

**Customer:** Environmental Pioneers and Solutions Limited

Address: Flat A, 19/F., Chai Wan Industrial Centre Building, 21 Lee Chung Street, Chai Wan, HK.

Order No.: Q20468

**Item Tested** 

**Description**: Sound Level Calibrator

Manufacturer: Svantek

**Test Conditions** 

Date of Test: 5-Mar-12 Supply Voltage : --

Ambient Temperature :  $(23 \pm 3)^{\circ}$ C Relative Humidity :  $(50 \pm 25)$  %

**Test Specifications** 

Calibration check.

Ref. Document/Procedure: F21, Z02.

#### **Test Results**

All results were within the IEC 942 Class 1 specification.

The results are shown in the attached page(s).

Main Test equipment used:

Equipment No.	Description	Cert. No.	Traceable to
S014	Spectrum Analyzer	13535	NIM-PRC & SCL-HKSAR
S024	Sound Level Calibrator	15136	NIM-PRC & SCL-HKSAR
S041	Universal Counter	15610	SCL-HKSAR
S206	Sound Level Meter	16338	SCL-HKSAR

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI). The test results apply to the above Unit-Under-Test only

Calibrated by :

P. F. Wong

Approved by

orothy Cheuk

This Certificate is issued by:

Hong Kong Calibration Ltd,

Date: 7-Ma

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong, Tel: 2425 8801 Fax: 2425 8646



Certificate No. 21290

Page 2 of 2 Pages

Results:

### 1. Level Accuracy

UUT Nominal Value (dB)	Measured Value (dB)	IEC 942 Class 1 Spec.
94	94.10	± 0.3 dB
114	114.18	

Uncertainty: ± 0.1 dB

### 2. Frequency

UUT Nominal Value	Measured Value	IEC 942 Class 1 Spec.
1 kHz	1.000 kHz	± 2 %

Uncertainty:  $\pm 3.6 \times 10^{-6}$ 

3. Level Stability: 0.0 dB

IEC 942 Class 1 Spec. : ± 0.1 dB

Uncertainty: ± 0.01 dB

4. Total Harmonic Distortion : < 0.8 %

IEC 942 Class 1 Spec. : < 3 % Uncertainty : ± 2.3 % of reading

Remark: 1. UUT: Unit-Under-Test

- 2. The above measured values are the mean of 3 measurements.
- 3. The uncertainty claimed is for a confidence probability of not less than 95%.
- 4. Atmospheric Pressure: 1001 hPa.

----- END -----



# ALS Technichem (HK) Pty Ltd

## REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:

MR CHI HANG LAI

CLIENT:

**ENVIRONMENTAL PIONEERS & SOLUTIONS LTD** 

ADDRESS:

FLAT 19A, CHAI WAN INDUSTRIAL CENTRE BUILDING.

20 LEE CHUNG STREET,

CHAI WAN. HONG KONG.

PROJECT:

WORK ORDER:

HK1213902

LABORATORY:

HONG KONG

**DATE RECEIVED:** 

29/05/2012

DATE OF ISSUE:

15/06/2012

#### COMMENTS

It is certified that the item under calibration/checking has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal aceptance criteria of ALS will be followed.

Scope of Test:

Conductivity, Dissolved Oxygen, pH, Temperature and Turbidity

Description:

Multi-meter DKK-TOA

Brand Name: Model No.:

WQC-24, WMS-24

Serial No.:

682337

Equipment No.:

Date of Calibration: 04/06/2012 and 13/06/2012

#### **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

ALS Technichem (HK) Pty Ltd

11/F Chung Shun Knitting Centre

1-3 Wing Yip Street

Kwai Chung HONG KONG Phone:

852-2610 1044

Fax: Email: 852-2610 2021

hongkong@alsglobal.com

Mr Chan Kwok Fai, Godfrey Laboratory Manager - Hong Kong

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Page 1 of 3

# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: Date of Issue: HK1213902

15/06/2012

Client:

**ENVIRONMENTAL PIONEERS & SOLUTIONS LTD** 



Description:

Multi-meter

Brand Name: Model No.:

DKK-TOA WQC-24, WMS-24

Serial No.:

682337

Equipment No.:

Date of Calibration:

04 June, 2012

Date of next Calibration:

04 September, 2012

Parameters:

Conductivity

Method Ref: APHA (21st edition), 2510B

Expected Reading (uS/cm)	Displayed Reading (uS/cm )	Tolerance (% )
142.6	143.0	0.3
6667	6510	-2.4
12890	13900	7.8
58670	57900	-1.3
35076	Tolerance Limit (%)	10.0

pH Value

Method Ref: APHA (21st edition), 4500H:B

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)		
4.0	3.95	-0.05		
7.0	6.94	-0.06		
10.0	9.95	-0.05		
	Tolerance Limit (±unit)	0.20		

**Temperature** 

Method Ref: Section 6 of International Accreditation New Zealand Technical

Guide No. 3 Second edition March 2008; Working Thermometer Calibration Procedure.

and the 5 Second Cartion March 2000 Northing The monteter Canada and the cartion				
Expected Reading (°C )	Displayed Reading (°C )	Tolerance (°C )		
11.0	11.9	0.9		
21.0	20.9	-0.1		
41.0	40.5	-0.5		
	Tolerance Limit (°C)	2.0		

Mr Chan Kwok Fai, Godfrey Laboratory Manager - Hong Kong

## REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: Date of Issue: HK1213902

Date U

15/06/2012

Client:

**ENVIRONMENTAL PIONEERS & SOLUTIONS LTD** 



Description:

Multi-meter

Brand Name:

DKK-TOA WQC-24, WMS-24

Model No.: Serial No.:

682337

Equipment No.:

120000

Date of Calibration:

13 June, 2012

Date of next Calibration:

04 September, 2012

Parameters:

**Turbidity** 

Method Ref: APHA (21st edition), 2130B

Medica Religion (2150 cartion), 21505				
Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)		
0	0.00			
4	3.80	-5.0		
40	42.4	6.0		
80	80.1	0.1		
400	436.8	9.2		
800	868.7	8.6		
50 NO 50				
	Tolerance Limit (±%)	10.0		

**Dissolved Oxygen** 

Method Ref: APHA (21st edition), 45000: G

	Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
	2.75	2.86	0.11
1	4.12	4.17	0.11
	8.38	8.20	-0.18
		T-1	0.20
١		Tolerance Limit (±mg/L)	0.20

Mr Chan Kwok Fai, Godfrey Laboratory Manager - Hong Kong



17082 Certificate No.

2 Pages 1 of Page

Customer: Environmental Pioneers and Solutions Limited

 $(23 \pm 3)^{\circ}C$ 

Address: Flat A, 19/F., Chai Wan Industrial Centre Building, 21 Lee Chung Street, Chai Wan, HK.

Order No.: Q12881

Date of receipt

**Item Tested** 

**Description**: Protable Level-Velocity Logger

Manufacturer: Greyline

: Stingray Model

Serial No.

: 45525

28-Nov-11

**Test Conditions** 

Date of Test: 6-Dec-11 Supply Voltage

Relative Humidity: (50 ± 25) %

**Test Specifications** 

**Ambient Temperature:** 

Calibration check.

Ref. Document/Procedure: V12, T03, M07.

#### **Test Results**

All results were within the tolerance(s).

The results are shown in the attached page(s).

Main Test equipment used:

Equipment No.	Description	Cert. No.	Traceable to
S179	Std. Tape	10789	NIM-PRC
S136A	Stop Watch	07481	SCL-HKSAR
S223	Std. Thermometer	13173	NIM-PRC

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI).

The test results apply to the above Unit-Under-Test only

Calibrated by

This Certificate is issued by:

Hong Kong Calibration Ltd. Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street,Kwai Chung, NT,Hong Kong.

Tel: 2425 8801 Fax: 2425 8646

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Certificate No. 17082

Page 2 of 2 Pages

Results:

### 1. Flow Rate

Applied Value (Ft/s)	UUT Reading (Ft/s)	Tolerance	Uncertainty
1.67	1.6	± 5 %	± 1 <u>%</u>

### 2. Level

Applied Value (Ft)	UUT Reading (Ft)	Tolerance	Uncertainty
1.00	1.00	± 5 %	± 0.1 %
1.75	1.75		·
3.00	3.00		

## 3. Temperature

Applied Value (°C)	UUT Reading (°C)	Tolerance	Uncertainty	
23.0	24	± 2 ℃	± 0.2 ℃	İ

Remarks: 1. UUT: Unit-Under-Test

2. The uncertainty claimed is for a confidence probability of not less than 95%.

3. Sensor Used: Model: QZ02L-UT-01-PS

S/N:10D18289

----- END -----



## **Noise Monitoring Data Sheet**

Monitoring Location		M1	AL1
Monitoring Method		Façade	Façade
Date of Monitoring	g	5/7/2012	5/7/2012
Weather Conditio	n	Sunny	Sunny
Measurement Sta	art Time (hh:mm)	13:10	13:50
Measurement Tin	ne Length (mins)	30 r	mins
SLM Model & S/N	I	SVAN	27302
Wind Speed (m/s	)	0.4	0.3
	L <sub>eq</sub> (dB(A))	62.3	62.6
Measurement Results	L <sub>10</sub> (dB(A))	65.2	65.5
	L <sub>90</sub> (dB(A))	55.0	52.7
Major Construction Noise Source(s) During Monitoring		The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities
Other Noise Source(s) During Monitoring		– Background Noise – Traffic Noise	– Background Noise – Traffic Noise

Name Signature Date

Perpared by: <u>Lau kai chung</u> <u>Lau kai chung</u> <u>5/7/2012</u>

## **Noise Monitoring Data Sheet**

Monitoring Location		M1	AL1
Monitoring Method		Façade	Façade
Date of Monitoring	g	11/7/2012	11/7/2012
Weather Conditio	n	Sunny	Sunny
Measurement Sta	art Time (hh:mm)	10:45	11:25
Measurement Tin	ne Length (mins)	30 r	nins
SLM Model & S/N	I	SVAN	27302
Wind Speed (m/s	)	0.3	0.3
	L <sub>eq</sub> (dB(A))	60.7	64.2
Measurement Results	L <sub>10</sub> (dB(A))	62.7	67.8
	L <sub>90</sub> (dB(A))	46.9	50.8
Major Construction Noise Source(s) During Monitoring		The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities
Other Noise Source(s) During Monitoring		– Background Noise – Traffic Noise	– Background Noise – Traffic Noise

Name Signature Date

Perpared by: <u>Lau Kai Chung</u> <u>Lau kai chung</u> <u>11/7/2012</u>

## **Noise Monitoring Data Sheet**

Monitoring Location		M1	AL1
Monitoring Method		Façade	Façade
Date of Monitorin	g	18/7/2012	18/7/2012
Weather Condition	n	Sunny	Sunny
Measurement Sta	art Time (hh:mm)	11:00	11:35
Measurement Tin	ne Length (mins)	30 r	nins
SLM Model & S/N	I	SVAN	27302
Wind Speed (m/s	)	0.2	0.2
	L <sub>eq</sub> (dB(A))	64.4	67.2
Measurement Results	L <sub>10</sub> (dB(A))	66.1	69.9
	L <sub>90</sub> (dB(A))	54.7	60.0
Major Construction Noise Source(s) During Monitoring		The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities
Other Noise Source(s) During Monitoring		– Background Noise – Traffic Noise	– Background Noise – Traffic Noise

Name Signature Date

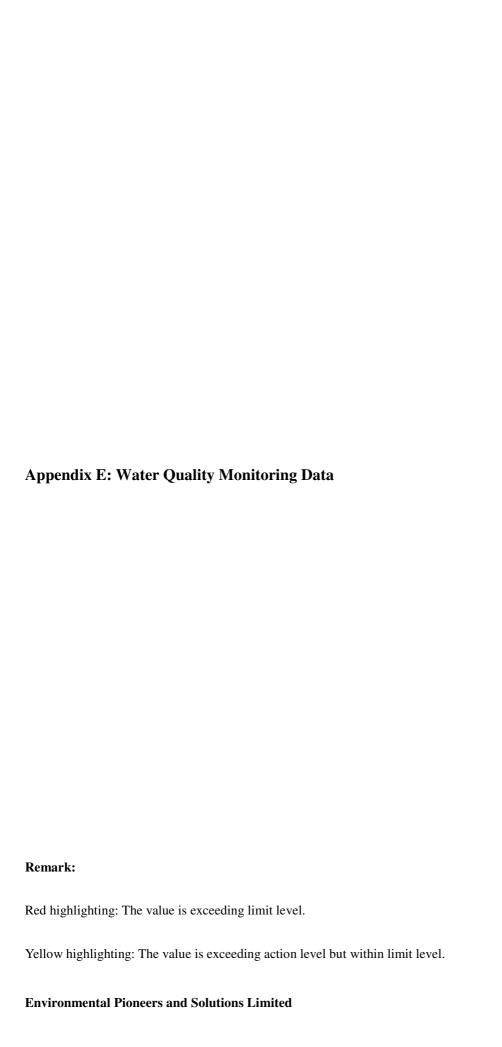
Perpared by: <u>Lau Kai Chung</u> <u>Lau kai chung</u> <u>18/7/2012</u>

## **Noise Monitoring Data Sheet**

Monitoring Location		M1	AL1
Monitoring Method		Façade	Façade
Date of Monitorin	g	25/7/2012	25/7/2012
Weather Condition	n	Sunny	Sunny
Measurement Sta	art Time (hh:mm)	11:45	13:10
Measurement Tin	ne Length (mins)	30 r	nins
SLM Model & S/N	I	SVAN	27302
Wind Speed (m/s	)	0.3	0.3
	L <sub>eq</sub> (dB(A))	62.1	68.2
Measurement Results	L <sub>10</sub> (dB(A))	64.5	69.3
	L <sub>90</sub> (dB(A))	55.7	60.1
Major Construction Noise Source(s) During Monitoring		The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities
Other Noise Source(s) During Monitoring		– Background Noise – Traffic Noise	– Background Noise – Traffic Noise

Name Signature Date

Perpared by: <u>Lau Kai Chung</u> <u>Lau kai chung</u> <u>25/7/2012</u>



Date of Sampling :	3/7/2012	
Weather:	Cunnu	
weather.	Sunny	

Monitoring Location	W1	W2	C2
Time (hhmm)	12:30	13:20	10:30
Tide Mode	Mid	-ebb	N/A
Water Depth (m)	<1	<1	<1
pH value	6.70	7.42	8.50
Temperature (°C)	33.7	31.7	32.9
Turbidity (NTU)	3.1	6.7	2.1
DO (mg/L)	4.20	7.02	4.30
DO Saturation (%)	59%	92%	59%
Suspended Solids (mg/L)	6.0	13.0	4.0

Remark or Observation:			
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-			
-			
	<u>Name</u>	<u>Signature</u>	<u>Date</u>
Prepared By :	Lau kai chung	Lau kai chung	3/7/2012

Date of Sampling: 5/7/2012

Weather : Overcast

Monitoring Location	W1	W2	C2
Time (hhmm)	14:00	12:30	
Tide Mode	Mid	-ebb	N/A
Water Depth (m)	<1	<1	<1
pH value	6.80	7.44	8.40
Temperature (°C)	28.9	28.9	28.9
Turbidity (NTU)	28.6	12.7	11.6
DO (mg/L)	4.60	6.94	4.80
DO Saturation (%)	59%	92%	62%
Suspended Solids (mg/L)	35.0	13.0	10.0

Remark or Observation:			
	<u>Name</u>	<u>Signature</u>	<u>Date</u>
Prepared By :	Lau kai chung	Lau kai chung	5/7/2012
Frepared by .	Lau kai chung	Lau kai Cilulig	3/1/2012

Date of Sampling :	7/7/2012	
Weather:	Sunny	

Monitoring Location	<b>W</b> 1	W2	C2
Time (hhmm)	15:00	14:30	11:15
Tide Mode	Mid	-ebb	N/A
Water Depth (m)	<1	<1	<1
pH value	7.10	7.75	8.90
Temperature (°C)	33.1	31.1	4.6
Turbidity (NTU)	4.30	5.5	2.20
DO (mg/L)	4.60	6.78	4.60
DO Saturation (%)	65%	87%	66%
Suspended Solids (mg/L)	7.0	8.2	4.0

Remark or Observation:			
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	<u>Name</u>	<u>Signature</u>	<u>Date</u>
Prepared By :	Lau kai chung	Lau kai chung	7/7/2012
i repared by	Lau kai ciluliy	Lau kai ciluliy	1/1/2012

Date of Sampling :	9/7/2012	
Weather:	Sunny	

Monitoring Location	W1	W2	C2
Time (hhmm)	16:45	15:30	10:45
Tide Mode	Mid	-ebb	N/A
Water Depth (m)	<1	<1	<1
pH value	7.50	7.42	8.80
Temperature (°C)	33.9	32.7	4.8
Turbidity (NTU)	7.5	6.9	8.4
DO (mg/L)	4.50	6.43	4.80
DO Saturation (%)	63%	76%	68%
Suspended Solids (mg/L)	33.0	9.4	4.0

Remark or Observation :			
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	<u>Name</u>	<u>Signature</u>	<u>Date</u>
Duamana d Dua	Lautei akusa	Lau bai abuma	0/7/0040
Prepared By : _	Lau kai chung	Lau kai chung	9/7/2012

Date of Sampling: 11/7/2012

Weather: Sunny

Monitoring Location	W1	W2	C2
Time (hhmm)	16:00	15:30	10:05
Tide Mode	Mid	-ebb	N/A
Water Depth (m)	<1	<1	<1
pH value	6.70	7.19	7.80
Temperature (°C)	32	30.3	32.8
Turbidity (NTU)	8.4	10.1	1.7
DO (mg/L)	4.50	6.50	4.40
DO Saturation (%)	62%	74%	61%
Suspended Solids (mg/L)	6.0	7.6	2.0

Remark or Observation:			
	<u>Name</u>	<u>Signature</u>	<u>Date</u>
Prepared By :	Lau kai chung	Lau kai chung	11/7/2012

Date of Sampling: 13/7/2012

Weather: Sunny

Monitoring Location	W1	W2	C2
Time (hhmm)	9:45	10:15	10:00
Tide Mode	Mid	-ebb	N/A
Water Depth (m)	<1	<1	<1
pH value	7.40	7.16	7.70
Temperature (°C)	34.7	28.6	34.6
Turbidity (NTU)	3.6	11.3	3.1
DO (mg/L)	4.50	7.17	4.60
DO Saturation (%)	60%	70%	54%
Suspended Solids (mg/L)	10.0	5.0	5.0

Remark or Observation:			
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	Name	<u>Signature</u>	Date
	<u>ivaille</u>	Signature	Date
Prepared By :	Lau kai chung	Lau kai chung	13/7/2012

Date of Sampling: 16/7/2012

Weather: Sunny

Monitoring Location	W1	W2	C2
Time (hhmm)	12:00	12:05	10:30
Tide Mode	Mid	-ebb	N/A
Water Depth (m)	<1	<1	<1
pH value	7.30	7.25	8.10
Temperature (°C)	30.6	31.2	30
Turbidity (NTU)	5.5	7.2	12.1
DO (mg/L)	4.60	7.24	4.20
DO Saturation (%)	61%	94%	56%
Suspended Solids (mg/L)	4.0	9.4	3.0

Remark or Observation:			
	<u>Name</u>	<u>Signature</u>	<u>Date</u>
Prepared By :	Lau kai chung	Lau kai chung	16/7/2012

Date of Sampling: 18/7/2012

Weather: Cloudy

Monitoring Location	W1	W2	C2
Time (hhmm)	11:30	11:00	11:45
Tide Mode	Mid	-ebb	N/A
Water Depth (m)	<1	<1	<1
pH value	6.30	7.12	6.70
Temperature (°C)	30.4	29.6	29.5
Turbidity (NTU)	9.2	6.1	22.8
DO (mg/L)	4.20	7.20	4.60
DO Saturation (%)	56%	94%	62%
Suspended Solids (mg/L)	14.0	13.0	58.0

Remark or Observation :			
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			_
	<u>Name</u>	<u>Signature</u>	<u>Date</u>
Prepared By :	Lau kai chung	Lau kai chung	18/7/2012

Date of Sampling :	20/7/2012	
Weather:	Sunny	

Monitoring Location	W1	W2	C2
Time (hhmm)	14:00	13:45	9:15
Tide Mode	Mid	-ebb	N/A
Water Depth (m)	<1	<1	<1
pH value	5.90	7.41	8.20
Temperature (°C)	30.9	31.5	31.6
Turbidity (NTU)	12.1	5.7	3.6
DO (mg/L)	6.10	7.14	6.00
DO Saturation (%)	66%	95%	80%
Suspended Solids (mg/L)	12.0	6.8	5.0

Remark or Observation:			
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	<u>Name</u>	<u>Signature</u>	<u>Date</u>
Prepared By : _	Lau kai chung	Lau kai chung	20/7/2012

Date of Sampling: 23/7/2012

Weather: Rainy

Monitoring Location	W1	W2	<b>C</b> 1
Time (hhmm)	9:45	10:00	10:15
Tide Mode		Mid-flood	
Water Depth (m)	<1	<1	<1
pH value	7.00	7.98	8.05
Temperature (°C)	23.8	28.4	28.5
Turbidity (NTU)	9.7	1.0	0.7
DO (mg/L)	4.90	7.52	7.56
DO Saturation (%)	59%	96%	96%
Suspended Solids (mg/L)	16.0	4.2	4.8

Remark or Observation :			
•			
	<u>Name</u>	<u>Signature</u>	<u>Date</u>
Prenared Ry :	Lau kai chung	l au kai chung	23/7/2012
Prepared By :	Lau kai chung	Lau kai chung	23/7/2012

Date of Sampling :	25/7/2012	
Weather:	Rainy	
weather.	Ralliy	

Monitoring Location	W1	W2	C2
Time (hhmm)	16:45	11:10	10:00
Tide Mode	Mid	-ebb	N/A
Water Depth (m)	<1	<1	<1
pH value	7.40	6.90	8.20
Temperature (°C)	25.8	25.2	26.4
Turbidity (NTU)	8.5	450.1	12.7
DO (mg/L)	4.90	8.09	5.30
DO Saturation (%)	61%	100%	66%
Suspended Solids (mg/L)	10.0	320.0	26.0

Remark or Observation:			
	<u>Name</u>	<u>Signature</u>	<u>Date</u>
Prepared By :	Lau kai chung	Lau kai chung	25/7/2012
			_

Date of Sampling: 27/7/2012

Weather: Rainy

Monitoring Location	W1	W2	C1
Time (hhmm)	9:00	13:15	13:25
Tide Mode		Mid-flood	
Water Depth (m)	<1	<1	<1
pH value	7.80	6.97	6.95
Temperature (°C)	27.3	26.2	26.2
Turbidity (NTU)	3.4	27.0	27.2
DO (mg/L)	7.10	7.81	7.88
DO Saturation (%)	90%	97%	97%
Suspended Solids (mg/L)	16.0	10.0	15.0

Remark or Observation:			
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-	_		
-			
	<u>Name</u>	<u>Signature</u>	<u>Date</u>
Draward By	Lou koi ohung	l ou kai ahuna	27/7/2042
Prepared By : _	Lau kai chung	Lau kai chung	27/7/2012

Date of Sampling:	30/7/2012	
	_	
Weather:	Sunny	

Monitoring Location	W1	W2	C2
Time (hhmm)	11:00	11:05	10:30
Tide Mode	Mid	-ebb	N/A
Water Depth (m)	<1	<1	<1
pH value	6.60	7.23	8.10
Temperature (°C)	34.8	32.1	34.2
Turbidity (NTU)	2.3	4.4	3.3
DO (mg/L)	4.20	7.35	4.90
DO Saturation (%)	60%	96%	69%
Suspended Solids (mg/L)	14.0	13.0	6.0

Remark or Observation :			
	<u>Name</u>	<u>Signature</u>	<u>Date</u>
Prepared By :	Lau kai chung	Lau kai chung	30/7/2012



Location	Position	Tide	Date**	Time	Weather	Water Depth (m)*	Water Flow (m/s)	Water Flow (m <sup>3</sup> /s)
H1	Mid	Flood	7-Jul-2012	9:30	Cloudy	0.12	0.18	0.225
H1	Mid	Flood	13-Jul-2012	15:25	Sunny	0.12	0.18	0.225
H1	Mid	Flood	20-Jul-2012					
H1	Mid	Flood	27-Jul-2012	14"05	Rainy	0.12	0.12	0.150
H2	Mid	Flood	7-Jul-2012	10:00	Cloudy	0.12	0.18	1.130
H2	Mid	Flood	13-Jul-2012	15:00	Sunny	0.12	0.12	0.754
H2	Mid	Flood	20-Jul-2012					
H2	Mid	Flood	27-Jul-2012	13:40	Rainy	0.18	0.12	0.754
H1	Mid	Ebb	7-Jul-2012	15:15	Sunny	0.55	0.12	0.150
H1	Mid	Ebb	13-Jul-2012	10:00	Sunny	0.12	0.12	0.150
H1	Mid	Ebb	20-Jul-2012	14:15	Sunny	0.12	0.18	0.225
H1	Mid	Ebb	27-Jul-2012					
H2	Mid	Ebb	7-Jul-2012	16:00	Sunny	0.12	0.18	0.225
H2	Mid	Ebb	13-Jul-2012	9:35	Sunny	0.12	0.06	0.377
H2	Mid	Ebb	20-Jul-2012	14:40	Sunny	0.18	0.24	1.507
H2	Mid	Ebb	27-Jul-2012					

<sup>\*:</sup> Since the water levels were too low for the depth detector to determine, a tape measure was used for estimation.

<sup>\*\*:</sup> Only one mid-tide is within working hours on 20, 27 Jul 2012.





Photo 1 – A temporary hoarding was established to surround the works area at Wai Ha River estuary.



Photo 2 – A temporary hoarding was established to surround Area B within Tung Tsz Nursery.



Photo 3 – A new section of temporary hoarding has been erected from southwest to eastern parts of the Tung Tsz Nursery.



Photo 4 – Site hoarding was found collapsed in Area B.



Photo 5 – No polluted water was observed in the pond of the ECA and the adjacent Wai Ha River. Muddy water was caused by the soil runoff from the upper stream of Wai Ha River due to the massive rainfall during the typhoon.



Photo 6 – Condition of the transplanted tree U58 *Grevillea robusta*. New leaves were observed on the tree branches and trunk.



Photo 7 – A large broken branch hanging on the scaffold the retained tree U50 (*Ficus elastica*).



Photo 8 – The relocated tree U55 (*Pterocarpus indicus*) was found fallen on the ground with its planter.



Photo 9 – The retained tree U68 was found fallen and with its laying aginst the hoarding.



Photo 10 – Temporarily stored construction materials was not observed within the TPZs during the monitoring on 26<sup>th</sup> July 2012.



Photo 11 – Temporarily stored construction materials were no longer observed within the TPZs in Area A.



Photo 12 – Declining health condition of U34 in Area B.



Photo 13 – Declining health condition of U35 in Area B.



Photo 14 – Declining health condition of U37 in Area B.



Photo 15 – Relocated trees were unable to be assessed closely due to the construction of the box culvert.



Photo 16 – Relocated trees were unable to be assessed closely due to the construction of the box culvert.



Photo 17 – Waterlogged area was observed at the base of U76.



Photo 18 – Waterlogged area was observed at the base of U77.



Photo 19 – Waterlogged area was observed at the base of U78.



Photo 20 – Waterlogged area was observed at the base of U79.



Photo 21 – New leaves were found on the transplanted tree T153 in Area C.



Photo 22 – New leaves were found on the transplanted, untagged tree (possibly T149) in Area C.



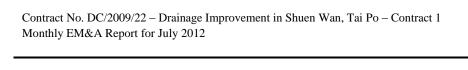
Photo 23 – The retained tree C49 (*Litsea monopetala*) was found broken at its trunk after the typhoon.



Photo 24 – The protected shrubs *Pavetta* hongkongensis (PH01 and PH02) showed fair health condition in Area C.



Photo 25 – The protected shrub Pavetta hongkongensis (PH03) showed fair health condition in Area C.



#### Appendix H:

A)

The recommended mitigation measures of EM&A manual (revision 3)

B)

Implementation status of environmental protection and mitigation measures

#### A) The recommended mitigation measures of EM&A manual (revision 3)

EIA Ref	EM&A . Ref.	Recommended Mitigation Measures Noise Impact	Objectives of the Recommended Measure & Main Concern to Address	•	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?
S 3.30	2.18	Good Site Practice:	To minimize construction	Contractor	Works areas	Construction	EIAO-TM
		<ul> <li>Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program</li> <li>Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program</li> </ul>	noise impacts			phase	NCO
		<ul><li>Mobile plant, if any, shall be sited as far from NSRs as possible</li><li>Machines and plant (such as</li></ul>					

EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
		trucks) that may be in intermittent					
		use shall be shut down between					
		work periods or shall be throttled					
		down to a minimum					
		Plant known to emit noise					
		strongly in one direction shall,					
		wherever possible, be orientated so					
		that the noise is directed away from					
		the nearby NSRs					
		Material stockpiles and other					
		structures shall be effectively					
		utilized, wherever practicable, in					
		screening noise from on-site					
		construction activities.					
S 3.31 -	2.19	Use of quieter PME	To minimize construction	Contractor	Works areas	Construction	EIAO-TM
3.32			noise impacts			phase	NCO
S 3.33 –	2.20-2.	Use of temporary noise barrier	To minimize construction	Contractor	Works areas as	Construction	EIAO-TM
3.34	21		noise impacts		shown in Figure	phase	NCO

EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
3.36-3.3	2.23-2.				3.5		
8	24						
S 3.35	2.22	Use of alternative quieter	To minimize construction	Contractor	Part of the works	Construction	EIAO-TM
and		construction method (the Low	noise impacts		area for pipe	phase	NCO
Table		Impact Method)			laying in Wai Ha		
3.6					(refer to Figure		
					3.5)		
3.36	2.23-2.	Use of noise enclosure	To minimize construction	Contractor	Part of the works	Construction	EIAO-TM
-3.38	24		noise impacts		area for pipe	phase	NCO
					laying in Wai Ha		
					(refer to Figure		
					3.5)		
В		Air Quality Impact		•		•	
S4.16	3.5	Implementation of mitigation	To minimize construction	Contractor	Construction	Construction	EIAO-TM
		measures stipulated in the Air	dust impacts		Sites	Phase	
		Pollution Control (Construction Dust)					
		Regulation and good site practices					
		including but not limited to the					
		following:					

EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
		<ul> <li>Use of regular watering to reduce</li> </ul>					
		dust emissions from exposed site					
		surfaces and unpaved road, with					
		complete coverage, particularly					
		during dry weather;					
		<ul> <li>Use of frequent watering for</li> </ul>					
		particularly dusty static construction					
		areas and areas close to ASRs;					
		<ul><li>Tarpaulin covering of all dusty</li></ul>					
		vehicle loads transported to, from					
		and between site location;					
		<ul><li>Establishment and use of vehicle</li></ul>					
		wheel and body washing facilities at					
		the exit points of the site;					
		<ul><li>Routing of vehicles and</li></ul>					

EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
		positioning of construction plant					
		should be at the maximum possible					
		distance from ASRs.					
		<ul> <li>Stockpiled excavated materials</li> </ul>					
		should be covered with tarpaulin,					
		and should be removed off-site					
		within 24 hours to avoid any odour					
		nuisance arising.					
С	1	Water Quality Impact		<b>.</b>	l		
S5.29	4.5	Construction Site Run-off and	To minimize water quality	Contractor	Works sites	Construction	ProPECC PN 1/94
		Drainage:	impacts			phase	Construction Site
							Drainage
		<ul> <li>Before commencing any site</li> </ul>					
		formation work, all sewer and					
		drainage connections shall be					
		sealed to prevent debris, soil, sand					
		etc. from entering public					

EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
		sewers/drains.					
		<ul><li>Temporary ditches shall be</li></ul>					
		provided to facilitate run-off					
		discharge into appropriate					
		watercourses, via a silt retention					
		pond. No site run-off shall enter the					
		fishponds at Shuen Wan.					
		<ul> <li>Sand/silt removal facilities such</li> </ul>					
		as sand traps, silt traps and					
		sediment basins shall be provided to					
		remove sand/silt particles from					
		runoff to meet the requirements of					
		the Technical Memorandum					
		standard under the Water Pollution					
		Control Ordinance. The design of					
		silt removal facilities shall be based					
		on the guidelines provided in					
		ProPECC PN 1/94. All drainage					

EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
		facilities and erosion and sediment					
		control structures shall be inspected					
		monthly and maintained to ensure					
		proper and efficient operation at all					
		times and particularly during					
		rainstorms.					
		<ul><li>Water pumped out from</li></ul>					
		excavated pits shall be discharged					
		into silt removal facilities.					
		<ul><li>During rainstorms, exposed</li></ul>					
		slope/soil surfaces shall be covered					
		by a tarpaulin or other means.					
		Other measures that need to be					
		implemented before, during, and					
		after rainstorms as summarized in					
		ProPECC PN 1/94 shall be followed.					

EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
		<ul> <li>Exposed soil areas shall be</li> </ul>					
		minimized to reduce potential for					
		increased siltation and					
		contamination of runoff.					
		■ Earthwork final surfaces shall be					
		well compacted and subsequent					
		permanent work or surface					
		protection shall be immediately					
		performed to reduce the potential of					
		soil erosion.					
		Open stockpiles of construction					
		materials or construction wastes					
		on-site shall be covered with					
		tarpaulin or similar fabric during					
		rainstorms.					
S5.30	4.7	Further precautionary measures	To minimize water quality	Contractor	Works areas near	Rainy seasons	EIAO-TM
		during rainy season:	impacts to the designated		the Conservation	during	Water Pollution
			Conservation Area		Area	construction	Control Ordinance

EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
		<ul> <li>For the construction of the box</li> </ul>				phase	(WPCO)
		culvert next to the existing channel					
		of the Wai Ha River, sand bags					
		should be deployed around the					
		boundary of the works trench to					
		prevent muddy water ingress into					
		the adjacent CA or Wai Ha River.					
		Sand bags should also be used to					
		surround the excavated trench.					
		Generally, the sand bags will be					
		placed up to a height of 300mm to					
		provide adequate allowance for the					
		built-up water level during rainstorm					
		event. With sand bags in place,					
		surface runoff will be intercepted					
		and flow to Wai Ha River or					
		collected by the existing drainage					
		system as usual.  For the construction of the box					

EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
		culvert in the extreme northeast corner of Shuen Wan Marsh					
		Conservation Area sand bags					
		should be deployed along the limit					
		of the works area to prevent muddy water ingress into the CA. Sand					
		bags should be placed to a height					
		of at least 300mm from ground level and +2.5 mPD (whichever is					
		greater) to provide adequate allowance for the built-up water					
		level during rainstorm events.					
		Unpolluted surface runoff within the					
		works area should then be					
		collected and directed into the					
		existing drainage system.					
		<ul> <li>Sheet-piles, which would be</li> </ul>					
		installed around the works trench					
		near the Conservation Area, would					

R					What requirements
	Recommended Measure &	implement the	measure	implement the	or standards for the
M	Main Concern to Address	measure?		measure?	measure to
					achieve?
round level for					
hoardings to					
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EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
		Stockpiling the excavated					
		materials adjacent to the					
		Conservation Area would not be					
		allowed. The excavated materials					
		would be either removed off site					
		immediately after excavation, or					
		stockpile at location(s) away from					
		the Conservation Area. The					
		stockpile locations shall be					
		approved by the site engineer.					
S5.31-S	4.8-4.9	General Construction Activities:	To minimize water quality	Contractor	Works sites	Construction	EIAO-TM
5.32		Debris and refuse generated	impacts			phase	WPCO
		on-site should be collected, handled					
		and disposed of properly to avoid					
		entering the Wa Ha River and fish					
		ponds at Shuen Wan. Stockpiles					
		of cement and other construction					
		materials should be kept covered					

EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
		when not being used.					
		Oils and fuels should only be					
		used and stored in designated areas					
		which have pollution prevention					
		facilities. To prevent spillage of					
		fuels and solvents to nearby water					
		bodies, all fuel tanks and storage					
		areas should be provided with locks					
		and be sited on sealed areas, within					
		bunds of a capacity equal to 110%					
		of the storage capacity of the largest tank. The bund should be drained					
		of rainwater after a rain event.					
S5.33	4.10	Sewage from Construction	To minimize water quality	Contractor	Works sites	Construction	EIAO-TM
		workforce:	impacts			phase	WPCO
		<ul> <li>Temporary sanitary facilities,</li> </ul>					
		such as portable chemical toilets,					
		should be employed on-site. A					

EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
		licensed contractor would be					
		responsible for appropriate disposal					
		and maintenance of these facilities.					
S5.34	4.11	River Channel Excavation Works:	To minimize water quality	Contractor	Works sites	Construction	EIAO-TM
			impacts			phase	WPCO
		The excavation works within the					
		upstream end of the existing river					
		channel of the Wai Ha River for the					
		construction of the proposed box					
		culvert shall be carried out in dry					
		condition. Containment					
		measures such as bunds and					
		barriers shall be used within the					
		affected length of the river channel					
		and the excavation works restricted					
		to within an enclosed dry section of					
		the channel. The excavation works					
		within Wai Ha River shall be					
		restricted to the period from October					

EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
		to April.					
D		Waste Management Implications		l			
S6.20 -	5.5	Good site practices:	To reduce waste	Contractor	Works sites	Construction	ETWB TCW
6.22			management impacts			phase	No.19/2005
		<ul> <li>Nomination of approved</li> </ul>					ETWB TCW
		personnel, such as a site manager,					No.31/2004
		to be responsible for good site					
		practices and making arrangements					
		for collection of all wastes generated					
		at the site and effective disposal to					
		an appropriate facility.					
		<ul> <li>Training of site personnel in</li> </ul>					
		proper waste management and					
		chemical waste handling					
		procedures.					
		<ul> <li>Provision of sufficient waste</li> </ul>					
		disposal points and regular					

EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
		collection for disposal.					
		<ul> <li>Appropriate measures to</li> </ul>					
		minimise windblown litter and dust					
		during transportation of waste by					
		either covering trucks or by					
		transporting wastes in enclosed					
		containers.					
		Separation of chemical waste for					
		special handling and appropriate					
		treatment at the Chemical Waste					
		Treatment Facility.					
		<ul><li>Regular cleaning and</li></ul>					
		maintenance programme for					
		drainage systems, sumps and oil					
		interceptors.					
		A Waste Management Plan					

EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
		should be prepared and submitted to					
		the Engineer for approval. One					
		may make reference to ETWB TCW					
		No. 15/2003 for details.					
		A recording system for the					
		amount of wastes generated,					
		recycled and disposed (including the					
		disposal sites) should be proposed.					
S6.23-	5.7	Waste reduction measures:	To achieve waste reduction	Contractor	Works sites	Construction	EIAO-TM
6.24						phase	
		<ul> <li>Segregation and storage of</li> </ul>					
		different types of waste in different					
		containers, skips or stockpiles to					
		enhance reuse or recycling of					
		materials and their proper disposal.					
		To encourage collection of					
		aluminium cans by individual					
		collectors, separate labelled bins					

EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
		shall be provided to segregate this					
		waste from other general refuse					
		generated by the work force.					
		<ul><li>Any unused chemicals or those</li></ul>					
		with remaining functional capacity					
		shall be recycled.					
		<ul><li>Maximising the use of reusable</li></ul>					
		steel formwork to reduce the amount					
		of C&D material.					
		<ul><li>Proper storage and site practices</li></ul>					
		to minimise the potential for damage					
		or contamination of construction					
		materials.					
		Plan and stock construction					
		materials carefully to minimise					
		amount of waste generated and					

EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
		avoid unnecessary generation of					
		waste.					
S6.25-		Construction & Demolition (C&D)	To minimize off-site disposal	Contractor	Works sites	Construction	EIAO-TM
6.26		Material:	of C&D material			phase	
		Excavated material with suitable	To minimize environmental				
		characteristics/size should be	impacts during the handling				
		reused on-site as fill material as far	of C&D material				
		as practicable, such as for					
		backfilling of the box culvert and					
		drainage pipe works.					
		Suitable areas should be					
		designated within the works site					
		boundaries for temporary stockpiling					
		of C&D material.					
		■ Within stockpile areas, the					
		following measures should be taken					
		to control potential environmental					

EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
		impacts or nuisance:					
		- covering material during					
		heavy rainfall;					
		- locating stockpiles to minimize					
		potential visual impacts; and					
		- minimizing land intake of					
		stockpile areas as far as possible.					
		■ When disposing C&D material at					
		a public filling area, the material					
		shall only consist of soil, rock,					
		concrete, brick, cement					
		plaster/mortar, inert building debris,					
		aggregates and asphalt. The					
		material shall be free from marine					
		mud, household refuse, plastic,					
		metals, industrial and chemical					
		waste, animal and vegetable matter,					
		and other material considered to be					

EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
		unsuitable by the Filling Supervisor.					
S6.27		Chemical waste:	To minimize environmental	Contractor	Works sites	Construction	EIAO-TM
		Contractor should register with	impacts during the handling,			phase	Waste Disposal
		the EPD as a Chemical Waste	transportation and disposal				(Chemical Waste)
		Producer and to follow the	of chemical waste				(General) Regulation
		guidelines stated in the Code of					
		Practice on the Packaging,					
		Labelling and Storage of Chemical					
		Wastes.					
		Good quality containers					
		compatible with the chemical					
		wastes should be used, and					
		incompatible chemicals should be					
		stored separately.					
		Appropriate labels should be					
		securely attached on each chemical					
		waste container indicating the					

EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
		corresponding chemical					
		characteristics of the chemical					
		waste, such as explosives,					
		flammable, oxidizing, irritant, toxic,					
		harmful, corrosive, etc.					
		■ The Contractor should use a					
		licensed collector to transport and					
		dispose of the chemical wastes					
		generated at the Chemical Waste					
		Treatment Centre at Tsing Yi, or					
		other licenced facility, in accordance					
		with the Waste Disposal (Chemical					
		Waste) (General) Regulation.					
S6.28		General refuse:	To minimize environmental	Contractor	Works sites	Construction	EIAO-TM
		It should be stored in enclosed	impacts during the handling			phase	
		bins or compaction units separate	and transportation of general				
		from C&D material.	refuse				
		A reputable waste collector					

EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
		should be employed by the					
		contractor to remove general refuse					
		from the site, separately from C&D					
		material.					
		An enclosed and covered area					
		is preferred to reduce the					
		occurrence of 'wind blown' light					
		material.					
E	l	Ecological Impact			I		
S. 7.95	6.6	Sheet-pilings, which will be	To minimize the impacts on	Contractor	Whole site	Construction	EIAO-TM
		installed around the trench of	the stream and natural river			Phase	
		excavation, should be extended	bank				
		above ground level for ~2m to act as					
		hoarding to isolate the works site.					
		<ul><li>The trenching works for the</li></ul>					
		construction of the proposed box					
		culvert should be carried out in					
		phases, with a trench length of not					

EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
		more than 120m in each phase.					
		The trench should be backfilled and					
		compacted with suitable materials					
		upon completion of each phase of					
		the construction works.					
S7.117	6.6	The construction of intercept	To minimize the impacts on	Contractor	Whole site	Construction	EIAO-TM
		point of twin cell box culvert at the	the stream and natural river			Phase	
		upstream of Wai Ha River should be	bank				
		confined to only one side of the river					
		bank.					
		■ To restore and enhance the					
		ecological value of the stream, the					
		affected river bank should be					
		reinstated to its original condition or					
		lined with rock-filled gabion.					
		<ul><li>Planting pits should be provided</li></ul>					
		in the gabion bank to allow the					
		re-establishment of riparian					
		vegetation.					

EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
		<ul> <li>The existing natural riverbed and</li> </ul>					
		substrates should be retained and					
		the natural pool-riffle sequence					
		should be re-created in the new					
		channel bed.					
S 7.118	6.7	<ul> <li>All works carried out within the</li> </ul>	To minimise sedimentation/	Contractor	Whole Site	Construction	EIAO-TM
		the river channel of Wai Ha River	water quality impacts			Phase	
		should be carried out from October					
		to April, with construction carried out					
		by land-based plant.					
		<ul><li>Works within river/stream</li></ul>					
		channels should be restricted to an					
		enclosed dry section of the river,					
		with containment measures such as					
		bunds and barriers used within the					
		river to minimize the impacts upon					
		the downstream water body.					

EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
		Site runoff should be directed					
		towards regularly cleaned and					
		maintained silt traps and oil/grease					
		separators to minimize the risk of					
		sedimentation and pollution of river					
		water.					
		<ul><li>The silt and oil/grease separators</li></ul>					
		should be appropriately designed for					
		the local drainage and ground					
		conditions.					
		To minimize leakage and loss of					
		sediments during excavation in					
		narrow channels, tightly sealed					
		closed grab excavators should be					
		deployed where material to be					
		handled is wet.					
S 7.119	6.8	The construction of the	To protect plant species of	Contractor/	Whole site	Construction	EIAO-TM
		proposed box-culvert would have the	conservation interest	qualified		Phase	
		potential to directly impact a few		botanist/horticu			

EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
		individual of a plant species of		lturalist			
		conservation interest (Hong Kong					
		Pavetta, Pavetta hongkongensis).					
		The affected individuals should be					
		transplanted to a suitable nearby					
		habitats prior to the construction					
		phase.					
		A detailed vegetation survey of					
		the affected species of conservation					
		interest should be conducted by a					
		suitably qualified botanist/ecologist					
		to identify the affected individuals in					
		order to provide details for					
		transplantation scheme.					
		■ Transplantation should be					
		supervised by a suitably qualified					
		botanist/horticulturalist. A detailed					
		transplantation methodology should					
		be formulated during the detailed					
		design stage of this Project.					

EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
S 7.120	6.9	Noise mitigation measures such	To minimise disturbance	Contractor	Whole site	Construction	EIAO-TM
		as the use of quieter construction	impacts.			Phase	
		plant and temporary noise barriers					
		should be implemented to minimize					
		disturbance to habitats adjacent to					
		the works areas.					
		■ Temporary noise barriers should					
		be used during the construction of					
		the box-culvert along Tung Tsz					
		Road, the floodwater pumping					
		station, the mechanical gate, and					
		drainage pipe to minimize potential					
		construction phase disturbance to					
		ardeids and avifauna foraging in					
		marsh habitat.					
		Noise generating construction					
		works near the Shuen Wan Egretry					
		SSSI should be avoided as far as					
		practicable during the breeding					
		season (March to June) of the					

EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
		ardeids.					
		<ul><li>Works near the SSSI (i.e.</li></ul>					
		installation of mechanical gate)					
		should be restricted to be executed					
		outside the breeding season by					
		provision of special conditions in the					
		contract document.					
		<ul><li>Hoardings with minimum height</li></ul>					
		of 2m should be set up along the					
		south side of the proposed box					
		culvert works area adjacent to the					
		marsh, extending at least 20m at					
		both ends, throughout the					
		construction period.					
S 7.121	6.10	Placement of equipment or	To minimise disturbance to	Contractor	Whole site	Construction	EIAO-TM
		stockpile in designated works areas	habitats.			Phase	
		and access routes selected on					
		existing disturbed land to minimise					
		disturbance to natural or					

EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
		moderate-high ecological value					
		habitats.					
S 7.121	6.10	<ul> <li>Construction activities should be</li> </ul>	To minimise disturbance to	Contractor	Whole site	Construction	EIAO-TM
		restricted to work areas that would	natural habitats outside			Phase	
		be clearly demarcated. The work	works area.				
		areas should be reinstated after					
		completion of the works.					
S 7.121	6.10	<ul> <li>Waste skips should be provided</li> </ul>	To minimise disturbance to	Contractor	Whole site	Construction	EIAO-TM
		to collect general refuse and	habitats.			Phase	
		construction wastes. The wastes					
		would be disposed of timely and					
		properly off-site.					
S 7.121	6.10	General drainage arrangements	To minimise sedimentation/	Contractor	Whole site	Construction	EIAO-TM
		should include sediment and oil	water quality impacts			Phase	
		traps to collect and control					
		construction site run-off.					
S 7.121	6.10	Open burning on works sites is	To prevent accidental	Contractor	Whole site	Construction	EIAO-TM
		illegal, and should be strictly	hill-fires.			Phase	
		prohibited.					

EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
S 7.122	6.11	<ul><li>De-silting should be limited to the</li></ul>	To minimise sedimentation/	Maintenance	Whole site	Operation	EIAO-TM
		dry season.	water quality impacts	parties of the		Phase	
				channel			
S 7.122	6.11	<ul> <li>Waste material produced during</li> </ul>	To minimise sedimentation/	Maintenance	Whole site	Operation	EIAO-TM
		de-silting should be disposed of in a	water quality impacts	parties of the		Phase	
		timely and appropriate manner.		channel			
S 7.123	6.12	■ Planting of trees should be	To compensate the loss of	Contractor	Whole site	Construction	EIAO-TM
		provided within the project area to	vegetation			Phase	
		compensate for the unavoidable					
		loss of approximately 0.08ha					
		secondary woodland habitat due to					
		the Project.					
		<ul><li>Planting of trees and other</li></ul>					
		vegetation within project area along					
		the banks of Wai Ha River and Tung					
		Tsz Road should be carried out to					
		provide compensation for					
		unavoidable tree-felling and loss of					
		riparian vegetation resulting from the					

EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
		Project.					
		<ul><li>The compensatory planting</li></ul>					
		should make use of native plant					
		species with flowers/fruits attractive					
		to wildlife.					
S 7.124	6.13	<ul> <li>Compensation would be required</li> </ul>	To compensate the loss of	Contractor /	The recreational	Construction	EIAO-TM
		for the loss of a small area of marsh	marsh habitat and enhance	qualified	fish pond located	Phase	
		habitat (about 0.30ha) within the CA	the quality compensatory	ecologist	to the southwest		
		resulting from the construction of the	habitat		of the existing		
		box-culvert.			Tung Tsz Nursery		
		An existing low ecological value					
		recreational fishpond on government					
		land adjacent to the marsh would be					
		used as a proposed area (about					
		0.8ha) for the compensation for the					
		marsh as well as secondary					
		woodland habitats loss (0.08ha).					
		■ The pond should be enhanced					
		by removing boardwalks around the					

EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
		existing pond, and restoring					
		vegetation along the pond bunds,					
		and it would be re-profiled to provide					
		areas of shallow water					
		(approximately 15-50cm deep),					
		creating a suitable foraging habitat					
		for avifauna, particularly ardeids and					
		other waders.					
		<ul><li>Screen planting of shrubs and</li></ul>					
		trees along the south-eastern bund					
		of the pond should be implemented					
		to minimise disturbance to avifauna					
		and other wildlife from the adjacent					
		recreational fishpond. The enhanced					
		pond is expected to provide a					
		moderate-high ecological value					
		wetland habitat.					

EIA Ref.	EM&A	Recommended Mitigation	Objectives of the	Who to	Location of the	When to	What requirements
	Ref.	Measures	Recommended Measure &	implement the	measure	implement the	or standards for the
			Main Concern to Address	measure?		measure?	measure to
							achieve?
F		Landscape and Visual					
Table 8.4	7.6	Visual screen, contaminant/ liaison with nursery, protection of existing trees with works area and construction light are used or practiced to mitigate the impacts during construction phase.	To mitigate the landscape	Contractor	Whole site	Construction	EIAO-TM
Table 8.4	7.7	Viewing area formation, architectural design for pump house, landscape design for pump house, enhancement planting along Tung Tsz Road, sufficient soil depth for enhancement planting, transplanting of trees to adjacent locations, preparation for transplanting and reinstatement of affected area are practiced to mitigate the impacts during operational phase.	To mitigate the landscape and visual impacts during the operational phase.	Contractor	Whole site	Detail Design / Operational Phase	EIAO-TM





A)

The recommend mitigation measures of EM&A manual (revision 3)

B)

Implementation status of environmental protection and mitigation measures

# B) Implementation status of environmental protection and mitigation

EM&A Ref.	Recommended Mitgation Measures	Objectives of the Recommended Measure & main concern to Address	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Implementation status
	Use well maintained construction plant					Implemented
	Shut down plants between work periods					Implemented
2.18	Install silencers on construction equipment		Works areas			Implemented
	Locate mobile plant far away from NSRs	To minimize construction noise impact		Construction phase	EIAO-TM NCO	Implemented
	Quiet plants should be used					Implemented
2.19	Use of quieter PME					Not applicable
2.20 - 2.21	Use of temporary noise barrier		Pipe laying in Wai Ha			Not applicable
2.22	Use of alternative quieter construction method		Part of the Works Pipe laying in Wai Ha			Not applicable
2.23 – 2.24	Use of noise enclosure		Pipe laying in Wai Ha			Not applicable

EM&A Ref.	Recommended Mitgation Measures	Objectives of the Recommended Measure & main concern to Address	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Implementation status
	Implement regular watering and vehicle washing facilities					Outstandinng
3.5	Cover excavated or stockpile of dusty material by impervious sheeting or sprayed with water	To minimize construction dust impact	Construction Site	Construction phase	EIAO-TM	Implemented
	Use tarpaulin to cover dusty materials on vehicles					Implemented
4.5	Provide silt trap and oil interceptor to remove the oil, lubricants, grease, silt, grit and debris from the wastewater before pumped to the public storm water drainage system					Implemented
4.5	During rainstorms, exposed slope/soil surfaces shall be covered by a tarpaulin or other means. Others measures that need to be implemented before, during, and after rainstorms as summarized in ProPECC PN 1/94 shall be followed	To minimize water quality impact	Construction Site	Construction phase	EIAO-TM WPCO	Not applicable

EM&A	Recommended	Objectives of the	Location of the	When to implement	What requirements	Implementation status
Ref.	Mitgation Measures	Recommended	measure	the measure?	or standards for the	
		Measure & main			measure to achieve?	
		concern to Address				
4.10	Provide site toilet facilities	To minimize water quality			EIAO-TM	Implemented
		impact	Construction Site	Construction phase	WPCO	
4.7	Further precautionary measures during rainy season:  For the construction of the box culvert next to the existing channel of the Wai Ha River, sand bags should be deployed around the boundary of the works trench to prevent muddy water ingress into the adjacent CA or Wai Ha River. Sand bags should also be used to surround the excavated trench. Generally, the sand bags will be placed up to a height of 300mm to provide adequate allowance for the built-up water level during rainstorm event. With sand bags in place, surface runoff will be intercepted and flow to Wai Ha River or collected by the existing drainage system as usual.  For the construction of the box culvert in the extreme northeast corner of Shuen Wan Marsh Conservation Area sand bags should be deployed along the limit of the works area to prevent muddy water ingress into the CA. Sand bags should be placed to a height of at least 300mm from round level and +2.5 mPD (whichever is greater) to provide adequate allowance	To minimize water quality impact to the designated  Conservation Area	Works areas near the Conservation Area	Rainy seasons during construction	EIAO-TM WPCO	Not applicable

EM&A	Recommended	Objectives of the	Location of the	When to implement	What requirements	Implementation status
Ref.	Mitgation Measures	Recommended	measure	the measure?	or standards for the	
		Measure & main			measure to achieve?	
		concern to Address				
	for the built-up water level during rainstorm events. Unpolluted surface runoff within the works area should then be collected and directed into the existing drainage system.					
	Sheet-piles, which would be installed around the works trench near the Conservation Area, would be extended above ground level for about 2m to serve as hoardings to isolate the works site.					
	Tarpulin sheets would be used to cover the excavation areas during heavy rainstorms.  This would prevent the ingress of rainwater into the trench minimising the risk of muddy water getting into Wai Ha River and the adjacent Conservation Area.					
	Any concrete washing water would be contained inside the works site surrounded by the extended sheet piles. A pump sump at the bottom of the trench would be provided to pump any excess water during concrete					
5.9	Reuse excavated material as much as possible					Implemented
5.7	Any unused chemicals or those with remaining functional capacity shall be recycled.	To achieve waste reduction	Works areas	Construction phase	EIAO-TM	Not applicable
	Recycle scrap metals or abandoned equipment					Implemented

EM&A Ref.	Recommended Mitgation Measures	Objectives of the Recommended Measure & main concern to Address	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Implementation status
5.5 5.9 5.11	A recording system for the amount of wastes generated, recycled and disposed should be proposed  Adopt a trip ticket system for the disposal of C&D materials  All general refuse should be segregated and	To reduce waste management impacts	Works areas	Construction phase	ETWB TCW  No. 19/2005  ETWB TCW  NO. 31/2004	Implemented Implemented Implemented
5.10	contractor should be a required to register with the EPD as a Chemical Waste Producer and to follow the guidelines states in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.  Good quality containers compatible with the chemical wastes should be used, and Incompatible chemicals should be stored separately.  Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosives, flammable, oxidizing, irritant, toxic, harmful,	To minimize the environmental impacts associated with the handling, transportation and disposal of chemical waste.	Work site	Construction phase	EIAO-TM Waste Disposal (Chemical Waste)(General) Regulation	Implemented  Not applicable

EM&A Ref.	Recommended Mitgation Measures	Objectives of the Recommended Measure & main concern to Address	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Implementation status
5.5	A recording system for the amount of wastes generated, recycled and disposed should be proposed	To reduce waste management impacts	Works areas	Construction phase	ETWB TCW  No. 19/2005  ETWB TCW  NO. 31/2004	Implemented
6.6	Sheet-pilings, which will be installed around the trench of excavation, should be extended above ground level for ~2m to act as hoarding to isolate the works site.  The trenching works for the construction of the proposed box culvert should be carried out in phases, with a trench length of not more than 120m in each phase. The trench should be backfilled and compacted with suitable materials upon completion of each phase of the construction works.	To minimize the impacts on the steam and natural river bank.	Whole site	Construction phase	EIAO-TM	Implemented
6.6	The construction of intercept oint of twin cell box culvert at the upstream of Wai Ha River should be confined to only one side of the river bank.  To restore and enhance the ecological value of the stream, the affected river bank should be reinstated to its original condition or lined with rock-filled gabion.  Planting pits should be provided in the gabion bank to allow the re-establishment of riparian vegetation.	To minimize the impacts on the steam and natural river bank.	Whole site	Construction phase	EIAO-TM	No applicable

EM&A Ref.	Recommended Mitgation Measures	Objectives of the Recommended Measure & main concern to Address	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Implementation status
	The existing natural riverbed and substrates should be retained and the natural pool-riffle sequence should be re-created in the new channel bed.					
6.7	All works carried out within the the river channel of Wai Ha River should be carried out from October to April, with construction carried out by land-based plant.  Works within river/stream channels should be restricted to an enclosed dry section of the river, with containment measures such as bunds and barriers used within the river to minimize the impacts upon the downstream water body.  Site runoff should be directed towards regularly cleaned and maintained silt traps and oil/grease separators to minimize the risk of sedimentation and pollution of river water.  The silt and oil/grease separators should be appropriately designed for the local drainage and ground conditions.  To minimize leakage and loss of sediments during excavation in narrow channels, tightly sealed closed grab excavators should be deployed where material to be handled is wet.	To minimize sedimentation/ water quality impacts	Whole site	Construction phase	EIAO-TM	No applicable

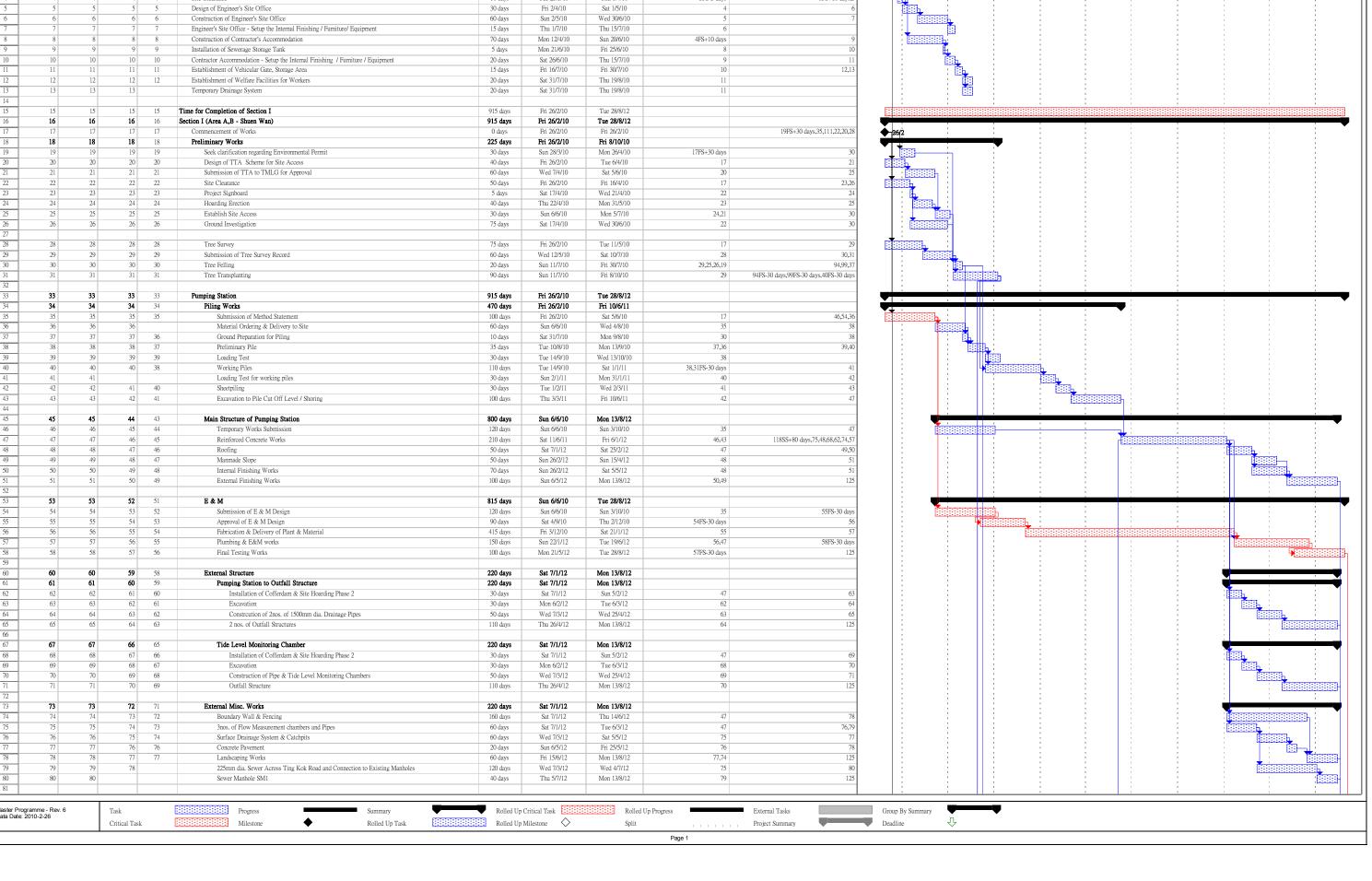
EM&A Ref.	Recommended Mitgation Measures	Objectives of the Recommended Measure & main concern to Address	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Implementation status
6.8	The construction of the proposed box-culvert would have the potential to directly impact a few individual of a plant species of conservation interest (Hong Kong Pavetta, Pavetta hongkongensis). The affected individuals should be transplanted to a suitable nearby habitats prior to the construction phase.  A detailed vegetation survey of the affected species of conservation interest should be conducted by a suitably qualified botanist/ecologist to identify the affected individuals in order to provide details for transplantation scheme.  Transplantation should be supervised by a suitably qualified botanist/horticulturalist. A detailed transplantation methodology should be formulated during the detailed design stage of this Project.	To protect plant species of conservation interest	Whole site	Construction phase	EIAO-TM	No applicable
6.9	Placement of equipment or stockpile in designated works areas and access routes selected on existing disturbed land to minimize disturbance to natural or moderate-high ecological value habitats.	To minimise disturbance to habitats.	Whole site	Construction phase	EIAO-TM	No applicable
6.13	General drainage arrangements should include sediment and oil traps to collect and control construction site run-off.	To minimise sedimentation/ water quality impacts	Whole site	Construction phase	EIAO-TM	Implemented

EM&A Ref.	Recommended Mitgation Measures	Objectives of the Recommended Measure & main concern to Address	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Implementation status
6.13	Construction activities should be restricted to work areas that would be clearly demarcated. The work areas should be reinstated after completion of the works.	To minimise disturbance to natural habitats outside works area.	Whole site	Construction phase	EIAO-TM	Implemented
6.13	Placement of equipment or stockpile in designated works areas and access routes selected on existing disturbed land to minimize disturbance to natural or moderate-high ecological value habitats.	To minimise disturbance to natural habitats	Whole site	Construction phase	EIAO-TM	Implemented
7.6	Visual screen, contaminant/ liaison with nursery, protection of existing trees with works area and construction light are used or practiced to mitigate the impacts during construction phase	To mitigate the landscape and visual impacts during the Construction phase	Whole site	Construction phase	EIAO-TM	Implemented
7.7	Viewing area formation, architectural design for pump house, landscape design for pump hose, enhancement planting along Tung Tsz Road, sufficient soil depth for enhancement planting, transplanting of trees to adjacent locations preparation for transplanting and reinstatement of affected area are practiced to mitigate the impacts during operational phase.	To mitigate the landscape and visual impacts during the operational phase	Whole site	Detail Design / Operational Phase	EIAO-TM	Not Applicable

**Appendix I: Construction programme** 

**Environmental Pioneers and Solutions Limited** 

Contract No.: DC/2009/22 Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1 Master Programme (Rev. 6) O no. in Rev. ID no. in Rev. ter 2nd Quarter 3rd Quarter 4th Quarter 4th Quarter 2nd Quarter 2nd Quarter 3rd Quarter 4th Quarter 1st Quarter 2nd Quarter 5rd Quarter 4th Quarter 2nd Quarter 2nd Quarter 5rd Quarter 4th Quarter 2nd Quarter 2nd Quarter 5rd Quarter 5rd Quarter 2nd Quarter 2nd Quarter 5rd Quarter 5rd Quarter 5rd Quarter 2nd Quarter 2nd Quarter 5rd Quarter 5r Preliminary Works (Area I - Pak Shek Kok) Fri 26/2/10 175 days Thu 19/8/10 3 83 88 10 Commencement of Works 0 days Fri 26/2/10 Fri 26/2/10 Design & Construction of Site Hoarding 4FS-5 day 30 days Fri 26/2/10 Sat 27/3/10 3FS-5 days Site Clearance 10 days Tue 23/3/10 Thu 1/4/10 8FS+10 days, Design of Engineer's Site Office 30 days Fri 2/4/10 Sat 1/5/10 Construction of Engineer's Site Office 60 days Sun 2/5/10 Wed 30/6/10 Engineer's Site Office - Setup the Internal Finishing / Furniture/ Equipment Thu 15/7/10 15 days Thu 1/7/10 4FS+10 days Construction of Contractor's Accommodation 70 days Mon 12/4/10 Sun 20/6/10 Mon 21/6/10 Fri 25/6/10 Installation of Sewerage Storage Tank 5 days Contractor Accommodation - Setup the Internal Finishing / Furniture / Equipment 20 days Sat 26/6/10 Thu 15/7/10 Establishment of Vehicular Gate, Storage Area 15 days Fri 16/7/10 Fri 30/7/10 12 Establishment of Welfare Facilities for Workers Sat 31/7/10 Thu 19/8/10 20 days Sat 31/7/10 Thu 19/8/10 Temporary Drainage System 20 days Time for Completion of Section I 915 days Fri 26/2/10 Tue 28/8/12 Section I (Area A,B - Shuen Wan) 915 days Fri 26/2/10 Tue 28/8/12 Fri 26/2/10 Fri 26/2/10 19FS+30 days,35,111,22,20,28 Preliminary Works 225 days Fri 26/2/10 Fri 8/10/10 Seek clarification regarding Environmental Permit 17FS+30 days Sun 28/3/10 Mon 26/4/10 30 days Design of TTA Scheme for Site Access 40 days Fri 26/2/10 Tue 6/4/10 Submission of TTA to TMLG for Approval 60 days Sat 5/6/10 Site Clearance 50 days Fri 26/2/10 Fri 16/4/10 Project Signboard Sat 17/4/10 Wed 21/4/10 Thu 22/4/10 Mon 31/5/10 Hoarding Erection 40 days Establish Site Access 30 days Sun 6/6/10 Mon 5/7/10 24,21 Ground Investigation 75 days 75 days Fri 26/2/10 Tue 11/5/10 Submission of Tree Survey Record 60 days Wed 12/5/10 Sat 10/7/10 Tree Felling Sun 11/7/10 Fri 30/7/10 94,99,3 94FS-30 days,99FS-30 days,40FS-30 day Tree Transplanting 90 days Sun 11/7/10 Fri 8/10/10 915 days Fri 26/2/10 Tue 28/8/12 Piling Works 470 days Fri 26/2/10 Fri 10/6/11 100 days Fri 26/2/10 Sat 5/6/10 46,54,36 Material Ordering & Delivery to Site 60 days Sun 6/6/10 Wed 4/8/10 Ground Preparation for Piling 10 days Sat 31/7/10 Mon 9/8/10 Preliminary Pile 35 days Tue 10/8/10 Mon 13/9/10 37.36 39.40 Loading Test 30 days Tue 14/9/10 Wed 13/10/10 38.31FS-30 days Working Piles 110 days Tue 14/9/10 Sat 1/1/11 Loading Test for working piles 30 days Sun 2/1/11 Mon 31/1/11 Sheetpiling 30 days Tue 1/2/11 Wed 2/3/11 Excavation to Pile Cut Off Level / Shoring 100 days Thu 3/3/11 Fri 10/6/11 43 Main Structure of Pumping Station 800 days Sun 6/6/10 Mon 13/8/12 44 Temporary Works Submission 120 days Sun 6/6/10 Sun 3/10/10 118SS+80 days.75.48.68.62.74.5 Reinforced Concrete Works 210 days Sat 11/6/11 Fri 6/1/12 46.43 Roofing 50 days Sat 7/1/12 Sat 25/2/12 Manmade Slope 50 days Sun 26/2/12 Sun 15/4/12 48 Internal Finishing Works 70 days Sun 26/2/12 Sat 5/5/12 50,49 External Finishing Works 100 days Sun 6/5/12 Mon 13/8/12 E & M Tue 28/8/12 815 days Sun 6/6/10 52 Submission of E & M Design 55FS-30 days 52. 120 days Sun 6/6/10 Sun 3/10/10 54FS-30 days Approval of E & M Design 90 days Sat 4/9/10 Thu 2/12/10 Fabrication & Delivery of Plant & Material 415 days Fri 3/12/10 Sat 21/1/12 58FS-30 day Plumbing & E&M works 150 days Sun 22/1/12 Tue 19/6/12 57FS-30 days 56 Final Testing Works 100 days Mon 21/5/12 Tue 28/8/12 External Structure 220 days Sat 7/1/12 Mon 13/8/12 Pumping Station to Outfall Structure 220 days Sat 7/1/12 Mon 13/8/12 Installation of Cofferdam & Site Hoarding Phase 2 Sat 7/1/12 Sun 5/2/12 30 days 30 days Mon 6/2/12 Tue 6/3/12 Constrcution of 2nos. of 1500mm dia. Drainage Pipes 50 days Wed 7/3/12 Wed 25/4/12 63 2 nos. of Outfall Structures 110 days Thu 26/4/12 Mon 13/8/12 65 Tide Level Monitoring Chamber 220 days Sat 7/1/12 Mon 13/8/12 Installation of Cofferdam & Site Hoarding Phase 2 Sat 7/1/12 Sun 5/2/12 30 days Tue 6/3/12 30 days Construction of Pipe & Tide Level Monitoring Chambers 50 days Wed 7/3/12 Wed 25/4/12 Outfall Structure 110 days Mon 13/8/12



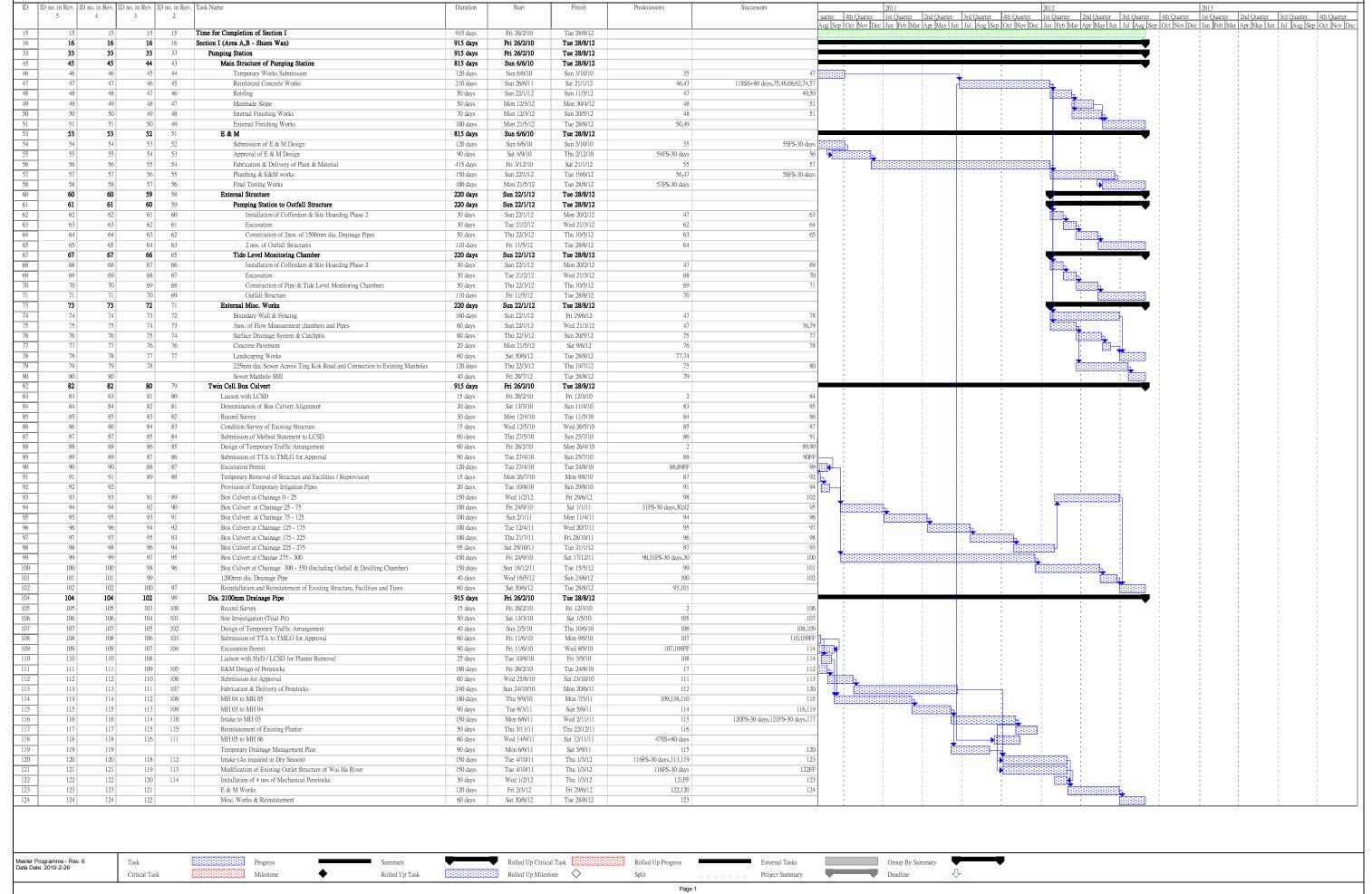
Contract No.: DC/2009/22
Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

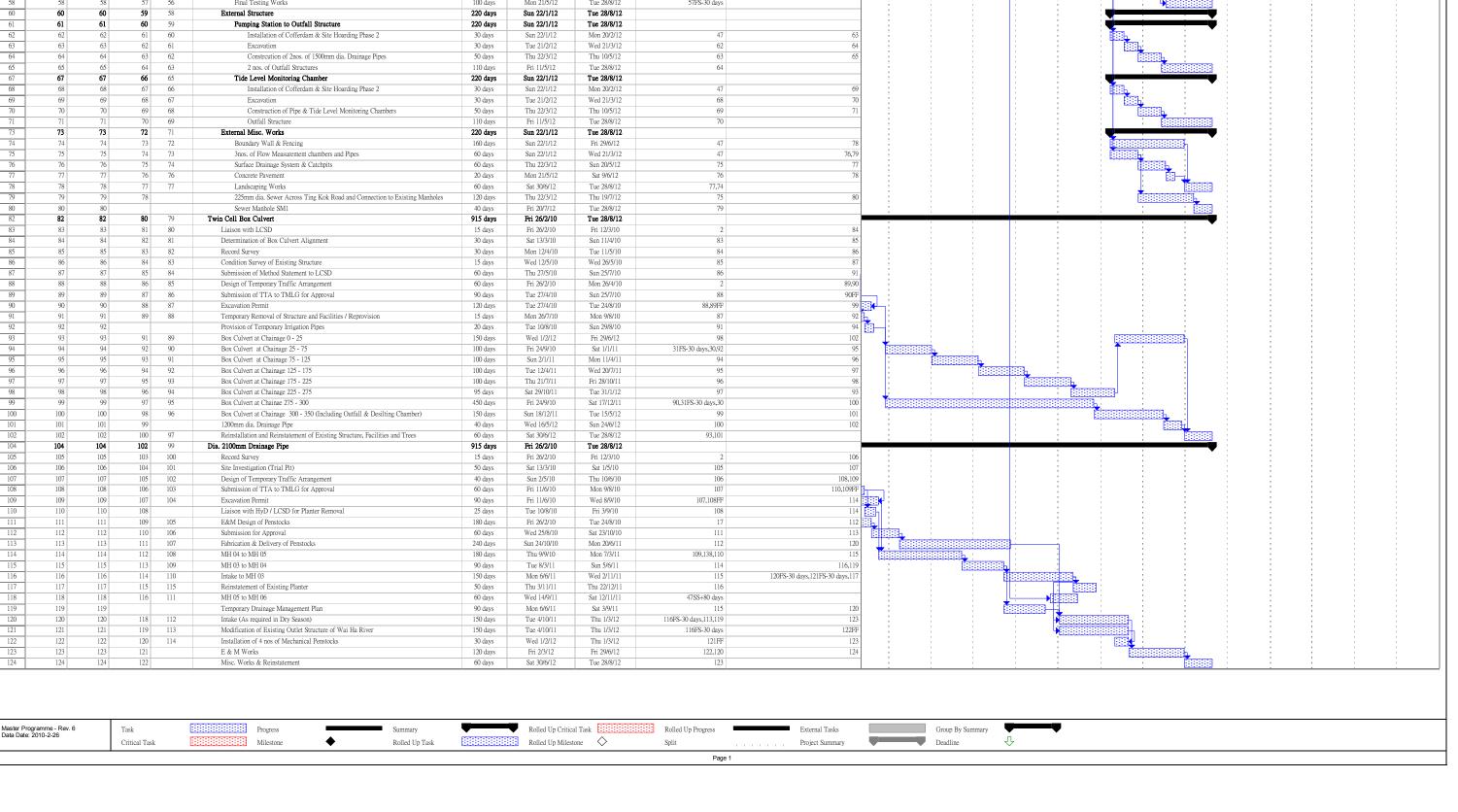
Master Programme ( Rev. 6)

								<u>Ma</u>	aster Programme ( Rev. 6)		
ID ID no. in I	Rev. ID no	no. in Rev. ID no	o. in Rev. ID	no. in Rev.	Task Name	Duration	Start	Finish	Predecessors	Successors	2010 2011 2012
5		4	3	2						į.	St Quarter   2nd Quarter   3nd Quarter   3nd Quarter   4th Quarter   5th Quarter   5
00	90	90	90	79	Twin Cell Box Culvert	900 days	Fri 26/2/10	Mon 13/8/12			Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep
82	83	82	80	.,	Liaison with LCSD	-		Fri 12/3/10	2	94	Martin
83	84	83	81	80	Determination of Box Culvert Alignment	15 days	Fri 26/2/10 Sat 13/3/10	Sun 11/4/10	83	84	
04	85	04	82	81	Record Survey	30 days	Mon 12/4/10	Tue 11/5/10	84	85	
85	85	85	83	83	Condition Survey of Existing Structure	30 days 15 days	Wed 12/5/10	Wed 26/5/10	84	80	
86	07	00	84	84	Submission of Method Statement to LCSD	60 days	Thu 27/5/10	Sun 25/7/10	8.2	01	
88	88	88	86	85	Design of Temporary Traffic Arrangement	60 days	Fri 26/2/10	Mon 26/4/10	80	89.90	
	89	00	87	86	Submission of TTA to TMLG for Approval	90 days	Tue 27/4/10	Sun 25/7/10	88	90FF	
89	90	00	88	87	Excavation Permit	120 days	Tue 27/4/10	Tue 24/8/10	88,89FF	9011	
	91	90	89		Temporary Removal of Structure and Facilities / Reprovision	-	Mon 26/7/10	Mon 9/8/10	87	99	
91	91	91	89	88	Provision of Temporary Irrigation Pipes	15 days 20 days	Tue 10/8/10	Sun 29/8/10	91	92	
93	92	92	91	89	Box Culvert at Chainage 0 - 25	150 days	Tue 17/1/12	Thu 14/6/12	91	100	
93	93	93	91	90	Box Culvert at Chainage 0 - 25  Box Culvert at Chainage 25 - 75	100 days	Thu 9/9/10	Fri 17/12/10	31FS-30 days,30,92	05	Temperature   Essential Es
95	05	05	92	90	Box Culvert at Chainage 25 - 75  Box Culvert at Chainage 75 - 125	100 days	Sat 18/12/10	Sun 27/3/11	51FS-50 days,50,92	95	
96	96	93	93	92	Box Culvert at Chainage 75 - 125  Box Culvert at Chainage 125 - 175	100 days	Mon 28/3/11	Tue 5/7/11	94	90	50000000000000000000000000000000000000
97	07	90	95	92	Box Culvert at Chainage 125 - 175  Box Culvert at Chainage 175 - 225	100 days	Wed 6/7/11	Thu 13/10/11	95	97	
98	00	00	96	94	Box Culvert at Chainage 225 - 275	95 days	Fri 14/10/11	Mon 16/1/12	90	78	
99	00	96	97	95	Box Culvert at Chainage 225 - 275  Box Culvert at Chainae 275 - 300	450 days	Thu 9/9/10	Fri 2/12/11	90,31FS-30 days,30	100	
100	100	100	98	95	Box Culvert at Chainage 300 - 350 (Including Outfall & Desilting Chamber)	450 days	Sat 3/12/11	Mon 30/4/12	90,51FS-30 days,30	100	# 1000 1000 1000 1000 1000 1000 1000 10
101	101	100	98	90	1200mm dia. Drainage Pipe	40 days	Tue 1/5/12	Sat 9/6/12	100	101	Estation in the control of the contr
102	102	101	100	97	Reinstallation and Reinstatement of Existing Structure, Facilities and Trees	60 days	Fri 15/6/12	Mon 13/8/12	93,101	125	ISSESSED
103	102	102	100		Remarkation and remarkationest of Existing Structure, Facilities and Trees	00 days	111 13/0/12	WOII 15/0/12	95,101	123	
	104	104	102	99	Dia. 2100mm Drainage Pipe	915 days	Fri 26/2/10	Tue 28/8/12			
105	105	105	103	100	Record Survey	15 days	Fri 26/2/10	Fri 12/3/10	2	106	Marian
106	106	106	104	101	Site Investigation (Trial Pit)	50 days	Sat 13/3/10	Sat 1/5/10	105	107	
107	107	107	105	102	Design of Temporary Traffic Arrangement	40 days	Sun 2/5/10	Thu 10/6/10	106	108,109	Control   Cont
108	108	108	106	103	Submission of TTA to TMLG for Approval	60 days	Fri 11/6/10	Mon 9/8/10	107	110,109FF	
109	109	109	107	104	Excavation Permit	90 days	Fri 11/6/10	Wed 8/9/10	107,108FF	114	
110	110	110	108		Liaison with HyD / LCSD for Planter Removal	25 days	Tue 10/8/10	Fri 3/9/10	108	114	
	111	111	109	105	E&M Design of Penstocks	180 days	Fri 26/2/10	Tue 24/8/10	17	112	
	112	112	110	106	Submission for Approval	60 days	Wed 25/8/10	Sat 23/10/10	111	113	\$1555555h
	113	113	111	107	Fabrication & Delivery of Penstocks	240 days	Sun 24/10/10	Mon 20/6/11	112	120	
114	114	114	112	108	MH 04 to MH 05	180 days	Thu 9/9/10	Mon 7/3/11	109,110	115	
115	115	115	113	109	MH 03 to MH 04	90 days	Tue 8/3/11	Sun 5/6/11	114	116,119	
116	116	116	114	110	Intake to MH 03	150 days	Mon 6/6/11	Wed 2/11/11	115	120FS-30 days,121FS-30 days,117	
117	117	117	115	115	Reinstatement of Existing Planter	50 days	Thu 3/11/11	Thu 22/12/11	116	3 / 23,434	
118	118	118	116	111	MH 05 to MH 06	60 days	Tue 30/8/11	Fri 28/10/11	47SS+80 days		
	119	119			Temporary Drainage Management Plan	90 days	Mon 6/6/11	Sat 3/9/11	115	120	
120	120	120	118	112	Intake (As required in Dry Season)	150 days	Tue 4/10/11	Thu 1/3/12	116FS-30 days,113,119	123	
121	121	121	119	113	Modification of Existing Outlet Structure of Wai Ha River	150 days	Tue 4/10/11	Thu 1/3/12	116FS-30 days	122FF	
	122	122	120	114	Installation of 4 nos of Mechanical Penstocks	30 days	Wed 1/2/12	Thu 1/3/12	121FF	123	
122	122							W. I. 40.1514.4	100 100	10.1	
	123	123	121		E & M Works	120 days	Fri 2/3/12	Fri 29/6/12	122,120	124	
			121 122		E & M Works Misc, Works & Reinstatement	120 days 60 days	Fri 2/3/12 Sat 30/6/12	Tue 28/8/12	122,120	124	28/



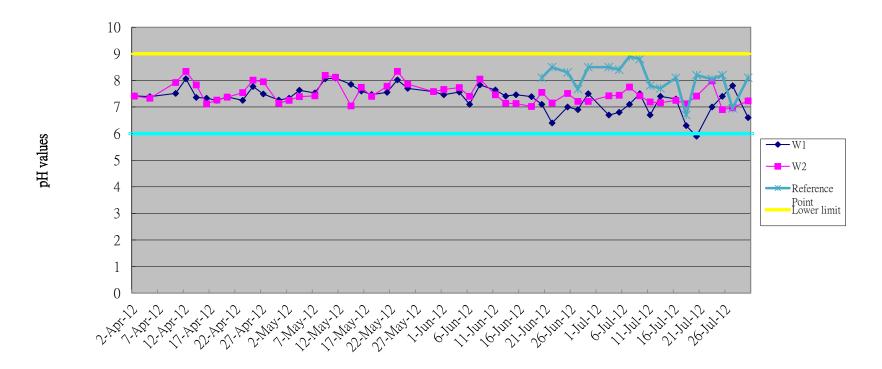
Contract No.: DC/2009/22 Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1 Master Programme (Rev. 6) rter 4th Quarter 1st Quarter 2nd Quarter 3rd Quarter 4th Quarter 1st Quarter 2nd Quarter 3rd Quarter 4th Quarter 4th Quarter 3rd Quarter 4th Quarter 3rd Quarter 3 uarter 4th Quarter 1st Quarter 2nd Quarter 3rd Quarter 4th Quarter Time for Completion of Section 1 915 day Fri 26/2/10 Tue 28/8/12 Section I (Area A.B. - Shuen Wan) 915 days Fri 26/2/10 Tue 28/8/12 33 33 Pumping Station 915 days Pri 26/2/10 Tue 28/8/12 Main Structure of Pumping Station 815 days Sun 6/6/10 Tue 28/8/12 Temporary Works Submission 120 days Sun 6/6/10 Sun 3/10/10 118SS+80 days,75,48,68,62,74,5 Reinforced Concrete Works 210 days Sun 26/6/11 Sat 21/1/12 46.43 50 days Roofing Sun 22/1/12 Sun 11/3/12 Manmade Slope 50 days Mon 12/3/12 Mon 30/4/12 Internal Finishing Works 70 days Sun 20/5/12 Mon 12/3/12 External Finishing Works 100 days Mon 21/5/12 Tue 28/8/12 50.49 53 52 E & M 815 days Sun 6/6/10 Tue 28/8/12 Submission of E & M Design 55FS-30 day 120 days Sun 6/6/10 Sun 3/10/10 54FS-30 days Approval of E & M Design Thu 2/12/10 90 days Sat 4/9/10 54 Fabrication & Delivery of Plant & Material 415 days Fri 3/12/10 Sat 21/1/12 Plumbing & E&M works 150 days Tue 19/6/12 58FS-30 day Sun 22/1/12 Final Testing Works 100 days Tue 28/8/12 57FS-30 days Mon 21/5/12 External Structure 220 days Sun 22/1/12 Tue 28/8/12 60 Pumping Station to Outfall Structure 220 days Sun 22/1/12 Tue 28/8/12 Installation of Cofferdam & Site Hoarding Phase 2 30 days Sun 22/1/12 Mon 20/2/12 30 days Tue 21/2/12 Wed 21/3/12 Constrcution of 2nos. of 1500mm dia. Drainage Pipes 50 days Thu 22/3/12 Thu 10/5/12 2 nos. of Outfall Structures 110 days Tide Level Monitoring Chamber Sun 22/1/12 Tue 28/8/12 220 days Installation of Cofferdam & Site Hoarding Phase 2 30 days Mon 20/2/12 30 days Tue 21/2/12 Wed 21/3/12 Construction of Pipe & Tide Level Monitoring Chambers Thu 10/5/12 50 days Thu 22/3/12 Outfall Structure Tue 28/8/17 External Misc. Works Sun 22/1/12 Tue 28/8/12 Boundary Wall & Fencing 160 days Sun 22/1/12 Fri 29/6/12 3nos. of Flow Measurement chambers and Pipes 60 days Sun 22/1/12 Wed 21/3/12 Surface Drainage System & Catchpits 60 days Thu 22/3/12 Sun 20/5/12 Concrete Pavement 20 days Mon 21/5/12 Sat 9/6/12 Landscaping Works 60 days Sat 30/6/12 Tue 28/8/12 77.74 225mm dia. Sewer Across Ting Kok Road and Connection to Existing Manholes 120 days Thu 22/3/12 Thu 19/7/12 Sewer Manhole SM1 40 days Fri 20/7/12 Tue 28/8/12 82 Twin Cell Box Culvert 915 days Fri 26/2/10 Tue 28/8/12 Liaison with LCSD 15 days Fri 26/2/10 Fri 12/3/10 Determination of Box Culvert Alignment 30 days Sat 13/3/10 Sun 11/4/10 Record Survey 30 days Mon 12/4/10 Tue 11/5/10 Condition Survey of Existing Structure 15 days Wed 12/5/10 Wed 26/5/10 84 Submission of Method Statement to LCSD 60 days Thu 27/5/10 Sun 25/7/10 Design of Temporary Traffic Arrangement 60 days Fri 26/2/10 Mon 26/4/10 Submission of TTA to TMLG for Approval 90 days Tue 27/4/10 Sun 25/7/10 90FF 88 89FF Excavation Permit 120 days Tue 27/4/10 Tue 24/8/10 88 Temporary Removal of Structure and Facilities / Reprovision 15 days Mon 26/7/10 Mon 9/8/10 Provision of Temporary Irrigation Pipes 20 days Tue 10/8/10 Sun 29/8/10

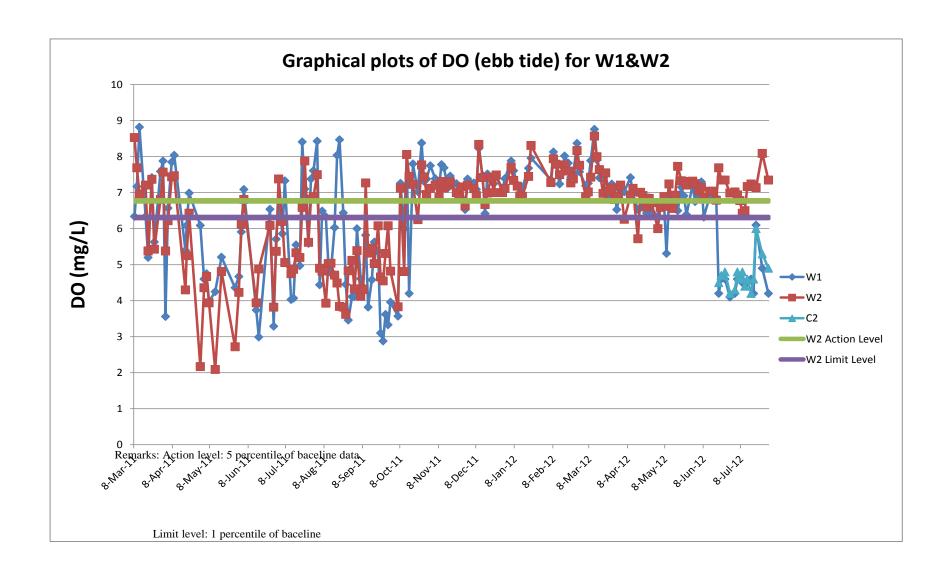


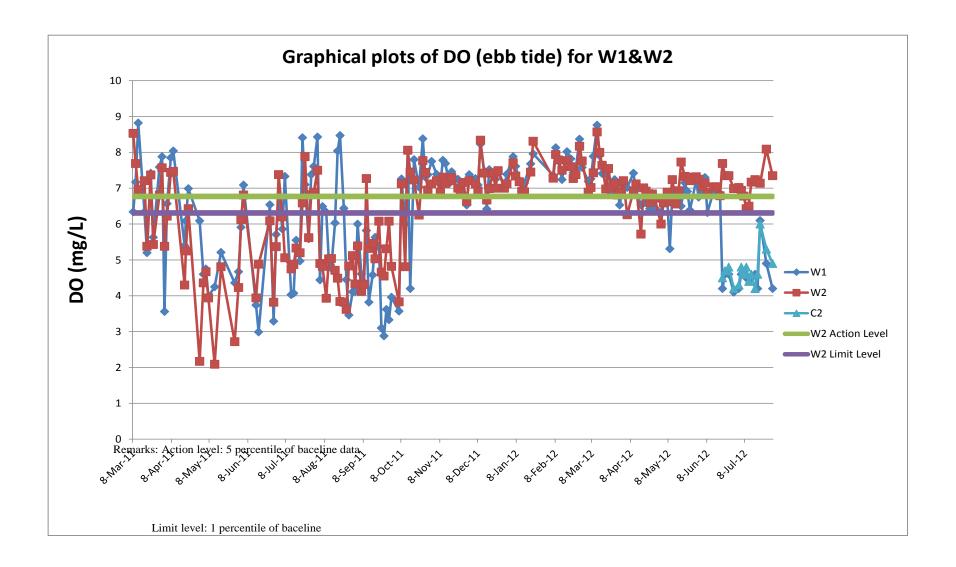




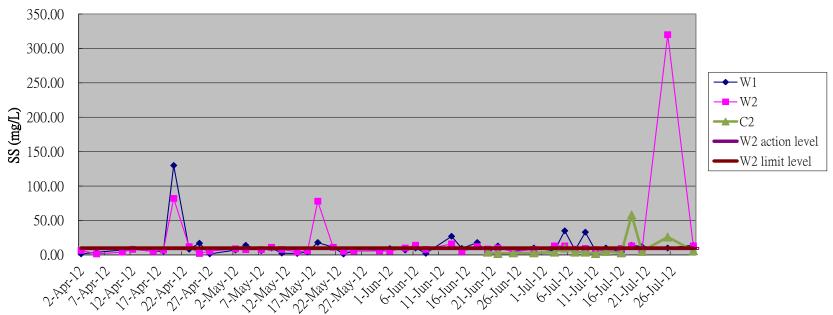
# Graphical plots of pH values W1&W2





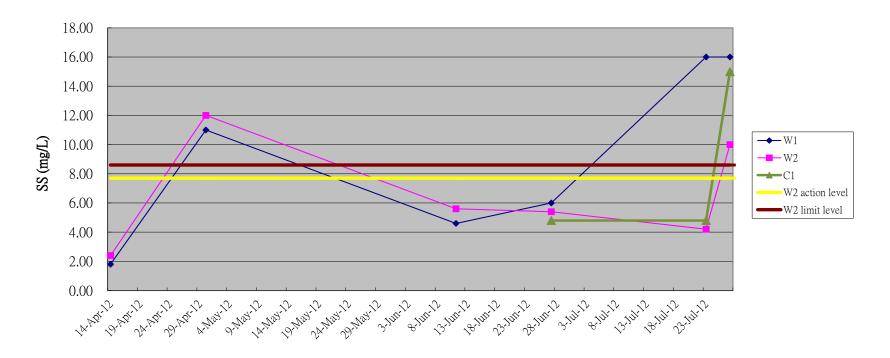


# Graphical plots of SS (ebb tide) for W1&W2

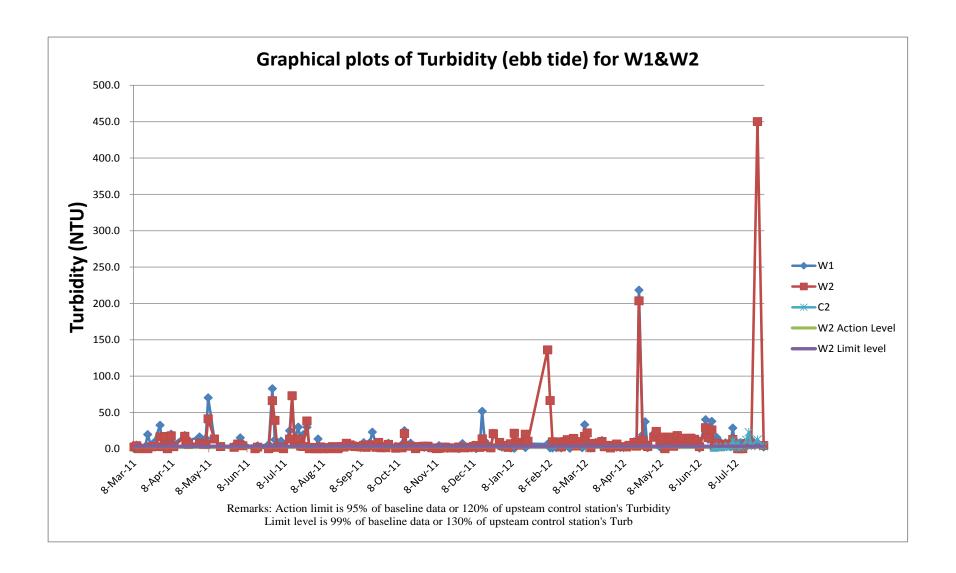


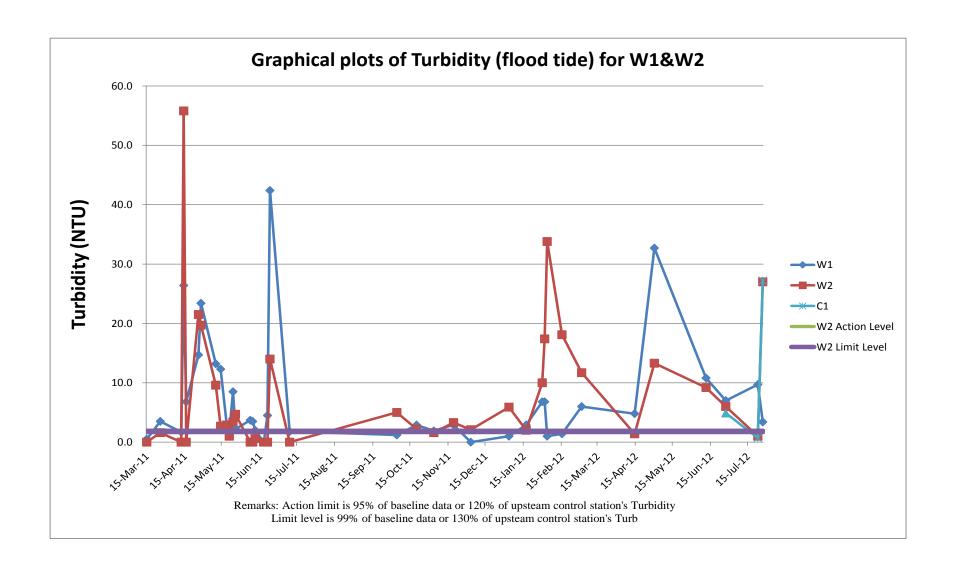
Remarks: Action limit is 95% of baseline data or 120% of upsteam control station's SS Limit level is 99% of baseline data or 130% of upsteam control station's SS

# Graphical plots of SS (flood tide) for W1&W2

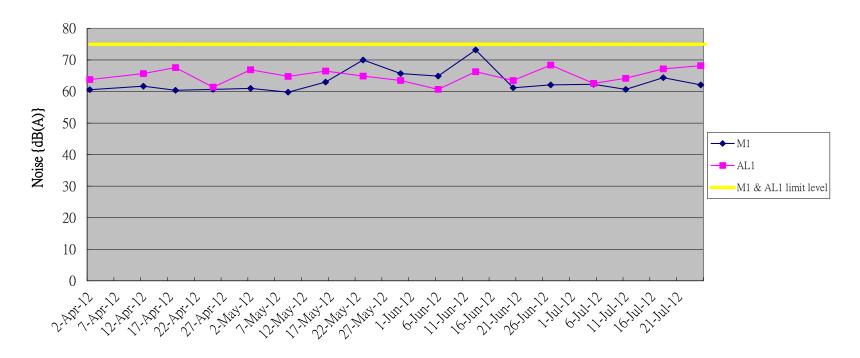


Remarks: Action limit is 95% of baseline data or 120% of upsteam control station's SS Limit level is 99% of baseline data or 130% of upsteam control station's SS



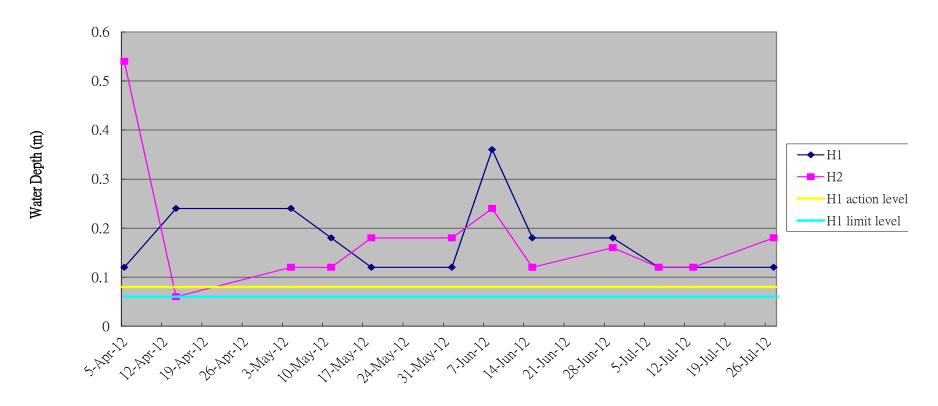


# Graphical plots of Noise for M1 & AL1



Remarks: Action limit is when one documented complaint is received

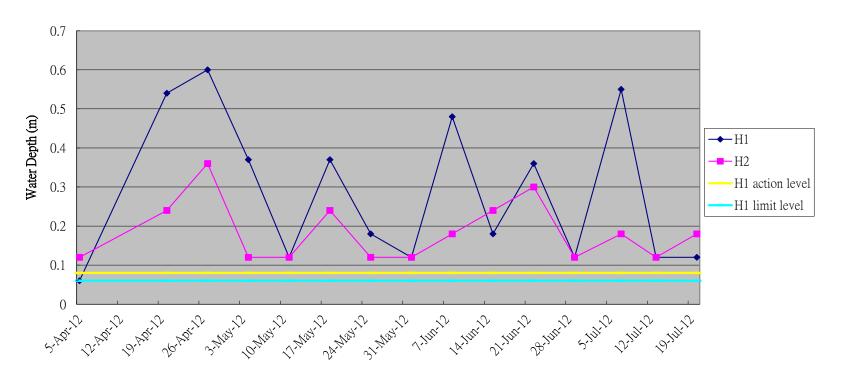
Graphical plots of Hydrological Monitoring(water depth at flood tide) for H1 & H2



Remarks: Action level: 80% of baseline water depth.

Limit level: 60% of baseline water depth.

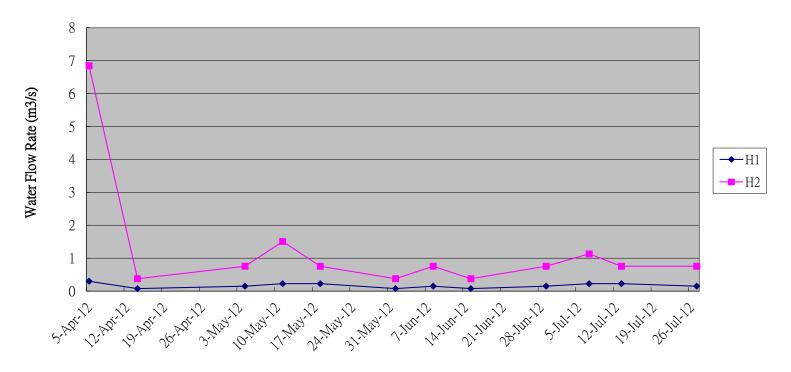
Graphical plots of Hydrological Monitoring(water depth at ebb tide) for H1 & H2



Remarks: Action level: 80% of baseline water depth.

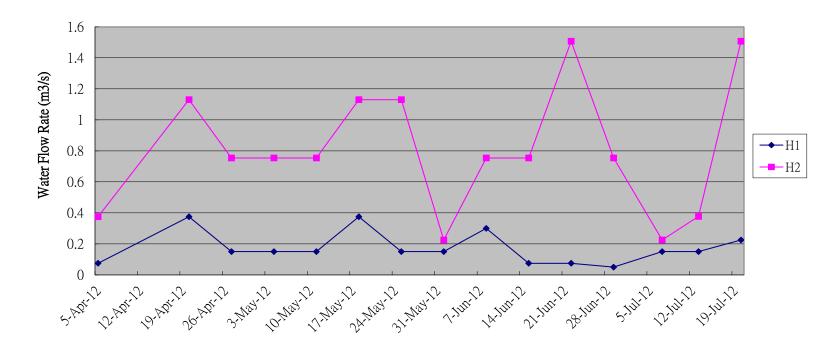
Limit level: 60% of baseline water depth.

Graphical plots of Hydrological Monitoring(water flow rate at flood tide) for H1 & H2



Remarks: Action level: 120% of control station's water flow rate on the same day of measurement. Limit level: 140% of control station's water flow rate on the same day of measurement.

Graphical plots of Hydrological Monitoring(water flow rate at ebb tide) for H1 & H2



Remarks: Action level: 120% of control station's water flow rate on the same day of measurement. Limit level: 140% of control station's water flow rate on the same day of measurement.

Appendix L.
A). List of recorded vegetation and relative abundance in the Ecological
Compensatory Area (ECA) during construction phase in May 2012.
B). List of transplanted trees in the Ecological Compensatory Area (ECA) during construction phase in May 2012.
C). Condition of transplanted species Pavetta hongkongensis in ECA since 20 th Dec 2011

**Appendix L (A).** List of recorded vegetations and relative abundance in the ECA during establishment phase in June 2012.

Species	*Status in Hong Kong	Growth form	<sup>1</sup> Status in ECA	<sup>2</sup> Relative abundance	Condition
Bidens bipinnata	Е	Herbs	S	+	Fair
Panicum maximum	Е	Herbs	S	+	Fair
Celtis sinensis	N	Trees	S	+	Fair
Terminalia catappa	Е	Trees	R	+	Fair
Cocculus orbiculatus	N	Climbers	R	+	Fair
Mangifera indica	Е	Trees	R	+	Fair
Dimocarpus longan	Е	Trees	R	+	Fair
Michelia x alba	Е	Trees	R	+	Fair
Oxalis corniculata	N	Herbs	S	+	Fair
Stephania longa	N	Climbers	S	+	Fair
Leucaena leucocephala	Е	Shrubs	S	+	Fair
Amaranthus viridis	N	Herbs	S	+	Fair
Solanum nigrum	N	Herbs	S	+	Fair
Paspalum dialatum	Е	Perennial Herb	S	+	Fair
Mikania micrantha	Е	Climbing Herb	S	+	Fair
Macaranga tanarius	N	Tree	R	+	Fair
Cassia surattensis	Е	Shrub or Small Tree	S	+	Fair
Conyza sumatrensis	Е	Herb	S	+	Fair

Sansevieria trifasciata Prain	Е	Perennial Herb	S	+	Fair
Alocasia odora	N	Perennial Herb	S	+	Fair
Livistona chinensis	Е	Tree Palm	S	+	Fair
c.f. Ulothrix sp.	N	Algae	S	+	Fair
Enteromorpha sp.	N	Algae	S	+	Fair
Total number of species	23				

Key:

\*Status in Hong Kong

E = Exotic

N = Native

<sup>1</sup>Status in ECA:

<sup>2</sup>Relative abundance:

R = retained

+ = Present

S = naturally colonized ++ = Common

+++ = Abundant

**Appendix L (B).** List of trees transplanted from Work Areas of Contract 1 & 2 to ECA during establishment phase in June 2012.

Tree No.	Species Name	*Status in	Growth form	Date of transplantation	Condition	Remarks
		Hong				
		Kong				
T150	Bombax ceiba	Е	Tree	22/6/2011	Fair	
T151	Bombax ceiba	Е	Tree	22/6/2011	Fair	
T152	Bombax ceiba	Е	Tree	22/6/2011	Poor	Trunk Broken
T153	Bombax ceiba	Е	Tree	22/6/2011	Fair	
T154	Bombax ceiba	Е	Tree	14/6/2011	Fair	
T155	Bombax ceiba	Е	Tree	14/6/2011	Fair	
T156	Bombax ceiba	Е	Tree	14/6/2011	Fair	
T157	Bombax ceiba	Е	Tree	14/6/2011	Fair	
T158	Bombax ceiba	Е	Tree	14/6/2011	Fair	
T159	Bombax ceiba	Е	Tree	14/6/2011	Fair	
T160	Bombax ceiba	Е	Tree	14/6/2011	Fair	
T161	Bombax ceiba	Е	Tree	14/6/2011	Fair	
T162	Bombax ceiba	Е	Tree	14/6/2011	Fair	
T250	Celtis sinensis	N	Tree	22/6/2011	Dead	Dead
T165	Melaleuca quinquenervia	Е	Tree	22/6/2011	Fair	
T168	Melaleuca quinquenervia	Е	Tree	Nov 2011	Fair	

**Appendix L (C).** Condition of transplanted species *Pavetta hongkongensis* in ECA since 20<sup>th</sup> Dec 2011.

Specimen No.	Species Name	Growth	Height (m)	Date of transplantation	Condition	Remarks
		Form				
PH01	Pavetta hongkongensis	Tree /	2.2	20 <sup>th</sup> Dec 2011	Fair	
		Shrub				
PH02	Pavetta hongkongensis	Tree /	2	20 <sup>th</sup> Dec 2011	Fair	
		Shrub				
PH03	Pavetta hongkongensis	Tree /	1.5	20 <sup>th</sup> Dec 2011	Fair	
		Shrub				

Date of weekly monitoring: 4 Jan, 13 Jan, 17 Jan, 28 Jan, 3 Feb, 6 Feb, 15 Feb, 22 Feb, 1 Mar, 6 Mar, 12 Mar, 18 Mar, 29 Mar, 27 Apr, 31 May, 26 Jun, 31 July 2012.

Appendix M: Ecological monitoring report **Environmental Pioneers and Solutions Limited** 

Agreement No. DP/01/2010
Drainage Improvement Works in Shatin and Tai Po:
Ecological Monitoring in area under Contract 1
(Report 9a for July 2012)

Prepared for:

**Drainage Services Department** 

Prepared by: **ENVIRON Hong Kong Limited** 

Date: **Aug 2011** 

Reference Number: R2667\_V1.0

Agreement No. DP/01/2010
Drainage Improvement Works in Shatin and Tai Po:
Ecological Monitoring in area under Contract 1
(Report 9a for July 2012)

Prepared by:

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# 1. Introduction

## 1.1 Project description

The Drainage Improvement Works in Shuen Wan was undertaken to minimize the potential flooding impacts in Sha Tin and Tai Po area. Although the Ecological Impact Assessment in the EIA Report identified that ecological impacts resulting from the proposed drainage improvement works at Shuen Wan were anticipated to be very minor in scale, ecological mitigation and ecological monitoring were recommended in the EM&A Manual (http://env-shuenwan.com/pdf/review\_note\_em&a\_rev.3.pdf) as stipulated under Environment Permit No. EP-303/2008.

Scope of ecological impact monitoring was described in the Particular Specifications and EM & A Manual of the projects. In brief, the monitoring tasks include regular check on the retained and transplanted trees and shrubs, monitoring on fauna groups and aquatic fauna within the works area and any ecologically sensitive area within 100 m of the works boundary.

China-Hong Kong Ecology Consultants Co. was commissioned by ENVIRON Hong Kong Limited to perform the ecological impact monitoring survey for areas under Contract 1 starting from March 2011.

The outline of this ecological monitoring report was as follow:

- Highlights of this report
- Summary of construction activities for the month
- Monitoring methodology
- Monitoring data
- Remedial measures adopted to the adverse condition
- Record of complains and remedial measures
- Review of monitoring results
- Forecast of works programme and monitoring requirements
- Comments and brief summary

This is the report No. 9 ecological monitoring conducted on 31<sup>th</sup> July 2012 within the works boundary under Contract 1 and area within 100 m from the works boundary.

# 2. Highlights of this report

- Field survey was conducted on 31th March 2012
- Construction activities of Contract 1 was continued since March 2011
- Lower number of species was observed within the works area under Contract 1, in particular stream ecological monitoring point 2 (SEMP 2) due to recent river diversion for Ecological Compensatory Area (ECA) construction.
- Habitats in the 100 m buffer area retain its natural condition.



# 3. Summary of construction activities for the month

Major construction activities carried out in Contract 1 by the contractor during the present monitoring period (March 2012) includes:

# - Pumping station (Area A):

- Construction of superstructure of pumping station
- Consturction of 2100 drainage pipe along Ting Kok Road
- Construction of Flow Measurement Chamber in Pumping Station

# Tung Tsz Nursery Community Garden (Area B)

- Construction of Box Culvert in Tung Tsz Nursery
- Construction of Jacking Pit in Tung Tsz Nursery

## - ECA (Area C)

- Hydroseeding, In maintenance stage

# 4. Monitoring Methodology

Ecological monitoring methods were generally followed those described in the baseline ecological surveys (DC/2009/22). However, sampling area maybe reduced because of habitat change, for instance, deforestation and channel modification due to drainage works, where sampling was not applicable. Survey data and evaluation are detailed in the following sections.

## 4.1 Vegetation survey

Vegetation survey was performed along the designated transects (Figure 1) for ecological monitoring as described in the project specifications to monitor the vegetation health which could be adversely influenced by any bad site practice. Qualitative data of plants within the works boundary and wetland vegetation in the 100 m buffer area of Contract 1 adjacent to construction site and wetland was recorded. Riparian vegetation including aquatic and emergent at 4 stream ecological monitoring points (hereinafter referred to as "SEMP") under Contract 1 (i.e. SEPM 1 &2; Figure 2 & 3) along the affected stream channel and riparian habitat was recorded in terms of species, relative abundance and average heights. Any signs of damages and adverse health problems directly caused the works were recorded and reported. Nomenclature and protection status of the species followed those documented in the AFCD website (www.hkbiodiversity.net) and Hong Kong Herbarium (2004).

#### 4.2 Avifauna

Bird survey was conducted by following the proposed transects which cover the major ecologically sensitive areas of the Project (Figure 1). All bird species were recorded with



special attention paid on the species of conservation importance and wetland-dependent species. List of bird species recorded and the relative abundance was provided.

## 4.3 Herpetofauna

Hepetofauna survey was conducted via direct observation and active searching along the survey transects with a focus in the work areas (Figure 1). All reptiles and amphibians encountered or heard were recorded. Nomenclature and conservation status of herpetofauna species follows AFCD website (www.hkbiodiversity.net).

#### 4.4 Butterflies and Odonata

Odonates and butterfly survey of different habitats within the Study Area was conducted along the proposed transect (Figure 1). All butterflies and odonata were identified and relative abundance was recorded. Nomenclauture and status of conservation of butterflies follows Lo & Hui (2005) while that of odonata follows AFCD websites (www.hkbiodiversity.net).

#### 4.5 Mammals

As the monitoring site was situated near traffics, plant nursery and residential buildings, mammals were unlikely inhabited at the site except rodents, domestic dogs and cats. Detailed mammal monitoring was not conducted. However, any sighting, tracks and signs of mammals encountered during survey of other faunal groups was recorded. Bat was surveyed by search for potential colony habitat, such as palm trees, which are often used by fruit bats as nesting sites.

## 4.6 Aquatic fauna

Monitoring of aquatic fauna was carried out mainly by bank-side observation, sometimes with the aid of binoculars, at two stream ecological monitoring points under Contract 1 (i.e. SEMP 1 & 2). These points are selected for covering representative sections of Wai Ha River and are shown in Figure 1. Netting and fish traps were also deployed at these points to collect supplementary data. Aquatic fauna seen/collected was identified in situ to the lowest possible taxon and relative abundance was presented.

# 5. Monitoring data

#### 5.1 Vegetation survey

The habitats identified in area under Contract 1 are marine, recreational fish pond, river course, wooded area, mangrove, marsh and developed area (including village). Vegetation

were found in wooded area, mangrove, marsh, develop area and river bank. During the current monitoring period, some riparian climbers (*Cocculus orbiculatus*) at SEMP 2 was removed due to direct conflict with the construction of ECA. The riparian vegetations were dominated by *Leucaena leucocephala* and *Plantago* major with average coverage ranged from 15% to 40% (**Table 1**). A list of plant species recorded from different habitats within the assessment area under Contract 1 is presented on Table 2. A total of 130 species were recorded within the assessment boundary of Contract 1 in which 121 species were recorded within the buffer area, while 52 species recorded within the work areas under Contract 1. No protected species were recorded.

#### 5.2 Birds watch

A total of 15 bird species were recorded in the current survey under Contract 1(**Table 3**). In the work area under Contract 1, 7 bird species were recorded in which none are considered to be of conservation concern. A total of 15 bird species were recorded in the 100m buffer area in which one wetland dependent species *Ardeola bacchus* is recognized as being regional conservation concern, though it is common in suitable habitats in Hong Kong (Viney et al., 2005).

## 5.3 Herpetofauna

No reptile was recorded within the assessment area. Mating call of Gunter's Frog, Asiatic Painted and Paddy Frog were heard from the water of pools, ditches and river bank within the 100m buffer zone. Eggs of Brown Tree Frog were seen in the buffer zone of the site. The species recorded belongs to common species in Hong Kong. (Table 4)

#### 5.4 Butterflies

A total of 9 butterfly species were recorded during surveys (**Table 5**). However, none of the species are of the conservation concern.

# 5.5 Odonata

Only 1 odonata species were recorded during the surveys **(Table 6)**. The species Wandering glider (*Pantala flavescens*) was found within the work boundaries under Contract 2 & along the river bank in the 100m buffer area.

#### 5.6 Mammal

No mammals or trace of mammals was observed within the assessment area.

## 5.7 Aquatic fauna

Under Contract 1 (i.e. SEMP 1 & 2), a total of 9 fish species, 2 crustaceans, 1 bivalve and 1 snail were recorded and most of them were residing in brackish environments (**Table 7**). Some river works were carried out in SEMP 1 as showed in Figure 2. Overall, no protected or rare species were recorded.

# 6. Remedial measures adopted to the adverse condition

There was no non-compliance event recorded within this reporting month.

# 7. Record of complains and remedial measures

There was no complaint in relation to environmental issue recorded in this reporting month.

# 8. Review of the monitoring results

During the present survey period, construction activities were carried out at works area under Contract 1, while 100 m buffer area remains natural. Much of the construction activities are carried out at Tung Tsz Nursery and pumping station under Contract 1. In general, lower numbers of species were recorded within the works area under Contract 1 than that of 100 m buffer area because of the associated constructions and urbanized in nature. It is noted that the diversity of aquatic fauna in SEMP 2 under Contract 1 is relatively lower because of the recent river works at SEMP 1 where has been regarded as the corridor for aquatic fauna to move between Wai Ha River and the marine area outside the assessment area. However, most of the construction activities are restricted in the developed area with low ecological significance. As mitigation measures recommended in the EM&A Manual were properly implemented during the current survey, and hence the residual environmental impacts would be minimized.

# Forecast of works programme and monitoring requirements

The tentative construction activities undertaken by the contractor in the coming months are as follows:

#### Area A (Pumping Station)

- External finishing works for main structure of pumping station
- Plumbing & E&M Works
- Final testing works of E&M
- Outfall structure of Tide level monitoring chamber
- External Misc. Works such as Boundary wall & fencing, construction of sewer across Ting Kok Road and connection to existing manholes.

## Area B (Tung Tsz Nursery)

Excavation for the construction of box culvert in Tung Tsz Nursery



- Construction of box culvert Chainage 0-25
- Erection of hoarding for stage 2.
- Construction of 1200mm dia. Drainage Pipe

## Area C (ECA)

- In Maintenance Period

The monitoring programme described in EM&A will strictly follow to verify compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

# 10. Comments and summary

The bi-monthly ecological impact monitoring under Contracts 1 (excluding the ECA) was conducted in May 2012 and relevant flora and fauna data were collected according to project specification and EM & A Manual. As indicated by the low diversity and abundance of species recorded within the work areas, habitats within the work boundary under Contracts 1 offer few ecological opportunities for inhabitation of fauna and flora. Given that the construction activities are restricted in the developed area with proper mitigation measures being implemented, disturbances associated with the current construction activities are largely affecting area with low ecological significance. On the other hand, the natural habitats in the 100 m buffer area are retained at acceptable condition, and hence the 100 m buffer area has not been significantly affected by the construction works.

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Figure

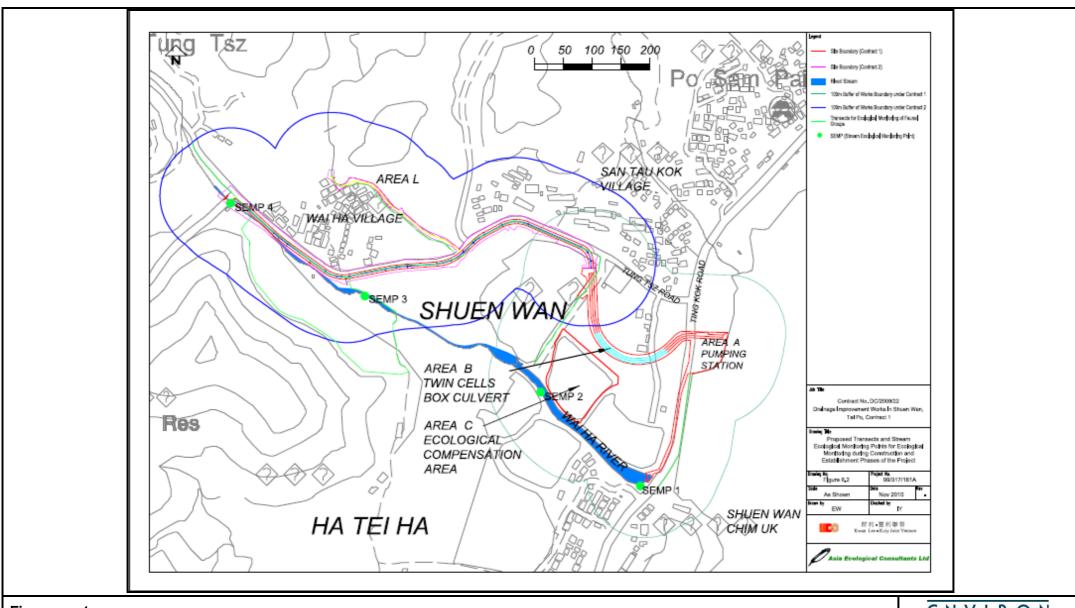


Figure: 1	<u> </u>	ENVIRON
Title: Map showing the ecological monitoring transect and the b	oundary of assessment area. Draw	vn by: IT
	Chec	cked by: ML
Project: Agreement No. DP/01/2010 Drainage Improvement Wor	ks in Shatin and Tai Po: Ecological Monitoring in area Rev.	.: 1.0
under Contract 1 (July 2012, Report 9a)	Date	e: July 2012

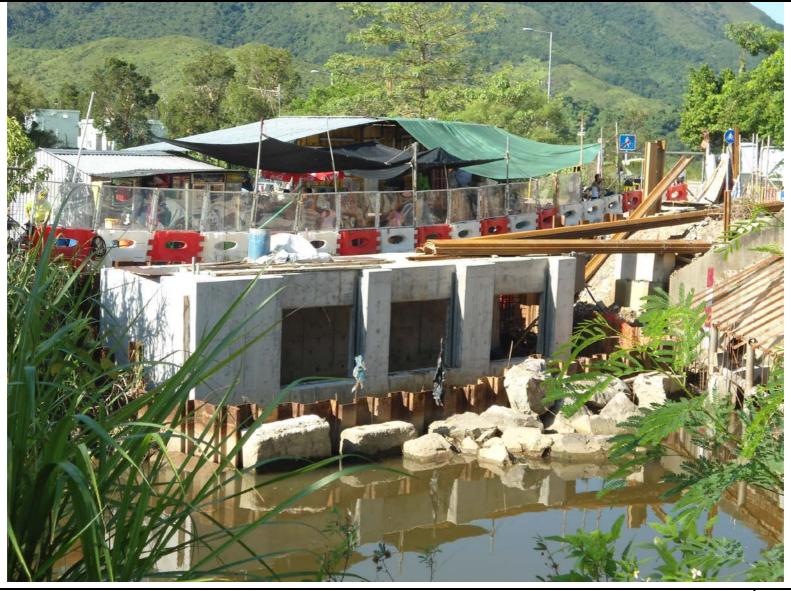


Figure: 2	ENVIRON
Title: SEMP 1, the first sampling point of Wai Ha River under Contract 1.	Drawn by: IT
	Checked by: ML
Project: Agreement No. DP/01/2010 Drainage Improvement Works in Shatin and Tai Po: Ecological Monitoring in area	Rev.: 1.0
under Contract 1 (July 2012, Report 9a)	Date: July 2012



Figure: 3	ENV	/ I R O N
Title: SEMP 2, the second sampling point along Wai Ha River under Contract 1.	Drawn by:	IT
	Checked by	y: ML
<b>Project:</b> Agreement No. DP/01/2010 Drainage Improvement Works in Shatin and Tai Po: Ecological Monitoring in area under	Rev.:	1.0
Contract 1 (July 2012, Report 9a)	Date:	July 2012

Table

**Table 1.** List of riparian vegetation and coverage (%) recorded from two stream sampling points under Contract 1 (i.e. SEMP 1, 2).

			Sampling point	SEMP 1		SEMP 2	
Species	Family	Growth form	Status in Hong Kong	Height (cm)	%	Height (cm)	%
Albizia lebbeck	MIMOSACEAE	Tree	Е			400	10
Amaranthus viridis	AMARANTHACEAE	Herb	N	30	1		
Arundinella nepalensis	POACEAE	Perennial Herb	N			150	2
Bidens alba	ASTERACEAE	Herb	Е	30	10		
Celtis sinensis	ULMACEAE	Tree	N			500	10
Digitaria ciliaris	POACEAE	Herb	N	20	1		
Eclipta prostrata	ASTERACEAE	Perennial herb	N	30	1		
Ficus virens	MORACEAE	Tree	N	100	1		
Kandelia obovata	RHIZOPHORACEAE	Shrub or Small Tree	N			150	4
Leucaena leucocephala	MIMOSACEAE	Small Tree	Е			600	40
Macaranga tanarius	EUPHORBIACEAE	Tree	N			100	1
Mikania micrantha	ASTERACEAE	Climbing Herb	Е	10	1		
Pennisetum alopecuroides	POACEAE	Perennial Herb	N	250	10		
Plantago major	PLANTAGINACEAE	Perennial herb	N	30	15		
Bare	n/a	n/a	n/a	n/a	60	n/a	33

\*Key:

E = Exotic

N = Native

n/a = not available

**Table 2**. List of vegetation recorded from works area under Contracts 1 and 100 m buffer area in the impact monitoring survey conducted in July 2012. Vegetation species presents in the identified location was indicated by "V".

Habitat	Species name	Family	Growth form	*Status in Hong Kong	Work Area under Contract 1	100 m buffer area under Contract 1
Stream	Chrysalidocarpus lutescens	ARECACEAE	Shrub Palm	Е		V
	Melia azedarach	MELIACEAE	Tree	E		V
	Murraya paniculata	RUTACEAE	Small Tree	E		V
	Lantana camara	VERBENACEAE	Shrub	E		V
	Ficus hispida	MORACEAE	Tree	N		V
	Ficus virens	MORACEAE	Tree	N		V
	Chrysopogon aciculatus	POACEAE	Perennial Herb	N		V
	Microstegium ciliatum	POACEAE	Perennial Procumbent Herb	N		V
	Mucuna birdwoodiana	FABACEAE (PAPILIONACEAE)	Climber: Vine	N		V
	Pistia stratiotes	ARACEAE	Floating Aquatic Herb	N		V
	Cyperus flabelliformis	CYPERACEAE	Herb	Е		V
	Acanthopanax gracilistylus	ARALIACEAE	Shrub	Е		V
	Ficus triangularis	MORACEAE	Tree	Е		V
	Spirodela polyrrhiza	LEMNACEAE	Floating Small Herb	N		V
	Glochidion zeylanicum	EUPHORBIACEAE	Shrub or Small Tree	N		V
	Sterculia lanceolata	STERCULIACEAE	Semi-deciduous Tree	N		V

Habitat	Species name	Family	Growth form	*Status in Hong Kong	Work Area under Contract 1	100 m buffer area under Contract 1
	Albizia lebbeck	MIMOSACEAE	Tree	E		V
	Arundinella nepalensis	POACEAE	Perennial Herb	N		V
	Bidens alba	ASTERACEAE	Herb	E		V
	Clerodendrum inerme	VERBENACEAE	Shrub	N		V
	Coculus orbiculatus	MENISPERMACEAE	Climber: Vine	N		V
	Hibiscus tiliaceus	MALVACEAE	Tree or Shrub	N		V
	Leucaena leucocephala	MIMOSACEAE	Small Tree	Е		V
	Manilkara zapota	SAPOTACEAE	Tree	Е		V
	Sapium discolor	EUPHORBIACEAE	Tree	N		V
Developed area	Pericampylus glaucus	MENISPERMACEAE	Woody Vine	N		V
	Ficus variegata var. chlorocarpa	MORACEAE	Tree or Shrub	N	V	V
	Citrus reticulata Blanco	RUTACEAE	Small Tree	Е		V
	Salvia japonica	LAMIACEAE (LABIATAE)	Herb	N		V
	Morus alba	MORACEAE	Tree or Shrub	N		V
	Emilia sonchifolia	ASTERACEAE	Herb	N		V
	Clausena lansium	RUTACEAE	Small Tree	Е		V
	Pyrostegia venusta	BIGNONIACEAE	Climber: Vine	Е		V
	Psidium guajava	MYRTACEAE	Tree	Е		V
	Catharanthus roseus	APOCYNACEAE	Subshrub	N		V
	Archontophoenix alexandrae	ARECACEAE	Tree Palm	Е		V
	Desmodium heterocarpon	FABACEAE (PAPILIONACEAE)	Shrub	N		V
	Rhinacanthus nasutus	ACANTHACEAE	Herb	Е		V
	Acacia confusa	MIMOSACEAE	Tree	Е	V	V
	Artocarpus macrocarpon	MORACEAE	Tree	Е	V	V

Habitat	Species name	Family	Growth form	*Status in Hong Kong	Work Area under Contract 1	100 m buffer area under Contract 1
	Averrhoa carambola	OXALIDACEAE	Small Tree	Е	V	V
	Bauhinia blakeana	CAESALPINIACEAE	Tree or Shrub	N	V	V
	Bauhinia variegata	CAESALPINIACEAE	Tree	Е	V	V
	Bridelia tomentosa	EUPHORBIACEAE	Shrub or Small Tree	N	V	V
	Calliandra haematocephala	MIMOSACEAE	Shrub	Е	V	V
	Caryota ochlandra	ARECACEAE	Tree palm	Е	V	V
	Cassia spectabilis	CAESALPINIACEAE	Small Tree	Е	V	V
	Casuarina equisetifolia	CASUARINACEAE	Tree	Е	V	V
	Citrus grandis	CASUARINACEAE	Tree	Е	V	V
	Cordyline fruticosa	AGAVACEAE	Shrub	Е	V	V
	Cynodon dactylon	POACEAE	Perennial Herb	N	V	V
	Dracaena draco	AGAVACEAE	Tree	Е	V	V
	Elaeocapus haminanensis	ELAEOCARPACEAE	Small Tree	Е	V	V
	Eleusine indica	POACEAE	Herb	N	V	V
	Eriobotrya japonica	ROSACEAE	Small Tree	Е	V	V
	Ficus benjamina	MORACEAE	Tree	Е	V	V
	Ficus elastica	MORACEAE	Tree	Е	V	V
	Ficus simplicissima	MORACEAE	Shrub	N	V	V
	Hibiscus rosa-sinensis	MALVACEAE	Shrub	Е	V	V
	Lantana camara	VERBENACEAE	Shrub	Е	V	V
	Litchi chinensis	SAPINDACEAE	Tree	Е	V	V
	Lumnitzera racemosa	COMBRETACEAE	Shrub or Small Tree	N	V	V
	Lygodium japonicum	LYGODIACEAE	Climbing Herb	N	V	V
	Melaleuca quinquenervia	MYRTACEAE	Tree	Е	V	V
	Oxalis corniculata	OXALIDACEAE	Perennial Herb	N	V	V

Habitat	Species name	Family	Growth form	*Status in Hong Kong	Work Area under Contract 1	100 m buffer area under Contract 1
	Phoenix roebelenii	ARECACEAE	Small Tree Palm	E	V	V
	Polygonum hydropiper	POLYGONACEAE	Herb	N	V	V
	Psychotria serpens	RUBIACEAE	Climber: Vine	N	V	
	Pterocypsela indica	ASTERACEAE	Herb	N	V	V
	Rhapis excelsa	ARECACEAE	Shrub Palm	N	V	V
	Sansevieria trifasciata	AGAVACEAE	Perennial Herb	E	V	V
	Schefflera actinophylla	ARALIACEAE	Climbing Shrub	Е	V	V
	Schefflera heptaphylla	ARALIACEAE	Tree	N	V	V
	Sesbania cannabina	FABACEAE	Herb	Е	V	V
	Terminalia catappa	COMBRETACEAE	Large Tree	Е	V	V
	Thuja orientalis	CUPRESSACEAE	Tree	Е	V	V
	Tradescantia spathacea	COMMELINACEAE	Herb	Е	V	V
	Youngia japonica	ASTERACEAE	Herb	N	V	V
	Acanthus ilicifolius	ACANTHACEAE	Shrub	N		V
	Acrostichum aureum	ACROSTICHACEAE	Herb	N		V
	Aegiceras corniculatum	MYRSINACEAE	Shrub	N		V
	Alocasia odora	ARACEAE	Perennial Herb	N		V
	Avicennia marina	VERBENACEAE	Shrub	N		V
	Digitaria ciliaris	POACEAE	Herb	N		V
	Panicum repens L.	POACEAE	Perennial Herb	N		V
	Pennisetum alopecuroides	POACEAE	Perennial Herb	N		V
	Phragmites anstralis	POACEAE	Perennial Herb	N		V
	Plantago major	PLANTAGINACEAE	Perennial herb	N		V
	Solanum nigrum	SOLANACEAE	Herb	N		V
	Bombax ceiba	BOMBACACEAE	Tree	Е	V	
	Bidens alba	ASTERACEAE	Herb	Е	V	
	Panicum maximum	GRAMINEAE	Herb	Е	V	

Habitat	Species name	Family	Growth form	*Status in Hong Kong	Work Area under Contract 1	100 m buffer area under Contract 1
	Microstegium ciliatum	POACEAE	Perennial Procumbent Herb	N	V	
	Leucaena leucocephala	MIMOSACEAE	Small Tree	Е	V	
Plantation	Bischofia javanica	EUPHORBIACEAE	Tree	N		V
	Scolopia chinensis	FLACOURTIACEAE	Tree or Large Shrub	N		V
	Piper hancei	PIPERACEAE	Climber: Vine	N		V
	Dimocarpus longan	SAPINDACEAE	Tree	Е		V
	Paederia scandens	RUBIACEAE	Climber: Vine	N		V
	Cleistocalyx operculatus	MYRTACEAE	Tree	N		V
	Antidesma bunius	EUPHORBIACEAE	Tree	N		V
	Litsea monopetala	LAURACEAE	Small Tree	N		V
	Microcos paniculata	TILIACEAE	Shrub or Small Tree	N		V
	Maesa perlarius	MYRSINACEAE	Shrub	N		V
	Boehmeria nivea (L.) Gaudich.	URTICACEAE	Subshrub or shrub	Е		V
	Mallotus apelta	EUPHORBIACEAE	Shrub or Small Tree	N		V
	Sapindus saponaria	SAPINDACEAE	Tree	N		V
	Aporusa dioica	EUPHORBIACEAE	Tree	N		V
	Wedelia chinensis	ASTERACEAE	Perennial Herb	N		V
	Carica papaya	CARICACEAE	Tree	Е		V
	Rubus reflexus	ROSACEAE	Climbing Shrub	N		V
	Brassica rapa	BRASSICACEAE (CRUCIFERAE)	Biennial Herb	Е		V

Habitat	Species name	Family	Growth form	*Status in Hong Kong	Work Area under Contract 1	100 m buffer area under Contract 1
	Mucuna championii Benth.	FABACEAE	Climbing Vine	N		V
	Pinus massoniana	PINACEAE	Tree	N		V
Ting Kok Nursery Community Garden	Bauhinia purpurea	CAESALPINIACEAE	Tree	Е	V	
	Callistemon viminalis	MYRTACEAE	Tree	Е	V	
	Dillenia indica	DILLENIACEAE	Tree	Е	V	
	Lonicera japonica	CAPRIFOLIACEAE	Climber: Vine	N	V	
	Tabebuia chrysantha	BIGNONIACEAE	Small Tree	Е	V	
	Wisteria sinensis	FABACEAE	Climber: Vine	Е	V	
Wooded area	Celtis sinensis	ULMACEAE	Tree	N		V
	Ligustrum sinensis	OLEACEAE	Tree or Shrub	N		V
	Macaranga tanarius	EUPHORBIACEAE	Tree	N		V
	Pandanus tectorius	PANDANACEAE	Shrub or Small Tree	N		V
	Excoecaria agallocha	EUPHORBIACEAE	Tree	N		V
	Kandelia obovata	RHIZOPHORACEAE	Shrub or Small Tree	N		V
	Thespesia populnea	MALVACEAE	Tree or Shrub	N		V
	Zoysia sinica	POACEAE	Perennial Herb	N		V
Marsh	Acanthus ilicifolius	ACANTHACEAE	Shrub	N		V
	Acrostichum aureum	ACROSTICHACEAE	Herb	N		V
	Aegiceras corniculatum	MYRSINACEAE	Shrub	N		V
	Alocasia odora	ARACEAE	Perennial Herb	N		V
	Avicennia marina	VERBENACEAE	Shrub	N		V
	Digitaria ciliaris	POACEAE	Herb	N		V
	Ficus hispida	MORACEAE	Tree	N		V

Habitat	Species name	Family	Growth form	*Status in Hong Kong	Work Area under Contract 1	100 m buffer area under Contract 1
	Hibiscus tiliaceus	MALVACEAE	Tree or Shrub	N		V
	Ipomea cairica	CONVOLVULACEAE	Climber: Twining Herb	Е		V
	Kandelia obovata	RHIZOPHORACEAE	Shrub or Small Tree	N		V
	Macaranga tanarius	EUPHORBIACEAE	Tree	N		V
	Mikania micrantha	ASTERACEAE	Climbing Herb	Е		V
	Panicum repens L.	POACEAE	Perennial Herb	N		V
	Pennisetum alopecuroides	POACEAE	Perennial Herb	N		V
	Phragmites anstralis	POACEAE	Perennial Herb	N		V
	Plantago major	PLANTAGINACEAE	Perennial herb	N		V
	Polygonum lapathifolium	POLYGONACEAE	Herb	N		V
	Pueraria lobata	FABACEAE	Climber: Vine	N		V
	Schefflera heptaphylla	ARALIACEAE	Tree	N		V
	Solanum nigrum	SOLANACEAE	Herb	N		V
	Solanum torvum	SOLANACEAE	Shrub	Е		V

\*Key:

E = Exotic

N = Native

**Table 3.** List of avifauna species and maximum counts recorded from the impact monitoring survey in July 2012 at work area under Contracts 1 and 100 m buffer area.

Species	Common name	Habitat	Conservation status in Hong Kong	Work area: Contract 2	100m buffer area
Acridotheres cristatellus	Crested Myna			2	3
Ardea cinerea	Grey Heron	W			1
Ardeola bacchus	Chinese Pond Heron	W	RC		1
Casmerodius alba	Great Egret	W			1
Copsychus saularis	Oriental Magpie Robin			1	2
Egretta garzetta	Little Egret	W			2
Garrulax perspicillatus	Masked Laughing thrush				2
Motacilla alba	White Wagtail				1
Orthotomus sutorius	Common Tailorbird				1
Passer montanus	Eurasian Tree Sparrow			2	5
Prinia flaviventris	Yellow-bellied Prinia				1
Pycnonotus jocosus	Red-whiskered Bulbul				2
Pycnonotus sinensis	Chinese Bulbul				1
Streptopelia chinensis	Spotted Dove			2	2
Sturnus nigricollis	Black-collared Starling				2
Total num	ber of species:		1	4	15

\* Key:

**W** = Wetland dependent spices ; RC = Regional Concern

**Table 4.** List of herpetofauna and maximum counts recorded from the impact monitoring survey in July 2012 at work area under Contracts 1 and 100 m buffer area..

Species	Common name	Conservation status in Hong Kong	Work area: Contract 1	100m Buffer area of Contract 1
Rana guentheri	Gunther's Frog	Common		1@
Kaloula pulchra pulchra	Asiatic Painted Frog	Common		2@
Fejervarya limnocharis	Paddy Frog	Common		1@
Polypedates megacephalus	Brown Tree Frog	Common		2*
Bufo melanostictus	Common Toad	Common	1	1

Key:

@-Calling heard,

<sup>\*-</sup>Egg founded

**Table 5.** Relative abundance of butterfly species recorded under Contracts 1 in impact monitoring survey during July 2012.

Species	Common name	Conservation status in Hong Kong	Work area: Contract 1	100m Buffer area of Contract 1
Abisara echerius	Plum judy	Very Common		+
Eurema hecabe	Common Grass Yellow	Very Common	+	++
Mycalesis mineus	Dark-brand Bush Brown	Very Common	+	++
Papilio bianor	Chinese Peacock	Common		+
Papilio memnon agenor	Great Mormon	Very Common		+
Papilio polytes	Common mormon	Very Common	+	+
Papilio protenor	Spangle	Very Common		+
Parantica aglea	Glassy Tiger	Common		+
Pieris canidia canidia	Indian Cabbage White	Very Common		+
Ypthima baldus	Common Five-ring	Very Common		+
Zizeeria maha	Pale Grass Blue	Very Common		+

### Key:

+ : Species exists in the survey area

++ : Species common in the survey area

+++ : Species abundant in the survey area

**Table 6.** Relative abundance of odonata species recorded under Contracts 1 in impact monitoring survey during July 2012.

Species	Common name	Conservation status in Hong Kong	Work area: Contract 1	100m Buffer area of Contract 1
Pantala flavescens	Wandering Glider	Common	+	+
Ictinogomphus pertinax	Common Flangetail	Common		+

### Key:

+ : Species exists in the survey area

++ : Species common in the survey area

+++: Species abundant in the survey area

**Table 7.** Relative abundance of aquatic species recorded in Wai Ha River within the 100 m buffer of works boundary under Contracts 1 in the impact monitoring survey during July 2012.

Species	Common name	<sup>1</sup> Life-cycle characteristics	<sup>2</sup> Origin	SEMP 1	SEMP 2
Ambassis gymnocephalus	Glassperch	M	N	+	
Cyprinus carpio	Common Carp	F	I		+
Gerres macracanthus	Longspine Silverbiddy	M	N	+	
Mugil cephalus	Flatehead Grey Mullet	M	N	+	
Opsariichthys evolans	Minnow	F	N	+	
Oreochromis mossambicus	Mozambique Tilapa	F	I	++	+
Oreochromis niloticus	Nile Tilapa	F	I	++	+
Poecilia reticulata	Guppy	F	I		+
Tilapia zillii	Redbelly Tilapa	F	I	+	
Sesarma (Perisesarma) bidens	Sesarmine crab	M	N		+
Uca arcuata	Fiddler Crab	M	N		+
Saccostrea cucullata	Rock Oyster	M	N	++	+
Cerithidea cingulata	Mud snail	M	N	+	
Total number of species:	13			9	7

### Key:

Relative abundance:

+ : Species exists in the survey area

++: Species common in the survey area

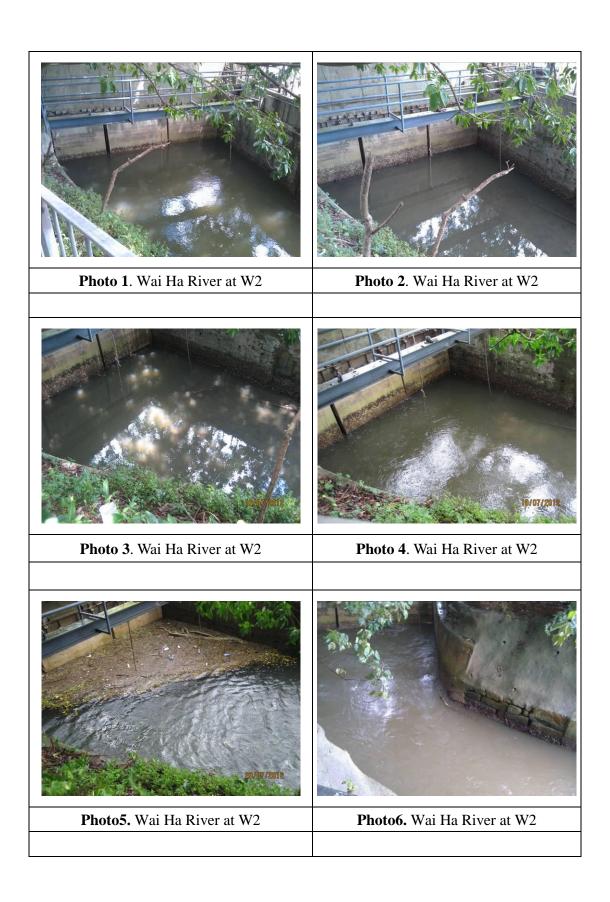
+++ : Species abundant in the survey area

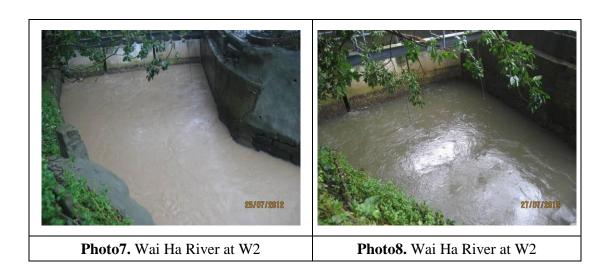
<sup>1</sup>Life-cycle characteristics: <sup>2</sup>Origin:

M = Marine vagrant N = Native

F = Freshwater species I = Introduced; / = not available







Appendix O
Approved Proposal of Revision for Action/Limit Level Criteria of Water Quality Monitoring

**Environmental Pioneers and Solutions Limited** 

本者檔號 OUR REF: 來內構號 YOUR REF: (2) in Ax (1) to EP2/G/I/117 Pt.4

28th Floor, Southorn Centre, 130 Hennessy Road, Wan Chai, Hong Kong.



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2835 1581

2802 4511

### By Post & Fax: 2827 8700

31 May 2012

Drainage Projects Division. Drainage Services Department, 40/F, 44/F & 45/F, Revenue Tower, 5 Gloucester Road, Wan Chai, Hong Kong (Attn: Mr. SO Chi Ho)

Dear Mr. So,

### Drainage Improvement Works in Sha Tin and Tai Po Environmental Permit No. EP-303/2008 Revised Water Quality Monitoring

I refer to the letter from Environmental Pioncers & Solution Ltd (ET Leader) of 17 May 2012 proposing changes to water quality monitoring under the EM&A Programme for the captioned project.

Based on the justifications provided and pursuant to Condition 5.1 of the Environmental Permit No. EP-303/2008, I hereby approve the proposed changes to water quality monitoring.

Yours faithfully.

Principal Environmental Protection Officer for Director of Environmental Protection

97%

Internal (w/cncl. proposal enclosed in the letter from Environmental Pioneers & Solutions Ltd. of 17.5.2012)

S(RN)1

EIAO Register Office

# EP-303/2008 Enquiry of Revision for Action/Limit Level Criteria of Water Quality Monitoring

	Prepared By:	Verified By:	Submitted By:
Parties:	Environmental Team Leader (Environmental Pioneers & Solutions Limited)	IEC (Environ Hong Kong Limited)	Contractor (Kwan Lee – Kuly Joint Venture)
Name:	Ms. Goldie Fung	Mr. Tony Cheng	Mr. C.L. Wong
Signature:		(G).	
Date:	16-5-2012	16 May 2012	16/5/2012

Rev. 6

Submitted by: 16-May-2012

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### 1. Introduction

Environmental Pioneers and Solutions Limited (EPSL) has been appointed to work as the Environmental Team (ET) for the Contract No. DC/2009/22 Drainage Improvement Works in Shuen Wan, Tai Po (Contract no. 1) to implement the Environmental Monitoring and Audit (EM&A) programme.

The scope of the Project includes the following works:-

- (1) Construction of a 1000m long, 3m x 2.5m twin-cell box culvert along Tung Tsz Road;
- (2) Replacement of existing gates by automatic mechanical gates at the mouth of Wai Ha River;
- (3) Construction of a 280m long, 1200 dia. Drainage pipe near Wai Ha Village;
- (4) Construction of a 260m long, 2100 dia. Flood relief drain along Ting Kok Road; and
- (5) Construction of a floodwater pumping station at Shuen Wan.

The construction period of the project was commenced on February 26<sup>th</sup>, 2010 and anticipated to complete in August 2013.

### 2. Water Quality Monitoring

### 2.1 Monitoring Locations

There are two separate contracts covered by the Environmental Permit EP-303/2008, including contract no. DC/2009/22 (contract no. 1) and contract no. DC/2010/02 (contract no. 2). There are totally 4 monitoring stations (W1, W2 and W4 for impact monitoring station and W3 for control station) selected for the water quality monitoring. With reference to the Clause 4.25 of EM&A Manual (Rev. 3), the water samples are collected at mid-depth of each proposed monitoring stations for measuring due to the water depth is less than 3m. The Location Plan is shown in Figure 2.1 for reference.

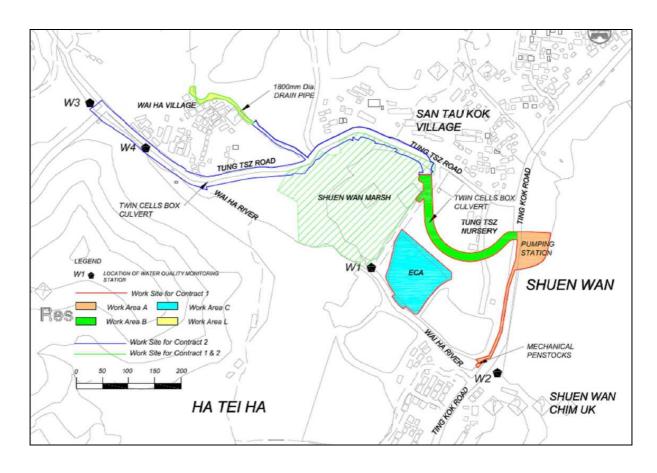


Figure 2.1 Water Quality Monitoring Locations

### 2.2 Reference Points for Contract No. 1

The construction activities of contract no. 1 were commenced on 9 March 2011 and anticipated to be completed in February 2013 and those of contract no. 2 were commenced on 29 April 2011 and anticipated to be completed on 27 October 2013. According to the current site situation of the project, there are construction activities carrying out for contract no. 1 and no. 2. The water quality of control station W1 may be affected by the construction activities of contract no. 2. Under this circumstance, 2 additional reference points (C1 and C2) are proposed for the water quality monitoring of contract no. 1. The water quality of both C1 and C2 will not be affected by any construction activities of this project. The location of C1 and C2 can refer to the Fig. 2.2. Reference point C1 is located at 20m apart from the estuary of Wai Ha River. The water quality of C1 will not be affected by the construction activities at flood tide and is free from contamination. The water quality parameter of C1; W1 and W2 are listed in Appendix A for reference. Reference point C2 is the same monitoring location of W3 which is approximate 70m apart from the site boundary and will not be affected by the construction activities.

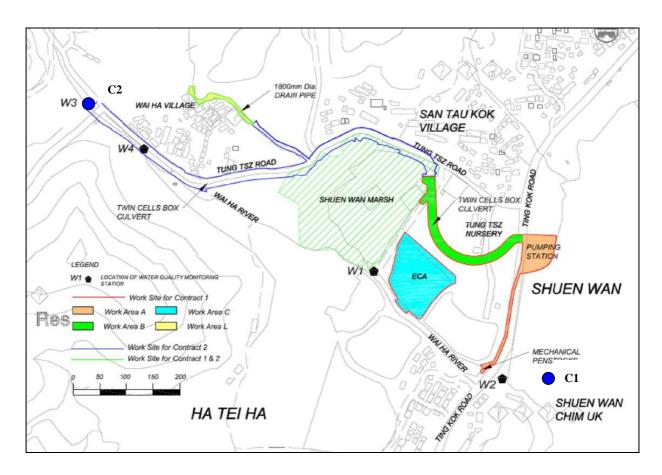


Figure 2.2 Reference Points C1 and C2 Locations

The monitoring parameters of C1 and C2 are same as those of W1, and the monitoring data of C1 and C2 will be reported as the supplementary information. When the water quality of W2 exceed the Action/Limit levels criteria, the monitoring data of C1 will be used for comparison when the monitoring of W2 is taken at flood tide; and the monitoring data of C2 will be used for comparison when the monitoring of W2 is taken at ebb tide. The comparison of water quality between W2 and C1 at flood tide and between W2 and C2 at ebb tide can help to prove whether influence of water quality is caused by the construction activities. The water quality monitoring of W1 will continuously be carried out and the collected data will be submitted for reference as well.

### 2.3 Data Analysis

With reference to the Location Plan shown in Figure 2.1, control station W3 is at the upstream location of the Wai Ha River for this project. According to the location, the water quality of W3 can be considered to be not affected by any construction activities of the project. Besides, the level of W3 should be +5.08mPD and its water quality can be considered to be not undergone any tidal influence. Based on these criteria, the Dissolved Oxygen (DO) of control station W3 were used for the analysis in the following sections. In order to indicate the current situation of DO level of the river, the DO level of W3 measured from August 2011 to January 2012 were selected to compare with baseline data.

### a. Baseline Monitoring Data

The baseline data of DO of W3 are shown in Appendix B. The baseline monitoring data were collected before the commencement of any construction activities in dry season from 7<sup>th</sup> January, 2011 to 2<sup>nd</sup> February 2011. According to the submitted Baseline Environmental Monitoring Report, the Action/Limit level for monitoring station W3 are indicated in Table 2.1.

Table 2.1 Action and Limit Levels for Water Quality at Monitoring Stations W3

Parameters	Monitoring Statio	ns (Flood Tide)	Monitoring Stations (Ebb Tide)		
	Action	Limit	Action	Limit	
	Level	Level	Level	Level	
DO (mg/L)	8.66	8.00	8.71	8.61	

### b. Impact Monitoring Data

Water quality monitoring (WQM) for control station W3 was carried out 13 times in August 2011; 14 times in September 2011; 12 times in October 2011; 13 times in November 2011; 13 times in December 2011; 12 times in January 2012. The collected DO data of W3 in these 77 times monitoring are shown in Appendix C. Average DO monitoring result of each month at W3 are summarized in Table 2.2.

Table 2.2 Water quality monitoring results of Dissolved Oxygen at W3

Month	Average Dissolved Oxygen (DO) in mg/L (Range)
August 2011	6.44 (7.31 – 4.44)
September 2011	6.08 (7.32 – 4.49)
October 2011	5.91 (6.86 – 5.09)
November 2011	5.79 (6.72 – 4.62)
December 2011	6.50 (7.91 – 5.09)
January 2012	7.14 (8.89 – 5.10)

By comparing the WQM results from August 2011 to January 2012 and Action/Limit level (Ebb Tide) of W3 in Table 2.1, it is observed that only one WQM result has not exceeded the Action/Limit level and all other WQM results have exceeded the Limit Level. The result is highlighted in Appendix D for reference. As mentioned before, the water quality of W3 will not be affected by any construction activities of the project, so that the cause of exceedance may due to the natural fluctuation such as temperature and seasonal change.

### c. Variation between Dry and Wet Seasons

As the cause of exceedance may due to the seasonal change, the variation between dry and wet season is calculated as below for the compensation of seasonal change. As the water quality in the Wai Ha River (also referred to as Tung Tze Stream) is monitored under the Environmental Protection Department (EPD) routine river water quality monitoring programme. Ten years (Year 2001 to 2010) of river water quality data at station TR6 Tung Tze Stream are extracted from EPD database for the calculation of DO variation between Dry and Wet seasons. TR6 is located near the estuary of Tung

Tze Stream and the location can refer to the map in Appendix E. The raw data are listed in Appendix F for reference. After analyzed the distribution of the ten years data (refer to Appendix G), median of DO for dry and wet seasons are used to calculated the DO variation to eliminate the effect of the lowest and the highest values. The DO variation between Dry and Wet seasons variation is calculated by equation (eqt. 2-1).

Variation = (Dry Season 
$$_{median}$$
 – Wet Season  $_{median}$  ) / Dry Season  $_{median}$  (eqt. 2-1)

According to the condition 3.7 of the Environmental Permit EP-303/2008, dry season should be defined from October to April; and the wet season should be defined from May to September. The data from October to April are used for the calculation of Dry Season; the data from April to October are used for the calculation of Wet Season. Total 6 sets of result for 3 different time period are calculated for comparison. Both median and mean of the DO have been calculated for time periods including 1) Recent year - Year 2010; 2) Four years data – from Year 2007 to 2010; and 3) Ten years data – from Year 2001 to 2010. The results can refer to Table 2.3.

Table 2.3 DO variation between dry and wet season from 2007 to 2010 at station TR6, Tung Tze Stream

Collected Data	DO(mg/l)	Wet season	Dry season	Variation
Year 2010	Median	6.50	6.50	0%
Year 2007-2010	Median	5.65	6.55	13.74%
Year 2001-2010	Median	5.80	6.40	9.37%
Year 2010	Mean	6.16	6.36	3.14%
Year 2007-2010	Mean	5.81	6.28	7.48%
Year 2001-2010	Mean	5.85	6.38	8.31%

From the results in Table 2.3, the highest variation value 13.74% is used to enhance the effect of applying the variation. By applying the variation (13.74%) to the baseline data, a new set of Action/Limit level is calculated by equation (eqt. 2-2) and the result are shown in Table 2.4.

Revised Level = Original Level x 
$$(1-13.74\%)$$
 (eqt. 2-2)

Table 2.4 New set of Action/Limit Level, using the calculated variation (13.74%)

Parameters		Monitoring S	,	Monitoring Stations (Ebb Tide)		
		Action Limit Level Level		Action Level	Limit Level	
Original Level	DO (mg/L)	8.66	8.00	8.71	8.61	
Revised level	DO (mg/L)	7.47	6.90	7.51	7.43	

With reference to the new set of Action/Limit level in Table 2.4, the higher DO level (Ebb tide) were used to compare with the WQM results from August 2011 to January 2012, it is observed that there were only five times of WQM results have not exceeded the Action/Limit level and all other 72 times of WQM results have exceeded the Limit Level. The result is highlighted in Appendix H for reference. Since W3 functions as the control station of this project, its water quality should not be affected by the construction works of this project. From the comparison results with the original and revised Action/Limit level, it was observed that both sets of Action/Limit level cannot reflect the actual river condition.

### 3. Conclusion

After the consideration of seasonal change which may affect the DO of W3 in section 2.3, the DO of W3 will also exceed the Limit level in almost all the measurement day in both dry and wet seasons. After the consideration of seasonal change and applied the DO variation between wet and dry season to amend the Action/Limit level, the DO of W3 will also exceed the Limit level in both dry and wet seasons. Both the original and revised Action/Limit level could not reflect the actual condition of Wai Ha River. The Action/Limit level criteria should be revised so as to reflect the actual condition of Wai Ha River and to monitor the water quality.

With reference to other EM&A projects of river work in Hong Kong (refer to Appendix I), the limit level for DO is 4 mg/L and without the comparison of the percentile of baseline data. Suggest that the Action Level criteria remain unchanged which is DO exceedance occur when impact monitoring data is lower than 5

percentile of baseline data; and the Limit Level criteria should be revised to DO exceedance occur when impact monitoring data is lower than 4 mg/L.

Parameter	Original Limit Level	Revised Limit Level
DO in mg/L	4 mg/L or 1%-ile of baseline	4 mg/L
	data	

# Appendix A

EP-303/2008 Water Quality Baseline Monitoring of Reference Point C1 - Flood

Position	Tide	Weather	Date	Time	Location	pH value	Salinity (ppt)	Temperature (°C)	Turbidity (NTU)	DO (mg/L)
				8:45	C1	8.5	28.1	18	0.1	9.21
Mid	Flood	Cloudy	2/3/2012	8:57	W2	7.16	4	18.1	11.7	7.16
				9:23	W1	7.12	0.1	19.3	6	7.47
	Mid Flood Cloudy 5/		15:35	C1	8.59	28.3	20.8	0.1	9.5	
Mid		Cloudy	dy 5/3/2012	15:18	W2	7.14	6.6	21	7.2	6.97
				15:00	W1	7.1	0.4	21.4	3.4	6.91
				16:45	C1	8.51	29	20.5	0.1	9.32
Mid	Flood	lood Cloudy 7/3/2012	7/3/2012	16:30	W2	7.78	16.4	20.8	14.4	7.51
			16:00	W1	7.3	3.8	20.4	27.3	7.39	
			9:40	C1	8.55	28.2	16.7	0.1	9.53	
Mid	Flood	Rainy	12/3/2012	9:55	W2	8.18	26.3	16.9	1.2	7.86
				10:25	W1	7.94	21.5	16.9	5.3	8.27

# Appendix B

# EP-303/2008 Water Quality Baseline Monitoring of Control Point W3 - Flood

Location	Position	Tide	Date	Time	Weather	DO (	mg/L)	Average DC		(%)	Average
Location	FUSITION	Tide	Date	Tillib	Weather	Data 1	Data 2	Average	Data 1	Data 2	Average
W3	Mid	Flood	7/1/2011	9:20	Cloudy	9.55	9.46	9.51	88	89	89
W3	Mid	Flood	10/1/2011	12:00	Cloudy	10.12	10.13	10.13	113	110	112
W3	Mid	Flood	12/1/2011	12:50	Cloudy	7.83	7.86	7.85	95	96	96
W3	Mid	Flood	14/1/2011	13:00	Cloudy	9.67	9.52	9.60	98	96	97
W3	Mid	Flood	17/1/2011	15:40	Cloudy	9.92	9.81	9.87	105	104	105
W3	Mid	Flood	19/1/2011	17:45	Sunny	9.25	9.41	9.33	98	101	100
W3	Mid	Flood	21/1/2011	7:40	Sunny	10.86	10.52	10.69	103	104	104
W3	Mid	Flood	24/1/2011	9:15	Cloudy	9.56	9.71	9.64	101	106	104
W3	Mid	Flood	26/1/2011	11:00	Sunny	11.10	10.69	10.90	111	108	110
W3	Mid	Flood	28/1/2011	13:05	Sunny	10.21	9.89	10.05	103	99	101
W3	Mid	Flood	31/1/2011	16:10	Sunny	10.54	10.72	10.63	116	112	114
W3	Mid	Flood	2/2/2011	7:00	Cloudy	10.78	10.66	10.72	109	103	106
5 percentile		DO Acti	on			8.0	07	8.66			
1 percentile		DO Lim	nit			7.8	84	8.00			

# Appendix B

# EP-303/2008 Water Quality Baseline Monitoring of Control Point W3 - Ebb

Location	Position	Tide	Date	Time	Weather	DO (	mg/L)	Avorago		(%)	Avorago
Location	POSITION	Tide	Date		weather	Data 1	Data 2	Average	Data 1	Data 2	Average
W3	Mid	Ebb	7/1/2011	14:10	Cloudy	8.91	9.00	8.96	97	99	98
W3	Mid	Ebb	10/1/2011	17:10	Cloudy	9.00	8.85	8.93	94	91	93
W3	Mid	Ebb	12/1/2011	18:40	Cloudy	9.84	9.61	9.73	96	95	96
W3	Mid	Ebb	14/1/2011	7:50	Cloudy	9.98	9.77	9.88	101	95	98
W3	Mid	Ebb	17/1/2011	10:30	Cloudy	10.92	10.63	10.78	104	104	104
W3	Mid	Ebb	19/1/2011	11:25	Sunny	8.77	8.41	8.59	96	97	97
W3	Mid	Ebb	21/1/2011	13:10	Sunny	10.08	9.97	10.03	106	101	104
W3	Mid	Ebb	24/1/2011	15:30	Cloudy	8.93	8.67	8.80	96	94	95
W3	Mid	Ebb	26/1/2011	17:35	Sunny	10.71	10.24	10.48	109	103	106
W3	Mid	Ebb	28/1/2011	7:50	Sunny	9.58	9.55	9.57	97	84	91
W3	Mid	Ebb	31/1/2011	10:45	Sunny	11.33	10.76	11.05	113	106	110
W3	Mid	Ebb	2/2/2011	12:15	Cloudy	9.96	9.59	9.78	102	96	99
5 percentile		DO Acti	on			8.0	69	8.71			
1 percentile		DO Lim	nit			8.4	47	8.61			

Appendix C – W3 Monitoring data of dissolved oxygen from August 2011 to January 2012

• •		, ,			
Monitoring Date	DO mg/L	<b>Monitoring Date</b>	DO mg/L	<b>Monitoring Date</b>	DO mg/L
1-Aug-2011	6.93	30-Sep-2011	5.52	1-Dec-2011	5.68
3-Aug-2011	7.31	4-Oct-2011	5.09	3-Dec-2011	5.09
6-Aug-2011	6.89	6-Oct-2011	5.12	6-Dec-2011	6.17
8-Aug-2011	7.26	8-Oct-2011	5.89	8-Dec-2011	5.59
11-Aug-2011	6.01	11-Oct-2011	6.09	10-Dec-2011	6.58
13-Aug-2011	6.76	13-Oct-2011	6.53	13-Dec-2011	6.44
15-Aug-2011	7.03	15-Oct-2011	5.19	15-Dec-2011	7.15
17-Aug-2011	6.40	18-Oct-2011	5.21	17-Dec-2011	6.60
19-Aug-2011	6.74	20-Oct-2011	6.04	20-Dec-2011	6.68
23-Aug-2011	6.21	22-Oct-2011	6.86	22-Dec-2011	7.14
25-Aug-2011	5.07	25-Oct-2011	6.58	24-Dec-2011	7.91
27-Aug-2011	4.44	27-Oct-2011	6.39	29-Dec-2011	6.90
30-Aug-2011	6.71	29-Oct-2011	5.92	31-Dec-2011	6.63
1-Sep-2011	7.18	1-Nov-2011	5.66	3-Jan-2012	6.22
3-Sep-2011	7.32	3-Nov-2011	6.64	5-Jan-2012	6.90
6-Sep-2011	5.86	5-Nov-2011	6.58	7-Jan-2012	5.10
8-Sep-2011	5.66	8-Nov-2011	5.47	10-Jan-2012	7.10
10-Sep-2011	6.88	10-Nov-2011	6.72	12-Jan-2012	7.25
12-Sep-2011	6.44	12-Nov-2011	6.53	14-Jan-2012	6.90
15-Sep-2011	6.09	15-Nov-2011	6.51	17-Jan-2012	7.60
17-Sep-2011	5.73	17-Nov-2011	4.74	19-Jan-2012	6.50
20-Sep-2011	6.26	19-Nov-2011	4.62	21-Jan-2012	8.41
22-Sep-2011	4.49	22-Nov-2011	5.09	26-Jan-2012	8.89
24-Sep-2011	6.43	24-Nov-2011	5.70	28-Jan-2012	7.62
26-Sep-2011	5.36	26-Nov-2011	5.69	31-Jan-2012	7.18
28-Sep-2011	5.91	29-Nov-2011	5.38		
					1

Appendix D - Exceedance records from August 2011 to January 2012 for Existing Criteria

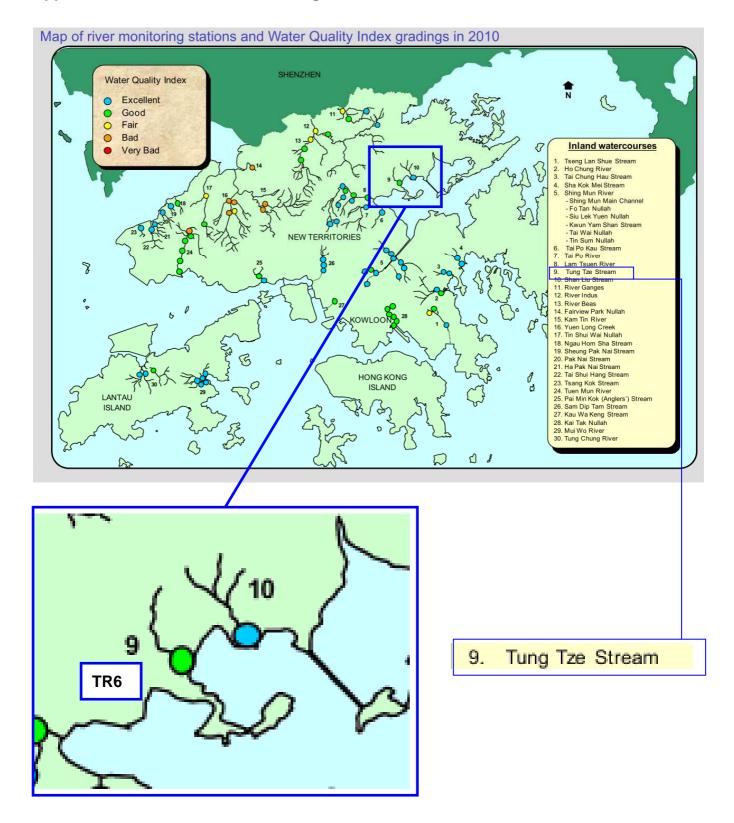
Appendix B Exece		cords from August 20	i i to oai	idary 2012 for Existing	-
<b>Monitoring Date</b>	DO mg/L	Monitoring Date	DO mg/L	Monitoring Date	DO mg/L
1-Aug-2011	6.93	30-Sep-2011	5.52	1-Dec-2011	5.68
3-Aug-2011	7.31	4-Oct-2011	5.09	3-Dec-2011	5.09
6-Aug-2011	6.89	6-Oct-2011	5.12	6-Dec-2011	6.17
8-Aug-2011	7.26	8-Oct-2011	5.89	8-Dec-2011	5.59
11-Aug-2011	6.01	11-Oct-2011	6.09	10-Dec-2011	6.58
13-Aug-2011	6.76	13-Oct-2011	6.53	13-Dec-2011	6.44
15-Aug-2011	7.03	15-Oct-2011	5.19	15-Dec-2011	7.15
17-Aug-2011	6.40	18-Oct-2011	5.21	17-Dec-2011	6.60
19-Aug-2011	6.74	20-Oct-2011	6.04	20-Dec-2011	6.68
23-Aug-2011	6.21	22-Oct-2011	6.86	22-Dec-2011	7.14
25-Aug-2011	5.07	25-Oct-2011	6.58	24-Dec-2011	7.91
27-Aug-2011	4.44	27-Oct-2011	6.39	29-Dec-2011	6.90
30-Aug-2011	6.71	29-Oct-2011	5.92	31-Dec-2011	6.63
1-Sep-2011	7.18	1-Nov-2011	5.66	3-Jan-2012	6.22
3-Sep-2011	7.32	3-Nov-2011	6.64	5-Jan-2012	6.90
6-Sep-2011	5.86	5-Nov-2011	6.58	7-Jan-2012	5.10
8-Sep-2011	5.66	8-Nov-2011	5.47	10-Jan-2012	7.10
10-Sep-2011	6.88	10-Nov-2011	6.72	12-Jan-2012	7.25
12-Sep-2011	6.44	12-Nov-2011	6.53	14-Jan-2012	6.90
15-Sep-2011	6.09	15-Nov-2011	6.51	17-Jan-2012	7.60
17-Sep-2011	5.73	17-Nov-2011	4.74	19-Jan-2012	6.50
20-Sep-2011	6.26	19-Nov-2011	4.62	21-Jan-2012	8.41
22-Sep-2011	4.49	22-Nov-2011	5.09	26-Jan-2012	8.89
24-Sep-2011	6.43	24-Nov-2011	5.70	28-Jan-2012	7.62
26-Sep-2011	5.36	26-Nov-2011	5.69	31-Jan-2012	7.18
28-Sep-2011	5.91	29-Nov-2011	5.38		

### Remarks:

Red highlight: The value is exceeded Limit Level (<**8.61**)

Yellow highlight: The value is exceeded Action Level (<**8.71**)

### Appendix E – Location of TR6 at Tung Tze Stream



# EP-303/2008 Dissolved Oxygen Level at Tung Tze Stream Dry Season

				DO (mg/l)
Tolo Harbour And Channel	Tung Tze Stream	TR6	3/1/2001	8.1
Tolo Harbour And Channel	Tung Tze Stream	TR6	12/2/2001	10.2
Tolo Harbour And Channel	Tung Tze Stream	TR6	16/3/2001	5
Tolo Harbour And Channel	Tung Tze Stream	TR6	19/4/2001	6.6
Tolo Harbour And Channel	Tung Tze Stream	TR6	12/10/2001	6.1
Tolo Harbour And Channel	Tung Tze Stream	TR6	16/11/2001	7.2
Tolo Harbour And Channel	Tung Tze Stream	TR6	17/12/2001	6.2
Tolo Harbour And Channel	Tung Tze Stream	TR6	18/1/2002	6.2
Tolo Harbour And Channel	Tung Tze Stream	TR6	20/2/2002	7.3
Tolo Harbour And Channel	Tung Tze Stream	TR6	18/3/2002	6.6
Tolo Harbour And Channel	Tung Tze Stream	TR6	18/4/2002	6.8
Tolo Harbour And Channel	Tung Tze Stream	TR6	3/10/2002	4.9
Tolo Harbour And Channel	Tung Tze Stream	TR6	4/11/2002	6.9
Tolo Harbour And Channel	Tung Tze Stream	TR6	5/12/2002	5.4
Tolo Harbour And Channel	Tung Tze Stream	TR6	3/1/2003	7.3
Tolo Harbour And Channel	Tung Tze Stream	TR6	7/2/2003	7.4
Tolo Harbour And Channel	Tung Tze Stream	TR6	6/3/2003	6.4
Tolo Harbour And Channel	Tung Tze Stream	TR6	10/4/2003	7.1
Tolo Harbour And Channel	Tung Tze Stream	TR6	8/10/2003	4.8
Tolo Harbour And Channel	Tung Tze Stream	TR6	6/11/2003	5.9
Tolo Harbour And Channel	Tung Tze Stream	TR6	4/12/2003	7.5
Tolo Harbour And Channel	Tung Tze Stream	TR6	9/1/2004	6.1
Tolo Harbour And Channel	Tung Tze Stream	TR6	4/2/2004	8.3
Tolo Harbour And Channel	Tung Tze Stream	TR6	3/3/2004	6
Tolo Harbour And Channel	Tung Tze Stream	TR6	2/4/2004	7.2
Tolo Harbour And Channel	Tung Tze Stream	TR6	8/10/2004	4.9
Tolo Harbour And Channel	Tung Tze Stream	TR6	4/11/2004	5.9
Tolo Harbour And Channel	Tung Tze Stream	TR6	2/12/2004	5.1
Tolo Harbour And Channel	Tung Tze Stream	TR6	7/1/2005	7.8
Tolo Harbour And Channel	Tung Tze Stream	TR6	1/2/2005	5.2
Tolo Harbour And Channel	Tung Tze Stream	TR6	4/3/2005	8.2
Tolo Harbour And Channel	Tung Tze Stream	TR6	8/4/2005	5.1
Tolo Harbour And Channel	Tung Tze Stream	TR6	7/10/2005	5.4
Tolo Harbour And Channel	Tung Tze Stream	TR6	3/11/2005	5.7
Tolo Harbour And Channel	Tung Tze Stream	TR6	5/12/2005	5.1
Tolo Harbour And Channel	Tung Tze Stream	TR6	5/1/2006	5.3
Tolo Harbour And Channel	Tung Tze Stream	TR6	3/2/2006	6
Tolo Harbour And Channel	Tung Tze Stream	TR6	8/3/2006	5.5
Tolo Harbour And Channel	Tung Tze Stream	TR6	3/4/2006	8.4
Tolo Harbour And Channel	Tung Tze Stream	TR6	5/10/2006	6.6
Tolo Harbour And Channel	Tung Tze Stream	TR6	3/11/2006	5.5
Tolo Harbour And Channel	Tung Tze Stream	TR6	5/12/2006	7.4

### EP-303/2008 Dissolved Oxygen Level at Tung Tze Stream Dry Season

				DO (mg/l)
Tolo Harbour And Channel	Tung Tze Stream	TR6	5/1/2007	5.9
Tolo Harbour And Channel	Tung Tze Stream	TR6	2/2/2007	7.3
Tolo Harbour And Channel	Tung Tze Stream	TR6	2/3/2007	5.2
Tolo Harbour And Channel	Tung Tze Stream	TR6	13/4/2007	5.3
Tolo Harbour And Channel	Tung Tze Stream	TR7	4/10/2007	5.5
Tolo Harbour And Channel	Tung Tze Stream	TR6	2/11/2007	5
Tolo Harbour And Channel	Tung Tze Stream	TR6	4/12/2007	7.3
Tolo Harbour And Channel	Tung Tze Stream	TR6	7/1/2008	6.7
Tolo Harbour And Channel	Tung Tze Stream	TR6	13/2/2008	6.9
Tolo Harbour And Channel	Tung Tze Stream	TR6	6/3/2008	6.1
Tolo Harbour And Channel	Tung Tze Stream	TR6	10/4/2008	6.6
Tolo Harbour And Channel	Tung Tze Stream	TR6	20/10/2008	5.6
Tolo Harbour And Channel	Tung Tze Stream	TR6	13/11/2008	6.3
Tolo Harbour And Channel	Tung Tze Stream	TR6	2/12/2008	7
Tolo Harbour And Channel	Tung Tze Stream	TR6	7/1/2009	7.3
Tolo Harbour And Channel	Tung Tze Stream	TR6	6/2/2009	6.9
Tolo Harbour And Channel	Tung Tze Stream	TR6	5/3/2009	6.7
Tolo Harbour And Channel	Tung Tze Stream	TR6	20/4/2009	5.2
Tolo Harbour And Channel	Tung Tze Stream	TR6	16/10/2009	4.7
Tolo Harbour And Channel	Tung Tze Stream	TR6	16/11/2009	6.9
Tolo Harbour And Channel	Tung Tze Stream	TR6	16/12/2009	7
Tolo Harbour And Channel	Tung Tze Stream	TR6	6/1/2010	6.6
Tolo Harbour And Channel	Tung Tze Stream	TR6	18/2/2010	7.4
Tolo Harbour And Channel	Tung Tze Stream	TR6	3/3/2010	5.4
Tolo Harbour And Channel	Tung Tze Stream	TR6	8/4/2010	6.5
Tolo Harbour And Channel	Tung Tze Stream	TR6	20/10/2010	6.4
Tolo Harbour And Channel	Tung Tze Stream	TR6	17/11/2010	6.6
Tolo Harbour And Channel	Tung Tze Stream	TR6	15/12/2010	5.6

### EP-303/2008 Dissolved Oxygen Level at Tung Tze Stream Wet Season

				DO (mg/l)
Tolo Harbour And Channel	Tung Tze Stream	TR6	24/5/2001	6.1
Tolo Harbour And Channel	Tung Tze Stream	TR6	15/6/2001	5.7
Tolo Harbour And Channel	Tung Tze Stream	TR6	11/7/2001	7.9
Tolo Harbour And Channel	Tung Tze Stream	TR6	3/8/2001	6.6
Tolo Harbour And Channel	Tung Tze Stream	TR6	19/9/2001	5.2
Tolo Harbour And Channel	Tung Tze Stream	TR6	22/5/2002	4.1
Tolo Harbour And Channel	Tung Tze Stream	TR6	7/6/2002	5
Tolo Harbour And Channel	Tung Tze Stream	TR6	4/7/2002	5.4
Tolo Harbour And Channel	Tung Tze Stream	TR6	2/8/2002	5.7
Tolo Harbour And Channel	Tung Tze Stream	TR6	4/9/2002	5.8
Tolo Harbour And Channel	Tung Tze Stream	TR6	14/5/2003	5.7
Tolo Harbour And Channel	Tung Tze Stream	TR6	9/6/2003	4.9
Tolo Harbour And Channel	Tung Tze Stream	TR6	11/7/2003	6.2
Tolo Harbour And Channel	Tung Tze Stream	TR6	8/8/2003	5.8
Tolo Harbour And Channel	Tung Tze Stream	TR6	5/9/2003	5.6
Tolo Harbour And Channel	Tung Tze Stream	TR6	7/5/2004	6.5
Tolo Harbour And Channel	Tung Tze Stream	TR6	4/6/2004	5.8
Tolo Harbour And Channel	Tung Tze Stream	TR6	7/7/2004	5.2
Tolo Harbour And Channel	Tung Tze Stream	TR6	9/8/2004	6.5
Tolo Harbour And Channel	Tung Tze Stream	TR6	2/9/2004	6.7
Tolo Harbour And Channel	Tung Tze Stream	TR6	6/5/2005	6
Tolo Harbour And Channel	Tung Tze Stream	TR6	3/6/2005	5.8
Tolo Harbour And Channel	Tung Tze Stream	TR6	8/7/2005	6.4
Tolo Harbour And Channel	Tung Tze Stream	TR6	3/8/2005	5.5
Tolo Harbour And Channel	Tung Tze Stream	TR6	2/9/2005	6.5
Tolo Harbour And Channel	Tung Tze Stream	TR6	11/5/2006	5.2
Tolo Harbour And Channel	Tung Tze Stream	TR6	16/6/2006	7
Tolo Harbour And Channel	Tung Tze Stream	TR6	5/7/2006	5.6
Tolo Harbour And Channel	Tung Tze Stream	TR6	2/8/2006	6.7
Tolo Harbour And Channel	Tung Tze Stream	TR6	6/9/2006	5

### EP-303/2008 Dissolved Oxygen Level at Tung Tze Stream Wet Season

				DO (mg/l)
Tolo Harbour And Channel	Tung Tze Stream	TR6	3/5/2007	6.3
Tolo Harbour And Channel	Tung Tze Stream	TR6	1/6/2007	5.1
Tolo Harbour And Channel	Tung Tze Stream	TR6	5/7/2007	7.3
Tolo Harbour And Channel	Tung Tze Stream	TR6	2/8/2007	6.9
Tolo Harbour And Channel	Tung Tze Stream	TR6	10/9/2007	6.1
Tolo Harbour And Channel	Tung Tze Stream	TR6	16/5/2008	5.5
Tolo Harbour And Channel	Tung Tze Stream	TR6	18/6/2008	5.4
Tolo Harbour And Channel	Tung Tze Stream	TR6	18/7/2008	5.5
Tolo Harbour And Channel	Tung Tze Stream	TR6	25/8/2008	6.1
Tolo Harbour And Channel	Tung Tze Stream	TR6	18/9/2008	4.1
Tolo Harbour And Channel	Tung Tze Stream	TR6	7/5/2009	6
Tolo Harbour And Channel	Tung Tze Stream	TR6	3/6/2009	5.4
Tolo Harbour And Channel	Tung Tze Stream	TR6	17/7/2009	5.5
Tolo Harbour And Channel	Tung Tze Stream	TR6	7/8/2009	4.9
Tolo Harbour And Channel	Tung Tze Stream	TR6	17/9/2009	5.3
Tolo Harbour And Channel	Tung Tze Stream	TR6	27/5/2010	5.8
Tolo Harbour And Channel	Tung Tze Stream	TR6	30/6/2010	6.8
Tolo Harbour And Channel	Tung Tze Stream	TR6	19/7/2010	5
Tolo Harbour And Channel	Tung Tze Stream	TR6	13/8/2010	6.7
Tolo Harbour And Channel	Tung Tze Stream	TR6	9/9/2010	6.5

# EP-303/2008 Dissolved Oxygen Level at Tung Tze Stream Median of Dry Season

Date	DO(mg/l)
3/1/2001	8.1
12/2/2001	10.2
16/3/2001	5
19/4/2001	6.6
12/10/2001	6.1
16/11/2001	7.2
17/12/2001	6.2
18/1/2002	6.2
20/2/2002	7.3
18/3/2002	6.6
18/4/2002	6.8
3/10/2002	4.9
4/11/2002	6.9
5/12/2002	5.4
3/1/2003	7.3
7/2/2003	7.4
6/3/2003	6.4
10/4/2003	7.1
8/10/2003	4.8
6/11/2003	5.9
4/12/2003	7.5
9/1/2004	6.1
4/2/2004	8.3
3/3/2004	6
2/4/2004	7.2
8/10/2004	4.9
4/11/2004	5.9
2/12/2004	5.1
7/1/2005	7.8
1/2/2005	5.2
4/3/2005	8.2
8/4/2005	5.1
7/10/2005	5.4
3/11/2005	5.7
5/12/2005	5.1

For 2001 to	2010
Minimum	4.7
Median	6.40
Maximum	10.2
Mean	6.38

EP-303/2008 Dissolved Oxygen Level at Tung Tze Stream Median of Dry Season

Date	DO(mg/l)
5/1/2006	5.3
3/2/2006	6
8/3/2006	5.5
3/4/2006	8.4
5/10/2006	6.6
3/11/2006	5.5
5/12/2006	7.4
5/1/2007	5.9
2/2/2007	7.3
2/3/2007	5.2
13/4/2007	5.3
4/10/2007	5.5
2/11/2007	5
4/12/2007	7.3
7/1/2008	6.7
13/2/2008	6.9
6/3/2008	6.1
10/4/2008	6.6
20/10/2008	5.6
13/11/2008	6.3
2/12/2008	7
7/1/2009	7.3
6/2/2009	6.9
5/3/2009	6.7
20/4/2009	5.2
16/10/2009	4.7
16/11/2009	6.9
16/12/2009	7
6/1/2010	6.6
18/2/2010	7.4
3/3/2010	5.4
8/4/2010	6.5
20/10/2010	6.4
17/11/2010	6.6
15/12/2010	5.6

For 2007 to	2010
Minimum	4.7
Median	6.55
Maximum	7.4
Mean	6.28

For 2010				
Minimum	5.4			
Median	6.50			
Maximum	7.4			
Mean	6.36			

### EP-303/2008 Dissolved Oxygen Level at Tung Tze Stream Median of Wet Season

Date	DO(mg/l)
24/5/2001	6.1
15/6/2001	5.7
11/7/2001	7.9
3/8/2001	6.6
19/9/2001	5.2
22/5/2002	4.1
7/6/2002	5
4/7/2002	5.4
2/8/2002	5.7
4/9/2002	5.8
14/5/2003	5.7
9/6/2003	4.9
11/7/2003	6.2
8/8/2003	5.8
5/9/2003	5.6
7/5/2004	6.5
4/6/2004	5.8
7/7/2004	5.2
9/8/2004	6.5
2/9/2004	6.7
6/5/2005	6
3/6/2005	5.8
8/7/2005	6.4
3/8/2005	5.5
2/9/2005	6.5
11/5/2006	5.2
16/6/2006	7
5/7/2006	5.6
2/8/2006	6.7
6/9/2006	5
3/5/2007	6.3
1/6/2007	5.1
5/7/2007	7.3
2/8/2007	6.9
10/9/2007 16/5/2008	6.1 5.5
18/6/2008	5.5 5.4
18/7/2008	5.5
25/8/2008	6.1
18/9/2008	4.1

For 2001 to 2010				
Minimum	4.1			
Median	5.80			
Maximum	7.9			
Mean	5.85			

For 2007 to 2010					
Minimum	4.1				
Median	5.65				
Maximum	7.3				
Mean	5.81				

# EP-303/2008 Dissolved Oxygen Level at Tung Tze Stream Median of Wet Season

Date	DO(mg/l)		
7/5/2009	6		
3/6/2009	5.4		
17/7/2009	5.5		
7/8/2009	4.9		
17/9/2009	5.3		
27/5/2010	5.8		
30/6/2010	6.8		
19/7/2010	5		
13/8/2010	6.7		
9/9/2010	6.5		

For 2010					
Minimum	5.0				
Median	6.50				
Maximum	6.8				
Mean	6.16				

Appendix H – W3 Monitoring data of dissolved oxygen from August 2011 to January 2012 with applying 13.74% variation

<b>Monitoring Date</b>	DO mg/L	Monitoring Date	DO mg/L	<b>Monitoring Date</b>	DO mg/L
1-Aug-2011	6.93	30-Sep-2011	5.52	1-Dec-2011	5.68
3-Aug-2011	7.31	4-Oct-2011	5.09	3-Dec-2011	5.09
6-Aug-2011	6.89	6-Oct-2011	5.12	6-Dec-2011	6.17
8-Aug-2011	7.26	8-Oct-2011	5.89	8-Dec-2011	5.59
11-Aug-2011	6.01	11-Oct-2011	6.09	10-Dec-2011	6.58
13-Aug-2011	6.76	13-Oct-2011	6.53	13-Dec-2011	6.44
15-Aug-2011	7.03	15-Oct-2011	5.19	15-Dec-2011	7.15
17-Aug-2011	6.40	18-Oct-2011	5.21	17-Dec-2011	6.60
19-Aug-2011	6.74	20-Oct-2011	6.04	20-Dec-2011	6.68
23-Aug-2011	6.21	22-Oct-2011	6.86	22-Dec-2011	7.14
25-Aug-2011	5.07	25-Oct-2011	6.58	24-Dec-2011	7.91
27-Aug-2011	4.44	27-Oct-2011	6.39	29-Dec-2011	6.90
30-Aug-2011	6.71	29-Oct-2011	5.92	31-Dec-2011	6.63
1-Sep-2011	7.18	1-Nov-2011	5.66	3-Jan-2012	6.22
3-Sep-2011	7.32	3-Nov-2011	6.64	5-Jan-2012	6.90
6-Sep-2011	5.86	5-Nov-2011	6.58	7-Jan-2012	5.10
8-Sep-2011	5.66	8-Nov-2011	5.47	10-Jan-2012	7.10
10-Sep-2011	6.88	10-Nov-2011	6.72	12-Jan-2012	7.25
12-Sep-2011	6.44	12-Nov-2011	6.53	14-Jan-2012	6.90
15-Sep-2011	6.09	15-Nov-2011	6.51	17-Jan-2012	7.60
17-Sep-2011	5.73	17-Nov-2011	4.74	19-Jan-2012	6.50
20-Sep-2011	6.26	19-Nov-2011	4.62	21-Jan-2012	8.41
22-Sep-2011	4.49	22-Nov-2011	5.09	26-Jan-2012	8.89
24-Sep-2011	6.43	24-Nov-2011	5.70	28-Jan-2012	7.62
26-Sep-2011	5.36	26-Nov-2011	5.69	31-Jan-2012	7.18
28-Sep-2011	5.91	29-Nov-2011	5.38		

### **Remarks:**

Red highlight: The value is exceeded Limit Level (<7.43)

Yellow highlight: The value is exceeded Action Level (<7.51)

# Appendix I

### EP-303/2008 Enquiry of Revision for Action/Limit Level Criteria of Water Quality Monitoring

### **Reference Cases**

Case	Environmental Permit No.	Propject Title	EM&A Manual	EIA Report	Limit Level for Water Quality - DO
1.	EP-434/2012	Drainage Improvements in Southern Lantau	Section 4.8.1, Table 4.1		4mg/L
2.	EP-429/2012	Development of the Integrated Waste Management Facilities Phase 1	Section 4a.7.12, Table 4a.4		4mg/L
3.	EP-413/2011	Integration of Siu Ho Wan and Silver Mine Bay Water Treatment Works	Section 4.7.8, Table 4.2		4mg/L
4.	EP-334/2009	Sludge Treatment Facilities	Section 5.8.1.1, Table 5.3		4mg/L
5.	EP-224/2005	Proposed Extension of Public Golf Course at Kau Sai Chau, Sai Kung	Section 3.9.1, Table 3.8		4mg/L
6.	EP-217/2005	Drainage Improvements in Sai Kung		Section 4.7.3, Table 4.2	4mg/L
7.	EP-190/2004	Improvements to San Tin Interchange	Section 4.25, Table 4.1		4mg/L

Appendix P Site Diary

**Environmental Pioneers and Solutions Limited** 

# AECOM ASIA COMPANY LTD. ENGINEER'S SITE DIARY

Client Department: Drainage Services Department

Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

Contractor: KWAN LEE - KULY JOINT VENTURE

Weather:

Typhoon / Warning Signal:

1110.. De/200//22 Date. 01/0

Contract No.: DC/2009/22 Date: 01/07/2012

AM Fine <u>PM</u> Fine Rainfall (mm)

ST 0.5, TP 2

Day: Sunday

(Hong Kong Observatory's record)

Instructions to Contractor	Contractor's Site Staff No.	Labour	Code	No.	Labour	Cal	NI		
(Record verbal instructions given)	To an action is blue stant		Cour	140.	Labour	Code	No.	Plant	
		Asphalter (Other Construction)	C301		Chainman	C401		Type	No. Working No. I
	:	Asphalter (Roadworks)	C302		Concreting Labourer	C402		Backhoe	8
		Bamboo Scaffolder	C303		Diver's Linesman / Dredger Crew / Barge Crew	C403		Backhoe with Vibrating Hammer	1
		Bar Bender & Fixer	C304		Excavator	C404		Generator	
		Bricklayer	C305		Heavy Load Labourer	C405		Steel Bending Machine	
Comments by Engineer's / Contractor's Representative		Carpenter (Fender)	C306		Labourer (male / female) / Lorry checker / Watchman/Office attendan	C406	4	Water Pump 50mm	6 1
		Carpenter (Formwork)	C307		Sewerman	C407		Water Pump 75mm	1 1
	;	Concrete Repairer	C308		Automation Equipment Mechanic	E301			
		Concretor	C309		Building Services Mechanic	E302	i		
		Construction Plant Mechanic	C310		Cable Jointer (Power)	E303			
		Curtain Wall Installer	C311		Carpenter	E304			
Utilities		Demolition Worker	C312		Electrician/Electrical Fitter	E305			
(Record location & nature of works)		Diver	C313		Fire Services Mechanic	E306			
(Accord location & nature of norms)		Drainlayer	C314		Instrument Mechanic	E307			
		Electrician (Main Contractor's)	C315		Lift Electrician	E308			
		Floor Layer	C316		Lift Mechanic	E309	1		1
		Gas Plumber	C317		Mechanical Fitter	E310			· · · · · · · · · · · · · · · · · · ·
		General Welder	C318		Overhead Linesman	E311			
		Glazier	C319		Painter	E312			
		Ground Investigation Operator/Driller/Borer	C320		Plumber and Pipe Fitter	E313			
		Grouting Worker	C321	1	Refrigeration/AC/Ventilation Mechanic	E314	1		
		Joiner	C322		Sheet Metal Worker	E315			
		Leveller	C323		Sign Fabricator	E316			
		Marble Worker	C324	1	Sign Installer	E317			
		Marine Construction Plant Operator	C325	{	Thermal Insulation Craftsman	E318		" '	The Francisco State of the Stat
Progress		Mason	C326		Welder	E319			
(Mention briefly any matter delaying or obstructing progress)		Metal Scaffolder	C327		Labourer	E401	1		
		Metal Worker	C328		Semi-skilled Worker	E402	1		
		Painter & Decorator	C329		Technician	Т	····· 1		
		Piling Operative	C330			T 7			1 1
		Pipelayer	C331	1		ii.	.		
Visitor		Plant and Equipment Operator (Builder's Lift and Other Machinery)	C332	1			1		
(Record names of visitors and time of visit)		Plant & Equipment Operator (Earthmoving Machinery)	C333						
(Accord names of visitors and time of visit)		Plant and Equipment Operator (Hoist and Crane)	C334			:			11
		Plant and Equipment Operator (Piling)	C335						
		Plant and Equipment Operator (Tunnelling)	C336			i			<u> </u>
		Plasterer	C337						
		Plumber	C338			i :			
Accidents		Pneumatic Driller	C339	1		1 1	1		
(Describe any occurance of accident)		Prestressing Operative	C340				···	200 - 100 -	
		Rigger/Metal Formwork Erector	C341			· · · · · · · · · · · · · · · · · · ·			*
		Shotcretor	C342				1		
		Shotfirer	C343	j		i i i	- 1		man firm or annum firm
		Slope Maintenance Worker	C344						
		Structural Steel Erector	C345		*****				
Remarks	<b>l</b>	Structural Steel Welder	C346						
		Tiler	C347				1		
		Trackworker	C348						The state of the s
		Truck Driver / Coxswain / Barge Engineer / Working Ganger*	C349						
		Window Frame Installer	C350						
	Total		1	1					
	Assistance to Engineer No.		.ii.						
			.l	<b>.</b> l			. 1		:
	Driver 1		1				· · · · · · · · · · · · · · · · · · ·	1	
	Watchman 1								
				1					
						•	. 1		
									1 1
			1	]					
			1						
	Total 2	(To be continued)	4	1	Total Labour			h	

* Working ganger is equivalent to ordinary worker in the trade in which	h
he is employed or, if the trade is not listed, truck driver	
(refer to GS Table 1.1)	

Day's record and instructions checked and agreed

Duplicate - Contractor

Signed:

Engineer's Representative

Name/Post: Andrew Lau/Resident Engineer

Date:

Date.

Signed:

Contractor's Representative

Wong Ching Lung / Site Agent

Signed:

IOW

Tso Sai Kuen / Inspector of Works

Original - ER's File

Date:

Date:

3/7/2012

Idling Code:

Contract No.: DC/2009/22 Date: 01/07/2012

Day: Sunday

a Breakdown e Bad Weather b Standby f Task Completed g No Operator h Not Required c Awaiting Instruction d Assemble/Disassemble

e	n Not Required
	i Sunday/Public Holiday

Time	Location	Activity	Labour				Pla	nt			1	Material De	elivered
	-					Туре	Wo	rking	T	Idling		Description	Quantity
			Trade	Code	No.		No.	ID	No.	ID	Code		***************************************
	Area A - DN1800 Stormwater Drain	No activity as per KLKJV arrangement					1	1	1				1
·····	Storitwater Diani							<del> </del>	<u> </u>	ļ	ļ		
	Area A - Pump Station	No activity as per KLKJV arrangement				Backhoe		<b>_</b>	<del> </del>		<u> </u>		
		The world of the state of the s				Backhoe	<del></del>	<del>                                     </del>	<del>                                     </del>	EX28	i		<del> </del>
						Backhoe		╂	1	EX47	1		
	<u> </u>				<del> </del>	Steel Bending Machine	<del>- </del>	-	1	EX50	1		
					<del> </del>	Water Pump 50mm	2	ļ	3	-	i		
						Water Pump 75mm	1 -	<del> </del>	-	<del> </del>			<del> </del>
					<del> </del>	water tump / Janu	-   '	<del>                                     </del>	╂	+			<del> </del>
***************************************	Area A - Pump Station -	No activity as per KLKJV arrangement					-	<del> </del>	<del> </del>	<u> </u>	<del>  </del>		
	Box Culvert												
								T	1			***************************************	
07:00 - 18:00 18:00 - 23:00	Area A - Ting Kok Road	Manual control of "stop/go" sign for traffic flow regulation (3 F/Lab.)  Manual control of temporary traffic light for traffic flow regulation (1 M/lab. from Area I)	Labourer (female)	C406	3	Backhoe			1	EX36	i		
						Backhoe		1	1 1	EX39	i		1
					<u>t</u>	Backhoe with Vibrating	_	<del> </del>		EX48	<del>                                     </del>		+
***************************************						Hammer							
						Water Pump 50mm	2						
	Anno A Time W1. D 1	Al. of the Manual Control of the Con											
	(Intake Structure)	No activity as per KLKJV arrangement		ĺ		Water Pump 50mm	1						
<del>"</del>							+	<del>                                     </del>	-	┨───		·	
	Area B - Tung Tsz	No activity as per KLKJV arrangement				Backhoe		<del> </del>	<del> </del>	EX25	i		
	Nursery (CH130-CH280)					Buokinoo			,	LAZS	'		1
	Area B - Tung Tsz Nursery (CH40-CH130)	No activity as per KLKJV arrangement			.,,,,,,	Backhoe			1	EX46	i		
	runsary (C1140-C11150)					· · · · · · · · · · · · · · · · · · ·		ļ	<u> </u>	<u> </u>			<u> </u>
						Generator	-	ļ	<del>                                     </del>	<del> </del>	i		
						Water Pump 50mm Water Pump 75mm	<del>- </del>		<u> </u>	<u> </u>	i		
					·····	water Pump /Sinm		<b> </b>	1	ļ	i		<del></del>
	Area B - Tung Tsz	No activity as per KLKJV arrangement				Water Duran 50	+		<u> </u>	<del>                                     </del>	<b></b>	····	
	Nursery (Jacking Pit)					Water Pump 50mm	1						
	Area E - Siu Lek Yuen	No activity as per KLKJV arrangement				Backhoe			1	EX21	i		
	Rd.Playground					Dacking				EAZI	1		
						Generator			1		i		
								T	T			***************************************	

ray's record and instructions checked and agreed						
riginal - ER's File						$\bigcap_{i \in I} O_{i}$
uplicate - Contractor	Signed:	Engineer's Representative	Signed:	Contractor's Representative	Signed:	IOW
	Name/Post:	Andrew Lau/Resident Engineer		Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
	Date:		Date:		Date:	3/7/2012

Idling Code:

Contract No.: DC/2009/22 Date: 01/07/2012

Day: Sunday

a Breakdown b Standby

e Bad Weather f Task Completed

c Awaiting Instruction

g No Operator d Assemble/Disassemble h Not Required

n rot required	
i Sunday/Public	Holiday

Time	Location	Activity	La	our					Material Delivered								
	İ							Туре		Type	Wo	rking		Idling		Description	Quantity
				Trade		Code	No.		No.	ID	No.	ID	Code				
············	Area F - Lek Yuen Street Rest Garden	No activity as per KLKJV arrangement								1							
	Area G - Noan Shing St	No activity as per KLKJV arrangement										<b></b>					
	- For Control of the	rot torrity as per recks v arrangement							-	-		-			<u> </u>		
8:00 - 18:00	Area I - Contractor Office	Office cleaning and site patrol		Labourer (male)	1	C406	1			ļ	1	<del>                                     </del>					

Day's record and instructions checked and agreed						
Original - ER's File						
Duplicate - Contractor	Signed:		Signed:		Signed:	
	Er	ngineer's Representative	=	Contractor's Representative	<b>g</b>	IOW
	Name/Post:	Andrew Lau/Resident Engineer		Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
	Date:		Date:	······································	Date:	3/7/2012

Client Department: Drainage Services Department

Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

Contractor: KWAN LEE - KULY JOINT VENTURE

Weather:  $\underline{AM}$ 

Typhoon / Warning Signal:

Nil

Rainfall (mm)

Fine ST 0.5, TP 0

<u>PM</u>

Instructions to Contractor	Contractor's Site Staff No.	Labour	Code	No.	Labour	Code No.	Pla	nt
(Record verbal instructions given)		Asphalter (Other Construction)	C301			·		
		Asphalter (Roadworks)	C302		Chainman Concreting Labourer	C401	Type	No. Working No. 1d
		Bamboo Scaffolder	C303		Diver's Linesman / Dredger Crew / Barge Crew	C402 C403	Backhoe Backhoe with Vibrating Hammer	8
		Bar Bender & Fixer	C304		Excavator	C403	1 1	
		Bricklayer	C305		Heavy Load Labourer	C405	Generator Steel Bending Machine	
Comments by Engineer's / Contractor's Representative		Carpenter (Fender)	C306		Labourer (male : female) / Lorry checker / Watchman Office attenda	in C406 4	Water Pump 50mm	£ : }
	:	Carpenter (Formwork)	C307		Sewerman	C407	Water Pump 75mm	1 1
		Concrete Repairer	C308		Automation Equipment Mechanic	E301		
		Concretor	C309		Building Services Mechanic	E302		
		Construction Plant Mechanic	C310		Cable Jointer (Power)	E303		
		Curtain Wall Installer	C311		Carpenter	E304		<u> </u>
Utilities		Demolition Worker	C312		Electrician/Electrical Fitter	E305		
(Record location & nature of works)		Diver Drainlayer	C313		Fire Services Mechanic	E306		
		Electrician (Main Contractor's)	C314 C315		Instrument Mechanic Lift Electrician	E307		<u> </u>
		Floor Layer	C316		Lift Mechanic	E308		
		Gas Plumber	C317		Mechanical Fitter	E309 E310		
		General Welder	C318		Overhead Linesman	E311		
		Glazier	C319		Painter	E312	tradem to a company that contains a contain the contains and a contain the contains and the contains a contain	
		Ground Investigation Operator/Driller/Borer	C320		Plumber and Pipe Fitter	E313		
		Grouting Worker	C321		Refrigeration/AC/Ventilation Mechanic	E314		
		Joiner	C322		Sheet Metal Worker	E315		
		Leveller	C323		Sign Fabricator	E316		
		Marble Worker	C324	. [	Sign Installer	E317		÷ :
Progress	<b>—</b>	Marine Construction Plant Operator	C325		Thermal Insulation Craftsman	E318		
(Mention briefly any matter delaying or obstructing progress)	<b>  </b>	Mason	C326	1	Welder	E319		
and the state of t		Metal Scaffolder Metal Worker	C327		Labourer	E401		
		Painter & Decorator	C328		Semi-skilled Worker	E402		<u> </u>
		Piling Operative	C329 C330		Technician	T		
		Pipelayer	C331					
17:12		Plant and Equipment Operator (Builder's Lift and Other Machinery)	C332					
Visitor (Record names of visitors and time of visit)		Plant & Equipment Operator (Earthmoving Machinery)	C333			:		
(Accord names of visitors and time of visit)	<b>-11</b>	Plant and Equipment Operator (Hoist and Crane)	C334	1				<u> </u>
		Plant and Equipment Operator (Piling)	C335					
		Plant and Equipment Operator (Tunnelling)	C336					
		Plasterer	C337					
		Plumber	C338					
Accidents		Pneumatic Driller	C339					
(Describe any occurance of accident)		Prestressing Operative	C340			<u> </u>		
	71	Rigger Metal Formwork Erector Shotcretor	C341					
		Shotfirer	C342 C343	.		<u>.</u>		
		Slope Maintenance Worker	C344			<u> </u>		
		Structural Steel Erector	C345	1				
Remarks		Structural Steel Welder	C346					
		Tiler	C347	1				
		Frackworker	C348	1	1,		· · · ·	
		Truck Driver / Coxswain : Barge Engineer / Working Ganger*	C349					
		Window Frame Installer	C350					
	Total		·					
	Assistance to Engineer No.							
	Driver 1					;		i
	Watchman 1		ļi	·				
	Traccinian : 1		÷					
	1	† †· · · · · · · · · · · · · · · · · ·	100	l				
						· · · · · · · · · · · · · · · · · · ·		
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	:							na matematica memora anti-article and a second
			: :	ŀ				

he is employed or, if the trade is not listed, truck driver (refer to GS Table 1.1)	Signed:	Signed:	Signed:
Day's record and instructions checked and agreed	Engineer's Representative	Contractor's Representative	IOW
	Name/Post: Andrew Lau/Resident Engineer	Wong Ching Lung / Site Agent	Tso Sai Kuen / Inspector of Works
Original - ER's Fite	Date:	Date:	Date: 3-7-2012
Duplicate - Contractor			

Contract No.: DC/2009/22 Date: 02/07/2012

Day: Monday

Idling Code:

Contract No.: DC/2009/22 Date: 02/07/2012

Day: Monday

a Breakdown e Bad Weather b Standby

f Task Completed g No Operator

c Awaiting Instruction d Assemble/Disassemble h Not Required

Time	Location	Activity	Labour				Pla	nt				Material De	livered
						Type	Wo	rking	T	Idling		Description	Quantity
			Trade	Code	No.	1	No.	ID	No.	ID	Code		
	Area A - DN1800 Stormwater Drain	No activity as per KLKJV arrangement	:										
*****	Stormwater Dram							ļ	<del> </del>				
	Area A - Pump Station	No activity as per KLKJV arrangement			<u> </u>	n 15		<u> </u>	<u> </u>				<u> </u>
		To december and an artist of an artist of the artist of th			<del> </del>	Backhoe			!	EX28	i		ļ
	<b> </b>				ļ	Backhoe Backhoe			<del>                                     </del>	EX47	i		<b></b>
						Steel Bending Machine	┥	├	1 ,	EX50	i	·····	
***************************************					<del> </del>	Water Pump 50mm	+		3	-	i		<u> </u>
<del>• • • • • • • • • • • • • • • • • • • </del>					<del> </del>	Water Pump 75mm	2	<b> </b>	<del> </del>	<b>-</b>			<u> </u>
***************************************						Water Fullip / Jillii	+	<del> </del>	-	+			
	Area A - Pump Station -	No activity as per KLKJV arrangement			<del> </del>			<del> </del>	<u> </u>	-			-
	Box Culvert												
^^ 10.00													
00 - 18:00 00 - 23:00	Area A - Ting Kok Road	Manual control of "stop.'go" sign for traffic flow regulation (3 F/Lab.)  Manual control of temporary traffic light for traffic flow regulation (1 M/Lab. from area I)	Labourer (female)	C406	3	Backhoe			1	EX36	i		
		interest of composity traine light for traine now regulation (1 M/Lab. Holli area 1)				Backhoe		<b> </b>	╀-,-	EV20			
···					ł	Backhoe with Vibrating		<u> </u>	<del>  1</del>	EX39	i		ļ
						Hammer			'	EX48	i		
						Water Pump 50mm	2						
									<b>1</b>	1			
	Area A - Ting Kok Road (Intake Structure)	No activity as per KLKJV arrangement				Water Pump 50mm	1						1
	(make sudeline)							<u> </u>	<u> </u>	<b>.</b>			ļ
	Area B - Tung Tsz	No activity as per KLKJV arrangement				7) 11		<del>                                     </del>	ļ	<u> </u>			
	Nursery (CH130-CH280)	To activity to post Tibro 1 arrangement				Backhoe			1	EX25	i		
								<b>†</b>		1			
	Area B - Tung Tsz	No activity as per KLKJV arrangement				Backhoe		<u> </u>	1	EX46	i		<b>†</b>
	Nursery (CH40-CH130)								ļ				
						Generator			1	<u> </u>	i		
						Water Pump 50mm			1	<u> </u>	i		ļ
						Water Pump 75mm	<del>                                     </del>	ļ	1		i		
	Area B - Tung Tsz	No activity as per KLKJV arrangement				111 / P 50	+		—	<b></b>			
	Nursery (Jacking Pit)					Water Pump 50mm							i i
							1		t				<del>                                     </del>
	Area E - Siu Lek Yuen	No activity as per KLKJV arrangement				Backhoe	1		1	EX21	i		
	Rd.Playground									<u> </u>			
· · · · · · · · · · · · · · · · · · ·						Generator			1	1	i		
								<u> </u>					

Day's record and instructions checked and agreed				
Original - ER's File  Ouplicate - Contractor				000
Supreme - Control of	Signed:  Engineer's Representative	Signed:  Contractor's Representative	Signed:	IOW
	Name/Post: Andrew Lau/Resident Engineer	Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
	Date:	Date:	Date:	3-7-2012

Idling Code:

Contract No.: DC/2009/22 Date: 02/07/2012

Day: Monday

a Breakdown e Bad Weather b Standby

f Task Completed g No Operator

c Awaiting Instruction d Assemble/Disassemble

h Not Required i Sunday/Public Holiday

Time	Location	Activity	Labour	Labour			Labour Plant								Material De	livered
						Туре	Wo	rking	T	Idling		Description	Quantity			
			Trade	Code	No.	1	No.	ID	No.	ID	Code					
	Area F - Lek Yuen Street Rest Garden	No activity as per KLKJV arrangement														
	Area G - Ngan Shing St.	No activity as per KLKJV arrangement														
08:00 - 18:00	Area I - Contractor Office	Office cleaning and site patrol	Labourer (male)	C406	1											

Day's record and instructions checked and agreed	
Original - ER's File	
Duplicate - Contractor  Signed:  Engineer's Representative  Signed:  Contractor's Repre	Signed: IOW
Name/Post: Andrew Lau/Resident Engineer Wong Ching Lung / S	Site Agent Tso Sai Kuen / Inspector of Works
Date: Date:	Date: 3 - 7 - 2012

Client Department: Drainage Services Department

Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

Contractor: KWAN LEE - KULY JOINT VENTURE

Weather:  $\underline{AM}$ 

Fine

Typhoon / Warning Signal:

<u>PM</u> Fine

Rainfall (mm) ST 0, TP 0

Very Hot Weather Warning - 13:45~24:00

Contract No.: DC/2009/22 Date: 03/07/2012

Day: Tuesday

(Hong Kong Observatory's record)

Instructions to Contractor	Control Site Staff	1							
(Record verbal instructions given)	Contractor's Site Staff No.	Labour	Code	No.	Labour	Code	No.	Plant	
8 32	Assistant Surveyor 1	Asphalter (Other Construction)	C301	. [	Chainman	C401		Type	No. Working No. Idi
	Chainman 3	Asphalter (Roadworks)	C302		Concreting Labourer	C402		Backhoe	5 I
	Community Liaison Officer 1	Bamboo Scaffolder	C303		Diver's Linesman / Dredger Crew / Barge Crew	C403	1	Backhoe with Vibrating Hammer	2
	CEG	Bar Bender & Fixer	C304	5	Excavator	C404		Blower	
	Contract Manager 1	Bricklayer	C305		Heavy Load Labourer	C405		Dump Truck	4
Comments by Engineer's / Contractor's Representative	Engineer	Carpenter (Fender)	C306		Labourer (male / female) / Lorry checker / Watchman/Office atten	dan C406	30	Generator	2
	Environmental Officer 1	Carpenter (Formwork)	C307		Sewerman	C407		Grab Lotry	1
	Foreman/Assistant Foreman 2	Concrete Repairer	C308		Automation Equipment Mechanic	E301		Oxy-Acetylene	3 1
	General Foreman	Concretor	C309		Building Services Mechanic	E302		Steel Bending Machine	3
	Labour Officer 1	Construction Plant Mechanic	C310		Cable Jointer (Power)	E303		Water Pump 50mm	8
	Land Surveyor 1	Curtain Wall Installer	C311		Carpenter	E304		Water Pump 75mm	3
Utilities	Project Director 1	Demolition Worker	C312		Electrician/Electrical Fitter	E305		Welding Set	3 1
(Record location & nature of works)	Project Manager 2	Diver	C313		Fire Services Mechanic	E306			
	Project Quantity Surveyor 1	Drainlayer	C314		Instrument Mechanic	E307			
	Quantity Surveyor	Electrician (Main Contractor's)	C315		Lift Electrician	E308	- 1		:
	Safety Officer I Site Agent 1	Floor Layer	C316		Lift Mechanic	E309			
		Gas Plumber	C317		Mechanical Fitter	E310			1
	Surveyor 1	General Welder	C318	3	Overhead Linesman	E311			
		Glazier Ground Investigation Operator/Driller/Borer	C319		Painter Pinter	E312			
		Grouting Worker	C320		Plumber and Pipe Fitter	E313	1		
		Doiner Vorker	C321 C322		Refrigeration/AC/Ventilation Mechanic	E314		· · · · · · · · · · · · · · · · · · ·	
	:	Leveller	C322		Sheet Metal Worker	E315			
		Marble Worker	C324		Sign Fabricator	E316			:
		Marine Construction Plant Operator	C324	ı	Sign Installer Thermal Insulation Craftsman	E317	ı	( )	
Progress		Mason	C326	-	Welder	E318			
(Mention briefly any matter delaying or obstructing progress)		Metal Scaffolder	C327	- 1	Labourer	E319 E401	ı		
		Metal Worker	C328	1	Semi-skilled Worker	E401			
		Painter & Decorator	C329		Technician	T			
		Piling Operative	C330		- Commonda			· ·	* * * * * * * * * * * * * * * * * * *
		Pipelayer	C331						
Visitor		Plant and Equipment Operator (Builder's Lift and Other Machinery)	C332						
(Record names of visitors and time of visit)	<b> </b>	Plant & Equipment Operator (Earthmoving Machinery)	C333	5					
(Record names of visitors and time of visit)		Plant and Equipment Operator (Hoist and Crane)	C334	2			[		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		Plant and Equipment Operator (Piling)	C335						:
		Plant and Equipment Operator (Tunnelling)	C336				1		
		Plasterer	C337	_2			]		
		Plumber	C338						
Accidents		Pneumatic Driller	C339						
(Describe any occurance of accident)		Prestressing Operative	C340						
		Rigger Metal Formwork Erector	C341						
		Shotcretor	C342			4 1	- 1		
		Shotfirer	C343						
		Slope Maintenance Worker	C344						
Remarks		Structural Steel Erector Structural Steel Welder	C345						
trea A - Backhoe EX50 off site	••••••••••••••••••••••••••••••••••••••	Tiler	C346						: : : : : : : : : : : : : : : : : : : :
		Trackworker	C347						
		Truck Driver / Coxswain / Barge Engineer - Working Ganger*	C348 C349	ا إ					
	***************************************	Window Frame Installer	C350	5					
	Total 20	HIROW Traine instance				·····			
			1 1	1			[		
	Assistance to Engineer No.								
	Amah 1		1				- 1	44	
	Coordinate Engineer 1			····					
	Drafting Assistant 1								and the second s
	Driver 2				· ·		1		
	Field Assistant 3								
	Office Assistant I					·	-		
	Watchman 1						1		**************************************
	Total 10	To be continued)	<u> </u>		Total Labour		52	Total	35 3
							16	EA-VISIE	

* Working ganger is equivalent to ordinary worker in the trade in which
he is employed or, if the trade is not listed, truck driver
(refer to CS Table 1-1)

Day's record and instructions checked and agreed

Signed:

Engineer's Representative

Name/Post: Andrew Lau/Resident Engineer

Date:

Signed:

Date:

Contractor's Representative

Wong Ching Lung / Site Agent

Signed:

Date:

IOW

Tso Sai Kuen / Inspector of Works

4-7-2012

Original - ER's File Duplicate - Contractor

Sheet 1 of 3

Idling Code:

Contract No.: DC/2009/22 Date: 03/07/2012

Day: Tuesday

a Breakdown b Standby

e Bad Weather f Task Completed

c Awaiting Instruction

g No Operator

d Assemble Disassemble h Not Required

Time	Location	Activity	Labour				Pla	nt				Material De	livered
						Туре	Working			Idling		Description	Quantity
			Trade	Code	No.		No.	ID	No.	ID	Code		
	Area A - DN1800 Stormwater Drain	No activity as per KLKJV arrangement											
08:00 - 18:00	Area A - Pump Station	Rendering and plastering to walls inside transformer room	D. D. L. C.				<u> </u>		ļ	ļ		······································	<u> </u>
	, aca A - Lamp Station	Welding the hoarding frameworks to sheetpile post & removing PC block footings  Modification of access gate  Laying G.I concealed conduits to wall formwork of store room  General housekeeping  Cutting & bending reinforcement bars for beams and roof of store room at bending yard	Bar Bender & Fixer	C304	5	Backhoe	***************************************	EX28					
			Labourer (female)	C406	3	Backhoe with Vibrating Hammer	1	EX47					
			Labourer (male)	C406	4	Oxy-Acetylene	1 7	<del> </del>	1	<u> </u>	†		1
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Steel Bending Machine	3	†	<b>1</b>	<del> </del>	1		
			Plant and Equipment Operator (Hoist and Crane)	C334	1	Water Pump 50mm	2	<del>                                     </del>	<del> </del>				
			Plasterer	C337	2	Water Pump 75mm	1	1	<b>-</b>	<b>†</b>	<del>                                     </del>		
				1		Welding Set	1	<b>1</b>		<del> </del>			<del>                                     </del>
							1	┪	1	<u> </u>		······································	1
	Area A - Pump Station - Box Culvert	No activity as per KLKJV arrangement											
07.00 10.00													
07:00 - 18:00 18:00 - 20:00	Area A - Ting Kok Road	Manual control of "stop/go" sign for traffic flow regulation (3 F/Lab.)  Manual control of temporary traffic light for traffic flow regulation (1 F/Lab.)	Labourer (female)	C406	3								
30.00 10.00	4 4 17: 17.1 1												
08:00 - 18:00	(CH70-125)	Driving sheetpiles for shoring of Ø2100 pipe trench at Ch. 90-95 Fabricating temporary working platform over Ø2100 pipe trench at road level Excavation of Ø2100 pipe trench at Ch. 115~120 and cart away excavated materials to temporary stockpiling area at D.D.12, Tung Tsz road (8 truckloads)	General Welder	C318	1	Backhoe		EX36					
			Labourer (female)	C406	1	Backhoe			1 1	EX39	h		
			Labourer (male)	C406	2	Backhoe with Vibrating Hammer	I	EX48					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	l	Grab Lorry	1					······································	
			Plant and Equipment Operator (Hoist and Crane)	C334	1	Oxy-Acetylene	1	<u> </u>	<b> </b>				
			Truck Driver	C349	1	Water Pump 50mm	2						
						Welding Set	1					······································	
	Area A - Ting Kok Road (Intake Structure)	No activity as per KLKJV arrangement				Water Pump 50mm	1						
08:00 - 18:00	Area B - Tung Tsz	Pay 11 Evaporation for how subject and Chairmin 2 11 11 11 12 12 12 12 12 12 12 12 12 1		1	_		<u> </u>		<u> </u>				
	Nursery (CH130-CH280)	Bay 11 - Excavating for box culvert and fabricating 2nd layer I-beam walings & struts for shoring Bay 12 & 13 - Excavating for box culvert to formation level Cart away excavated material to temporary stockpiling area at D.D. 12, Tung Tsz Road (18 truckloads) Cart away excavatedd material to contract 2 DC/2010/02 (10 truckloads)	General Welder	C318	2	Backhoe	1	EX36					

Day's record and instructions checked and agreed				
driginal - ER's File	Signed:  Engineer's Representative	Signed:  Contractor's Representative	Signed:	IOW IOW
	Name/Post: Andrew Lau/Resident Engineer	Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
	Date:	Date:	Date:	4-7-2012

Idling Code:

Contract No.: DC/2009/22 Date: 03/07/2012

Day: Tuesday

a Breakdown e Bad Weather b Standby f Task Completed

c Awaiting Instruction g No Operator

d Assemble/Disassemble h Not Required

Time	Location	Activity	Labour				Pla	nt	*************			Material Delivered		
						Type	Wo	rking	T	ldling	;	Description	Quantity	
			Trade	Code	No.		No.	ID	No.	ID	Code			
			Labourer (male)	C406	4	Backhoe	1	EX42	<b> </b>	1				
			Plant & Equipment Operator (Earthmoving Machinery)	C333	2	Dump Truck	3			1				
			Truck Driver	C349	3	Generator	1							
						Oxy-Acetylene	1							
						Welding Set	1	<u> </u>						
:00 - 18:00	Area B - Tung Tsz Nursery (CH40-CH130)	Cleaning up sediments from wheel washing bay General housekeeping	Labourer (male)	C406	1	Water Pump 50mm	1							
					<b> </b>	Water Pump 75mm	1	<b>-</b>		<u> </u>	+			
										<b>†</b>			<del>                                     </del>	
	Area B - Tung Tsz Nursery (Jacking Pit)	No activity as per KLKJV arrangement				Water Pump 50mm	1							
00 - 18:00	A C. CI. II.													
00 - 18:00	Area C - Shallow Marshy Area	Tree planting to replace topping trees at ECA (Total :63 nos)	Labourer (female)	C406	6									
			Labourer (male)	C406	2									
:00 - 18:00	Area E - Siu Lek Yuen	PL 1603.1 - Driving sheetpiles for shoring and excavating for pipe trench at Ch. 11~16			_					<u> </u>		····		
10.00	Rd.Playground	Cart away excavated materials to area B (5 Truckloads)	Labourer (male)	C406		Backhoe	1	EX21						
			Plant & Equipment Operator (Earthmoving Machinery)	C333		Blower	1							
			Truck Driver	C349		Dump Truck	1							
***************************************						Generator	1			ļ				
						Oxy-Acetylene			1		h	······································		
						Water Pump 50mm	1			<u> </u>				
						Water Pump 75mm	1			<u> </u>				
						Welding Set		<b></b>	1	ļ	h		1	
	Area F - Lek Yuen Street Rest Garden	No activity as per KLKJV arrangement												
	Area G. Ngan Shing St	No activity as per KLKJV arrangement												
	- 17gan Shing St.	Progeniting as her KTVA arrangement		1										
:00 - 18:00	Area I - Contractor Office	Office cleaning	Labourer (male)	C406	2									

Day's record and instructions checked and agreed						
Original - ER's File						
Duplicate - Contractor	Signed:	Engineer's Representative	Signed:	Contractor's Representative	Signed:	IOW
	Name/Post:	Andrew Lau/Resident Engineer		Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
	Date:		Date:		Date:	4-7-2012

Client Department: Drainage Services Department

Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

Contractor: KWAN LEE - KULY JOINT VENTURE

Weather:  $\underline{\mathbf{AM}}$ 

Fine

Typhoon / Warning Signal:

<u>PM</u>

Fine

Rainfall (mm) ST 0, TP 0

Very Hot Weather Warning - 00:00~19:45

Contract No.: DC/2009/22 Date: 04/07/2012

Day: Wednesday

(Hong Kong Observatory's record)

Instructions to Contractor	Contractor's Site Staff No.	Labour	Code :	No.	Labour	Code	No.	Plant	
(Record verbal instructions given)	Assistant Surveyor 1	1 7 7 704 6 4 73 5	i			:			
		Asphalter (Other Construction)	C301		Chainman	C401		Type	No. Working No. Id
	Chainman 3	Asphalter (Roadworks)	C302	ĺ	Concreting Labourer	C402		Backhoe	
	Community Liaison Officer 1	Bamboo Scaffolder	C303		Diver's Linesman / Dredger Crew / Barge Crew	C403		Backhoe with Vibrating Hammer	2I
	CEG	Bar Bender & Fixer	C304	5	Excavator	C404		Dump Truck	
Comments by Engineer's / Contractor's Representative	Contract Manager 1	Bricklayer	C305		Heavy Load Labourer	C405		Generator	2
Comments by Engineer's / Contractor's Representance	Engineer	Carpenter (Fender)	C306		Labourer (male / female) / Lorry checker / Watchman/Office attendan	C406	25	Grab Lorry	1
	Environmental Officer 1	Carpenter (Formwork)	C307	2	Sewerman	C407		Oxy-Acetylene	. 5 1
	Foreman/Assistant Foreman 2	Concrete Repairer	C308		Automation Equipment Mechanic	E301		Steel Bending Machine	3
	General Foreman 1	Concretor	C309		Building Services Mechanic	E302		Water Pump 50mm	8
	Labour Officer 1	Construction Plant Mechanic	C310		Cable Jointer (Power)	E303		Water Pump 75mm	3
	Land Surveyor 1	Curtain Wall Installer	C311		Carpenter	E304		Welding Set	4
Utilities	Project Director 1	Demolition Worker	C312	]	Electrician/Electrical Fitter	E305			
(Record location & nature of works)	Project Manager 2	Diver	C313		Fire Services Mechanic	E306			
	Project Quantity Surveyor 1	Drainlayer	C314		Instrument Mechanic	E307		***************************************	
	Quantity Surveyor	Electrician (Main Contractor's)	C315		Lift Electrician	E308			:
	Safety Officer 1	Floor Layer	C316		Lift Mechanic	E309			1 1
	Site Agent 1	Gas Plumber	C317		Mechanical Fitter	E310			
	Surveyor 1	General Welder	C318	3	Overhead Linesman	E311			
		Glazier	C319		Painter	E312			
		Ground Investigation Operator/Driller/Borer	C320		Plumber and Pipe Fitter	E313		· · · · · · · · · · · · · · · · · · ·	
		Grouting Worker	C321	1	Refrigeration/AC/Ventilation Mechanic	E314		***************************************	
		Joiner	C322	1	Sheet Metal Worker	E315			· · · · · · · · · · · · · · · · · · ·
		Leveller	C323		Sign Fabricator	E316			
		Marbie Worker	C324	1	Sign Installer	E317			
		Marine Construction Plant Operator	C325	1	Thermal Insulation Craftsman	E318			· · · •
Progress	:	Mason	C326		Welder	E319			
(Mention briefly any matter delaying or obstructing progress)		Metal Scaffolder	C327	1	Labourer	E401			
		Metal Worker	C328		Semi-skilled Worker	E401			
		Painter & Decorator	C329	··· ······ [	Technician	E/402			
	· · · · · · · · · · · · · · · · · · ·	Piling Operative	C330		rectanciau	1			to the second second
		Pipelayer	C331						
	- :	Plant and Equipment Operator (Builder's Lift and Other Machinery)	C332						
Visitor		Plant & Equipment Operator (Earthmoving Machinery)	C333	5					
(Record names of visitors and time of visit)	<b>-</b>	Plant and Equipment Operator (Hoist and Crane)	C334	2					
		Plant and Equipment Operator (Piling)	C335	4					
		Plant and Equipment Operator (Tunnelling)	C336						
		Plasterer			,			. ,	
		Plumber	C337	<del>-</del>					
	<b>   </b>	Pneumatic Driller	C338						
Accidents	<b>-</b>		C339						
(Describe any occurance of accident)		Prestressing Operative	C340						
		Rigger/Metal Formwork Erector	C341						
		Shotcretor	C342	1					
		Shotfirer	C343						
		Slope Maintenance Worker	C344	1				J. 1999 1991 1991 1991 1991 1991 1991 19	
Remarks	<b>-   </b>	Structural Steel Erector	C345						<u></u>
B - Backhoe EX23 on site	<b>-    </b>	Structural Steel Welder	C346						
		Tiler	C347						£ 4.
		Trackworker	C348						
		Truck Drivet / Coxswain / Barge Engineer / Working Ganger*	C349	4					
		Window Frame Installer	C350						
	Total 20		. i	- 1		. :	1		
	Assistance to Engineer No.		ļ						
				l		:	1		-
	Amah 1								
	Coordinate Engineer 1								
	Drafting Assistant	<u> </u>	1 1						
		. 1		1	1		1		
	Driver 2			3					
	Driver 2 Field Assistant 3								
					:				
	Field Assistant 3					· · · · · · · · · · · · · · · · · · ·			

* Working ganger is equivalent to ordinary worker in the trade in which
he is employed or, if the trade is not listed, truck driver
(refer to CC Table 1 1)

Day's record and instructions checked and agreed

Signed:

Engineer's Representative

Date:

Name/Post: Andrew Lau/Resident Engineer

Signed:

Contractor's Representative

Wong Ching Lung / Site Agent

Signed:

IOW

Tso Sai Kuen / Inspector of Works

5-7-2012 Date: Date:

Original - ER's File Duplicate - Contractor

Idling Code:

Contract No.: DC/2009/22

Date: 04/07/2012

Day: Wednesday

a Breakdown e Bad Weather
b Standby f Task Completed
c Awaiting Instruction g No Operator
d Assemble/Disassemble h Not Required

h Not Required i Sunday/Public Holiday

Time	Location	Activity	Labour				Pla	nt				Material De	livered
<u> </u>						Туре	Working		Idling			Description	Quantity
			Trade	Code	No.		No.	ID	No.	ID	Code		
	Area A - DN1800 Stormwater Drain	No activity as per KLKJV arrangement											
00.00	<u> </u>				<u> </u>								
08:00 - 18:00	Area A - Pump Station	Rendering and plastering to walls and ceiling at transformer room Forming haul road and modification of hoarding to facilitate construction of 12000 drain pipe Laying G.I. concealed conduits at wall formwork of store room Rebar fixing for ground beams AB1-AB4 & AB11-AB13 of discharge chamber Formwork shuttering for walls of store room Cleaning up sediments from wheel washing bay and general housekeeping	Bar Bender & Fixer	C304	5	Backhoe		EX28					
:			Carpenter (Formwork)	C307	2	Backhoe with Vibrating Hammer			1	EX47	h		
			Labourer (female)	C406	3	Oxy-Acetylene	1 7	1	<b>†</b>	<b>†</b>		<u> </u>	<b></b>
			Labourer (male)	C406	<u> </u>	Steel Bending Machine	<del>                                     </del>	1	3	†	h		1
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Water Pump 50mm	2		<del>                                     </del>	1	-	-	
			Plasterer	C337	<u> </u>	Water Pump 75mm	1	1	<b> </b>	+	<b> </b>		
				1	<del>                                     </del>	Welding Set	1 1	<del>                                     </del>		<del> </del>			<del> </del>
				<del>                                     </del>	<del> </del>		† _	<del>                                     </del>		<u> </u>		· · · · · · · · · · · · · · · · · · ·	
	Area A - Pump Station - Box Culvert	No activity as per KLKJV arrangement											
07:00 - 18:00 18:00 - 20:00	Area A - Ting Kok Road	Manual control of "stop/go" sign for traffic flow regulation (3 F/Lab.)  Manual control of temporary traffic light for traffic flow regulation (1 F/Lab)	Labourer (female)	C406	3								
00.00 10.00													
08:00 - 18:00	(CH70-125)	Driving sheetpiles for shoring of Ø2100 pipe trench at Ch. 90~95 Fabricating M.S. brackets to support the existing watermain Excavating for Ø2100 pipe trench at Ch.115-120 and cart away excavated materials to temporary stockpiling area at D.D. 12, Tung Tsz Road. (5 truckloads)	General Welder	C318	Anima	Backhoe	1	EX36					
			Labourer (male)	C406	3	Backhoe			1	EX39	h		
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Backhoe with Vibrating Hammer	1	EX48					
			Plant and Equipment Operator (Hoist and Crane)	C334	1	Grab Lorry	1						<u> </u>
			Truck Driver	C349	I	Oxy-Acetylene	I			]			1
						Water Pump 50mm	2					·	
						Welding Set	1						
												······································	
	Area A - Ting Kok Road (Intake Structure)	No activity as per KLKJV arrangement				Water Pump 50mm	1						
<b>50</b> 50 10 50	1 5 A												
08:00 - 18:00	Nursery (CH130-CH280)	Bay 11 - Excavating for box culvert and fabricating 2nd layer 1-beam struts & walings for shoring Bay 12 & 13 - Excavating for box culvert to formation level Cart away excavated material to temporary stockpiling area at D.D.12, Tung Tsz Road (18 truckloads) Cart away excavated material to contract 2 DC/2010/02 (10 truckloads)	General Welder	C318	2	Backhoe		EX36					

Day's record and instructions checked and agreed Original - ER's File Duplicate - Contractor Signed: Signed: Signed: Engineer's Representative Contractor's Representative *IOW* Tso Sai Kuen / Inspector of Works Andrew Lau/Resident Engineer Name/Post: Wong Ching Lung / Site Agent Date: Date: 5-7-2012 Date:

Idling Code:

Contract No.: DC/2009/22 Date: 04/07/2012

Day: Wednesday

a Breakdown e Bad Weather b Standby

f Task Completed c Awaiting Instruction

g No Operator d Assemble/Disassemble h Not Required

Time	Location	Activity	Labour				Pla	nt				Material Delivered		
						Туре	Working		T	Idling		Description	Quantity	
			Trade	Code	No.		No.	lD	No.	1D	Code			
			Labourer (male)	C406	4	Backhoe	1	EX42	<b>†</b>					
			Plant & Equipment Operator (Earthmoxing Machinery)	C333	2	Dump Truck	3							
			Truck Driver	C349	3	Generator	1	1	1					
						Oxy-Acetylene	2							
······						Welding Set	2							
08:00 - 18:00	Area B - Tung Tsz	Bay 6 - Extracting sheetpiles from shoring General housekeeping & cleaning up sediments from wheel washing bay	Labourer (male)	C406	2	Backhoe with Vibrating	1	EX23						
	Ruisely (CH40-CH150)	Celetal housekeeping & cleaning up sediments from wheel washing bay	Plant and Equipment Operator (Hoist and Crane)	C334		Hammer	<del> </del>	<del> </del>	<u> </u>	<del> </del>				
			and the English operator (1700), and (1800)	(-334	1	Oxy-Acetylene Water Pump 50mm	<del>                                     </del>	<del> </del>	<del> </del>	-	-		<del> </del>	
						Water Pump 75mm	1 1	<del> </del>	<del> </del>	┼	-			
				-		water rump / 3mm	<del>  '</del> -	ļ	<del>                                     </del>	+	-			
	Area B - Tung Tsz Nursery (Jacking Pit)	No activity as per KLKJV arrangement				Water Pump 50mm	1							
											1 1	·····		
00 - 18:00	Area E - Siu Lek Yuen Rd.Playground	PL 1603.1 - Trench excavation to formation and placing blinding concrete at Ch. 11~16	Labourer (male)	C406	2	Backhoe	]	EX21						
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Generator	1							
H-1-4-W						Oxy-Acetylene			1		h			
						Water Pump 50mm	1							
						Water Pump 75mm	1							
	Area F - Lek Yuen Street Rest Garden	No activity as per KLKJV arrangement												
	Area G - Ngan Shing St.	No activity as per KLKJV arrangement												
	Area I - Contractor Office	No activity as per KLKJV arrangement												

Day's record and instructions checked and agreed			
Original - ER's File			
Duplicate - Contractor	Signed:	Signed:	Signed:
	Engineer's Representative	Contractor's Representative	IOW
	Name/Post: Andrew Lau/Resident Engineer	Wong Ching Lung / Site Agent	Tso Sai Kuen / Inspector of Works
	Date:	Date:	Date: 5-7-2012

Client Department: Drainage Services Department

Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

Contractor: KWAN LEE - KULY JOINT VENTURE

Weather:  $\underline{AM}$ 

Shower

Typhoon / Warning Signal:

<u>PM</u> Shower Rainfall (mm) ST 30, TP 30

Thunderstorm Warning Warning - 02:50~04:00, 04:25~06:30 & 07:25~1600 Amber - 09:20~10:20

Day: Thursday

Contract No.: DC/2009/22 Date: 05/07/2012

(Hong Kong Observatory's record)

Instructions to Contractor	Contractor's Site Staff No.	Labour	Code No.	Labour	Code No.	Pl	
(Record verbal instructions given)	<b>.</b>						ALL
	Assistant Surveyor 1	Asphalter (Other Construction)	C301	Chainman	C401	Туре	No. Working No. Idle
	Chainman 3	Asphalter (Roadworks)	C302	Concreting Labourer	C402	Backhoe	5 1
	Community Liaison Officer 1	Bamboo Scaffolder	C303	Diver's Linesman / Dredger Crew / Barge Crew	C403	Backhoe with Vibrating Hammer	3
	CEG	Bar Bender & Fixer	C304 5	Excavator	C404	Crane Lorry	1
Comments by Engineer's / Contractor's Representative	Contract Manager 1	Bricklayer	C305	Heavy Load Labourer	C405	Dump Truck	3
Comments by Engineer's / Contractor's Representative	Engineer	Carpenter (Fender)	C306	Labourer (male / female) / Lorry checker / Watchman/Office	attendan C406 25	Generator	2
	Environmental Officer 1	Carpenter (Formwork)	C307 2	Sewerman	C407	Oxy-Acetylene	. 5 . 1
	Foreman/Assistant Foreman 2	Concrete Repairer	C308	Automation Equipment Mechanic	E301	Steel Bending Machine	3
	General Foreman 1	Concretor	C309	Building Services Mechanic	E302	Water Pump 50mm	8
	Labour Officer 1	Construction Plant Mechanic	C310	Cable Jointer (Power)	E303	Water Pump 75mm	3
	Land Surveyor 1	Curtain Wall Installer	C311	Carpenter	E304	Welding Set	4
Utilities	Project Director I	Demolition Worker	C312	Electrician/Electrical Fitter	E305		
(Record location & nature of works)	Project Manager 2	Diver	C313	Fire Services Mechanic	E306		
	Project Quantity Surveyor 1	Drainlayer	C314 1	Instrument Mechanic	E307		:
	Quantity Surveyor	Electrician (Main Contractor's)	C315	Lift Electrician	E308		
	Safety Officer 1	Floor Layer	C316	Lift Mechanic	E309		
	Site Agent 1	Gas Plumber	C317	Mechanical Fitter	E310		
	Surveyor 1	General Welder	C318 3	Overhead Linesman	E311		
		Glazier	C319	Painter	E312		
		Ground Investigation Operator/Driller/Borer	C320	Plumber and Pipe Fitter	E313		
		Grouting Worker	C321	Refrigeration/AC/Ventilation Mechanic	E314		
		Joiner	C322	Sheet Metal Worker	E315		
	· · · · · · · · · · · · · · · · · · ·	Leveller	C323	Sign Fabricator	E316		
		Marble Worker	C324	Sign Installer	E317		
Progress		Marine Construction Plant Operator	C325	Thermal Insulation Craftsman	E318		
(Mention briefly any matter delaying or obstructing progress)		Mason	C326	Welder	E319		
(Western Street and Street Greating of Sustructure progress)		Metal Scaffolder	C327	Labourer	E401		
		Metal Worker	C328	Semi-skilled Worker	E402		
		Painter & Decorator	C329	Technician	т		
		Piling Operative	C330				
		Pipelayer	C331				
Visitor		Plant and Equipment Operator (Builder's Lift and Other Machinery)					
(Record names of visitors and time of visit)		Plant & Equipment Operator (Earthmoving Machinery)	C333 5		·		
		Plant and Equipment Operator (Hoist and Crane)	C334 4			1.54.00	
		Plant and Equipment Operator (Piling)	C335				
		Plant and Equipment Operator (Tunnelling)	C336				
		Plasterer	C337 2				
	· · · · · · · · · · · · · · · · · · ·	Plumber Pneumatic Driller	C338				
Accidents			C339				
(Describe any occurance of accident)		Prestressing Operative Rigger/Metal Formwork Erector	C340				
			C341				
		Shotcretor Shotfirer	C342		<del></del>		
		Slope Maintenance Worker	C343				
		Structural Steel Erector	C344				
Remarks		Structural Steel Welder	C345	· · · · · · · · · · · · · · · · · · ·			
Weekly Safety & Environmental Co-ordination Meeting #120 was held at 11:30 A.M.		Tiler	C346 C347		<u> </u>		
		Trackworker	C347				in the second second
		Truck Driver / Coxswain / Barge Engineer / Working Ganger*	C346 C349 3				
		Window Frame Installer	C350				
	Total 20	The Control of the Co	1,150				
				11	··· •		the second secon
	Assistance to Engineer No.						
	Amah 1						
	Coordinate Engineer		1				
	Drafting Assistant						
	Driver 2				****		
	Field Assistant 3						
	Office Assistant 1						
	Watchman 1		1	11	and the second of		
1	Total 10	(To be continued)	1	Total Labour	50	<b>L</b>	
······································	19_1	V V V V V V V V V V V V V V V V V V	<del></del>	1 11 Ardi Pambrii.	30 ]	[Total	34 5

* Working ganger is equivalent to ordinary worker in the trade in which
he is employed or, if the trade is not listed, truck driver
(refer to GS Table 1.1)

Day's record and instructions checked and agreed

Signed:

Engineer's Representative

Name/Post: Andrew Lau/Resident Engineer

Date:

Signed:

Contractor's Representative

Wong Ching Lung / Site Agent

Signed:

IOW Tso Sai Kuen / Inspector of Works

6-7-2012 Date:

Date:

Sheet 1 of 3

Original - ER's File Duplicate - Contractor

Idling Code:

Contract No.: DC/2009/22 Date: 05/07/2012

Day: Thursday

a Breakdown e Bad Weather b Standby f Task Completed

c Awaiting Instruction g No Operator d Assemble/Disassemble h Not Required

Time	Location	Activity	Labour				Pla	nt				Material De	livered
			Trade Code			Туре	Wo	rking		Idling		Description	Quantity
			Trade	Code	No.		No.	ID	No.	ID	Code		
	Area A - DN1800 Stormwater Drain	No activity as per KLKJV arrangement					1						
							┪	<del> </del>		1	<del>                                     </del>		†
08:00 ~ 18:00	Area A - Pump Station	Rebar fixing for ground beams AB1~AB4 & AB11~AB13 of discharge chamber Formwork shuttering for walls (W16 & W17) of store room Laying G.I. concealed conduit at wall formwork of store room Driving sheetpiles shoring for construction of manhole MH06 Cleaning up sediments from wheel washing bay and general housekeeping	Bar Bender & Fixer	C304	5	Backhoe		EX28					
			Carpenter (Formwork)	C307	2	Backhoe		1	1	EX39	h		
	***************************************		Labourer (female)	C406	2	Backhoe with Vibrating Hammer	I	EX47					
			Labourer (male)	C406	4	Oxy-Acetylene	1	<del> </del>	<b>†</b>	1	1		
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Steel Bending Machine			3		h		
			Plant and Equipment Operator (Hoist and Crane)	C334	1	Water Pump 50mm	2	1		<u> </u>	<b>†</b>		
						Water Pump 75mm	1	1			1		
						Welding Set	1	<u> </u>	<u> </u>	·	1		
								<b>†</b>		<b>-</b>		····	
08:00 - 18:00	Area A - Pump Station	Rendering and plastering to walls and ceiling at transformer room Painting bonding agent to walls at switchroom	Labourer (female)	C406	1								
			Labourer (male)	C406	2								
			Plasterer	C337	2		1	1		1	<u> </u>	***************************************	
										1			
	Area A - Pump Station - Box Culvert	No activity as per KLKJV arrangement											
07:00 - 18:00 18:00 - 20:00	Area A - Ting Kok Road	Manual control of "stop/go" sign for traffic flow regulation (3 F/Lab.)  Manual control of temporary traffic light for traffic flow regulation (1 F/Lab.)	Labourer (female)	C406	3								
08:00 - 18:00	(CH70~125)	Driving sheetpiles for Ø2100 pipe trench shoring at Ch. 85~90 Excavating for Ø2100 pipe trench at Ch. 115~120 and fabricating 1st layer I-beam walings & struts for shoring	General Welder	C318	1	Backhoe	***	EX36					
			Labourer (male)	C406	3	Backhoe with Vibrating Hammer	1	EX48					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Oxy-Acetylene	1					***************************************	
			Plant and Equipment Operator (Hoist and Crane)	C334	1	Water Pump 50mm	2			1			
						Welding Set	Parval						
· · · · · · · · · · · · · · · · · · ·													
	Area A - Ting Kok Road (Intake Structure)	No activity as per KLKJV arrangement				Water Pump 50mm	1						
										1			

Day's record and instructions checked and agreed						
Original - ER's File  Duplicate - Contractor	Signed:	Engineer's Representative	Signed:	Contractor's Representative	Signed:	IOW IOW
	Name/Post:	Andrew Lau/Resident Engineer		Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
	Date:		Date:		Date:	6-7-2012

Idling Code:

Contract No.: DC/2009/22 Date: 05/07/2012

Day: Thursday

a Breakdown e Bad Weather b Standby f Task Completed

c Awaiting Instruction g No Operator d Assemble/Disassemble

h Not Required i Sunday/Public Holiday

Time	Location	Activity	Labour				Pla	nt				Material De	livered
	****					Туре	Wo	rking		Idling		Description	Quantity
			Trade	Code	No.	7	No.	ID	No.	ID	Code		**************************************
08:00 - 18:00	Area B - Tung Tsz Nursery (CH130-CH280	Bay 11 - Excavating for box culvert and fabricating 2nd layer I-beam walings & struts for shoring Bay 12 & 13 - Excavating for box culvert to formation level, laying geotextile membrane and rubble mound Cart away excavated materials to temporary storckpiling area at D.D. 12, Tung Tsz Road (27 truckloads)	General Welder	C318	2	Backhoe	1	EX36					
			Labourer (male)	C406	3	Backhoe	i	EX42					1
			Plant & Equipment Operator (Earthmoving Machinery)	C333	2	Dump Truck	3		<b> </b>	1			
			Truck Driver	C349	3	Generator	1					*	
						Oxy-Acetylene	2	1					
						Welding Set	2			<u> </u>			
									l				
08:00 - 18:00	Area B - Tung Tsz Nursery (CH40-CH130)	Bay 6 -Extracting sheetpiles from trench shoring General housekeeping & cleaning up sediments from wheel washing bay	Labourer (male)	C406	2	Backhoe with Vibrating Hammer	1	EX23					
<u></u>			Plant and Equipment Operator (Hoist and Crane)	C334	I	Oxy-Acetylene	1						
						Water Pump 50mm	1						
						Water Pump 75mm	1						
12.00 10.00													
13:00 - 18:00	Area B - Tung Tsz Nursery (Jacking Pit)	Erecting tubular scaffolding as working platform for pipe jacking operation	Labourer (male)	C406	2	Water Pump 50mm	1						
08:00 - 18:00	Area E - Siu Lek Yuen Rd.Playground	PL 1603.1 - Laying and jointing 16500 concrete pipes at Ch.10~15	Drainlayer	C314	1	Backhoe	1	EX21		<u> </u>			
	l and any ground		Labourer (male)	C406	3	Crane Lorry	<del>                                     </del>	<del> </del>	_		-		
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Generator	+ +	+	<u> </u>	_			
			Plant and Equipment Operator (Hoist and Crane)	C334	1	Oxy-Acetylene	<del> </del> -	<del> </del>	1	<u> </u>	h		
						Water Pump 50mm	1	<del> </del>	<u> </u>	<del>                                     </del>	<del>                                     </del>		1
						Water Pump 75mm	1	<u> </u>					
							1	<b>1</b>		<u> </u>			
	Area F - Lek Yuen Street Rest Garden	No activity as per KLKJV arrangement											
<del></del>	Area G - Ngan Shing St.	No activity as per KLKJV arrangement			· 								
	<u> </u>						1	<u> </u>					
	Area I - Contractor Office	No activity as per KLKJV arrangement						<u> </u>		<u> </u>			

Day's record and instructions checked and agreed				
Original - ER's File Ouplicate - Contractor	Signed:  Engineer's Representative  Name/Post: Andrew Lau/Resident Engineer	Signed:  Contractor's Representative  Wong Ching Lung / Site Agent	Signed:	Tso Sai Kuen / Inspector of Works
	Date:	Date:	Date:	6-7-2012

Client Department: Drainage Services Department

Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

Contractor: KWAN LEE - KULY JOINT VENTURE

Weather:

Typhoon / Warning Signal:

Contract No.: DC/2009/22 Date: 06/07/2012

 $\underline{\mathbf{AM}}$ Fine

<u>PM</u> Fine

Rainfall (mm)

ST 5, TP 10

Nil

Day: Friday

(Hong Kong Observatory's record)

Instructions to Contractor	Contractor's Site Staff No.	Labour	Code	No.	Labour	Code 1	No.	Plant
(Record verbal instructions given)	Assistant Surveyor 1	Asphalter (Other Construction)	C301			G.61		
	Chainman 3	Asphaiter (Roadworks)	C302		Chainman Concreting Labourer	C401	Type	No. Working No. 1
	Community Liaison Officer 1	Bamboo Scaffolder	C302			C402	Backhoe	
	CEG 1	Bar Bender & Fixer			Diver's Linesman / Dredger Crew / Barge Crew	C403	Backhoe with Vibrating Hamm	er3
	Contract Manager	Bricklayer	C304		Excavator	C404	Dump Truck	
Comments by Engineer's / Contractor's Representative	Engineer Engineer	Carpenter (Fender)	C305		Heavy Load Labourer	C405	Generator	
and the second s	Environmental Officer 1		C306		Labourer (male / female) / Lorry checker / Watchman/Office att		30 Oxy-Acetylene	
	Foreman/Assistant Foreman 2	Carpenter (Formwork)	C307	4	Sewerman	C407	Steel Bending Machine	
	General Foreman 1	Concrete Repairer	C308		Automation Equipment Mechanic	E301	Water Pump 50mm	8
	Labour Officer 1	Concretor	C309		Building Services Mechanic	E302	Water Pump 75mm	
	Land Surveyor 1	Construction Plant Mechanic	C310		Cable Jointer (Power)	E303	Welding Set	4
	Project Director 1	Curtain Wall Installer Demolition Worker	C311		Carpenter	E304		4
<u>Utilities</u>			C312		Electrician/Electrical Fitter	E305	.,	
(Record location & nature of works)	Project Manager 2	Diver	C313	_	Fire Services Mechanic	E306		
	Project Quantity Surveyor 1	Drainlayer	C314		Instrument Mechanic	E307		
	Quantity Surveyor	Electrician (Main Contractor's)	C315		Lift Electrician	E308	11	
	Safety Officer 1	Floor Layer	C316		Lift Mechanic	E309		
	Site Agent	Gas Plumber	C317		Mechanical Fitter	E310		
	Surveyor 1	General Welder	C318	3	Overhead Linesman	E311		
		Glazier	C319		Painter	E312		
		Ground Investigation Operator Driller/Borer	C320		Plumber and Pipe Fitter	E313		
		Grouting Worker	C321		Refrigeration/AC/Ventilation Mechanic	E314		
	:	Joiner	C322		Sheet Metal Worker	E315		
		Leveller	C323		Sign Fabricator	E316		
		Marble Worker	C324		Sign Installer	E317		
D		Marine Construction Plant Operator	C325		Thermal Insulation Craftsman	E318		<u>.</u>
Progress	<b>  </b>	Mason	C326		Welder	E319		
(Mention briefly any matter delaying or obstructing progress)		Metal Scaffolder	C327		Labourer	E401		
		Metal Worker	C328		Semi-skilled Worker	E402		
		Painter & Decorator	C329		Technician	Т		
		Piling Operative	C330					
		Pipelayer	C331					
Visitor		Plant and Equipment Operator (Builder's Lift and Other Machinery)	C332					
(Record names of visitors and time of visit)		Plant & Equipment Operator (Earthmoving Machinery)	C333	. 5				:
(Accord names of Visitors and time of Visit)		Plant and Equipment Operator (Hoist and Crane)	C334	. 3				
		Plant and Equipment Operator (Piling)	C335					
		Plant and Equipment Operator (Tunnelling)	C336				· · · · • • • • • • • • • • • • • • • •	
		Plasterer	C337	2				
	i	Plumber	C338					
Accidents		Pneumatic Driller	C339					
(Describe any occurance of accident)		Prestressing Operative	C340					
		Rigger/Metal Formwork Erector	C341			:		
		Shotcretor	C342			. :		
		Shotfirer	C343				1 1	**************************************
		Slope Maintenance Worker	C344					
		Structural Steel Erector	C345	·				· · · · · · · · · · · · · · · · · · ·
Remarks		Structural Steel Welder	C346					
		Tiler	C347	1				
		Trackworker	C348					·····
		Truck Driver Coxswain Barge Engineer Working Ganger*	C349	2				
		Window Frame Installer	C350					· · · · · · · · · · · · · · · · · · ·
	Total 20							
				···	"	<b>.</b>		
	Assistance to Engineer No.		: · · · · · · · · · · · · · · · · · · ·					· · · · · · · · · · · · · · · · · · ·
	Amah			· · · · · · · [				**************************************
	Coordinate Engineer 1		1 7	· · · · · · · · · · · · · · · · · · ·				
	Drafting Assistant 1		: :			······		
	Driver 2		1 1	1				
	Field Assistant 3			I				
	Office Assistant 1		······i					
	Watchman 1		j	1		4.		
	Total 10	(To be continued)	•	·	Total Labour		50 Total	32 5

* Working ganger is equivalent to ordinary worker in the trade in which
he is employed or, if the trade is not listed, truck driver
(refer to GS Table 1.1)

Day's record and instructions checked and agreed

Signed:

Engineer's Representative

Name/Post: Andrew Lau/Resident Engineer

Date:

Signed:

Date:

Contractor's Representative

Wong Ching Lung / Site Agent

Signed:

IOW

Tso Sai Kuen / Inspector of Works

9-7-2012 Date:

Original - ER's File Duplicate - Contractor

Idling Code:

Contract No.: DC/2009/22 Date: 06/07/2012

Day: Friday

a Breakdown b Standby

e Bad Weather f Task Completed

c Awaiting Instruction d Assemble/Disassemble

g No Operator h Not Required

Time	Location	Activity	Labour				Pla	nt				Material Delivered		
						Туре	Wo	rking		Idling		Description	Quantity	
			Trade	Code	No.	1	No.	ID	No.	ID	Code			
	Area A - DN1800 Stormwater Drain	No activity as per KLKJV arrangement												
00.00														
08:00 - 18:00	Area A - Pump Station	Formwork shuttering for ground beams AB1-AB4 & AB11-AB13 of discharge chamber Formwork shuttering for walls (W16 & W17) of store room Laying G.I concealed conduits at wall formwork of store room Driving sheetpiles for shoring of Ø1200 pipe trench between manhole MH06~ box culvert bay 20 Forming haul road and general housekeeping	Carpenter (Formwork)	C307	4	Backhoe		EX28						
			Labourer (female)	C406	2	Backhoe			1	EX39	h			
			Labourer (male)	C406	3	Backhoe with Vibrating Hammer	1	EX47						
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Oxy-Acetylene	I						-	
			Plant and Equipment Operator (Hoist and Crane)	C334	1	Steel Bending Machine			3	1	h			
	ļ					Water Pump 50mm	2					, ,		
						Water Pump 75mm	1			1				
						Welding Set	1			1				
								1		1			<b>"</b>	
08:00 - 18:00	Area A - Pump Station	Rendering and plastering to walls and ceiling, laying wall tiles at transformer room Rendering to walls and ceiling at swtichroom	Labourer (female)	C406	1							**************************************		
			Labourer (male)	C406	5					1				
			Plasterer	C337	2									
			Tiler	C347	1			]						
								1						
	Area A - Pump Station - Box Culvert	No activity as per KLKJV arrangement												
07:00 - 18:00 18:00 - 20:00	Area A - Ting Kok Road	Manual control of "stop/go" sign for traffic flow regulation (3 F/Lab.)  Manual control of temporary traffic light for traffic flow regulation (1 F/lab.)	Labourer (female)	C406	3									
08:00 - 18:00	Area A - Ting Kok Road (CH70-125)	Driving sheetpiles for shoring of Ø2100 pipe trench at Ch. 85~90 Excavating for Ø2100 pipe trench at Ch. 110~120 and fabricating 1st layer 1-beam waling & struts for shoring	General Welder	C318	1	Backhoe	1	EX36		-				
			Labourer (male)	C406	3	Backhoe with Vibrating Hammer	1	EX48						
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Oxy-Acetylene	1	<u> </u>		<b>†</b>				
			Plant and Equipment Operator (Hoist and Crane)	C334	1	Water Pump 50mm	2	<b> </b>		<u> </u>				
						Welding Set	1		<b> </b>	1				
								<b></b>		1				
	Area A - Ting Kok Road (Intake Structure)	No activity as per KLKJV arrangement				Water Pump 50mm	1							
							T			1	†	<u></u>	1	

Day's record and instructions checked and agreed				
Original - ER's File Ouplicate - Contractor				$\bigcirc$
	Signed:  Engineer's Representative	Signed:  Contractor's Representative	Signed:	IOW
	Name/Post: Andrew Lau/Resident Engineer	Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
	Date:	Date:	Date:	9-7-2012

Idling Code:

Contract No.: DC/2009/22 Date: 06/07/2012

Day: Friday

a Breakdown e Bad Weather b Standby f Task Completed

c Awaiting Instruction g No Operator d Assemble Disassemble

h Not Required

Time	Location	Activity	Labour				Pla	nt			T	Material Delivered		
						Туре	Wo	rking	T	Idling		Description	Quantity	
			Trade	Code	No.	-	No.	ID	No.	ID (	Code			
08:00 - 18:00	Area B - Tung Tsz Nursery (CH130-CH280	Bay 11 - Excavating for box culvert and fabricating 2nd layer I-beam struts and walings for shoring Bay 13 - Laying geotextile membrane and rubble mound, then placing blinding concrete Cart away excavated material to temporary stockpiling area at D.D.12, Tung Tsz Road (15 truckloads)	General Welder	C318	2	Backhoe	****	EX36						
			Labourer (male)	C406	5	Backhoe	0.5	EX42						
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1.5	Dump Truck	2	1						
			Truck Driver	C349	2	Generator	1							
						Oxy-Acetylene	2							
						Welding Set	2						1	
08:00 - 18:00	Area B - Tung Tsz Nursery (CH40-CH130)	Bay 6 - Extracting sheetpiles from trench shoring Bay 5 - Backfilling box culvert trench General housekeeping & cleaning up sediments from wheel washing bay	Labourer (male)	C406	2	Backhoe	0.5	EX42						
			Plant & Equipment Operator (Earthmoving Machinery)	C333	0.5	Backhoe with Vibrating Hammer	1	EX23						
			Plant and Equipment Operator (Hoist and Crane)	C334	1	Oxy-Acetylene	1							
······						Water Pump 50mm	I							
						Water Pump 75mm	1							
08:00 - 18:00	Area B - Tung Tsz Nursery (Jacking Pit)	Erecting tubular scaffolding as working platform for pipe jacking operation	Labourer (male)	C406	3	Water Pump 50mm	]							
08:00 - 18:00	Area E - Siu Lek Yuen Rd.Playground	PL 1603.1 - Backfilling type A & type B granular materials to surround 1650Ø PC pipes at Ch.10~15	Labourer (male)	C406	2	Backhoe	1	EX21						
***************************************			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Generator	<del>                                     </del>	1						
						Oxy-Acetylene	<del> </del>		1		h			
						Water Pump 50mm	1	<del> </del>	<del></del>	<del>  -</del>				
						Water Pump 75mm	1	<b>-</b>	<del>                                     </del>					
								<b>†</b>	<b></b>					
	Area F - Lek Yuen Street Rest Garden	No activity as per KLKJV arrangement							***************************************					
	Area G - Ngan Shing St.	No activity as per KLKJV arrangement												
0.00 10.00														
08:00 - 18:00	Area I - Contractor Office	Office cleaning	Labourer (male)	C406	1			***************************************						

Day's record and instructions checked and agreed						
Original - ER's File  Duplicate - Contractor	Signed:	Engineer's Representative	Signed:	Contractor's Representative	Signed:	IOW
	Name/Post: Date:	Andrew Lau/Resident Engineer	Date:	Wong Ching Lung / Site Agent	Date:	Tso Sai Kuen / Inspector of Works  9-7-2012

Client Department: Drainage Services Department

Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

Contractor: KWAN LEE - KULY JOINT VENTURE

Weather:  $\underline{\mathbf{AM}}$ 

Fine

Typhoon / Warning Signal:

<u>PM</u>

Fine

Rainfall (mm) ST 0.5, TP 10 Very Hot Weather Warning - 14:55~24:00

Contract No.: DC/2009/22 Date: 07/07/2012

Day: Saturday

(Hong Kong C	Observatory's	record
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Instructions to Contractor	Contractor's Site Staff No.	Labour	Code	No.	Labour	Code	No.	Pla	1 <b>1</b>
(Record verbal instructions given)	Assistant Surveyor 1	testable (Otto O cont.)		.	a. 13				
	Chainnan 3	Asphalter (Other Construction)	C301		Chainman	C401		Туре	No. Working No. Idl
	Community Liaison Officer 1	Asphalter (Roadworks)	C302		Concreting Labourer	C402		Air Compressor	
	CEG 1	Bamboo Scaffolder	C303		Diver's Linesman / Dredger Crew / Barge Crew	C403		Backhoe	4 2
		Bar Bender & Fixer	C304		Excavator	C404		Backhoe with Vibrating Hammer	3
Comments by Engineer's / Contractor's Representative	Contract Manager 1	Bricklayer	C305		Heavy Load Labourer	C405		Dump Truck	2
Comments by Engineer's / Contractor's Representance	Engineer	Carpenter (Fender)	C306		Labourer (male / female) / Lorry checker / Watchman/Office attendan	C406	28	Generator	. 2
	Environmental Officer 1	Carpenter (Formwork)	C307 ·	4	Sewerman	C407		Oxy-Acetylene	5 1
	Foreman/Assistant Foreman 2	Concrete Repairer	C308		Automation Equipment Mechanic	E301		Steel Bending Machine	
<u>.</u> :	General Foreman 1	Concretor	C309		Building Services Mechanic	E302		Water Pump 50mm	8
	Labour Officer 1	Construction Plant Mechanic	C310		Cable Jointer (Power)	E303		Water Pump 75mm	3
	Land Surveyor 1	Curtain Wall Installer	C311		Carpenter	E304		Welding Set	4 1
Utilities	Project Director	Demolition Worker	C312		Electrician/Electrical Fitter	E305			
(Record location & nature of works)	Project Manager 2	<u>Diver</u>	C313		Fire Services Mechanic	E306			
	Project Quantity Surveyor 1	Drainlayer	C314		Instrument Mechanic	E307			
	Quantity Surveyor	Electrician (Main Contractor's)	C315		Lift Electrician	E308			:
	Safety Officer 1	Floor Layer	C316		Lift Mechanic	E309			
	Site Agent 1	Gas Plumber	C317		Mechanical Fitter	E310			
	Surveyor 1	General Welder	C318	3	Overhead Linesman	E311		11	1
		Glazier	C319		Painter	E312			
		Ground Investigation Operator/Driller/Borer	C320		Plumber and Pipe Fitter	E313		<b>                                     </b>	
		Grouting Worker	C321		Refrigeration/AC/Ventilation Mechanic	E314			error brown and the second and the s
		Joiner	C322		Sheet Metal Worker	E315			
		Leveller	C323		Sign Fabricator	E316			
	- 11	Marble Worker	C324	1	Sign Installer	E317			
		Marine Construction Plant Operator	C325	·	Thermal Insulation Craftsman	E318			the state of the s
Progress		Mason	C326		Welder	E319			
(Mention briefly any matter delaying or obstructing progress)	<b>-1</b>   " "	Metal Scaffolder	C327	·	Labourer	E401			······
		Metal Worker	C328		Semi-skilled Worker				
		Painter & Decorator	C329		Technician	E402			
		Piling Operative	C330		recrinician	Т			
		Pipelayer							
		Plant and Equipment Operator (Builder's Lift and Other Machinery)	C331 C332						
Visitor		Plant & Equipment Operator (Earthmoving Machinery)							***************************************
(Record names of visitors and time of visit)		Plant and Equipment Operator (Earntmoving Machinery)	C333	. 4					4
		Plant and Equipment Operator (Hoist and Crane) Plant and Equipment Operator (Piling)	C334	3					:
			C335						÷
		Plant and Equipment Operator (Tunnelling)	C336						
		Plasterer	C337	2-					:
		Plumber	C338						
Accidents		Pneumatic Driller	C339						
(Describe any occurance of accident)		Prestressing Operative	C340					**************************************	
		Rigger Metal Formwork Erector	C341						
		Shotcretor	C342						·
		Shotfirer	C343						
		Slope Maintenance Worker	C344	1		. 4-			
Remarks	<b>- 1</b>	Structural Steel Erector	C345			i			
NCHRI M	<del>- </del>	Structural Steel Welder	C346						
		Tiler	C347	1					
		Trackworker	C348						
		Truck Driver / Coxswain / Barge Engineer / Working Ganger*	C349	2					
		Window Frame Installer	C350						
	Total 20							***	
	Assistance to Engineer No.								
	Amah 1			1					1 1
	Coordinate Engineer 1					!			
	Drafting Assistant 1				:				
	Driver 2		7				į		
	Field Assistant 3		1	···					
	Office Assistant		<del>-</del>			<del>-</del>			
	Watchman 1	1	1	- 1		•			
	Total 10	(To be continued)			Total Labour	i.	47	Total	21 ^
		TO IN COMMENT	<u>-</u> -		HURAL LADUM		47	Total	31 8

* Working ganger is equivalent to ordinary worker in the trade in which
he is employed or, if the trade is not listed, truck driver
trefer to GS Table 1 1)

Day's record and instructions checked and agreed

Signed:

Engineer's Representative

Date:

Name/Post: Andrew Lau/Resident Engineer

Signed:

Contractor's Representative

Wong Ching Lung / Site Agent

Signed:

Tso Sai Kuen / Inspector of Works

Original - ER's File Duplicate - Contractor

9-7-2012 Date: Date:

Idling Code:

Contract No.: DC/2009/22 Date: 07/07/2012

Day: Saturday

a Breakdown b Standby

f Task Completed g No Operator

e Bad Weather

c Awaiting Instruction d Assemble/Disassemble h Not Required

Time	Location	Activity	Labour		Pla	nt				Material Delivered			
						Type	Wo	rking		Idling		Description	Quantity
			Trade	Code	No.		No.	ID	No.	ID	Code		
	Area A - DN1800 Stormwater Drain	No activity as per KLKJV arrangement										***************************************	
08:00 - 18:00	Area A - Pump Station	Formwork shuttering for ground beams AB1-AB4 & AB11-AB13 of discharge chamber Formwork shuttering for walls (W16 & W17) at store room Laying G.I concealed conduits on wall formwork of store room Driving sheetpiles for shoring of Ø1200 pipe trench between manhole MH06-box culvert bay 20 Cleaning up sediments from wheel washing bay Cleaning up cable trenches at switchroom	Carpenter (Formwork)	C307		Backhoe			1	EX28	1,		
			Labourer (female)	C406	2	Backhoe			1	EX39	h		
			Labourer (male)	C406	4	Backhoe with Vibrating Hammer	1	EX47					
·····			Plant and Equipment Operator (Hoist and Crane)	C334	1	Oxy-Acetylene	1						
<u> </u>						Steel Bending Machine			3		h		
						Water Pump 50mm	2	1					
						Water Pump 75mm	1						
						Welding Set	1						
									1				
08:00 - 18:00	Area A - Pump Station	Plastering to walls and ceiling at transformer room and switchromm Laying wall tiles at transofrmer room	Labourer (female)	C406	1								
:			Labourer (male)	C406	3								
			Plasterer	C337	2					1			
			Tiler	C347	1								
	Area A - Pump Station -	No activity as per KLKJV arrangement		<del></del> -	<del> </del>		<del> </del>	ļ		<b> </b>			
	Box Culvert	The country at post state of an angenton						ļ					
07:00 - 18:00	Area A. Tina Val. Dand	Manufactural City (A. III.) Co. (C. C.											
18:00 - 20:00	Area A - Ting Kok Road	Manual control of "stop/go" sign for traffic flow regulation (3 F/Lab.)  Manual control of temporary traffic light for traffic flow regulation (1 F/lab.)	Labourer (female)	C406	3								
20.00 10.00													
08:00 - 18:00	(CH70-125)	Driving sheetpiles for shoring of Ø2100 pipe trench at Ch. 85~90 Excavating for Ø2100 pipe trench at Ch. 110~120 and fabricating 1st layer I-beam walings & struts	General Welder	C318		Backhoe	1	EX50					
			Labourer (male)	C406	3	Backhoe with Vibrating Hammer	1	EX48					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	Ī	Oxy-Acetylene	1						
			Plant and Equipment Operator (Hoist and Crane)	C334	I	Water Pump 50mm	2						
						Welding Set	l						
												,	
	Area A - Ting Kok Road (Intake Structure)	No activity as per KLKJV arrangement				Water Pump 50mm	1						
										1			

Day's record and instructions checked and agreed			
Original - ER's File			
Duplicate - Contractor	Signed:	Signed:	Signed:
	Engineer's Representative	Contractor's Representative	IOW
	Name/Post: Andrew Lau/Resident Engineer	Wong Ching Lung / Site Agent	Tso Sai Kuen / Inspector of Works
	Date:	Date:	Date: 9-7-2012

Idling Code:

Contract No.: DC/2009/22 Date: 07/07/2012

Day: Saturday

a Breakdown e Bad Weather b Standby f Task Completed c Awaiting Instruction g No Operator d Assemble/Disassemble

h Not Required i Sunday/Public Holiday

Time	Location	Activity	Labour		Pla	nt				Material De	livered		
						Туре	Wo	rking		Idling		Description	Quantity
			Trade	Code	No.	_	No.	(d)	No.	1D	Code		
08:00 - 18:00	Area B - Tung Tsz Nursery (CH130-CH280)	Bay 11 - Excavating for box culvert and fabricating 2nd layer I-beam struts abd walings for shoring Bay 12 - Excavating for box culvert to formation Cart away excavated materials to temporary stockpile area at D.D. 12, Tung Tsz Road (20 truckloads)	General Welder	C318	2	Backhoe	1	EX36					-
			Labourer (male)	C406	5	Backhoe	1	EX42		1			
			Plant & Equipment Operator (Earthmoving Machinery)	C333	2	Dump Truck	2				1		<b>1</b>
			Truck Driver	C349	2	Generator	1			1			
						Oxy-Acetylene	2		<b> </b>	1	1		
						Welding Set	2					<del></del>	
										1			1
8:00 - 18:00	Area B - Tung Tsz Nursery (CH40-CH130)	Bay 5 & 6 - Extracting sheetpiles from shoring General housekeeping & cleaning up sediments from wheel washing bay	Labourer (male)	C406	2	Backhoe with Vibrating Hammer	1	EX23					
			Plant and Equipment Operator (Hoist and Crane)	C334	1	Oxy-Acetylene	1					200	
·····						Water Pump 50mm	T i	1		1			
						Water Pump 75mm	1						
08:00 - 18:00	Area B - Tung Tsz Nursery (Jacking Pit)	Erecting tubular scaffolding as working platform for grouting operation	Labourer (male)	C406	3	Air Compressor			I		h		
						Water Pump 50mm	1						
8:00 - 18:00	Area E - Siu Lek Yuen Rd.Playground	PL 1603.1 - Backfilling to pipe trench at Ch. 10~15 Footpath diversion at Ch. 19 to facilitate trench excavation	Labourer (male)	C406	2	Backhoe	1	EX21					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Generator	1						
						Oxy-Acetylene			1		h		
						Water Pump 50mm	1						
						Water Pump 75mm	1			<u> </u>			
······································						Welding Set	<u> </u>		1		h		
	Area F - Lek Yuen Street Rest Garden	No activity as per KLKJV arrangement											
	Area G - Ngan Shing St.	No activity as per KLKJV arrangement											
	Area I - Contractor Office	No activity as per KLKJV arrangement											

Day's record and instructions checked and agreed						
Original - ER's File						
Duplicate - Contractor	Signed:		Signed:		Signed:	
	En	ngineer's Representative		Contractor's Representative		IOW
	Name/Post:	Eddie Luk/Resident Engineer		Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
	Date:		Date:		Date:	8-7-2012

Client Department: Drainage Services Department

Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

Contractor: KWAN LEE - KULY JOINT VENTURE

Weather:

Typhoon / Warning Signal:

Contract No.: DC/2009/22 Date: 08/07/2012

Day: Sunday

 $\underline{AM}$ <u>PM</u> Fine Shower

Rainfall (mm)

Thunderstorm Warning - 12:32~14:45 Very Hot Weather Warning - 00:00~24:00 ST 2, TP 10

(Hong Kong Observatory's record)

Instructions to Contractor	Contractor's Site Staff No.	Labour	Code	No.	Labour	Code	No. Plant
(Record verbal instructions given)		116.404.60.4.3			Lan		
		Asphalter (Other Construction) Asphalter (Roadworks)	C301		Chainman	C401	Type No. Working No.
		Bamboo Scaffolder	C302	[	Concreting Labourer	C402	Backhoe
		Bar Bender & Fixer	C303	.	Diver's Linesman / Dredger Crew / Barge Crew	C403	Backhoe with Vibrating Hammer
		Bricklayer	C304 C305		Excavator	C404	Generator
Comments by Engineer's / Contractor's Representative		Carpenter (Fender)	C306		Heavy Load Labourer Labourer (male / female) / Lorry checker / Watchman/Office attendan	C405	Steel Bending Machine 4 Water Pump 50mm 6
		Carpenter (Formwork)	C307		Sewerman	C406 C407	Water Pump 75mm
		Concrete Repairer	C308		Automation Equipment Mechanic	E301	Asarci Emish 15tilin
		Concretor	C309		Building Services Mechanic	E302	
		Construction Plant Mechanic	C310		Cable Jointer (Power)	E303	
		Curtain Wall Installer	C311	- 1	Carpenter	E304	
Utilities		Demolition Worker	C312		Electrician/Electrical Fitter	E305	
(Record location & nature of works)		Diver	C313		Fire Services Mechanic	E306	
(Retord rocation & nature of works)		Drainlayer	: C314		Instrument Mechanic	E307	
		Electrician (Main Contractor's)	C315		Lift Electrician	E308	
		Floor Layer	C316		Lift Mechanic	E309	
		Gas Plumber	C317		Mechanical Fitter	E310	
		General Welder	C318		Overhead Linesman	E311	
		Glazier	C319	i	Painter	E312	
		Ground Investigation Operator/Driller/Borer	C320	1	Plumber and Pipe Fitter	E313	
		Grouting Worker	C321	· · · · · · · · · · · [	Refrigeration/AC/Ventilation Mechanic	E314	
		Joiner Leveller	C322		Sheet Metal Worker Sign Fabricator	E315	
		Marble Worker	C323 C324		Sign Installer	E316	
	****	Marine Construction Plant Operator	C325	- 1	Sign installer [Thermal Insulation Craftsman	E317 E318	
Progress		Mason	C326		Welder	E319	
(Mention briefly any matter delaying or obstructing progress)		Metal Scaffolder	C327	- 1	Labourer	E401	
		Metal Worker	C328	1	Semi-skilled Worker	E402	
		Painter & Decorator	C329	·· · [	Technician	T	
		Piling Operative	C330				
		Pipelayer	C331				
Visitor		Plant and Equipment Operator (Builder's Lift and Other Machinery)	C332				
(Record names of visitors and time of visit)	<b>   </b>	Plant & Equipment Operator (Earthmoving Machinery)	C333		······ i.	· · · · · · · · · · · · · · · · · · ·	
(2000) a model of visitors and and of visit)		Plant and Equipment Operator (Hoist and Crane)	C334				
		Plant and Equipment Operator (Piling)	C335				
		Plant and Equipment Operator (Tunnelling)	C336				
		Plasterer	C337				
		Plumber	C338			į	
Accidents	<b></b>	Pneumatic Driller Prestressing Operative	C339				
(Describe any occurance of accident)		Rigger Metal Formwork Erector	C340 C341				
	<u> </u>	Shotcretor	C342				
		Shotfirer	C343	- 1		-	· · · · · · · · · · · · · · · · · · ·
		Slope Maintenance Worker	C344			<u>-</u>	
		Structural Steel Erector	C345	- 1		-	
Remarks		Structural Steel Welder	C346	1			
		Tiler	C347	1			
		Trackworker	C348				
		Truck Driver / Coxswain / Barge Engineer / Working Ganger*	C349				
		Window Frame Installer	C350				
	Total					1	
	Assistance to Engineer No.		4				
	Driver 1						
	Watchman 1		<u> -ii</u>			<u> </u>	
	1					ř.	
			<del>.                                    </del>		:		
				- 4	1		
	Transition of the state of the	T. b			Legal		
	Total 2	(To be continued)			Total Labour		4   Total 7 : 1

<ul> <li>Working ganger is equivalent to ordinary worker in the trade in which</li> </ul>
he is employed or, if the trade is not listed, truck driver
(refer to GS Table 1.1)

Day's record and instructions checked and agreed

Signed:

Engineer's Representative

Name/Post: Andrew Lau/Resident Engineer

Date:

Signed:

Contractor's Representative

Wong Ching Lung / Site Agent

Signed:

IOW

Tso Sai Kuen / Inspector of Works

Original ~ ER's File

Duplicate - Contractor

Date:

Date:

9-7-2012

Idling Code:

Contract No.: DC/2009/22 Date: 08/07/2012

Day: Sunday

a Breakdown b Standby

e Bad Weather f Task Completed

c Awaiting Instruction g No Operator d Assemble Disassemble

h Not Required

Time	Location	Activity	Labour				Pla					Material Delivered	
						Type	Wo	rking		Idling		Description	Quantity
			Trade	Code	No.		No.	ID	No.	ID	Code		
	Area A - DN 1800 Stormwater Drain	No activity as per KLKJV arrangement											
	Area A - Pump Station	No activity as per KLKJV arrangement				Backhoe			1	EX28	i		
						Backhoe			I	EX39	í		
						Backhoe with Vibrating Hammer			1	EX47	i		
···········						Steel Bending Machine			3		i		
						Water Pump 50mm	2						
						Water Pump 75mm	1						
	Area A - Pump Station - Box Culvert	No activity as per KLKJV arrangement											
:00 - 18:00 :00 - 20:00	Area A - Ting Kok Road	Manual control of "stop/go" sign for traffic flow regulation (3 F/lab.)  Manual control of temporary traffic light for traffic flow regulation (1 M/Lab. from Area I)	Labourer (female)	C406		Backhoe			1	EX50	i		
						Backhoe with Vibrating Hammer			1	EX48	i		
						Water Pump 50mm	2					***************************************	
	Area A - Ting Kok Road (Intake Structure)	No activity as per KLKJV arrangement				Water Pump 50mm	1						
	1							ļ					
	Area B - Tung Tsz Nursery (CH130-CH280)	No activity as per KLKJV arrangement				Backhoe			1	EX36	i		
						Backhoe			1	EX42	1		
***************************************													
	Area B - Tung Tsz Nursery (CH40-CH130)	No activity as per KLKJV arrangement				Backhoe with Vibrating Hammer			1	EX23	i		
	}					Generator			1		i		
						Water Pump 50mm			1		i		
***************************************						Water Pump 75mm			1		i		
	Area B - Tung Tsz Nursery (Jacking Pit)	No activity as per KLKJV arrangement				Water Pump 50mm	1						
······································	Area E - Siu Lek Yuen	No activity as per KLKJV arrangement				Backhoe			1	EX21	i		
	Rd.Playground									<u> </u>		······································	
						Generator	ļ	ļ	1	<u> </u>	i		
									*				

		 		·	 				 	<u> </u>		1		
	· · · · · · · · · · · · · · · · · · ·		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~											
Day's record and inst	ructions checked and agreed													
Original - ER's File												7/	γ.	
Duplicate - Contracto	or		Signed:		Signed:				Signe	d:	( (	$\angle \mathcal{A}$		<u>-</u>
				Engineer's Representative		Contra	ctor's l	Representative	_			IO	W	
			Name/Post:	Andrew Lau/Resident Engineer				ung / Site Agent		T	so Sai Kı	uen / Insp	ector of Works	
			Date:		Date:				Date:		9	- 7 -	2012	

Idling Code:

Contract No.: DC/2009/22 Date: 08/07/2012

Day: Sunday

a Breakdown b Standby

e Bad Weather

c Awaiting Instruction

f Task Completed g No Operator

d Assemble/Disassemble h Not Required

Time	Location	Location Activity	Labour					Material Delivered					
							Wo	rking		Idling		Description	Quantity
			Trade	Code	No.	. ]	No.	ID	No.	ID	Code	1	***************************************
	Area F - Lek Yuen Street Rest Garden	No activity as per KLKJV arrangement											
····	Area G - Ngan Shing St.	No activity as per KLKJV arrangement									-		
08:00 - 18:00	Area I - Contractor Office	Office cleaning and site patrol	Labourer (male)	C406	I								

Day's record and instructions checked and agreed						
Original - ER's File  Duplicate - Contractor						<i>200</i>
Aupireace - Contractor	Signed:	ngineer's Representative	Signed:	Contractor's Representative	Signed:	IOW
	Name/Post:	Andrew Lau/Resident Engineer		Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
	Date:		Date:	,	Date:	9-7-2012

Client Department: Drainage Services Department

Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

Contractor: KWAN LEE - KULY JOINT VENTURE

Weather: <u>AM</u>

Fine

Duplicate - Contractor

Typhoon / Warning Signal:

Rainfall (mm)

ST 0, TP 0

Very Hot Weather Warning - 00:00~24:00

Day: Monday

Contract No.: DC/2009/22 Date: 09/07/2012

(Hong Kong Observatory's record)

<u>PM</u>

Fine

Instructions to Contractor	Contractor's Site Staff No.	Labour	Code !	No.	Labour	Code	No.	Plant		
(Record verbal instructions given)			E. E.	1		i		****		
	Assistant Surveyor 1	Asphalter (Other Construction)	C301		Chainman	C401		Type	No. Working	No
	Chainman 3	Asphalter (Roadworks)	C302	- [	Concreting Labourer	C402	-	Air Compressor		
	Community Liaison Officer 1	Bamboo Scaffolder	C303	.	Diver's Linesman / Dredger Crew / Barge Crew	C403	[	Backhoe	4	
	CEG	Bar Bender & Fixer	C304		Excavator	C404		Backhoe with Vibrating Hammer	3	<u> </u>
	Contract Manager 1	Bricklaver	C305		Heavy Load Labourer	C405		Blower	:	
Comments by Engineer's / Contractor's Representative	Engineer	Carpenter (Fender)	C306		Labourer (male / female) / Lony checker / Watchman/Office attended	n C406	. 33	Crane Lorry	1	
	Environmental Officer 1	Carpenter (Formwork)	C307	6	Sewerman	C407		Dump Truck	. 2	
	Foreman/Assistant Foreman 2	Concrete Repairer	C308		Automation Equipment Mechanic	E301		Generator	2	
	General Foreman 1	Concretor	C309		Building Services Mechanic	E302		Oxy-Acetylene	5	
	Labour Officer 1	Construction Plant Mechanic	C310		Cable Jointer (Power)	E303		Steel Bending Machine	1	
	Land Surveyor 1	Curtain Wall Installer	C311		Carpenter	E304		Water Pump 50mm	8	
Utilities	Project Director 1	Demolition Worker	C312		Electrician/Electrical Fitter	E305		Water Pump 75mm	3	
	Project Manager 2	Diver	C313		Fire Services Mechanic	E306		Welding Set	4	1
(Record location & nature of works)	Project Quantity Surveyor 1	Drainlayer	C314		Instrument Mechanic	E307		Welding Joe	· · · · · · · · · · · · · · · · · · ·	
	Quantity Surveyor	Electrician (Main Contractor's)	C315	-1	Lift Electrician	E308	=		······································	
	Safety Officer 1	Floor Layer	C316		Lift Mechanic	E309	1	•		1
	Site Agent	Gas Plumber	C317		Mechanical Fitter	E310			<del>.</del>	<del></del>
	Surveyor	General Welder		3	Overhead Linesman					į.
	Bulveyor	Glazier		. 3		E311	··· <u>·</u> · · ·			. }
			C319		Painter	E312	1			
	11.	Ground Investigation Operator/Driller/Borer	C320		Plumber and Pipe Fitter	E313	I		ļ	į
		Grouting Worker	C321		Refrigeration/AC/Ventilation Mechanic	E314				
		Joiner	C322		Sheet Metal Worker	E315			.i.	
		Leveller	C323		Sign Fabricator	E316				
		Marble Worker	C324		Sign Installer	E317				:
		Marine Construction Plant Operator	C325		Thermal Insulation Craftsman	E318			i	
Progress	<b>-     </b>	Mason	C326	ŀ	Welder	E319				
ention briefly any matter delaying or obstructing progress)		Metal Scaffolder	C327	ĺ	Labourer	E401	1			
		Metal Worker	C328	1	Semi-skilled Worker	E402	1			
		Painter & Decorator	C329		Technician	Т	1			
		Piling Operative	C330							:
		Pipelayer	C331	i		-				÷
		Plant and Equipment Operator (Builder's Lift and Other Machinery)	C332							
Visitor		Plant & Equipment Operator (Earthmoving Machinery)		4		<del> </del>				· · · · · ·
(Record names of visitors and time of visit)		Plant and Equipment Operator (Hoist and Crane)	C334	7		1	- 1		-	÷
		Plant and Equipment Operator (Piling)	C335	.7				***************************************		-
		Plant and Equipment Operator (Tunnelling)	C336						1	· · •
				·······				,	s.	
		Plasterer	C337							
		Plumber	C338			į	1			
<u>Accidents</u>		Pneumatic Driller	C339						i	
(Describe any occurance of accident)		Prestressing Operative	C340		AL ARIA	<u> </u>				į
	<b></b> .	Rigger/Metal Formwork Erector			i		- 1			
			C341			<u> </u>		1	···	
		Shotcretor	C341 C342	$\dashv$						
									· · · · · · · · · · · · · · · · · · ·	
		Shotcretor	C342 C343						1	
		Shotcretor Shotfirer Slope Maintenance Worker	C342 C343 C344	The state of the s						
Remarks		Shotcretor Shotfirer Slope Maintenance Worker Structural Steel Erector	C342 C343 C344 C345							
Remarks		Shotcretor Shotfirer Slope Maintenance Worker Structural Steel Erector Structural Steel Welder	C342 C343 C344 C345 C346	1						
Remarks		Shotcretor Shotfirer Slope Maintenance Worker Structural Steel Erector Structural Steel Welder Tiler	C342 C343 C344 C345 C346 C347	1						
Remarks		Shotcretor Shotfirer Slope Maintenance Worker Structural Steel Erector Structural Steel Welder Tiler Trackworker	C342 C343 C344 C345 C346 C347 C348							
Remarks		Shotcretor Shotfirer Slope Maintenance Worker Structural Steel Erector Structural Steel Welder Tiler Trackworker Fruck Driver / Coxswain / Barge Engineer / Working Ganger*	C342 C343 C344 C345 C346 C347 C348 C349	1 2						
Remarks	Treel 20	Shotcretor Shotfirer Slope Maintenance Worker Structural Steel Erector Structural Steel Welder Tiler Trackworker	C342 C343 C344 C345 C346 C347 C348	1 2						
Remarks	Total 20	Shotcretor Shotfirer Slope Maintenance Worker Structural Steel Erector Structural Steel Welder Tiler Trackworker Fruck Driver / Coxswain / Barge Engineer / Working Ganger*	C342 C343 C344 C345 C346 C347 C348 C349	1						
Remarks	Total 20 Assistance to Engineer No.	Shotcretor Shotfirer Slope Maintenance Worker Structural Steel Erector Structural Steel Welder Tiler Trackworker Fruck Driver / Coxswain / Barge Engineer / Working Ganger*	C342 C343 C344 C345 C346 C347 C348 C349	2						
Remarks	Assistance to Engineer No.	Shotcretor Shotfirer Slope Maintenance Worker Structural Steel Erector Structural Steel Welder Tiler Trackworker Fruck Driver / Coxswain / Barge Engineer / Working Ganger*	C342 C343 C344 C345 C346 C347 C348 C349	2						
Remarks	Assistance to Engineer No.  Amah 1	Shotcretor Shotfirer Slope Maintenance Worker Structural Steel Erector Structural Steel Welder Tiler Trackworker Fruck Driver / Coxswain / Barge Engineer / Working Ganger*	C342 C343 C344 C345 C346 C347 C348 C349	2						
Remarks	Assistance to Engineer No.  Amah ! Coordinate Engineer !	Shotcretor Shotfirer Slope Maintenance Worker Structural Steel Erector Structural Steel Welder Tiler Trackworker Fruck Driver / Coxswain / Barge Engineer / Working Ganger*	C342 C343 C344 C345 C346 C347 C348 C349	2						
Remarks	Assistance to Engineer No.  Amah I Coordinate Engineer 1 Drafting Assistant 1	Shotcretor Shotfirer Slope Maintenance Worker Structural Steel Erector Structural Steel Welder Tiler Trackworker Fruck Driver / Coxswain / Barge Engineer / Working Ganger*	C342 C343 C344 C345 C346 C347 C348 C349	2						
Remarks	Assistance to Engineer No.  Amah ! Coordinate Engineer !	Shotcretor Shotfirer Slope Maintenance Worker Structural Steel Erector Structural Steel Welder Tiler Trackworker Fruck Driver / Coxswain / Barge Engineer / Working Ganger*	C342 C343 C344 C345 C346 C347 C348 C349	2						
Remarks	Assistance to Engineer         No.           Amah         1           Coordinate Engineer         1           Drafting Assistant         1           Driver         2	Shotcretor Shotfirer Slope Maintenance Worker Structural Steel Erector Structural Steel Welder Tiler Trackworker Fruck Driver / Coxswain / Barge Engineer / Working Ganger*	C342 C343 C344 C345 C346 C347 C348 C349	2						
Remarks	Assistance to Engineer         No.           Amah         1           Coordinate Engineer         1           Drafting Assistant         1           Driver         2           Field Assistant         3	Shotcretor Shotfirer Slope Maintenance Worker Structural Steel Erector Structural Steel Welder Tiler Trackworker Fruck Driver / Coxswain / Barge Engineer / Working Ganger*	C342 C343 C344 C345 C346 C347 C348 C349	2						
Remarks	Assistance to Engineer         No.           Amah         1           Coordinate Engineer         1           Drafting Assistant         1           Driver         2	Shotcretor Shotfirer Slope Maintenance Worker Structural Steel Erector Structural Steel Welder Tiler Trackworker Fruck Driver / Coxswain / Barge Engineer / Working Ganger*	C342 C343 C344 C345 C346 C347 C348 C349	1 2						

Working ganger is equivalent to ordinary worker in the trade in which to is employed or, if the trade is not listed, truck driver refer to GS Table 1.1)  Day's record and instructions checked and agreed	Signed: Engineer's Representative	Signed:  Contractor's Representative	Signed: IOW
•	Name/Post: Andrew Lau/Resident Engineer	Wong Ching Lung / Site Agent	Tso Sai Kuen / Inspector of Works
Driginal - ER's File	Date:	Date:	Date: 10-7-2017

Sheet 1 of 3

Idling Code:

Contract No.: DC/2009/22 Date: 09/07/2012

Day: Monday

a Breakdown b Standby

e Bad Weather f Task Completed g No Operator

c Awaiting Instruction d Assemble/Disassemble h Not Required

i Sunday/Public Holiday

Time	Location	Activity	Labour			-	Pla	nt				Material De	livered
						Туре	Wo	rking		Idling		Description	Quantity
			Trade	Code	No.		No.	ID	No.	IĐ	Code		
	Area A - DN 1800 Stormwater Drain	No activity as per KLKJV arrangement											
0.00 10.00													
08:00 - 18:00	Area A - Pump Station	Formwork shuttering for ground beams AB1-AB4 & AB11-AB13 of discharge chamber Formwork shuttering for walls (W16 & W17) at store room Driving sheetpiles for shoring of Ø1200 pipe trench between manhole MH06~box culvert bay 20 Scabbling C.J at roof slab Cleaning up cable trenches at switchroom	Carpenter (Formwork)	C307	4	Backhoe				EX28	ħ		
			Labourer (female)	C406	3	Backhoe			1	EX39	h		
			Labourer (male)	C406	4	Backhoe with Vibrating Hammer	1	EX47				200	
			Plant and Equipment Operator (Hoist and Crane)	C334	1	Oxy-Acetylene	1	T		1			
						Steel Bending Machine			3		h		
						Water Pump 50mm	2						
						Water Pump 75mm	1						
					***************************************	Welding Set	1			Ì			
****													
8:00 - 18:00	Area A - Pump Station	Plastering to walls and ceiling, laying wall tiles at transformer room Sanding plastered wall surface and ceiling at swtichroom for painting	Labourer (female)	C406	1								
···			Labourer (male)	C406	4		1		ĺ				
			Painter	E312	1			1					
			Plasterer	C337	1								
			Tiler	C347	1					<b>†</b>			
								1					
	Area A - Pump Station - Box Culvert	No activity as per KLKJV arrangement											
7:00 - 18:00 8:00 - 20:00	Area A - Ting Kok Road	Manual control of "stop/go" sign for traffic flow regulation (3 F/Lab.)  Manual control of temporary traffic light for traffice flow regulation (1 F/Lab.)	Labourer (female)	C406	3								
3.00. +0.00								<u> </u>					
00:81 - 00:8	(CH70-125)	Driving sheetpiles for shoring of Ø2100 pipe trench at Ch. 80~85  Excavating for box culvert at Ch. 100~120 and fabricating 1st layer I-beam struts & walings for shoring		C318		Backhoe	1	EX50					
			Labourer (male)	C406	3	Backhoe with Vibrating Hammer	1	EX48					
***************************************	<u> </u>		Plant & Equipment Operator (Earthmoving Machinery)	C333		Oxy-Acetylene	1						
			Plant and Equipment Operator (Hoist and Crane)	C334		Water Pump 50mm	2						
						Welding Set	1						
·····			<u> </u>										
	Area A - Ting Kok Road (Intake Structure)	No activity as per KLKJV arrangement				Water Pump 50mm	1						
							1						

Original - ER's File						
Duplicate - Contractor	Signed:		Signed:		Signed:	446
	E	Ingineer's Representative		Contractor's Representative		IOW
	Name/Post:	Andrew Lau/Resident Engineer		Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
	Date:		Date:		Date:	10-7-2012

Day's record and instructions checked and agreed

Idling Code:

Contract No.: DC/2009/22 Date: 09/07/2012

Day: Monday

a Breakdown e Bad Weather b Standby f Task Completed c Awaiting Instruction g No Operator d Assemble/Disassemble h Not Required

Time	Location	Activity	Labour				Pla	nt				Material De	livered
			All formal			Туре	Wo	rking	T	ldling	······································	Description	Quantity
			Trade	Code	No.		No.	ID	No.	ID	Code		
08:00 - 18:00	Area B - Tung Tsz Nursery (CH130-CH280	Bay 11 - Excavating for box culvert and fabricating 2nd layer I-beam struts & walings for shoring )Bay 12 - Excavating for box culvert to formation level Cart away excavated materials to temporary stockpile area at D.D.12, Tung Tsz Road (16 truckloads) Bay 13 - Formwork shuttering for base slab	Carpenter (Formwork)	C307	2	Backhoe	1	EX36					
			General Welder	C318	2	Backhoe	1	EX42	<del>                                     </del>	†			1
			Labourer (male)	C406	5	Dump Truck	2	<u> </u>	<b></b>	1			
			Plant & Equipment Operator (Earthmoving Machinery)	C333	2	Generator	1			1			
			Truck Driver	C349	2	Oxy-Acetylene	2	Ī		1			
						Welding Set	2						
08:00 - 18:00	Area B - Tung Tsz Nursery (CH40-CH130)	Bay 5 - Extracting sheetpiles from shoring General housekeeping & cleaning up sediments from wheel washing bay	Labourer (male)	C406	2	Backhoe with Vibrating	1	EX23	<u> </u>				
		osistati nouseccepting at creating up scattificates from wheel washing day	Plant and Equipment Operator (Hoist and Crane)	C334	ı	Hammer Oxy-Acetylene	+ ,	-		-			
				0334	<u> </u>	Water Pump 50mm	+÷	<del>                                     </del>	<del> </del>	<del> </del>			
						Water Pump 75mm	1 1	<del> </del>	<u> </u>	<u> </u>			
							<del>                                     </del>	<del>                                     </del>	<u> </u>	1			
08:00 - 18:00	Area B - Tung Tsz Nursery (Jacking Pit)	Erecting tubular scaffolding as working platform for grouting operation Preparation works for pipe jacking	Labourer (male)	C406	3	Air Compressor			1		h		
						Water Pump 50mm	1						
00.00 10.00													
08:00 - 18:00	Area E - Siu Lek Yuen Rd.Playground	PL 1603.1 - Trench excavation to expose underground utilities and driving sheetpiles for shoring at Ch.15~21	Labourer (male)	C406		Backhoe	1	EX21					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	I	Blower	1			<u> </u>			
						Generator	1	<u> </u>		<b></b>			
						Oxy-Acetylene			1	ļ	h		
****						Water Pump 50mm	1	ļ		ļ			
						Water Pump 75mm	1			<del>                                     </del>			
	Area F - Lek Yuen Street	No activity as per KLKJV arrangement		-			<del>-</del>	<del> </del>		<u> </u>		·····	
	Rest Garden					<u> </u>	-						
······	Area G - Ngan Shing St.	No activity as per KLKJV arrangement				<u> </u>	-			<del>                                     </del>			
				+-+			+	<del> </del>		<del> </del>			
8:00 - 18:00	Area I - Site Accommodation	Deliver construction materials from storage areas to various working areas	Labourer (male)	C406	3	Crane Lorry	1						
			Plant and Equipment Operator (Hoist and Crane)	C334	1		1			<del> </del>			

KJV arrangement naterials from storage areas to various working areas	Labourer (male)  Plant and Equipment Operator (Hoist and Crane)	C406 C334	3 Cr	Franc Lorry	Į.					
			3 Cr.	Franc Lorry	l					
naterials from storage areas to various working areas			3 Cr	Franc Lorry	l					
naterials from storage areas to various working areas			3 Cr.	Trane Lorry	l					
	Plant and Equipment Operator (Hoist and Crane)	C334	1							
					· · · · · · · · · · · · · · · · · · ·		•			
Name/Post: Andrew Lau/Resident Eng		Contract Wong Cl	hing Lun	ing / Site Agent		Signed: Oate:			of Works	
	Engineer's Representa  Name/Post: Andrew Lau/Resident En	Rame/Post: Andrew Lau/Resident Engineer	Engineer's Representative Contract  Name/Post: Andrew Law/Resident Engineer Wong C  Date: Date:	Engineer's Representative  Name/Post: Andrew Lau/Resident Engineer  Date: Contractor's Particle Wong Ching Lau/Resident Engineer  Wong Ching Lau/Resident Engineer	Engineer's Representative  Name/Post: Andrew Lau/Resident Engineer Wong Ching Lung / Site Agent  Date: Date:	Engineer's Representative  Name/Post: Andrew Lau/Resident Engineer Wong Ching Lung / Site Agent  Date: Date:	Engineer's Representative  Name/Post: Andrew Lau/Resident Engineer Wong Ching Lung / Site Agent  Date: Date:	Engineer's Representative  Contractor's Representative  Name/Post:  Andrew Lau/Resident Engineer  Wong Ching Lung / Site Agent  Tso Sa	Engineer's Representative  Contractor's Representative  IOW  Name/Post:  Andrew Lau/Resident Engineer  Wong Ching Lung / Site Agent  Tso Sai Kuen / Inspector	Engineer's Representative  Contractor's Representative  IOW  Name/Post: Andrew Lau/Resident Engineer  Wong Ching Lung / Site Agent  Date: Date: Date: 100

Client Department: Drainage Services Department

Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

Contractor: KWAN LEE - KULY JOINT VENTURE

Weather:

Typhoon / Warning Signal:

Contract No.: DC/2009/22 Date: 10/07/2012

Day: Tuesday

<u>AM</u> <u>PM</u> Fine Fine

ST 0, TP 0

Rainfall (mm)

Very Hot Weather Warning - 00:00~24:00

(Hong Kong Observatory's record)

Instructions to Contractor (Record verbal instructions given)	Contractor's Site Staff No.	Labour	Code	No.	Labour	Code	No.	Plant		
(Record verbal fish actions given)	Assistant Surveyor 1	Asphalter (Other Construction)	C301		Chainman	C401		Type	No. Working	- : h!
	Chainman 3	Asphalter (Roadworks)	C302		Concreting Labourer	C402		Air Compressor	, No. Working	2 .13
	Community Liaison Officer	Bamboo Scaffolder	C303	1	Diver's Linesman / Dredger Crew / Barge Crew	C403		Backhoe		
	CEG 1	Bar Bender & Fixer	C304	4	Excavator					
	Contract Manager 1	Bricklayer				C404		Backhoe with Vibrating Hammer		i
Comments by Engineer's / Contractor's Representative	Engineer I		C305		Heavy Load Labourer	C405		Blower		
Comments of Engineer 57 Contractor 5 Representative		Carpenter (Fender)	C306		Labourer (male / female) / Lorry checker / Watchman/Office attendan	C406	31	Dump Truck	3	
	Environmental Officer 1	Carpenter (Formwork)	C307	_4_	Sewerman	C407		Generator	,. 2	
	Foreman/Assistant Foreman 2	Concrete Repairer	C308	.	Automation Equipment Mechanic	E301		Oxy-Acetylene		
	General Foreman 1	Concretor	C309	!	Building Services Mechanic	E302		Steel Bending Machine		:
	Labour Officer 1	Construction Plant Mechanic	C310		Cable Jointer (Power)	E303		Vibrating Prob	2	- 1
	Land Surveyor 1	Curtain Wall Installer	C311		Carpenter	E304		Water Pump 50mm	8	
Utilities	Project Director 1	Demolition Worker	C312		Electrician/Electrical Fitter	E305		Water Pump 75mm	3	
	Project Manager 2	Diver	C313	1	Fire Services Mechanic	E306		Welding Set	5	
(Record location & nature of works)	Project Quantity Surveyor 1	Drainlayer	C314		Instrument Mechanic	E307		Trouble bet		
	Quantity Surveyor	Electrician (Main Contractor's)	C315		Lift Electrician	E308				
	Safety Officer	Floor Layer	C316		Lift Mechanic	E309			1	- 1
	Site Agent 1	Gas Plumber								
	[ ]		C317		Mechanical Fitter	E310			-	
	Surveyor 1	General Welder	C318	. 3 .	Overhead Linesman	E311				
		Glazier	C319		Painter	E312	1		4	
		Ground Investigation Operator/Driller/Borer	C320	1	Plumber and Pipe Fitter	E313				
		Grouting Worker	C321		Refrigeration/AC/Ventilation Mechanic	E314				
		Joiner	C322		Sheet Metal Worker	E315				
		Leveller	C323		Sign Fabricator	E316				
		Marble Worker	C324		Sign Installer	E317				<del>-</del>
		Marine Construction Plant Operator	C325	1	Thermal Insulation Craftsman	E318			: · · · · ·	•
Progress		Mason	C326		Welder					
ntion briefly any matter delaying or obstructing progress)	<del> </del>	Metal Scaffolder		.		E319				
			C327	······································	Labourer	E401				
		Metal Worker	C328	[	Semi-skilled Worker	E402				
		Painter & Decorator	C329		Technician	T			1.	
		Piling Operative	C330							
	**************************************	Pipelayer	C331					i i		:
Visitor		Plant and Equipment Operator (Builder's Lift and Other Machinery)	C332			:				
(Record names of visitors and time of visit)	<del> </del>	Plant & Equipment Operator (Earthmoving Machinery)	C333	5						
(Record names of visitors and time of visit)	<b>  </b>	Plant and Equipment Operator (Hoist and Crane)	C334	3		- 1		11		
		Plant and Equipment Operator (Piling)	C335							
	:	Plant and Equipment Operator (Tunnelling)	C336			·			÷	
		Plasterer	C337			·				
		Plumber	C338	1		·				- 4
<u>Accidents</u>		Pneumatic Driller	C339							
(Describe any occurance of accident)		Prestressing Operative	C340							
		Rigger Metal Formwork Erector	C341	- 1						
	11.	Shotcretor	C342			:			:	:
		Shotfirer	C343	1	· ·					
		Slope Maintenance Worker	C344							į
		Structural Steel Erector	C345	. [						
Remarks		Structural Steel Welder								-
	<b></b>		C346	· · · · · · · · · · · · · · · · · · ·						
		Tiler	C347							
		Trackworker	C348							
		Truck Driver / Coxswain / Barge Engineer / Working Ganger*	C349	3	20000000990000000 mm200000000000000000000					:
		Window Frame Installer	C350						:	
	Total 20	<b>                                     </b>	1 1	1						:
	Assistance to Engineer No.	l		1		1.				- 1
	No.									
	Amah I			1					1.	••••••
	Coordinate Engineer 1		:	······ [						}
	Dentling Assistant 1		<del></del>			:				
	Drafting Assistant 1		4							
	Driver 2		ii.							
	Field Assistant 3		<u> </u>			:			·	:
	Office Assistant 1									
	Watchman 1					:				
	Total 10	(To be continued)	777	- 1	Total Labour		57			4

* Working ganger is equivalent to ordinary worker in the trade in which he is employed or, if the trade is not listed, truck driver (refer to GS Table 1.1)
Day's record and instructions checked and agreed

Signed: Engineer's Representative

Contractor's Representative

Signed:

IOW

Name/Post: Andrew Lau/Resident Engineer

Wong Ching Lung / Site Agent

Signed:

Date:

Tso Sai Kuen / Inspector of Works

11-7-2012

Original - ER's File

Duplicate - Contractor

Date: Date:

Idling Code:

Contract No.: DC/2009/22 Date: 10/07/2012

Day: Tuesday

a Breakdown b Standby

e Bad Weather f Task Completed

c Awaiting Instruction d Assemble Disassemble

g No Operator h Not Required

Time	Location	Activity	Labour				Pla	nt				Material De	livered
						Туре	Wo	orking		Idling	-	Description	Quantity
······································			Trade	Code	No.	]	No.	ΙD	No.	ID	Code		
	Area A - DN1800 Stormwater Drain	No activity as per KLKJV arrangement											
0.00 10.00	A A . D St. 4'								ļ	<u> </u>	ļ		
08:00 - 18:00	Area A - Pump Station	Concreting for ground beams AB1-AB4 & AB11-AB13 of discharge chamber (Total:48 cuM) Formwork shuttering for walls (W16 & W17) of store room Driving sheetpiles for shoring of Ø1200 pipe trench between manhole MH06~box culvert bay 20 General housekeeping	Carpenter (Formwork)	C307	4	Backhoe	9708 ####################################	EX28					
			Concretor	C309	1	Backhoe			1 1	EX39	h		
			Labourer (female)	C406	3	Backhoe with Vibrating Hammer	1	EX47					
			Labourer (male)	C406	5	Oxy-Acetylene	1						
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Steel Bending Machine			3	Ī	h		
			Plant and Equipment Operator (Hoist and Crane)	C334	1	Vibrating Prob	2	1		1			
						Water Pump 50mm	2			<b>†</b>			
						Water Pump 75mm	1	1		1			
						Welding Set	1	1				***************************************	
							1			1			
08:00 - 18:00	Area A - Pump Station	Plastering to walls and ceiling, laying wall tiles at transformer room Painting sealer to walls and ceiling at swtichroom	Labourer (female)	C406	I								
			Labourer (male)	C406	3							**************************************	T
			Painter	E312	1				1				
			Plasterer	C337	1		1						<u> </u>
			Tiler	C347	1			1		1			
							1			1			
****	Area A - Pump Station - Box Culvert	No activity as per KLKJV arrangement										***************************************	
										***************************************			
7:00 - 18:00 8:00 - 20:00	Area A - Ting Kok Road	Manual control of "stop/go" sign for traffic flow regulation (3 F/Lab.)  Manual control of temporary traffic light for traffic flow regulation (1 F/Lab.)	Labourer (female)	C406	3								
0.00 .000													
8:00 - 18:00	(CH70-125)	Driving sheetpiles for shoring of Ø2100 pipe trench at Ch. 80~85 Excavating for Ø2100 pipe trench at Ch. 100~110 and fabricating 1st layer I-beam struts and walings for shoring Cart away excavated materials to temporary stockpile area at D.D.12, Tung Tsz Road (5 truckloads)	General Welder	C318	¥.	Backhoe	===	EX50					
			Labourer (male)	C406		Backhoe with Vibrating Hammer	1	EX48					
			Plant & Equipment Operator (Earthmoving Machinery)	C333		Dump Truck	1	1		1	1 1		†··
			Plant and Equipment Operator (Hoist and Crane)	C334		Оху-Acetylene	1	<b>—</b>		<del>                                     </del>	1		
			Truck Driver	C349		Water Pump 50mm	2	1	<del>                                     </del>	<b>1</b>			
				1		Welding Set	1	1		<b>†</b>			†
				<del></del>			1	1	<del> </del>	<del> </del>	1		<del> </del>

Day's record and instructions checked and agreed				
Original - ER's File				
Duplicate - Contractor	Signed:	Signed:	Signed:	(626-
	Engineer's Representative	Contractor's Representative		IOW
	Name/Post: Andrew Lau/Resident Engineer	Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
	Date:	Date:	Date:	11-7-2012

Idling Code:

Contract No.: DC/2009/22 Date: 10/07/2012

Day: Tuesday

a Breakdown e Bad Weather b Standby f Task Completed c Awaiting Instruction g No Operator d Assemble Disassemble

h Not Required i Sunday/Public Holiday

Time	Location	Activity	Labour				Pla	nt				Material De	livered
						Туре	Wo	rking		Idling	;	Description	Quantity
			Trade	Code	No.		No.	ID	No.	ID	Code		1
	Area A - Ting Kok Road (Intake Structure)	No activity as per KLKJV arrangement				Water Pump 50mm	1						
08:00 - 18:00	Area B - Tung Tsz Nursery (CH130-CH280)	Bay 11 - Excavating for box culvert and fabricating 2nd layer I-beam struts and walings for shoring Bay 12 - Excavating for box culvert to formation level Cart away excavated materials to temporary stockpiling area at D.D. 12, Tung Tsz Road (17 truckloads) Bay 13 - Rebar fixing for base slab	Bar Bender & Fixer	C304	4	Backhoe	1	EX36				***************************************	
			General Welder	C318	1.5	Backhoe	1	EX42					
***************************************			Labourer (male)	C406	5	Dump Truck	2						
			Plant & Equipment Operator (Earthmoving Machinery)	C333	2	Generator	1						
			Truck Driver	C349	2	Oxy-Acetylene	2						
						Welding Set	2						
08:00 - 18:00	Area B - Tung Tsz Nursery (CH40-CH130)	Bay 5 - Extracting sheetpiles from shoring and erecting temporary sheetpile decking over trench bay 4/5 junction General housekeeping & cleaning up sediments from wheel washing bay	General Welder	C318	0.5	Backhoe with Vibrating Hammer	1	EX23					
			Labourer (male)	C406	3	Oxy-Acetylene	1	<b></b>					
***************************************			Plant and Equipment Operator (Hoist and Crane)	C334		Water Pump 50mm	I	<del> </del>					
				1		Water Pump 75mm	1 1			<u> </u>	-		
						Welding Set	I				1		
							1	<u> </u>	ļ	<b> </b>			
00:80 - 18:00	Area B - Tung Tsz Nursery (Jacking Pit)	Erecting tubular scaffolding as working platform for grouting	Labourer (male)	C406	3	Air Compressor			1		h		
						Water Pump 50mm	1						
8:00 - 18:00	Area E - Siu Lek Yuen Rd.Playground	PL 1603.1 - Trench excavation at Ch. 16~21 and fabricating walings & struts for shoring	Labourer (male)	C406	2	Backhoe	I	EX21					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Blower	1	<u> </u>					
				1		Generator	1	<del> </del>		<b></b>			1
						Oxy-Acetylene	<del>                                     </del>	<u> </u>	1	<b> </b>	h		-
				-		Water Pump 50mm	1	<del> </del>					-
						Water Pump 75mm	Ιi				-		
							<del>                                     </del>	1	***	-		·····	
	Area G - Ngan Shing St.	No activity as per KLKJV arrangement	***************************************					ļ		<b></b>			
.,,							1						
	Area I - Contractor Office	No activity as per KLKJV arrangement											

	9				 		Generator	1	1		T			
******					 	+	Oxy-Acetylene	<del>                                     </del>		1		h		
				***************************************	· · · · · · · · · · · · · · · · · · ·	1	Water Pump 50mm	1	<del> </del>	1	<b> </b>			
					 	<del>                                     </del>	Water Pump 75mm	<del>                                     </del>	<del>                                     </del>	<del>                                     </del>				
									<del>                                     </del>	<del> </del>	<del> </del>			··· <del>·</del>
·····	Area G - Ngan Shing St.	No activity as per KLKJV arrangement			 				1	1	<del> </del>			
					 				<u> </u>	1				
	Area I - Contractor Office	No activity as per KLKJV arrangement	· · · · · · · · · · · · · · · · · · ·		 					<b>1</b>				
Day's record and ins	ructions checked and agreed													
Original - ER's File												7/		
Duplicate - Contract	or		Signed:	Engineer's Representative	Signed:	Contracto	or's Representative		Signo	ed:	( 6	[O]	W	
			Name/Post:	Andrew Lau/Resident Engineer		Wong Chi	ing Lung / Site Agent			1	rso Sai K	uen / Insp	ector of Works	
			Date:		Date:				Date:	:		11-7	-2012	

Client Department: Drainage Services Department

Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

Contractor: KWAN LEE - KULY JOINT VENTURE

Weather:

Fine

Typhoon / Warning Signal:

Rainfall (mm)

ST 0, TP 0

Very Hot Weather Warning - 00:00~24:00

Day: Wednesday

Contract No.: DC/2009/22 Date: 11/07/2012

(Hong Kong Observatory's record)

<u>PM</u>

Fine

Instructions to Contractor	Contractor's Site Staff No.	Labour	Code	No.	Labour	Code	No.	Plant		
(Record verbal instructions given)			4			1	110,			
	Assistant Surveyor 1	Asphalter (Other Construction)	C301		Chainman	C401		Type	No. Working	No. Idl
	Chainman 3	Asphalter (Roadworks)	C302		Concreting Labourer	C402		Air Compressor		. 1
	Community Liaison Officer 1	Bamboo Scaffolder	C303		Diver's Linesman / Dredger Crew / Barge Crew	C403		Backhoe	. 4	. 2
	CEG 1	Bar Bender & Fixer	C304		Excavator	C404		Backhoe with Vibrating Hammer		
	Contract Manager 1	Bricklayer	C305		Heavy Load Labourer	C405		Blower	2	
Comments by Engineer's / Contractor's Representative	Engineer	Carpenter (Fender)	C306		Labourer (male / female) / Lorry checker / Watchman/Office attendan	· · · · · · · · · · · · · · · · · · ·	30	Dump Truck	3	
	Environmental Officer 1	Carpenter (Formwork)	C307	4	Sewerman	C407		Generator	2	
	Foreman/Assistant Foreman 2	Concrete Repairer	C308		Automation Equipment Mechanic	E301		Mini Generator	1	
	General Foreman 1	Concretor	C309		Building Services Mechanic	E302		Oxy-Acetylene	5	1
	Labour Officer 1	Construction Plant Mechanic	C310		Cable Jointer (Power)	E303		Steel Bending Machine		3
	Land Surveyor 1	Curtain Wall Installer	C311		Carpenter	E304	2	Water Pump 50mm	8	1
Utilities	Project Director 1	Demolition Worker	C312		Electrician/Electrical Fitter	E305		Water Pump 75mm	3	<del>.</del>
(Record location & nature of works)	Project Manager 2	Diver	C313		Fire Services Mechanic	E306		Welding Set		
	Project Quantity Surveyor 1	Drainlayer	C314		Instrument Mechanic	E307				
	Quantity Surveyor	Electrician (Main Contractor's)	C315		Lift Electrician	E308				2.
	Safety Officer	Floor Layer	C316		Lift Mechanic	E309			:	
	Site Agent 1	Gas Plumber	C317		Mechanical Fitter	E310			· • · · ·	:
	Surveyor 1	General Welder	C318	. 3 . ]	Overhead Linesman	E311				
		Glazier	C319		Painter	E312				
		Ground Investigation Operator/Driller/Borer	. C320		Plumber and Pipe Fitter	E313				
		Grouting Worker	C321		Refrigeration/AC/Ventilation Mechanic	E314				
		Joiner	C322		Sheet Metal Worker	E315				
		Leveller	C323		Sign Fabricator	E316			:	<u></u>
	······································	Marble Worker	C324	-	Sign Installer	E317			÷ .	:
Progress		Marine Construction Plant Operator	C325		Thermal Insulation Craftsman	E318				····
(Mention briefly any matter delaying or obstructing progress)		Mason	C326	-	Welder	E319				
(Melition Differity any heatter designing of dostructing progress)		Metal Scaffolder	C327		Labourer	E401				
		Metal Worker	C328	[	Semi-skilled Worker	E402			<u>;</u>	:
		Painter & Decorator	C329		Technician	T			į.	41
		Piling Operative	C330							
		Pipelayer Plant and Equipment Operator (Builder's Lift and Other Machinery)	C331						<u></u>	
Visitor	-	Plant & Equipment Operator (Earthmoving Machinery)	C332						:	
(Record names of visitors and time of visit)		Plant and Equipment Operator (Hoist and Crane)	C333	4					**·· ··· · · · · · · · · · · · · · · ·	1.4
		Plant and Equipment Operator (Piling)	C334	3						
		Plant and Equipment Operator (Pring) Plant and Equipment Operator (Tunnelling)	C335						·	
			C336							
		Plasterer Plumber	C337							
		Pneumatic Driller	C338 C339	į						
Accidents		Prestressing Operative	C340	······································						- (
(Describe any occurance of accident)		Rigger/Metal Formwork Erector	C341							
		Shotcretor	C342			<del></del>				
		Shotfirer	C343	1			-		Ė	f*
		Slope Maintenance Worker	C344			<del></del>			····••	1
		Structural Steel Erector	C345	۱ .		-				
Remarks		Structural Steel Welder	C346							<u> </u>
		Tiler	C347	····						i
	:	Trackworker	C348	· · · · · · · · · · · · · · · · · · ·					***	
		Truck Driver / Coxswain / Barge Engineer / Working Ganger*	C349	····		1			marini da ara	1 200
		Window Frame Installer	C350						:	
	Total 20	A A A A A A A A A A A A A A A A A A A								·····
			1 1	Į					:	1.
	Assistance to Engineer No.		ii ii ii ii ii ii						:	·····
	Amah		1							4.
	Coordinate Engineer									1 1000
	Drafting Assistant 1		-	1						
	Driver 2		1	. 1						
	Field Assistant 3			1						
	Office Assistant					i.				
	Watchman	Paragraphia	: :						***************************************	
	Total 10	(To be continued)		1	Total Labour		48	Total	36	7
							£7			

the is employed or, if the trade is not listed, truck driver (refer to GS Table 1, 1)	Signed:	Signed:	Signed:
Day's record and instructions checked and agreed	Engineer's Representative	Contractor's Representative	IOW
·	Name/Post: Andrew Lau/Resident Engineer	Wong Ching Lung / Site Agent	Tso Sai Kuen / Inspector of Works
Original - ER's File	Date:	Date:	Date:
Duplicate - Contractor			

Idling Code:

Contract No.: DC/2009/22 Date: 11/07/2012

Day: Wednesday

a Breakdown e Bad Weather b Standby f Task Completed c Awaiting Instruction g No Operator d Assemble/Disassemble h Not Required i Sunday/Public Holiday

Time	Location	Activity	Labour				Pla	at				Material De	livered
ŀ						Туре	Wo	rking		Idling		Description	Quantity
7			Trade	Code	No.		No.	ID	No.	ID	Code		
	Area A - DN1800 Stormwater Drain	No activity as per KLKJV arrangement											
					L								<u> </u>
08:00 - 18:00	Area A - Pump Station	Plastering to walls and ceiling at switch room	Labourer (male)	C406	2				<u> </u>	<u> </u>			
<u> </u>			Plasterer	C337	I		<u> </u>						
00.00 10.00							<u> </u>	ļ	<u> </u>	<u> </u>			
08:00 - 18:00	Area A - Pump Station	Stripping off formwork from ground beams AB1-AB4 & AB11-AB13 of discharge chamber Formwork shuttering for walls (W16 & W17) of store room Driving sheetpiles for shoring of Ø1200 pipe trench between manhole MH06~box culvert bay 20 General housekeeping	Carpenter (Formwork)	C:307	4	Backhoe	Art dain-thresholm for son burners		1	EX28	h		
			Labourer (female)	C406	1	Backhoe			1	EX39	h		
V V			Labourer (male)	C406	6	Backhoe with Vibrating Hammer	l	EX47					
			Plant and Equipment Operator (Hoist and Crane)	C334	1	Oxy-Acetylene	1		1	ŀ			
	<u> </u>					Steel Bending Machine			3		h		
<u></u>						Water Pump 50mm	2			1			
						Water Pump 75mm	1						
						Welding Set	1						
										T			
	Area A - Pump Station - Box Culvert	No activity as per KLKJV arrangement											
27.22	1								<u> </u>				
07:00 - 18:00 18:00 - 20:00	Area A - Ting Kok Road	Manual control of "stop/go" sign for traffic flow regulation (3 F/Lab.)  Manual control of temporary traffic light for traffic flow regulation (1 F/Lab.)	Labourer (female)	C406	3				<u> </u>				
08:00 - 18:00	Area A - Ting Kok Road	Driving sheetpiles for shoring of Ø2100 pipe trench at Ch. 80~85	General Welder	C318	1	Backhoe		EX50	<del> </del>	<del> </del>			
	(CH70-125)	Excavating for Ø2100 pipe trench at Ch. 100~110 and fabricating 1st layer I-beam struts & walings for shoring  Cart away excavated materials to contract 2's temporary stockpile area at Tai Po Insustrial Estate (4 truckloads)	General Weider	(316	1	Баскное		EASO					***************************************
			Labourer (male)	C406	3	Backhoe with Vibrating Hammer	1	EX48					
	<u> </u>		Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Dump Truck	I						
			Plant and Equipment Operator (Hoist and Crane)	C334		Oxy-Acetylene	1						
			Truck Driver	C349	1	Water Pump 50mm	2						
						Welding Set	1						
	Area A - Ting Kok Road (Intake Structure)	No activity as per KLKJV arrangement				Water Pump 50mm	1						
	<u> </u>												

Day's record and instructions checked and agreed				
Day's record and instructions effected and agreets				
Originał - ER's File				
Duplicate - Contractor	Signed:	Signed:	Signed:	
	Engineer's Representative	Contractor's Representative	IOW	
	Name/Post: Andrew Lau/Resident Engineer	Wong Ching Lung / Site Agent	Tso Sai Kuen / Inspector of Works	
	Date:	Date:	Date:	

Idling Code:

Contract No.: DC/2009/22 Date: 11/07/2012

Day: Wednesday

a Breakdown e Bad Weather b Standby f Task Completed c Awaiting Instruction g No Operator d Assemble/Disassemble h Not Required

		i de la companya de la companya de la companya de la companya de la companya de la companya de la companya de	Labour			1	Pla	***				Material De	nverea
			The state of the s			Туре	Wo	rking	I I	Idling	*************	Description	Quantity
			Trade	Code	No.	1	No.	ID	No.	ID	Code		
08:00 - 18:00	Area B - Tung Tsz Nursery (CH130-CH280)	Bay 11 - Excavating for box culvert and fabricating 2nd layer I-beam struts & waltens for shoring Bay 12 - Excavating for box culvert to formation Bay 13 - Formwork shuttering for kickers at base slab Bay 10 - Driving sheetpiles for shoring Cart away excavated materials to Contract 2's temporary stockpiling area at Tai Po Industrial Estate (7 truckloads)	Carpenter	E304	2	Backhoe	]	EX36					
			General Welder	C318	1	Backhoe with Vibrating Hammer	1	EX23					
			Labourer (male)	C406	4	Dump Truck	2						
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Generator	1	1	1	1			
			Plant and Equipment Operator (Hoist and Crane)	C334	1	Oxy-Acetylene	2	<u> </u>	1	1			
						Welding Set	2			<b>T</b>		······································	1
								1	1	1			
08:00 - 18:00	Area B - Tung Tsz Nursery (CH40-CH130)	Bay 5 - Erecting temporary sheetpile decking over trench at bay 4/5 junction General housekeeping & cleaning up sediments from wheel washing bay	General Welder	C318	1	Backhoe	1	EX42					
			Labourer (male)	C406	3	Oxy-Acetylene	1	1					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	]	Water Pump 50mm	1		1	<b>†</b>		· · · · · · · · · · · · · · · · · · ·	
						Water Pump 75mm	1	1	1				
						Welding Set	1	1	[	<b>!</b>			
							1	1					
)8:00 - 18:00	Area B - Tung Tsz Nursery (Jacking Pit)	Erecting tubular scaffolding as working platform for grouting	Labourer (male)	C406	3	Air Compressor			1		h		
						Water Pump 50mm	1						
······································													
8:00 - 18:00	Area E - Siu Lek Yuen Rd.Playground	PL 1603.1 - Trench excavation to formation level at Ch. 16~21	Labourer (male)	C406	2	Backhoe	1	EX21					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Blower	1						
						Generator	1						
						Oxy-Acetylene			1		h		
						Water Pump 50mm	1						
						Water Pump 75mm	I						
·····										ŀ			
8:00 - 18:00	Area F - Lek Yuen Street Rest Garden	Concreting for 225 U-channel for reinstatement Installation of PVC feed pipe at upstream manhole for placing foam concrete into existing 12000 pipe	Labourer (male)	C406	3	Blower	I						
						Mini Generator	1			ļ			
	Area G - Ngan Shing St.	No activity as per KLKJV arrangement											
······	Area I - Contractor Office	No activity as per kLKJV arrangement					<u> </u>	<u> </u>					

Original - ER's File											
Day's record and ins	tructions checked and agreed		· · · · · · · · · · · · · · · · · · ·				•	•	•	 .,,	
	Area I - Contractor Office	No activity as per kLKJV arrangement			 		***************************************				·····
	Area G - Ngan Sining St.	No activity as per KLKJV arrangement		 · · · · · · · · · · · · · · · · · · ·		 					

Client Department: Drainage Services Department

Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

Contractor: KWAN LEE - KULY JOINT VENTURE

Weather:

Typhoon / Warning Signal:

Contract No.: DC/2009/22 Date: 12/07/2012

<u>AM</u> Fine

<u>PM</u> Fine

Rainfall (mm)

ST 0, TP 0

Very Hot weather Warning - 00:00~19:45

Day: Thursday

(Hong Kong Observatory's record)

Instructions to Contractor	Contractor's Site Staff No.	1	<del></del>	1				
(Record verbal instructions given)	Contractor's Site Staff No.	Labour	Code	No.	Labour	Code No.	Plan	t
	Assistant Surveyor 1	Asphalter (Other Construction)	C301	.	Chainman	C401	Type	No. Working No. Id
	Chainman 3	Asphalter (Roadworks)	C302		Concreting Labourer	C402	Air Compressor	1
	Community Liaison Officer	Bamboo Scaffolder	C303	1	Diver's Linesman / Dredger Crew / Barge Crew	C403	Backhoe	6 1
	CEG	Bar Bender & Fixer	C304		Excavator	C404	Backhoe with Vibrating Hammer	3
	Contract Manager	Bricklayer	C305		Heavy Load Labourer	C405	Blower	. 2
Comments by Engineer's / Contractor's Representative	Engineer	Carpenter (Fender)	C306		Labourer (male / female) / Lorry checker / Watchman/Office attend	an C406 33	Coring Machine	1
	Environmental Officer 1	Carpenter (Formwork)	C307	2	Sewerman	C407	Dump Truck	3 :
4	Foreman/Assistant Foreman 2	Concrete Repairer	C308		Automation Equipment Mechanic	E301	Generator	2
	General Foreman 1	Concretor	C309	1	Building Services Mechanic	E302	Grout Machine	1 1
	Labour Officer 1	Construction Plant Mechanic	C310		Cable Jointer (Power)	E303	Mini Generator	. 1
	Land Surveyor 1	Curtain Wall Installer	C311		Carpenter	E304	Oxy-Acetylene	6 · 1
Utilities	Project Director 1	Demolition Worker	C312		Electrician/Electrical Fitter	E305	Steel Bending Machine	3
(Record location & nature of works)	Project Manager 2	Diver	C313		Fire Services Mechanic	E306	Vibrating Prob	2
(Necola location & marine of works)	Project Quantity Surveyor 1	Drainlayer	C314		Instrument Mechanic	E307	Water Pump 50mm	8
	Quantity Surveyor	Electrician (Main Contractor's)	; C315,		Lift Electrician	E308	Water Pump 75mm	3
	Safety Officer 1	Floor Layer	C316		Lift Mechanic	E309	Welding Set	4
	Site Agent 1	Gas Plumber	C317		Mechanical Fitter	E310		
	Surveyor1	General Welder	C318	4	Overhead Linesman	E311		
		Glazier	C319		Painter	E312		
		Ground Investigation Operator/Driller/Borer	C320	1	Plumber and Pipe Fitter	E313		
		Grouting Worker	C321		Refrigeration/AC/Ventilation Mechanic	E314		
	: : : : : : : : : : : : : : : : : : : :	Joiner	C322		Sheet Metal Worker	E315	<b>- 1</b>	
		Leveller	C323		Sign Fabricator	E316		
	·	Marble Worker	C324	j	Sign Installer	E317		\$
Progress		Marine Construction Plant Operator	C325		Thermal Insulation Craftsman	E318	_	
(Mention briefly any matter delaying or obstructing progress)	<b>1</b>	Mason	C326	.	Welder	E319	<b>1</b>	
Displaced of the state of the s	<b>-</b>	Metal Scaffolder Metal Worker	C327		Labourer	E401		
		Painter & Decorator	C328		Semi-skilled Worker Technician	E402		
		Piling Operative	C329		rechnician	T		÷
		Pipelayer	C330	I				
	<b>4</b>	Plant and Equipment Operator (Builder's Lift and Other Machinery)	C331 C332	-				
Visitor	:	Plant & Equipment Operator (Earthmoving Machinery)	C333	6		-		
(Record names of visitors and time of visit)	4	Plant and Equipment Operator (Hoist and Crane)	C334	3			11 "	i
		Plant and Equipment Operator (Piling)	C335		and the state of t			· · · · · · · · · · · · · · · · · · ·
		Plant and Equipment Operator (Tunnelling)	C336					
		Plasterer	C337	1				
	:	Plumber	C338			· · · · · · · · · · · · · · · · · · ·	11	
Accidents	<b>1</b>	Pneumatic Driller	C339					
(Describe any occurance of accident)	1	Prestressing Operative	C340					1
	1	Rigger/Metal Formwork Erector	C341					
		Shotcretor	C342					
		Shotfirer	C343					
		Slope Maintenance Worker	C344					
		Structural Steel Erector	C345					
Remarks Weekly Safety & Environmental Co-ordination Meeting #121 was held at 11:15 hr.	<b> </b>	Structural Steel Welder	C346			.ii		
Weekly Safety & Environmental Co-ordination Meeting #121 was neld at 11:15 hr.  Area B - Backhoe EX25 on site		Tiler	C347					i
Area B - Datriot EAZJ on site		Trackworker	C348	[	. ,			
		Truck Driver / Coxswain / Barge Engineer / Working Ganger*	C349	3	2800000			
		Window Frame Installer	C350			· · · · · · · · · · · · · · · · · · ·	<b>.</b>   <b> </b>	
	Total 20		1	- 1				
	Assistance to Engineer No.							
	Amak							pro description
	Amah 1							and the same of the same of the same of the same of the same of the same of the same of the same of the same of
	Coordinate Engineer 1					<u> </u>	<b>_</b>	
	Drafting Assistant 1 Driver 2		19 1	ł		* *		
	Driver 2 Field Assistant 3							
	Office Assistant 1		<del></del>			· :	<b>-    </b>	
	Watchman 1				*********	÷ :		
	Total 10	(To be continued)			Total I show	53	-	
	] [1 train   10	ELV DE COMUNICION	<del></del>		Total Labour	53	] (Total	40 8

* Working ganger is equivalent to ordinary worker in the trade in which he is employed or, if the trade is not listed, truck driver (refer to GS Table 1.1)  Day's record and instructions checked and agreed	Signed:	Engineer's Representative	Signed:	Contractor's Representative	Signed:	Tow
	Name/Post:	Andrew Lau/Resident Engineer		Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
Original - ER's File	Date:		Date:		Date:	13-7-2012
Duplicate - Contractor						

Idling Code:

Contract No.: DC/2009/22 Date: 12/07/2012

Day: Thursday

a Breakdown e Bad Weather b Standby f Task Completed e Awaiting Instruction g No Operator d Assemble/Disassemble h Not Required

i Sunday/Public Holiday

Time	Location	Activity	Labour				Pla	nt				Material De	livered
						Type	Wo	rking		Idling		Description	Quantity
			Trade	Code	No.		No.	ID	No.	ID	Code		-
	Area A - DN1800 Stormwater Drain	No activity as per KŁKJV arrangement											
08:00 - 18:00	Area A - Pump Station	Patching up tie bolt hole, backfilling between ground beams AB1-AB4 & AB11-AB13 for slab construction of discharge chamber Laying blinding concrete for base slab of discharge chamber Formwork shuttering for walls (W16 & W17) and erecting flasework for roof construction at store room Driving sheetpiles for shoring of Ø1200 pipe trench between manhole MH06~box culvert bay 20 General housekeeping	Carpenter (Formwork)	C307		Backhoe		EX28					
			Labourer (female)	C406	3	Backhoe			1	EX39	h		
			Labourer (male)	C406	5	Backhoe with Vibrating Hammer	1	EX47					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	I	Oxy-Acetylene	1						
			Plant and Equipment Operator (Hoist and Crane)	C334	1	Steel Bending Machine			3		h		
						Water Pump 50mm	2			<u> </u>		7,1,1,1	
						Water Pump 75mm	]	1					
						Welding Set	I	<b>†</b>		<del>                                     </del>	1		
									1				
8:00 - 18:00	Area A - Pump Station	Plastering to walls and ceiling at transformer room	Labourer (male)	C406	2								
	<u> </u>		Plasterer	C337	1								
	Area A - Pump Station - Box Culvert	No activity as per KLKJV arrangement											
)7:00 - 18:00 18:00 - 20:00	Area A - Ting Kok Road	Manual control of "stop/go" sign for traffic flow regulation (3 F/Lab.)  Manual control of temporary traffic light for traffic flow regulation (1 F/Lab.)	Labourer (female)	C406	3								
.000 1000	1 1 20 1/1 5 1												
8:00 - 18:00	(CH70-125)	Driving sheetpiles for shoring of Ø2100 pipe trench at Ch. 75~80  Excavating for Ø2100 pipe trench at Ch. 100~110 and fabricating first layer I-beam walings & struts for shoring  Cart away excavated materials to temporary stockpile area at D.D. 12, Tung Tsz Road (5 truckloads)	General Welder	C318	1	Backhoe	1	EX50					
			Labourer (male)	C406	3	Backhoe with Vibrating Hammer	ŧ	EX48					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Dump Truck	1						
			Plant and Equipment Operator (Hoist and Crane)	C334		Oxy-Acetylene	1						
······································			Truck Driver	C349	1	Water Pump 50mm	2						
						Welding Set	1						
	Area A - Ting Kok Road (Intake Structure)	No activity as per KLKJV arrangement				Water Pump 50mm	1						

Day's record and instructions checked and agreed Original - ER's File Duplicate - Contractor Signed: Signed: Signed: Engineer's Representative Contractor's Representative IOW Tso Sai Kuen / Inspector of Works Andrew Lau/Resident Engineer Wong Ching Lung / Site Agent Name/Post: Date: Date: Date: 13-7-2012

Idling Code:

Contract No.: DC/2009/22 Date: 12/07/2012

Day: Thursday

a Breakdown e Bad Weather b Standby f Task Completed c Awaiting Instruction g No Operator

d Assemble Disassemble h Not Required

i Sunday/Public Holiday

Time	Location	Activity	Labour				Pla	nt	tt			Material De	livered
[						Туре	Wo	rking		Idling		Description	Quantity
			Trade	Code	No.		No.	lD.	No.	ID	Code		
08:00 - 18:00	Area B - Tung Tsz Nursery (CH130-CH280	Bay 10 - Excavating for box culvert and fabricating 1st layer 1-beam walings & struts for shoring Bay 11 - Excavating for box culvert to foramtion level Bay 12 - Excavating for box culvert to formation level, laying geotextile membrane and rubble mound Bay 13 - Concreting base slab of box culvert (Total:37.5cuM) Cart away excavated materials to temporary stockpile area at D.D.12 Tung Tsz Road (6 truckloads) Cart away excavated materials to pump station at Area A (8 truckloads)	Concretor	C309	1	Backhoe	1						
			General Welder	C318	2	Backhoe	1	EX36					
<del> </del>			Labourer (male)	C406	7	Backhoe	1	EX42					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	3	Dump Truck	2						
ļ			Truck Driver	C349	2	Generator	1			T			
						Oxy-Acetylene	2						
						Vibrating Prob	2		1	1		***************************************	
						Welding Set	2	T	1		1		
ļ												***************************************	
08:00 - 18:00	Area B - Tung Tsz. Nursery (CH40-CH130)	Bay 5 - Extracting sheetpiles from shoring General housekeeping & cleaning up sediments from wheel washing bay	Labourer (male)	C406	2	Backhoe with Vibrating Hammer	1	EX23					
			Plant and Equipment Operator (Hoist and Crane)	C334	1	Oxy-Acetylene	1						
						Water Pump 50mm	1						
						Water Pump 75mm	1	1	1	1			
								1					
08:00 - 18:00	Area B - Tung Tsz Nursery (Jacking Pit)	Flame cutting holes on sheetpile shoring for grouting	General Welder	C318	. 1	Air Compressor			1	AC04	h		
			Labourer (male)	C406	2	Coring Machine		1	1	1	h		
						Grout Machine			I		h		
						Oxy-Acetylene	I	1	<u> </u>				
······································						Water Pump 50mm	1						
08:00 - 18:00	Area E - Siu Lek Yuen Rd.Playground	Pl 1603.1 - Trimming trench formation and placing blinding concrete at Ch. 16~21	Labourer (male)	C406	2	Backhoe	1	EX21					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Blower	1						
···	<u> </u>					Generator	1						
						Oxy-Acetylene			1		h		
						Water Pump 50mm	. 1						
						Water Pump 75mm	1						
08:00 - 18:00	Area F - Lek Yuen Street Rest Garden	Placing foam concrete into abandoned 1200Ø drainage pipe	Labourer (male)	C406	4	Blower	1					**************************************	
						Mini Generator	1						
**************************************												· · · · · · · · · · · · · · · · · · ·	
	Area G - Ngan Shing St.	No activity as per KLKJV arrangement						1	T	1			

Day's record and instructions checked and agreed Original - ER's File Duplicate - Contractor Signed: Signed: Signed: Engineer's Representative Contractor's Representative IOWTso Sai Kuen / Inspector of Works Andrew Lau/Resident Engineer Name/Post: Wong Ching Lung / Site Agent 13-7-201 Date: Date: Date:

Idling Code:

Contract No.: DC/2009/22 Date: 12/07/2012

Day: Thursday

a Breakdown b Standby

e Bad Weather

f Task Completed c Awaiting Instruction g No Operator

d Assemble Disassemble h Not Required

Time	Location	Activity	Labour				Material Delivered						
						Туре	Wo	rking	1	ldling	3	Description	Quantity
			Trade	Code	No.		No.	ID	No.	ID	Code		
	Area I - Contractor Office	No activity as per KLKJV arrangement											

Day's record and instructions checked and agreed						
Original - ER's File  Duplicate - Contractor	Signed:		Signed:		Signed:	(224-
	Ei	ngineer's Representative		Contractor's Representative		IOW
	Name/Post:	Andrew Lau/Resident Engineer		Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
	Date:		Date:		Date:	13-7-2012

Client Department: Drainage Services Department

Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

Contractor: KWAN LEE - KULY JOINT VENTURE

Weather: <u>AM</u>

Fine

Typhoon / Warning Signal:

<u>PM</u>

Fine

Rainfall (mm)

ST 10, TP 0.5

Nil

Contract No.: DC/2009/22 Date: 13/07/2012

Day: Friday

(Hong Kong Observatory's record)

Instructions to Contractor	Contractor's Site Staff No.	Labeur	Code	No.	Labour	Code	No.	Plan	· · · · · · · · · · · · · · · · · · ·	
(Record verbal instructions given)			1.0	-10-		Cour	(10.	r an		
	Assistant Surveyor 1	Asphalter (Other Construction)	C301		Chainman	C401		Туре	No. Working	No. I
	Chainman 3	Asphalter (Roadworks)	. C302		Concreting Labourer	C402		Air Compressor		
	Community Liaison Officer 1	Bamboo Scaffolder	C303		Diver's Linesman / Dredger Crew / Barge Crew	C403		Backhoe	6	2
	CEG	Bar Bender & Fixer		2	Excavator	C404		Backhoe with Vibrating Hammer	3	
	Contract Manager 1	Bricklayer	C305		Heavy Load Labourer	C405		Blower	2	
Comments by Engineer's / Contractor's Representative	Engineer	Carpenter (Fender)	C306		Labourer (male / female) / Lorry checker / Watchman/Office attendan	C406	30	Coring Machine	I	
	Environmental Officer 1	Carpenter (Formwork)	C307	3	Sewerman	C407		Crane Lorry	1	-
	Foreman/Assistant Foreman 2	Concrete Repairer	C308	- 1	Automation Equipment Mechanic	E301		Dump Truck	1	
	General Foreman 1	Concretor	C309		Building Services Mechanic	E302		Generator	2	
	Labour Officer 1	Construction Plant Mechanic	C310	]	Cable Jointer (Power)	E303		Grout Machine		1
	Land Surveyor 1	Curtain Wall Installer	C311		Carpenter	E304		Mini Generator	1	
Utilities	Project Director I	Demolition Worker	C312	1	Electrician/Electrical Fitter	E305		Oxy-Acetylene	6	1
(Record location & nature of works)	Project Manager 2	Diver	C313	1	Fire Services Mechanic	E306		Steel Bending Machine		: 3
(Accord academ & Batter of Works)	Project Quantity Surveyor 1	Drainlayer	C314	1	Instrument Mechanic	E307		Water Pump 50mm		· •
	Quantity Surveyor	Electrician (Main Contractor's)	C315		Lift Electrician	E308		Water Pump 75min	: 3	
	Safety Officer 1	Floor Layer	C316	- 1	Lift Mechanic	E309	١ ١	Welding Set		. 1
	Site Agent 1	Gas Plumber	C317		Mechanical Fitter	E310		Wedning Set		<u>1</u>
	Surveyor 1	General Welder		3	Overhead Linesman	E311		• • •	• • • • • • • • • • • • • • • • • • • •	1
		Glazier	C319		Painter	E312				
		Ground Investigation Operator Driller/Borer	C320		Plumber and Pipe Fitter	E312				- I
		Grouting Worker	C320	Ī	Refrigeration/AC/Ventilation Mechanic		.			
		Joiner Joiner	C322			E314				
		Leveller	C323		Sheet Metal Worker	E315				
		Marble Worker			Sign Fabricator	E316				·····
		Marine Construction Plant Operator	C324	- 1	Sign Installer	E317				÷ ·
Progress			C325		Thermal Insulation Craftsman	E318				
(Mention briefly any matter delaying or obstructing progress)	<b></b>	Mason Metal Scaffolder	C326	- }	Welder	E319	- 1			
LETERATOR STEEL HER MARKET GENEVING OF GOSTE METING DE GETESS			C327		Labourer	E401				
		Metal Worker	C328		Semi-skilled Worker	E402			<u>:</u>	
		Painter & Decorator	C329		Technician	Т				200
		Piling Operative	C330			ļi				
		Pipelayer	C331			<u></u>			:	
Visitor		Plant and Equipment Operator (Builder's Lift and Other Machinery)	C332						:	:
(Record names of visitors and time of visit)	<b></b>	Plant & Equipment Operator (Earthmoving Machinery)		5		i. i	ı		4.	:
	<b>- 1</b>	Plant and Equipment Operator (Hoist and Crane)		.4						
		Plant and Equipment Operator (Piling)	C335						:	
		Plant and Equipment Operator (Tunnelling)	C336							
		Plasterer	C337	1						
		Plumber	C338							
Accidents		Pneumatic Driller	C339	- 1			- 1			
(Describe any occurance of accident)		Prestressing Operative	C340				1			
		Rigger/Metal Formwork Erector	C341						····· · · · · · · · · · · · · · · · ·	
		Shotcretor	C342	-		·				
		Shotfirer	C343	1	*** ****					÷
	:	Slope Maintenance Worker	C344							
		Structural Steel Erector	C345				• • •			
Remarks	:	Structural Steel Welder	C346							····•
#28 was held at 11;20 A.M. at KLKJV site Office		Tiler	C347					1		<del></del>
A - Backhoe EX51 on site		Trackworker				<u> </u>				**
		Truck Driver / Coxswain / Barge Engineer / Working Ganger*	C348	,		i j.				
		Window Frame Installer	C349 C350			· · · · · · · · · · · · · · · · · · ·				
	Total 20	Francow Flathe Histarei	C330							
				-1			1			,
	Assistance to Engineer No.									
						i				÷.
	Amah 1		;							
	Coordinate Engineer 1		<u>:</u>							1
	Drafting Assistant 1		44.	1					· · · · · · · · · · · · · · · · · · ·	
	Driver 2									
	Field Assistant 3		<u> </u>				]			
	Office Assistant			1						-1
	Watchman 1					1	l	1	* * * * * * * * * * * * * * * * * * * *	
	Total 9									

* Working ganger is equivalent to ordinary worker in the trade in whic
he is employed or, if the trade is not listed, truck driver
(refer to GS Table 1-1)

Day's record and instructions checked and agreed

Signed:

Date:

Engineer's Representative

Name/Post: Andrew Lau/Resident Engineer

Signed: Contractor's Representative

Date:

Signed:

IOW

Tso Sai Kuen / Inspector of Works Wong Ching Lung / Site Agent

> 16-7-201~ Date:

Original - ER's File Duplicate - Contractor

Idling Code:

Contract No.: DC/2009/22 Date: 13/07/2012

Day: Friday

a Breakdown e Bad Weather b Standby f Task Completed c Awaiting Instruction g No Operator d Assemble Disassemble

h Not Required

Time	Location	Activity	Labour				Pla	nt				Material De	Material Delivered		
						Type	W	orking	I	Idling		Description	Quantity		
:			Trade	Code	No.		No.	ID	No.	ID	Code				
	Area A - DN1800 Stormwater Drain	No activity as per KŁKJV arrangement													
09.00 10.00	A A . D														
08:00 - 18:00	Area A - Pump Station	Plastering to walls and ceiling at transformer room	Labourer (male)	C406	1	<u> </u>									
			Plasterer Plasterer	C337	l			<u> </u>	<u> </u>	ļ					
08:00 - 18:00	Area A - Pump Station	Rebar fixing for base slab of discharge chamber Erecting flasework and formwork shuttering for soffit of roof slab and beam of store room Driving sheetpiles for shoring of Ø1200 pipe trench between manhole MH06~box culvert, bay 20 Cleaning up cable trenches and floor slab at transformer room General housekeeping	Bar Bender & Fixer	C304	2	Backhoe	The state of the s		1111	EX28	h	THE STATE OF THE S			
			Carpenter (Formwork)	C307	3	Backhoe	1	EX50	<u> </u>	<b>†</b>					
			Labourer (female)	C406	3	Backhoe with Vibrating Hammer	1	EX47							
			Labourer (male)	C406	3	Oxy-Acetylene	1		<u> </u>	1					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Steel Bending Machine		1	3	1	h				
			Plant and Equipment Operator (Hoist and Crane)	C334	1	Water Pump 50mm	2	1	<b>-</b>		<b>T</b>	<del></del>			
						Water Pump 75mm	1	1		1		***************************************			
					1	Welding Set	1	1	1	T					
								1		1					
	Area A - Pump Station - Box Culvert	No activity as per KLKJV arrangement													
07:00 - 18:00 18:00 - 20:00	Area A - Ting Kok Road	Manual control of "stop/go" sign for traffic flow regulation (3 F/Lab.)  Manual control of temporary traffic light for traffic flow regulation (1 F/Lab.)	Labourer (female)	C406	3										
08:00 - 18:00	Anna A. Tina Val. David						<u> </u>	<b></b>	ļ						
100:00 - 10:00	(CH70-125)	Excavating trench along shoring line to remove boulders and driving sheetpiles for Ø2100 pipe trench shoring at Ch. 70~75  Excavating for Ø2100 pipe trench at Ch. 100~110 and fabricating top layer I-beam walings & struts Cart away excavated materials to temporary stockpile area at D.D. 12, Tung Tsz Road (4 truckloads)	General Welder	C318	1	Backhoe		EX39							
			Labourer (male)	C406	3	Backhoe	1	EX51							
			Plant & Equipment Operator (Earthmoving Machinery)	C333	2	Backhoe with Vibrating Hammer	]	EX48							
			Plant and Equipment Operator (Hoist and Crane)	C334	1	Dump Truck	1								
			Truck Driver	C349		Оху-Асеtylеле	1								
						Water Pump 50mm	2								
						Welding Set	1								
	Area A - Ting Kok Road (Intake Structure)	No activity as per KLKJV arrangement				Water Pump 50mm	1			-					
										-					

	·····	**************************************	L				. 1	1 1	
ay's record and instructions checked and agreed									***************************************
riginal - ER's File									
uplicate - Contractor	Signed:	Engineer's Representative	Signed:	Contractor's Representa	ttive	Signed:		IOW	-
	Name/Post:	Andrew Lau/Resident Engineer		Wong Ching Lung / Site Age	ent		Tso Sai	Kuen / Inspector of Works	
	Date:		Date:			Date:		16-7-2012	

Idling Code:

Contract No.: DC/2009/22 Date: 13/07/2012

Day: Friday

a Breakdown e Bad Weather b Standby

d Assemble/Disassemble

f Task Completed c Awaiting Instruction g No Operator

h Not Required

Time	Location	Activity	Labour				Pla	nt				Material De	livered
**************************************						Type	Wo	rking		Idling		Description	Quantity
			Trade	Code	No.	1	No.	1D	No.	1D	Code		
08:00 - 18:00	Area B - Tung Tsz Nursery (CH130-CH280	Bay 10 - Excavating for box culvert and fabricating 1st layer I-beam waling & struts for shoring Bay 11 - Excavating for box culvert to formation level Bay 12 - Laying geotxetile membrane and rubble mound Bay 13 - Stripping off formwork from base slab Cart away excavated materials to Contract 2's temporary stockpile area at Tai Po Industrial Estate (15 truckloads)	General Welder	C318	2	Backhoe	to and a second						
			Labourer (male)	C406	5	Backhoe	1	EX36					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	2	Backhoe	1	EX42					
						Generator	1						
						Oxy-Acetylene	2			1			
						Welding Set	2						
								1					
08:00 - 18:00	Area B - Tung Tsz Nursery (CH40-CH130)	Bay 5 - Extracting sheetpiles from shoring General housekeeping & cleaning up sediments from wheel washing bay	Labourer (male)	C406	2	Backhoe with Vibrating Hammer	1	EX23					
			Plant and Equipment Operator (Hoist and Crane)	C334	1	Oxy-Acetylene	1						
						Water Pump 50mm	1						
						Water Pump 75mm	1						
08:00 - 18:00	Area B - Tung Tsz Nursery (Jacking Pit)	Coring holes for grouting to pipe jacking route	Labourer (male)	C406	3	Air Compressor			1	AC04	h		
	<u> </u>					Coring Machine	1						
						Grout Machine			1	1	h		
W						Oxy-Acetylene	1						
						Water Pump 50mm	1	1					
20.00.10.00								<u></u>					
08:00 - 18:00	Area E - Siu Lek Yuen Rd.Playground	PL 1603.1 - Laying and jointing 16500 concrete pipes at Ch. 15~20	Drainlayer	C314		Backhoe			]	EX21	h		
			Labourer (male)	C406	3	Blower	1						
	<u> </u>		Plant and Equipment Operator (Hoist and Crane)	C334	1	Crane Lorry	I						
	ļ					Generator	1						
						Oxy-Acetylene			1				
						Water Pump 50mm	1						
						Water Pump 75mm	1						
	<u> </u>					Welding Set			1				
20.00 10.00													
08:00 - 18:00	Rest Garden	Stripping off plug end formwork from abandoned 1200Ø drain pipe ends, making good the manhole wall surface Rendering to reinstate the 225 U-channel next to manhole cover	Labourer (male)	C406	4	Blower	1						
						Mini Generator	1	1		<b>†</b>			<b>†</b>
							1	1	<del> </del>	†	<del>                                     </del>		<u> </u>

Day's record and instructions checked and agreed			
Original - ER's File			
Duplicate - Contractor	Signed:	Signed:	Signed:
	Engineer's Representative	Contractor's Representative	IOW
	Name/Post: Andrew Lau/Resident Engineer	Wong Ching Lung / Site Agent	Tso Sai Kuen / Inspector of Works
	Date:	Date:	Date: 16-7-2012

Idling Code:

Contract No.: DC/2009/22 Date: 13/07/2012

Day: Friday

a Breakdown b Standby

e Bad Weather f Task Completed

c Awaiting Instruction g No Operator d Assemble/Disassemble

h Not Required i Sunday/Public Holiday

Time	Location	Activity	Labour	Labour			Pla		Material Delivered				
						Type	Wo	rking		ldling		Description	Quantity
			Trade	Code	No.		No.	ID	No.	ID.	Code		
	Area G - Ngan Shing St.	No activity as per KLKJV arrangement					1	<b>†</b>	1	1			1
							1	1	1	1		***************************************	
	Area I - Contractor Office	No activity as per KLKJV arrangement											

Day's record and instructions checked and agreed						
Original - ER's File						$\mathcal{O}_{\mathcal{O}_{\mathcal{O}}}$
Duplicate - Contractor	Signed:		Signed:		Signed:	
	Eng	gineer's Representative		Contractor's Representative		IOW
	Name/Post:	Andrew Lau/Resident Engineer		Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
	Date:		Date:		Date:	16-7-2012

Client Department: Drainage Services Department

Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

Contractor: KWAN LEE - KULY JOINT VENTURE

Weather:

Typhoon / Warning Signal:

Contract No.: DC/2009/22 Date: 14/07/2012

 $\underline{\mathbf{AM}}$ Shower

<u>PM</u> Fine

Rainfall (mm) Thunderstorm Warning - 04:55~06:00 & 07:20~09:30 ST 10, TP 10

Day: Saturday

(Hong Kong Observatory's record)

Instructions to Contractor	Contractor's Site Staff No.	Labour	Code	No.	Labour	Code	No.		Plant	
(Record verbal instructions given)		<b>1</b>		. 110						
,	Assistant Surveyor 1	Asphalter (Other Construction)	C301		Chainman	C401		Туре	No. V	Vorking No. Idi
	Chainman 3	Asphalter (Roadworks)	C302		Concreting Labourer	C402		Air Compressor		
	Community Liaison Officer 1	Bamboo Scaffolder	C303		Diver's Linesman / Dredger Crew / Barge Crew	C403		Backhoe		6
	CEG1	Bar Bender & Fixer	C304	3[	Excavator	C404		Backhoe with Vibrating Hammer		2
Comments by Engineer's / Contractor's Representative	Contract Manager I Engineer	Bricklayer (Cond.)	C305		Heavy Load Labourer	C405		Coring Machine		1
Comments by Engineer's / Confractor's Acpresentative	Environmental Officer	Carpenter (Fender)	C306		Labourer (male / female) / Lorry checker / Watchman/Office attendan	C406	23	Crane Lorry		
	Foreman/Assistant Foreman 2	Carpenter (Formwork) Concrete Repairer	C307 C308	4	Sewerman Automation Equipment Mechanic	C407		Dump Truck		3
	General Foreman 1	Concretor	C309	1	Building Services Mechanic	E301 E302		Generator Grout Machine		2
	Labour Officer 1	Construction Plant Mechanic	C310		Cable Jointer (Power)	E303				
	Land Surveyor 1	Curtain Wall Installer	C311		Carpenter	E304		Oxy-Acetylene Steel Bending Machine		3 1
	Project Director 1	Demolition Worker	C312	1	Electrician/Electrical Fitter	E305		Water Pump 50mm		0
Utilities	Project Manager 2	Diver	C313		Fire Services Mechanic	E306		Water Pump 75mm		3
(Record location & nature of works)	Project Quantity Surveyor 1	Drainlayer	C314		Instrument Mechanic	E307		Welding Set		4
	Quantity Surveyor	Electrician (Main Contractor's)	C315		Lift Electrician	E308				
	Safety Officer I	Floor Layer	C316		Lift Mechanic	E309			1	
	Site Agent 1	Gas Plumber	C317		Mechanical Fitter	E310				:
	Surveyor 1	General Welder	C318	3	Overhead Linesman	E311				
	***************************************	Glazier	C319		Painter	E312	2			
		Ground Investigation Operator/Driller/Borer	C320		Plumber and Pipe Fitter	E313				
		Grouting Worker	C321	. [	Refrigeration/AC/Ventilation Mechanic	E314				
		Joiner	C322		Sheet Metal Worker	E315				
		Leveller	C323		Sign Fabricator	E316				
	[·····································	Marble Worker Marine Construction Plant Operator	C324		Sign Installer	E317			**	<u>.</u> .
Progress		Mason	C325 C326		Thermal Insulation Craftsman Welder	E318				
(Mention briefly any matter delaying or obstructing progress)		Metal Scaffolder	C327	i	Labourer	E319 E401				
		Metal Worker	C328	2	Semi-skilled Worker	E402				
		Painter & Decorator	C329	1	Technician	T			:	·
		Piling Operative	C330	1				-		<u> </u>
		Pipelayer	C331	1						······
Visitor		Plant and Equipment Operator (Builder's Lift and Other Machinery)	C332						:	:
(Record names of visitors and time of visit)		Plant & Equipment Operator (Earthmoving Machinery)	C333	6					-	;
(Accord manes of visitors and time of visit)		Plant and Equipment Operator (Hoist and Crane)	C334	. 3					:	
		Plant and Equipment Operator (Piling)	C335						i.	
		Plant and Equipment Operator (Tunnelling)	C336							
		Plasterer	C337							and the same
	i	Plumber	C338	- 1						
Accidents		Pneumatic Driller	C339							
(Describe any occurance of accident)		Prestressing Operative Rigger/Metal Formwork Erector	C340 C341						·····	
		Shotcretor	C342			<del></del>				
		Shotfirer	C343						<u> </u>	· P
	:	Slope Maintenance Worker	C344						en e cermid como	····
		Structural Steel Erector	C345	ŀ		: :				
Remarks		Structural Steel Welder	C346	1						
a B - Backhoe EX23 off site		Tiler	C347						:	
		Trackworker	C348							
		Truck Driver / Coxswain / Barge Engineer / Working Ganger*	C349	3						
	<u> </u>	Window Frame Installer	C350						:	:
	Total 20									
	Assistance to Engineer No.			·						<u> </u>
	Amoh			.				The second of th		- P
	Amah 1 1 Coordinate Engineer 1									
	Drafting Assistant		<del></del>			<u>:</u>				
	Driver 2		1 1					,		
	Field Assistant 2			.					21	
	Office Assistant 1		<del></del>			<del></del>			<u>.</u>	
	Watchman 1		<u> </u>	I			ł			
	Total 9	(To be continued)	:		Total Labour		49	Total		15 8
		······································	·				7.7	(4.×14)	<del></del>	·

* Working ganger is equivalent to ordinary worker in the trade in which
he is employed or, if the trade is not listed, truck driver
(refer to GS Table 1.1)

Day's record and instructions checked and agreed

Signed:

Engineer's Representative

Name/Post: Andrew Lau/Resident Engineer

Signed:

IOW

Tso Sai Kuen / Inspector of Works

Original - ER's File Duplicate - Contractor Date:

Date:

Signed:

Contractor's Representative

Wong Ching Lung / Site Agent

Date:

16-7-2012

Idling Code:

d Assemble/Disassemble

Contract No.: DC/2009/22 Date: 14/07/2012

Day: Saturday

a Breakdown e Bad Weather b Standby f Task Completed c Awaiting Instruction g No Operator

h Not Required i Sunday/Public Holiday

Time	Location	Activity	Labour				Pla	nt	······································	· · · · · · · · · · · · · · · · · · ·		Material De	livered
						Туре	Wo	rking	***************************************	Idling		Description	Quantity
L			Trade	Code	No.	1	No.	ID	No.	ID	Code		Ì
	Area A - DN1800 Stormwater Drain	No activity as per KLKJV arrangement											
08:00 - 18:00	Area A - Pump Station	Rebar fixing for base slab and walls of discharge chamber Erecting flasework and formwork shuttering for soffit of roof slab and beams of store room Driving sheetpiles for shoring of Ø1200 pipe trench between manhole MH06~box culvert bay 20 Cleaning up cable trenchs and floor slab at transformer room General housekeeping Fixing 2 Nos. stainless steel doors at transformer room	Bar Bender & Fixer	C304	3	Backhoe				EX28	h		
			Carpenter (Formwork)	C307	4	Backhoe			1	EX39	h		
			Labourer (female)	C406	2	Backhoe	1	EX50					
	:		Labourer (male)	C406	4	Backhoe with Vibrating Hammer	1	EX47				.:	
			Metal Worker	C328	2	Crane Lorry	1						
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Oxy-Acetylene	1	1	1				
			Plant and Equipment Operator (Hoist and Crane)	C334	2	Steel Bending Machine			3		h		
						Water Pump 50mm	2		1				1
						Water Pump 75mm	1	1	<del>                                     </del>	1		······································	<u> </u>
						Welding Set	1		1			······································	<u> </u>
							1		1				
08:00 - 18:00	Area A - Pump Station	Sanding the plastered wall face and painting sealer to walls and ceiling at transformer room	Labourer (male)	C406	1								
			Painter	E312	2		<b>†</b>	1	<b>†</b>				
				<u> </u>		<u> </u>	1	1	<b></b>				
	Area A - Pump Station - Box Culvert	No activity as per KLKJV arrangement											
									T				
07:00 - 18:00 18:00 - 20:00	Area A - Ting Kok Road	Manual control of "stop/go" sign for traffic flow regulation (3 F/Lab.)  Manual control of temporary traffic light for traffic flow regulation (1 F/Lab.)	Labourer (female)	C406	3								
			<u> </u>										
08:00 - 18:00	Area A - Ting Kok Road (CH70-125)	Driving sheetpiles for shoring of Ø2100 pipe trench at Ch. 70~75  Excavating for Ø2100 pipe trench at Ch. 95~110 and fabricating 1st layer I-beam struts & walings for shoring  Cart away excavated materials to temporary stockpiling area at D.D.12, Tung Tsz Road (5 truckloads)	General Welder	C318	1	Backhoe	Front	EX36					
			Labourer (male)	C406	3	Backhoe	1	EX51					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	2	Backhoe with Vibrating Hammer	1	EX48					
			Plant and Equipment Operator (Hoist and Crane)	C334	1	Dump Truck	1	Ī	1				
			Truck Driver	C349	1	Oxy-Acetylene	1	1	1				
						Water Pump 50mm	2						
						Welding Set	1	1	<b>1</b>				
							1	1					1

Day's record and instructions checked and agreed Original - ER's File Duplicate - Contractor Signed: Signed: Signed: Engineer's Representative Contractor's Representative IOW Tso Sai Kuen / Inspector of Works Andrew Lau/Resident Engineer Wong Ching Lung / Site Agent Name/Post: 16-7-2012 Date: Date: Date:

Idling Code:

Contract No.: DC/2009/22 Date: 14/07/2012

Day: Saturday

a Breakdown b Standby

e Bad Weather f Task Completed

c Awaiting Instruction g No Operator d Assemble/Disassemble

Not Required	
Sunday/Public	Holiday

Time	Location	Activity	Labour				Pla	nt				Material De	ivered
						Type	Wo	rking		Idling		Description	Quantity
·			Trade	Code	No.	1	No.	ID	No.	1D	Code		***************************************
	Area A - Ting Kok Road (Intake Structure)	No activity as per KLKJV arrangement				Water Pump 50mm	1						
	(make Structure)			-	-			<del> </del>	<del> </del>	<del> </del>	<del> </del>		
08:00 - 18:00	Area B - Tung Tsz Nursery (CH130-CH280)	Bay 10 - Excavating for box culvert and fabricating 1st layer I-beam struts & walings for shoring Bay 11 - Excavating for box culvert to formation level Bay 12 -Laying geotextile membrane and rubble mound, then placing blinding concrete Cart away excavated materials to temporary stockpile area at D.D.12, Tung Tsz Road (16 truckloads)	General Welder	C318	2	Backhoe	7144	EX25					
		and any shared materials to temporary stockpite area at 15.15.12, 1 and 132 food (10 trackloads)	Labourer (male)	C406	4	Backhoe	+ ;	EX42	<del>                                     </del>	<del>                                     </del>	<del> </del>	**************************************	
			Plant & Equipment Operator (Earthmoving Machinery)	C333	<del></del>	Dump Truck	2	+	╁──	+		<del> </del>	
			Truck Driver	C349		Generator	1	<b></b>	<del>                                     </del>	-	<b></b>		
						Oxy-Acetylene	2		1	1	<del> </del>		
						Welding Set	2	1		1	1		
08:00 - 18:00	Area B - Tung Tsz Nursery (CH40-CH130)	General housekeeping & cleaning up sediments from wheel washing bay	Labourer (male)	C406	1	Water Pump 50mm	I						
						Water Pump 75mm	1					······································	
00:81 - 00:80	Area B - Tung Tsz Nursery (Jacking Pit)	Coring holes for grouting General housekeeping	Labourer (male)	C406	3	Air Compressor			1	AC04	h		
						Coring Machine	1						
						Grout Machine			1		h		
						Oxy-Acetylene	I						
					ļ	Water Pump 50mm	1		<u> </u>	<u> </u>	ļ	**************************************	ļ
0.00 1000								<u> </u>	<u> </u>				
08:00 - 17:00	Area E - Siu Lek Yuen Rd.Playground	PL 1603.1 - Backfilling type A & type B granular bedding to surround the 1650Ø drain pipe at Ch. 15~20	Labourer (male)	C406		Backhoe	1	EX21					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Generator	1						
······						Oxy-Acetylene			1		h		
						Water Pump 50mm	1		<u> </u>	<u> </u>			
······································						Water Pump 75mm	1	<u> </u>	ļ				
	A F. TL. V Ch	N						<u> </u>		1			
	Rest Garden	No activity as per KLKJV arrangement											
	Area G - Ngan Shing St.	No activity as per KLKJV arrangement											
	Area I - Contractor Office	No activity as per KLKJV arrangement											

TOTAL C				l i		i	
							-
Day's record and instructions checked and agreed							
Original - ER's File					$\bigcap$	) _	
Duplicate - Contractor	Signed:	Signed:		Signed:		-	
	Engineer's Representative	Contracte	or's Representative		IOW		
	Name/Post: Andrew Lau/Resident Engineer	Wong Chi	ing Lung / Site Agent		Tso Sai Kuen / Inspec	ctor of works	
	Date:	Date:	····	Date:	16-7-	2012	

Client Department: Drainage Services Department

Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

Contractor: KWAN LEE - KULY JOINT VENTURE

Weather:

Typhoon / Warning Signal:

AM Fine

Duplicate - Contractor

<u>PM</u> Fine

Rainfall (mm) ST 2, TP 0.5 Very Hot Weather Waning - 09:15~19:45

(Hong Kong Observatory's record)

Instructions to Contractor	Contractor's Site Staff No.	Labour	Code No	Labour	Code	No.	Plant
(Record verbal instructions given)			i i		1 1.		
		Asphalter (Other Construction) Asphalter (Roadworks)	C301	Chainman Chainman	C401	Туре	No. Working No. Idi
		Bamboo Scaffolder	C302	Concreting Labourer	C402	Air Compressor	
		Bar Bender & Fixer	C303	Diver's Linesman / Dredger Crew / Barge Crew	C403	Backhoe	
		Bricklayer	C304	Excavator	C404	Backhoe with Vibrating Hammer	<u>i</u> i
Comments by Engineer's / Contractor's Representative		Carpenter (Fender)	C305	Heavy Load Labourer Labourer (male / female) / Lorry checker / Watchman Office attention	C405	Generator	
South State	· · · · · · · · · · · · · · · · · · ·	Carpenter (Formwork)	C306 C307			4 Steel Bending Machine	<u> </u>
		Concrete Repairer	C308	Sewennan Automation Equipment Mechanic	C407	Water Pump 50mm	6
	· <b>     </b>	Concretor	C309	Building Services Mechanic	E301 E302	Water Pump 75mm	
		Construction Plant Mechanic	C310	Cable Jointer (Power)	E302		
		Curtain Wall Installer	C311	Carpenter	E304		
VI.W.		Demolition Worker	C312	Electrician/Electrical Fitter	E305		
Utilities		Diver	C313	Fire Services Mechanic	E306		· · · · · · · · · · · · · · · · · · ·
(Record location & nature of works)		Drainlayer	C314	Instrument Mechanic	E307		
	:	Electrician (Main Contractor's)	C315	Lift Electrician	E308		
		Floor Layer	C316	Lift Mechanic	E309		1
		Gas Plumber	C317	Mechanical Fitter	E310		
		General Welder	C318	Overhead Linesman	E311		
	:	Glazier	C319	Painter	E312		
		Ground Investigation Operator/Driller/Borer	C320	Plumber and Pipe Fitter	E313		
		Grouting Worker	C321	Refrigeration/AC/Ventilation Mechanic	E314		
		<u>Joiner</u>	C322	Sheet Metal Worker	E315		
		Leveller	C323	Sign Fabricator	E316		
		Marble Worker	C324	Sign Installer	E317		±.
*		Marine Construction Plant Operator	C325	Thermal Insulation Craftsman	E318		
Progress (Mention briefly any matter delaying or obstructing progress)		Mason	C326	Welder	E319		
(Wiention orieity any matter detaying or obstructing progress)		Metal Scaffolder	C327	Labourer	E401		
		Metal Worker	C328	Semi-skilled Worker	E402		
		Painter & Decorator	C329	Technician	т		
		Piling Operative	C330				
		Pipelayer Plant and Equipment Operator (Builder's Lift and Other Machinery)	C331	· · · · · · · · · · · · · · · · · · ·			:
Visitor		Plant & Equipment Operator (Earthmoving Machinery)					
(Record names of visitors and time of visit)		Plant and Equipment Operator (Earthmoving Machinery)	C333 C334				
		Plant and Equipment Operator (Piling)	C335				
		Plant and Equipment Operator (Tunnelling)	C336	· · · · · · · · · · · · · · · · · · ·			
		Plasterer	C337				
		Plumber	C338				
Accidents		Pneumatic Driller	C339		1 1		
(Describe any occurance of accident)		Prestressing Operative	C340	······································			
(Describe day occurance of accident)		Rigger/Metal Formwork Erector	C341				
		Shotcretor	C342				:
		Shotfirer	C343				<u> </u>
		Slope Maintenance Worker	C344		: :		)
		Structural Steel Erector	C345		1		1
Remarks		Structural Steel Welder	C346				
		Tiler	C347				
		Trackworker	C348				
		Truck Driver / Coxswain / Barge Engineer / Working Ganger*	C349				:
		Window Frame Installer	C350				
	Total				: .		F10
	Assistance to Engineer No.				- I		
	Driver 1			<b>1</b>			
	Watchman 1				<u> </u>		<u> </u>
		······					
				5 B. B. B. B. B. B. B. B. B. B. B. B. B.	4		
		on he and a p		L=			
	Total 2	To be continued)		Total Labour	:	4 Motal	7 17

* Working ganger is equivalent to ordinary worker in the trade in which he is employed or, if the trade is not listed, truck driver (refer to GS Table 1.1)  Day's record and instructions checked and agreed	Signed:  Engineer's Representative	Signed:  Contractor's Representative	Signed: IOW
	Name/Post: Andrew Lau/Resident Engineer	Wong Ching Lung / Site Agent	Tso Sai Kuen / Inspector of Works
Original - ER's File	Date:	Date:	Date: 16-7-2012

Contract No.; DC/2009/22 Date: 15/07/2012

Day: Sunday

Idling Code:

Contract No.: DC/2009/22 Date: 15/07/2012

Day: Sunday

a Breakdown e Bad Weather b Standby f Task Completed c Awaiting Instruction g No Operator d Assemble/Disassemble h Not Required

i Sunday/Public Holiday

Time	Location	Activity	Labour				Pla	nt	· · · · · · · · · · · · · · · · · · ·			Material De	livered
						Туре	Wo	rking	T	Idling	g Description		Quantity
			Trade	Code	No.		No.	ID	No.	ID	Code		
	Area A - DN1800 Stormwater Drain	No activity as per KLKJV arrangement											
									<u> </u>				
	Area A - Pump Station	No activity as per KLKJV arrangement				Backhoe			1	EX28	i		
						Backhoe			1	EX39	i		
						Backhoe			1	EX47	1		
						Backhoe			1	EX50	i		
······································						Steel Bending Machine			3		i		
						Water Pump 50mm	2						
						Water Pump 75mm	1						
	Area A - Pump Station - Box Culvert	No activity as per KLKJV arrangement											
2.00 10.00	4 . 4 . 75 . 17 . 18 . 19 . 1							ļ					
:00 - 18:00 :00 - 20:00	Area A - 11ng Kok Road	Manual control of "stop/go" sign for traffic flow regulation (3 F/Lab.)  Manual control of temporary traffic light for traffic flow regulation (1 M/Lab. from Area I)	Labourer (female)	C406		Backhoe			1	EX36	1		
					<u>i </u>	Backhoe			1	EX51	í		
						Backhoe with Vibrating Hammer	1		1	EX48	Ì		
**************************************						Water Pump 50mm	2	<u> </u>					
	(Intake Structure)	No activity as per KLKJV arrangement				Water Pump 50mm	1					·····	
	Area B - Tung Tsz	No activity as per KLKJV arrangement			ļ		<del> </del> -	ļ	ļ	<u> </u>			
	Nursery (CH130-CH280)	ino activity as per KLKJ v arrangement				Backhoe			]	EX25	i		
						Backhoe			1	EX42	i		
	Area B - Tung Tsz Nursery (CH40-CH130)	No activity as per KLKJV arrangement				Water Pump 50mm			1		1		
						Water Pump 75mm			1		i		
										<u> </u>			
	Area B - Tung Tsz Nursery (Jacking Pit)	No activity as per KLKJV arrangement				Air Compressor			1	AC04	i		
***************************************						Water Pump 50mm	1		ļ				
	- F 0: * 1 * 1												
	Area E - Siu Lek Yuen Rd.Playground	No activity as per KLKJV arrangement				Backhoe			1	EX21	i		
						Generator			1		i		
								1					

Day's record and instructions checked and agreed Original - ER's File Duplicate - Contractor Signed: Signed: Signed: Engineer's Representative Contractor's Representative Tso Sai Kuen / Inspector of Works Andrew Lau/Resident Engineer Wong Ching Lung / Site Agent Name/Post: 16-7-2012 Date: Date: Date:

Idling Code:

Contract No.: DC/2009/22 Date: 15/07/2012

Day: Sunday

a Breakdown b Standby

e Bad Weather f Task Completed g No Operator

c Awaiting Instruction

c Awaiting instruction	g No Operator
d Assemble/Disassemble	h Not Required
	i Sunday/Public Holida

Time	Location	Activity	Labour	······································		I		Material Delivered					
						Type	Wor	rking	T	Idling		Description	Quantity
			Trade	Code	No.	•	No.	ID	No.	ID	Code		
	Area F - Lek Yuen Street Rest Garden	No activity as per KLKJV arrangement											
	Area G - Ngan Shing St.	No activity as per KLKJV arrangement											
08:00 - 18:00	Area I - Contractor Office	Office cleaning and site patrol	Labourer (male)	C406	1								

Day's record and instructions checked and agreed			
Original - ER's File			$\Omega \alpha$
Duplicate - Contractor	Signed:	Signed:	Signed:
	Engineer's Representative	Contractor's Representative	IOW
	Name/Post: Andrew Lau/Resident Engineer	Wong Ching Lung / Site Agent	Tso Sai Kuen / Inspector of Works
	Date:	Date:	Date: 16-7-2012

Client Department: Drainage Services Department

Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

Contractor: KWAN LEE - KULY JOINT VENTURE

Weather:

Typhoon / Warning Signal:

Contract No.: DC/2009/22 Date: 16/07/2012

Day: Monday

<u>AM</u> <u>PM</u> Fine Fine

Rainfall (mm) ST 5, TP 2

Very Hot Weather Warning - 07:45~17:45 Thunderstorm Warning - 11:40~12:45 & 19:00~22:45

(Hong Kong Observatory's record)

Instructions to Contractor	Contractor's Site Staff No.	Labour	Code No.	Labour	Code No.	Plar	ıt
(Record verbal instructions given)	<b>-    </b>		1	<u></u>	i		
	Assistant Surveyor 1	Asphalter (Other Construction)	C301	Chainman	C401	Туре	No. Working No. 1d
	Chainman 3	Asphalter (Roadworks)	C302	Concreting Labourer	C402	Air Compressor	
	Community Liaison Officer 1	Bamboo Scaffolder	C303	Diver's Linesman / Dredger Crew / Barge Crew	C403	Backhoe	6 1
	CEG 1	Bar Bender & Fixer	C304 1	Excavator	C404	Backhoe with Vibrating Hammer	2
	Contract Manager 1	Bricklayer	C305	Heavy Load Labourer	C405	Coring Machine	: 1
Comments by Engineer's / Contractor's Representative	Engineer	Carpenter (Fender)	C306	Labourer (male / female) / Lorry checker / Watchman/Office attend	an C406 32	Dump Truck	3
	Environmental Officer 1	Carpenter (Formwork)	C307 2	Sewerman	C407	Generator	2
	Foreman/Assistant Foreman 2	Concrete Repairer	C308	Automation Equipment Mechanic	E301	Grout Machine	
	General Foreman 1	Concretor	C309	Building Services Mechanic	E302	Oxy-Acetylene	5 1
	Labour Officer 1	Construction Plant Mechanic	C310	Cable Jointer (Power)	E303	Steel Bending Machine	2
	Land Surveyor 1	Curtain Wall Installer	C311	Carpenier	E304	Water Pump 50mm	8 :
	Project Director 1	Demolition Worker	C312	Electrician/Electrical Fitter	E305	Water Pump 75mm	3
Utilities	Project Manager 1	Diver	C313	Fire Services Mechanic	E306	Welding Set	
(Record location & nature of works)	Project Quantity Surveyor 1	Drainlayer	C314	Instrument Mechanic		Meirriff Set	4
	Quantity Surveyor	Electrician (Main Contractor's)	C315	Lift Electrician	E307		
	Safety Officer			Lift Mechanic	E308		
	Site Agent	Floor Layer	C316		E309		
		Gas Plumber	C317	Mechanical Fitter	E310		\$4.00 A
	Surveyor 1	General Welder	C318	Overhead Linesman	E311		
		Glazier	C319	Painter	E3121		
<u>:</u>	11	Ground Investigation Operator/Driller/Borer	C320	Plumber and Pipe Fitter	E313		i
		Grouting Worker	C321	Refrigeration/AC/Ventilation Mechanic	E314		
		Joiner	C322	Sheet Metal Worker	E315		
		Leveller	C323	Sign Fabricator	E316		: :
		Marble Worker	C324	Sign Installer	E317		1.
		Marine Construction Plant Operator	C325	Thermal Insulation Craftsman	E318		
Progress	<b>-   </b>	Mason	C326	Welder	E319		
(Mention briefly any matter delaying or obstructing progress)		Metal Scaffolder	C327	Labourer	E401		
		Metal Worker	C328	Semi-skilled Worker	E402		
		Painter & Decorator	C329	Technician	Т		
		Piling Operative	C330				
		Pipelayer	C331				
Visitor		Plant and Equipment Operator (Builder's Lift and Other Machinery)	C332				;
(Record names of visitors and time of visit)	<b>-   </b>	Plant & Equipment Operator (Earthmoving Machinery)	C333 6				:
(Record names of visitors and time of visit)		Plant and Equipment Operator (Hoist and Crane)	C334 2				
		Plant and Equipment Operator (Piling)	C335				: :
		Plant and Equipment Operator (Tunnelling)	C336				
		Plasterer	C337				
		Plumber	C338				
Aceidents	<b>-   </b>	Pneumatic Driller	C339				
(Describe any occurance of accident)		Prestressing Operative	C340				
(Describe any occurance of accreent)		Rigger/Metal Formwork Erector	C341				
		Shotcretor	C342				
		Shotfirer	C343	****			i"
		Slope Maintenance Worker	C344				
	1	Structural Steel Erector	C345		<u> </u>		
Remarks		Structural Steel Welder	C346				
Area A - Backhoe EX39 off site	<b>1</b>	Filer	C347				
		Trackworker	C348				and the second section is a second section of
		Truck Driver / Coxswain / Barge Engineer / Working Ganger*					
		Window Frame Installer	C349 3 C350				
	Total 19	William Flame histanet	C330		·····		
					i		
	Assistance to Engineer No.						
	I Amali		··· ··········· · · · · · · · · · · ·				÷
	Amah 1			· · · · · · · · · · · · · · · · · · ·			
	Coordinate Engineer						
	Drafting Assistant 1	·	+ + 1				
	Driver 2		-l			l	
	Field Assistant 3						
	Office Assistant 1	Anna .	i i I		i		
	Watchman 1						
	Total 10	(To be continued)		Total Labour	47	Total	34 8

Working ganger is equivalent to ordinary worker in the trade in whice
he is employed or, if the trade is not listed, truck driver
(refer to GS Table 1.1)

Day's record and instructions checked and agreed

Signed:

Engineer's Representative

Name/Post: Eddie Luk/Resident Engineer

Date:

Signed:

Contractor's Representative

Wong Ching Lung / Site Agent

Signed:

IOW

Tso Sai Kuen / Inspector of Works

Original - ER's File

Duplicate - Contractor

Date:

17-7-2012 Date:

Idling Code: a Breakdown Contract No.: DC/2009/22 Date: 16/07/2012

Day: Monday

b Standby c Awaiting Instruction

g No Operator d Assemble Disassemble

h Not Required

e Bad Weather

f Task Completed

Time	Location	Activity	Labour				Pla	nt				Material De	livered
						Туре	Wo	rking		Idling		Description	Quantity
			Trade	Code	No.		No.	ID	No,	ID	Code		
	Area A - DN1800	No activity as per KLKJV arrangement					1		1	1			
	Stormwater Drain						<del> </del>	-	<del> </del>	<u>  </u>		-	
08:00 - 18:00	Area A - Pump Station	Formwork shuttering for base slab and wall kickers of discharge chamber Erecting flasework and formwork shuttering for soffit of roof slab and beams of store room Driving sheetpiles for shoring of Ø1200 pipe trench between manhole MH06~box culvert bay 20 Cleaning up cable trenches at transformer room General housekeeping	Carpenter (Formwork)	C307	2	Backhoe			1	EX28	11	and the second s	
·····		Fixing GMS angles at cable trench top for covers at transformer room					1	***					
			Labourer (female)	C406	2	Backhoe	1	EX50					
			Labourer (male)	C406	6	Backhoe with Vibrating Hammer	].	EX47					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Oxy-Acetylene	1						
			Plant and Equipment Operator (Hoist and Crane)	C334	1	Steel Bending Machine			3		h		
						Water Pump 50mm	2						
						Water Pump 75mm	1		Ī				
						Welding Set	1						
										1			
08:00 - 18:00	Area A - Pump Station	Painting sealer and top coat on walls and ceiling at transformer room	Labourer (male)	C406	1								
			Painter	E312	Ì								
	Area A - Pump Station - Box Culvert	No activity as per KLKJV arrangement											
05.00 10.00			<u> </u>					<u> </u>					
07:00 - 18:00 18:00 - 20:00	Area A - Ting Kok Road	Manual control of "stop/go" sign for traffic flow regulation (3 F/Lab.)  Manual control of temporary traffic light for traffic flow regulation (1 F/Lab.)	Labourer (female)	C406	3					Walter Branch			
							<u> </u>	<u> </u>					
08:00 - 18:00	(CH70-125)	Driving sheetpiles for shoring of Ø2100 pipe trench at Ch. 70~75  Excavating for Ø2100 concrete pipe trench at Ch. 110~120 and fabricating 1st layer 1-beam walings & struts  Cart away excavated materials to Contract 2's temporary stockpile area at Tai Po Industrial Estate (8 truckloads)	Labourer (female)	C406	***	Backhoe	11.	EX36	***************************************				
		a deriodas)	Labourer (male)	C406	4	Backhoe	<del>                                     </del>	EX51	<del> </del>	<del>                                     </del>			<u> </u>
			Plant & Equipment Operator (Earthmoving Machinery)	C333		Backhoe with Vibrating Hammer	1	EX48	<u> </u>				
			Plant and Equipment Operator (Hoist and Crane)	C334	1	Dump Truck	1		<del> </del>	<del>                                     </del>	<b></b>		<del> </del>
***************************************			Truck Driver	C349		Oxy-Acetylene	1		<del>                                     </del>	<del>                                     </del>			
						Water Pump 50mm	2	<del> </del>	<del>                                     </del>	<del> </del>			
				-		Welding Set	1	<del>                                     </del>					
						6	<del>                                     </del>	<del>                                     </del>	<del> </del>	<del> </del>			

Day's record and instructions checked and agreed	
Original - ER's File	
Duplicate - Contractor  Signed:  Engineer's Representative  Signed:  Contractor's Representative	IOW
Name/Post: Eddie Luk/Resident Engineer Wong Ching Lung / Site Agent	Tso Sai Kuen / Inspector of Works
Date: Date:	17-7-2012

Idling Code:

Contract No.: DC/2009/22 Date: 16/07/2012

Day: Monday

a Breakdown e Bad Weather b Standby f Task Completed

c Awaiting Instruction g No Operator d Assemble/Disassemble

h Not Required i Sunday/Public Holiday

Time	Location	Activity	Labour				Pla	nt	······································		······································	Material De	livered
						Туре	Wo	rking	Γ	Idling	ţ	Description	Quantity
			Trade	Code	No.	1	No.	ID	No.	IĐ	Code		
***************************************	Area A - Ting Kok Road (Intake Structure)	No activity as per KLKJV arrangement				Water Pump 50mm	1						
08:00 - 18:00	Area B - Tung Tsz Nursery (CH130-CH280)	Bay 10 - Excavating for box culvert and fabricating 2nd layer I-beam walings & struts for shoring Bay 11 - Excavating for box culvert to formation level Cart away excavated materials to Contract 2's temporary stockpile area at Tai Po Industrial Estate (12 truckloads) Bay 12 - Cutting & bending reinforcement bars for base slab and walls at bending yard at Tai Po Industrical Estate	Bar Bender & Fixer	C304	1	Backhoe	774	EX25					
			Labourer (male)	C406	9	Backhoe	1	EX42		1			
<u>:</u>			Plant & Equipment Operator (Earthmoving Machinery)	C333	2	Dump Truck	2	1	1	<b>†</b>			
			Truck Driver	C349	2	Generator	1	1	<del> </del>	1			
						Oxy-Acetylene	2	1		1			
						Welding Set	2	1	<b>†</b>	<u> </u>			
08:00 - 18:00	Area B - Tung Tsz Nursery (CH40-CH130)	General housekeeping & cleaning up sediments from wheel washing bay	Labourer (male)	C406	1	Water Pump 50mm	1					***************************************	
						Water Pump 75mm	1						
08:00 - 18:00	Area B - Tung Tsz Nursery (Jacking Pit)	Coring holes for grouting to pipe jacking route General housekeeping	Labourer (male)	C406	3	Air Compressor			1	AC04	h		
						Coring Machine	1			<u> </u>			
						Grout Machine		<u> </u>	1		h		
						Oxy-Acetylene	1						
						Water Pump 50mm	1						
08:00 - 17:00	Area E - Siu Lek Yuen	PL 1603.1 - Backfilling to pipe trench and extracting sheetpiles from shoring	Labourer (male)	C406	2	Backhoe	1	EX21					
	Rd.Playground								<b> </b>	<u> </u>			
			Plant & Equipment Operator (Earthmoving Machinery)	C333		Generator	1	ļ		ļ		***************************************	<u> </u>
						Oxy-Acetylene	<del> </del>	<u></u>	l	<u> </u>	h		<u> </u>
						Water Pump 50mm	I			<u> </u>			
						Water Pump 75mm	1	<u> </u>		<u> </u>			<u> </u>
						Welding Set		<u> </u>	1		h		
	A E. Lal. V St. d.	N							<u></u>	<u> </u>			
***************************************	Rest Garden	No activity as per KLKJV arrangement					ļ	<u> </u>					
	Area G - Ngan Shing St.	No activity as per KLKJV arrangement					1			<u> </u>			
				+			1		-	$\vdash$	<del>  </del>		

		<u> </u>		1 1 1	1 1
Day's record and instructions checked and agreed					
Original - ER's File					
Duplicate - Contractor	Signed:	Signed:		Signed:	
	Engineer's Representative	•	Contractor's Representative	3	IOW
	Name/Post: Eddie Luk/Resident Engineer		Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
	Date:	Date:		Date:	17-7-2012
					• • • • • • • • • • • • • • • • • • • •

Idling Code:

Contract No.: DC/2009/22 Date: 16/07/2012

Day: Monday

a Breakdown

e Bad Weather

b Standby

f Task Completed g No Operator

c Awaiting Instruction d Assemble/Disassemble

h Not Required

i Sunday/Public Holiday

Time	Location	Activity	Labour				Plan					Material Del	ivered
						Type	Wor	king		Idling		Description	Quantity
			Trade	Code	No.		No.	ID	No.	ID	Code		
	Area I - Contractor Office	No activity as per KLKJV arrangement											

Day's record and instructions checked and agreed Original - ER's File Duplicate - Contractor Signed: Signed: Signed: Engineer's Representative Contractor's Representative IOW Tso Sai Kuen / Inspector of Works Eddie Luk/Resident Engineer Wong Ching Lung / Site Agent Name/Post: 17-7-2012 Date: Date: Date:

Client Department: Drainage Services Department

Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

Contractor: KWAN LEE - KULY JOINT VENTURE

Weather:

Cloudy

Typhoon / Warning Signal:

<u>PM</u> Fine

e

Rainfall (mm) Thunderstorm Warning - 06:2

Thunderstorm Warning - 06:25~07:30

(Hong Kong Observatory's record)

Instructions to Contractor	Contractor's Site Staff No.	Labour	Code N	No.	Labour	Code	No.	Plant
(Record verbal instructions given)	Assistant Surveyor 1	Asphalter (Other Construction)	C301	1	Chainman			
	Chainman 3	Asphalter (Roadworks)	C302			C401		Type No. Working No.
	Community Liaison Officer 1	Bamboo Scaffolder	C303	1	Concreting Labourer Diver's Linesman / Dredger Crew / Barge Crew	C402		Air Compressor
	CEG 1	Bar Bender & Fixer				C403		Backhoe 6
	Contract Manager 1		the second of the contraction	.5	Excavator	C404		Backhoe with Vibrating Hammer
Comments by Engineer's / Contractor's Representative	Engineer I	Bricklayer Carpenter (Fender)	C305		Heavy Load Labourer	C405		Coring Machine
COMMOND ST. DILETT'S CONTRACTOR'S RESPECTMENT	Environmental Officer I		C306		Labourer (male / female) / Lorry checker / Watchman/Office attendan	C406	24	Demp Truck 3
		Carpenter (Formwork)	C307	4	Sewerman	C407		Generator 2 2
	Foreman/Assistant Foreman 2	Concrete Repairer	C308		Automation Equipment Mechanic	E301		Grout Machine
	General Foreman 1 Labour Officer 1	Concretor	C309	- 4	Building Services Mechanic	E302		Oxy-Acetylene 5
		Construction Plant Mechanic	C310		Cable Jointer (Power)	E303		Steel Bending Machine
	Land Surveyor 1	Curtain Wall Installer	C311	[	Carpenter	E304		Water Pump 50mm 8
Utilities	Project Director I	Demolition Worker	C312		Electrician/Electrical Fitter	E305		Water Pump 75mm 3
(Record location & nature of works)	Project Manager 1	Diver	C313		Fire Services Mechanic	E306		Welding Set 4
	Project Quantity Surveyor 1	Drainlayer	C314		Instrument Mechanic	E307		
	Quantity Surveyor	Electrician (Main Contractor's)	: C315	- 1	Lift Electrician	E308		
	Safety Officer 1	Floor Layer	C316		Lift Mechanic	E309		
	Site Agent 1	Gas Plumber	C317		Mechanical Fitter	E310		
	Surveyor 1	General Welder	C318	3	Overhead Linesman	E311		
	:	Glazier	C319		Painter	E312		
		Ground Investigation Operator Driller Borer	C320		Plumber and Pipe Fitter	E313		
		Grouting Worker	C321		Refrigeration/AC/Ventilation Mechanic	E314		
		Joiner	C322		Sheet Metal Worker	E315		
		Leveller	C323		Sign Fabricator	E316		
		Marble Worker	C324	- 1	Sign Installer	E317		
P		Marine Construction Plant Operator	C325		Thermal Insulation Craftsman	E318		
Progress		Mason	C326	1	Welder	E319		
(Mention briefly any matter delaying or obstructing progress)	<b>  </b>	Metal Scaffolder	C327		Labourer	E401		
		Metal Worker	C328 2	2	Semi-skilled Worker	E402		
		Painter & Decorator	C329		Technician	Т		
		Piling Operative	C330					
	<b>     </b>	Pipelayer	C331	1				
Visitor		Plant and Equipment Operator (Builder's Lift and Other Machinery)	C332					
(Record names of visitors and time of visit)		Plant & Equipment Operator (Earthmoving Machinery)	C333 5	5				
(Record names of visitors and time of visit)	<b>   </b>	Plant and Equipment Operator (Hoist and Crane)	C334	- 1				
		Plant and Equipment Operator (Piling)	C335	]				: .
		Plant and Equipment Operator (Tunnelling)	C336	1				
		Plasterer	C337	1				
		Plumber	C338			· · · · · ·		
Accidents	<b>   </b>	Pneumatic Driller	C339	1				
(Describe any occurance of accident)		Prestressing Operative	C340	1				
(2000-100 way, occur mater of medicants)		Rigger/Metal Formwork Erector	C341					
		Shotcretor	C342			:		
		Shotfirer	C343	- 1		i i		······································
		Slope Maintenance Worker	C344					
		Structural Steel Erector	C345	1				
Remarks		Structural Steel Welder	C346					
rea A - Backhoe EX48 off site		Tiler	C347					
	-	Trackworker	C348					
		Truck Driver / Coxswain / Barge Engineer / Working Ganger*	C349 3	, 1				
		Window Frame Installer	C350	'				
	Total : 19	77 BIGGY FIBRO MISMINE		1				AND THE PROPERTY OF THE PROPER
			1	1				· · · · · · · · · · · · · · · · · · ·
	Assistance to Engineer No.		1			· ·		
	Amah							to the second se
	Coordinate Engineer							
	Drafting Assistant 1		<del></del>			<u>-</u>		
	Driver 2		1 1	İ	····· :	. :		
	Field Assistant 3		+					
			<del></del>					
	Office Assistant 1		P		:			
	Watchman I		4					
	Total 9	(To be continued)	<u> </u>		Total Labour		46	Total 32 9

~	working ganger is equivalent to ordinary worker in the trade in which
h	e is employed or, if the trade is not listed, truck driver
<b>{T</b>	refer to GS Table 1.1)

Day's record and instructions checked and agreed

Signed:

Engineer's Representative

Name/Post: Andrew Lau/Resident Engineer

Date:

Dodge.

Signed:

Date:

Signed: Contractor's Representative

Wong Ching Lung / Site Agent

Tso Sai Kuen / Inspector of Works

Contract No.: DC/2009/22 Date: 17/07/2012

Day: Tuesday

Date: 18-7-2012

Original - ER's File

Duplicate - Contractor

Idling Code:

Contract No.: DC/2009/22 Date: 17/07/2012

Day: Tuesday

a Breakdown b Standby

e Bad Weather f Task Completed

c Awaiting Instruction d Assemble/Disassemble

g No Operator

h Not Required

Time	Location	Activity	Labour				Plan	nt .				Material De	livered
						Туре	Wo	rking		ldling		Description	Quantity
			Trade	Code	No.		No.	ID	No.	ID	Code		
	Area A - DN1800	No activity as per KLKJV arrangement						<b>†</b>		1			
	Stormwater Drain						<u> </u>	<u> </u>	ļ	<del> </del>			
8:00 - 18:00	Area A - Pump Station	Formwork shuttering for base slab and wall kickers of discharge chamber Formwork shuttering for soffit of roof slab and beams of store room Saw cutting to made 2nos. Ø1500 concrete cut length pipe for fixing at wall of discharge chamber Fixing angle frame at cable trench top for GMS cover at transformer room Preparation works for fixing lighting and cable conduits at transformer room General housekeeping	Carpenter (Formwork)	C307	3	Backhoe			1	EX28	h	A THE STATE OF THE	
			Labourer (female)	C406	2	Backhoe	1	EX50	<del>                                     </del>	1			
			Labourer (male)	C406	4	Backhoe with Vibrating Hammer			1	EX47	ħ		
			Metal Worker	C328	2	Oxy-Acetylene	1						
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Steel Bending Machine	1		3	1	h		
						Water Pump 50mm	2						
						Water Pump 75mm	I		<u> </u>	1	1		
						Welding Set	1			<b>1</b>		······	
	Area A - Pump Station - Box Culvert	No activity as per KLKJV arrangement											
7:00 - 18:00	A A. Ti Y.I. D I						<b></b>		<u> </u>	<u> </u>			
8:00 - 20:00	Area A - Ting Kok Road	Manual control of "stop/go" sign for traffic flow regulation (3 F/Lab.)  Manual control of temporary traffic light for traffic flow regulation (1 F/Lab.)	Labourer (female)	C406	3								
8:00 - 18:00	(CH70-125)	Excavating for Ø2100 pipe trench at Ch. 100~120 and fabrciating 1st & 2nd layer 1-beam walings & struts for shoring Cart away excavated materials to Contract 2's temporary stockpile area at Tai Po Industrial Estate (14 truckloads) Excavating to expose existing utilities at Ø2100 pipe trench, Ch. 70~80	General Welder	C318	1	Backhoe	1	EX36					
			Labourer (female)	C406	1	Backhoe	1	EX51				······································	<u> </u>
			Labourer (male)	C406	4	Dump Truck	2	<b></b>	<b>T</b>	<b>1</b>			1
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Oxy-Acetylene	1		<u> </u>	<b> </b>			
			Truck Driver	C349	2	Water Pump 50mm	2			<b>†</b>			
						Welding Set	1						
	Area A - Ting Kok Road (Intake Structure)	No activity as per KLKJV arrangement			~	Water Pump 50mm	1						

Pay's record and instructions checked and agreed				
riginal - ER's File				
puplicate - Contractor	Signed:	Signed:	Signed:	
	Engineer's Representative	Contractor's Representative		IOW
	Name/Post: Andrew Lau/Resident Engineer	Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
	Date:	Date:	Date:	18-7-2012

Idling Code:

Contract No.: DC/2009/22 Date: 17/07/2012

Day: Tuesday

a Breakdown b Standby

e Bad Weather f Task Completed

c Awaiting Instruction

g No Operator

d Assemble/Disassemble h Not Required i Sunday/Public Holiday

Time	Location	Activity	Labour				Pla	nt				Material De	livered
						Туре	Wo	rking	1	Idling		Description	Quantity
			Trade	Code	No.	1	No.	ID	No.	ID	Code		
08:00 - 18:00	Nursery (CH130-CH280)	Bay 10 - Excavating for box culvert and fabricating 2nd layer I-beam walings & struts for shoring Bay 11 - Excavating for box culvert to formation level Cart away excavated materials to temporary stockpile area at D.D.12, Tung Tsz Road. (8 truckloads) Bay 12 - Cutting & bending reinforcement bars for base slab and walls of box culvert at bending yard at Tai Po Industrial Area Formwork shuttering for base slab		C304	2	Backhoe	PARK	EX25					
			Carpenter (Formwork)	C307	1	Backhoe	1	EX42					
			General Welder	C318	2	Dump Truck	1	Ţ					
			Labourer (male)	C406	4	Generator	1				l l		
			Plant & Equipment Operator (Earthmoving Machinery)	C333	2	Oxy-Acetylene	2						
·····			Truck Driver	C349	1	Welding Set	2						
								1					
08:00 - 18:00	Area B - Tung Tsz Nursery (CH40-CH130)	General housekeeping & cleaning up sediments from wheel washing bay	Labourer (male)	C406	1	Water Pump 50mm	1						
						Water Pump 75mm	1						
												11111111111111111	
08:00 - 18:00	Area B - Tung Tsz Nursery (Jacking Pit)	Coring holes and inserting grouting tube into cored hole General housekeeping Rebar fixing for thrust wall	Bar Bender & Fixer	C304	3	Air Compressor			1	AC04	h	-	
			Labourer (male)	C406	3	Coring Machine	1		İ				1
						Grout Machine			1	1	h		
						Oxy-Acetylene	1	1	1	1			
						Water Pump 50mm	1	1		1 "			
							<b>-</b>	1	1	1			
)8:00 - 17:00	Area E - Siu Lek Yuen Rd.Playground	PL 1603.1 - Breaking up concrete ramp to facilitate trench excavation	Labourer (male)	C406	2	Backhoe	1	EX21					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Generator	1						
						Oxy-Acetylene			1		h		
						Water Pump 50mm	1	T	<u> </u>	T			
						Water Pump 75mm	1	1	<u> </u>				
						Welding Set			1		h		
	Area F - Lek Yuen Street Rest Garden	No activity as per KLKJV arrangement											
·····													
	Area G - Ngan Shing St.	No activity as per KLKJV arrangement											
	Area I - Contractor Office	No activity as per KLKJV arrangement											

Day's record and instructions checked and agreed						
Original - ER's File  Duplicate - Contractor	Ci		a			<i></i>
	Signed: Eng	gineer's Representative	Signed:	Contractor's Representative	Signed:	IOW
	Name/Post:	Eddie Luk/Resident Engineer		Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
	Date:		Date:		Date:	18-7-2012

Client Department: Drainage Services Department

Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

Contractor: KWAN LEE - KULY JOINT VENTURE

Weather:  $\underline{\mathbf{AM}}$ 

Shower

Typhoon / Warning Signal:

Rainfall (mm)

ST 50, TP 10

Amber - 06:10~08:20

Thunderstorm Warning - 01:30~11:00, 12:45~14:00 & 19:45~20:30

(Hong Kong Observatory's record)

<u>PM</u>

Fine

Instructions to Contractor	Contractor's Site Staff No.	Labour	Code	No.	Labour	Code	No.	Plant		<del></del> -
(Record verbal instructions given)			1.	-		4			····	
	Assistant Surveyor 1	Asphalter (Other Construction)	C301		Chainman	C401		Туре	No. Working	No. Idle
	Chainnan 3 Community Liaison Officer 1	Asphalter (Roadworks) Bamboo Scaffolder	C302		Concreting Labourer	C402	I	Air Compressor		
			C303		Diver's Linesman / Dredger Crew / Barge Crew	C403		Backhoe	5	1
	CEG 1	Bar Bender & Fixer	C304	. 5	Excavator	C404		Backhoe with Vibrating Hammer	1	
Comments by Engineer's / Contractor's Representative	Contract Manager 1	Bricklayer	C305		Heavy Load Labourer	C405		Blower		<u>.</u>
Comments by Engineer 37 Contractor 3 Representative	Engineer Environmental Officer 1	Carpenter (Fender)	C306		Labourer (male / female) / Lorry checker / Watchman/Office attendan		_33	Coring Machine		·
	Foreman/Assistant Foreman 2	Carpenter (Formwork) Concrete Repairer	C307	3	Sewerman	C407		Crane Lorry		•
	General Foreman 1	1 1 "	C308 C309		Automation Equipment Mechanic	E301		Dump Truck		
	Labour Officer 1	Concretor Construction Plant Mechanic	C310		Building Services Mechanic Cable Jointer (Power)	E302 E303		Generator Grout Machine		
	Land Surveyor 1	Curtain Wall Installer	C311		Carpenter	E303 E304		Oxy-Acetylene		- 1
	Project Director	Demolition Worker	C312		Electrician/Electrical Fitter	E305		Steel Bending Machine	3	
Utilities	Project Manager 1	Diver	C313		Fire Services Mechanic	E306		Water Pump 50mm		6
(Record location & nature of works)	Project Quantity Surveyor 1	Drainlayer	C314		Instrument Mechanic	E307		Water Pump 75mm	2	
	Quantity Surveyor	Electrician (Main Contractor's)	C315		Lift Electrician	E308		Welding Set		: 1
	Safety Officer	Floor Layer	C316		Lift Mechanic	E309		in claim, but		*
	Site Agent I	Gas Plumber	C317		Mechanical Fitter	E310			·····	
	Surveyor	General Welder	C318	2	Overhead Linesman	E311				1
		Glazier	C319		Painter	E312	1			
		Ground Investigation Operator/Driller/Borer	C320		Plumber and Pipe Fitter	E313				
		Grouting Worker	C321		Refrigeration/AC/Ventilation Mechanic	E314				
		Joiner	C322		Sheet Metal Worker	E315			:	
		Leveller	C323		Sign Fabricator	E316				
		Marble Worker	C324		Sign Installer	E317			:	:
		Marine Construction Plant Operator	C325		Thermal Insulation Craftsman	E318				
Progress		Mason	C326		Welder	E319	1	,		
(Mention briefly any matter delaying or obstructing progress)		Metal Scaffolder	C327		Labourer	E401		;		
		Metal Worker	C328		Semi-skilled Worker	E402		***************************************		
		Painter & Decorator	C329		Technician	T			<u>.</u>	
		Piling Operative	C330			ļ				
		Pipelayer	C331			ļ ļ				
Visitor		Plant and Equipment Operator (Builder's Lift and Other Machinery)				<u> </u>				<u>;</u>
(Record names of visitors and time of visit)		Plant & Equipment Operator (Earthmoving Machinery)	C333	5					·	
		Plant and Equipment Operator (Hoist and Crane)	C334	2		ļ ļ				·····
		Plant and Equipment Operator (Piling) Plant and Equipment Operator (Tunnelling)	C335			ļ			:	w
			C336 C337			ļ				- j
		Plasterer Plumber	C338			-				
		Pneumatic Driller	C339			in the				
Accidents (Describe any occurance of accident)		Prestressing Operative	C340			ii				· .
(Describe any occurance of accident)		Rigger/Metal Formwork Erector	C341			<del></del>				
	:	Shotcretor	C342			· :			- i	<del>-</del>
		Shotfirer	C343			i i	[			1
		Slope Maintenance Worker	C344							
		Structural Steel Erector	C345				- 1			. 1
Remarks		Structural Steel Welder	C346							
Area B - Backhoe 42 off site		Tiler	C347						:	
	1	Trackworker	C348				1			- 1
		Truck Driver / Coxswain / Barge Engineer / Working Ganger*	C349	1			1			
		Window Frame Installer	C350							
	Total 19		1	1			. 1			
	Assistance to Engineer No.									
			ļ						i	
	Amah 1		4							🖡
	Coordinate Engineer 1									
	Drafting Assistant 1			ļ			1			
	Driver 2		- <del>-</del>	[						
	Field Assistant 2					<u> </u>		,		
	Office Assistant 1		-	1						
	Watchman 1									
	Total 9	(To be continued)			Total Labour		51	Total	32	8

. Morging faufer is edutyment to ordinal? Morket in the flage in Mulc.
he is employed or, if the trade is not listed, truck driver
(refer to GS Table 1.1)

Day's record and instructions checked and agreed

Signed:

Engineer's Representative

Contractor's Representative

Signed:

Date:

Contract No.: DC/2009/22 Date: 18/07/2012

Day: Wednesday

IOW

19-7-2012

Name/Post: Andrew Lau/Resident Engineer

Date:

Wong Ching Lung / Site Agent

Signed:

Tso Sai Kuen / Inspector of Works

Original - ER's File Date: Duplicate - Contractor

Idling Code:

Contract No.: DC/2009/22 Date: 18/07/2012

Day: Wednesday

a Breakdown b Standby

e Bad Weather f Task Completed

c Awaiting Instruction d Assemble Disassemble

g No Operator h Not Required

Time	Location	Activity	Labour				Pla	nt				Material De	livered
						Type	Wo	rking		Idling		Description	Quantity
			Trade	Code	No.	1	No.	ID	No.	ID	Code		
***************************************	Area A - DN1800 Stormwater Drain	No activity as per KLKJV arrangement										***************************************	
:00 - 18:00	Area A - Pump Station	Driving sheetpiles for shoring and excavating for Ø1200 pipe trench between manhole MH06~box culvert bay 20 Preparing Ø1200 PC cut length pipe for recirculation system Preparating works for installation of lighting and cable conduits at transformer room Cleaning up sediments from wheel washing bay and general housekeeping	Carpenter (Formwork)	C307		Backhoe			4	EX28	h		
			Labourer (female)	C406	2	Backhoe	]	EX50					
			Labourer (male)	C406	6	Backhoe with Vibrating Hammer	1	EX47					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	Į	Oxy-Acetylene	I						
			Plant and Equipment Operator (Hoist and Crane)	C334	1	Steel Bending Machine			3		h		
						Water Pump 50mm	2						
						Water Pump 75mm	1			T			
						Welding Set	1						
										1			T
	Area A - Pump Station - Box Culvert	No activity as per KLKJV arrangement											
:00 - 18:00	Area A. Ting Vol. Dood	Manual control of "stop/go" sign for traffic flow regulation (3 F/Lab.)		0.00			<del> </del>	<b> </b>	ļ	ļ			
:00 - 10:00	Aca A - Fing Nok Road	Manual control of temporary traffic light for traffic flow regulation (1 F/Lab.)	Labourer (female)	C406	3			<u> </u>					
00 - 18:00	Area A - Ting Kok Road	Excavating for Ø2100 pipe trench at Ch. 100~120 and fabricating 1st & 2nd layer I-beam Walings &	General Welder	C318	1	Backhoe	<del>                                     </del>	EX36					<del> </del>
10.00		struts for shoring  Breaking up existing manhole and drain pipes at Ch. 70~80	General Wester	C316	1	Васкное	'	EV20	***************************************				***************************************
			Labourer (female)	C406	1	Backhoe	1	EX51		1			1
			Labourer (male)	C406	4	Oxy-Acetylene	1						
			Plant & Equipment Operator (Earthmoving Machinery)	C333	2	Water Pump 50mm	2	1					
						Welding Set	1						
										1			
	Area A - Ting Kok Road (Intake Structure)	No activity as per KLKJV arrangement				Water Pump 50mm	l						
00 - 18:00	Area B - Tung Tsz Nursery (CH00-CH40)	Placing precast concrete blocks for footings of site hoarding at Ch. 0~15	Labourer (male)	C406	2	Crane Lorry	1						
	<u> </u>		Plant and Equipment Operator (Hoist and Crane)	C334	1								
00 - 18:00	Nursery (CH130-CH280)	Bay 10 - Excavating for box culvert and fabricating 2nd layer I-beam struts for shoring Bay 11 - Excavating for box culvert to formation level Cart away excavated materials to temporary stockpile area at D.D. 12, Tung Tsz Road (6 truckloads) Bay 12 - Rebar fixing of base slab and walls	Bar Bender & Fixer	C304	5	Backhoe	1	EX25					

Original - ER's File						
Duplicate - Contractor	Signed:		Signed:		Signed:	
	Engine	er's Representative	Contracto	or's Representative		<i>TOW</i>

E	ngineer's Representative	Contractor's Representative		IOW
Name/Post:	Eddie Luk/Resident Engineer	Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
Date:		Date:	Date:	19-7-2012

Idling Code:

Contract No.: DC/2009/22 Date: 18/07/2012

Day: Wednesday

a Breakdown e Bad Weather b Standby f Task Completed c Awaiting Instruction g No Operator d Assemble/Disassemble h Not Required

Time	Location	Activity	Labour		Material Delivered								
						Туре	Wo	rking		Idling		Description	Quantity
			Trade	Code	No.	1	No.	ID	No.	ID	Code		
			General Welder	C318	1	Dump Truck	1	1					
			Labourer (male)	C406	3	Generator	1	1		1			
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Oxy-Acetylene	2	1		1		<del></del>	
			Truck Driver	C349	I	Welding Set	2						
8:00 - 18:00	Area B - Tung Tsz Nursery (CH40-CH130)	General housekeeping & cleaning up sediments from wheel washing bay	Labourer (male)	C406	1	Water Pump 50mm	1						
						Water Pump 75mm	1						
8:00 - 18:00	Area B - Tung Tsz Nursery (Jacking Pit)	Coring holes for grouting at pipe jacking route General housekeeping	Labourer (male)	C406	3	Air Compressor			I	AC04	h		
						Coring Machine	1						
						Grout Machine			1		h		
						Oxy-Acetylene	1						
						Water Pump 50mm	1						
8:00 - 18:00	Area C - Shallow Marshy Area	Shrubs planting at ECA	Labourer (female)	C406	3								
			Labourer (male)	C406	3								
										-			
8:00 - 18:00	Area E - Siu Lek Yuen Rd.Playground	PL 1603.1 - Trench excavation to expose underground utilities at Ch. 21~25 and driving sheetpiles for shoring Cart away 3 truckloads of excavated materials to Area B	Labourer (male)	C406	2	Backhoe	71	EX21					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Blower	1	<u> </u>	<del> </del>	1			
			700000000000000000000000000000000000000		<b></b>	Generator	1	<del>                                     </del>	-	1	<b> </b>		
				_		Oxy-Acetylene		<b>†</b>	1	1	h		
						Water Pump 50mm	1		ļ				
						Water Pump 75mm	1			1			
						Welding Set		1	1	<del> </del>	h		
	Area F - Lek Yuen Street Rest Garden	No activity as per KLKJV arrangement											
	Anna C. Nines Chiles Co.	V											
	Area G - Ngan Sning St.	No activity as per KLKJV arrangement								<u> </u>			
	Area I - Contractor Office	No activity as per KLKJV arrangement											

Day's record and instructions checked and agreed				
Original - ER's File				$\bigcirc$
Duplicate - Contractor	Signed:	Signed:	Signed:	446
	Engineer's Representative	Contractor's Representative	-	IOW
	Name/Post: Eddie Luk/Resident Engineer	Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
	Date:	Date:	Date:	19-7-2012

Client Department: Drainage Services Department

Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

Contractor: KWAN LEE - KULY JOINT VENTURE

Weather:

Typhoon / Warning Signal:

Contract No.: DC/2009/22 Date: 19/07/2012

<u>AM</u> Fine

<u>PM</u> Shower Rainfall (mm) ST 5, TP 0

Thunderstorm Warning - 02:25~07:45 & 13:55~15:00 Very Hot Weather Warning - 07:45~24:00

Day: Thursday

(Hong Kong Observatory's record)

Instructions to Contractor	Contractor's Site Staff No.	Labour	Code	No.	Labour	Code No.	Plan	
(Record verbal instructions given)			Cour		Labour	Code No.	Piar	IC .
	Assistant Surveyor 1	Asphalter (Other Construction)	C301		Chainman	C401	Type	No. Working No. Ic
	Chainman 3	Asphalter (Roadworks)	C302		Concreting Labourer	C402	Air Compressor	1
	Community Liaison Officer 1	Bamboo Scaffolder	C303		Diver's Linesman / Dredger Crew / Barge Crew	C403	Backhoe	6
	CEG 1	Bar Bender & Fixer	C304		Excavator	C404	Backhoe with Vibrating Hammer	1
	Contract Manager 1	Bricklayer	C305		Heavy Load Labourer	C405	Blower	1
Comments by Engineer's / Contractor's Representative	Engineer	Carpenter (Fender)	C306		Labourer (male / female) / Lorry checker / Watchman/Office attendan		Coring Machine	1
	Environmental Officer 1	Carpenter (Formwork)	C307	5	Sewerman	C407	Dump Truck	3
	Foreman/Assistant Foreman 2	Concrete Repairer	C308		Automation Equipment Mechanic	E301	Generator	2
	General Foreman 1	Concretor	C309		Building Services Mechanic	E302	Grout Machine	1
	Labour Officer 1	Construction Plant Mechanic	C310		Cable Jointer (Power)	E303	Oxy-Acetylene	5 1
	Land Surveyor	Curtain Wall Installer	C311		Carpenter	E304	Steel Bending Machine	
Utilities	Project Director 1	Demolition Worker	C312		Electrician/Electrical Fitter	E305	Water Pump 50mm	8
(Record location & nature of works)	Project Manager 1	Diver	C313	1	Fire Services Mechanic	E306	Water Pump 75mm	3
(Record location & nature of works)	Project Quantity Surveyor 1	Drainlayer	C314		Instrument Mechanic	E307	Welding Set	4
	Quantity Surveyor	Electrician (Main Contractor's)	C315		Lift Electrician	E308	THE STATE OF THE S	
	Safety Officer 1	Floor Layer	C316		Lift Mechanic	E309		
	Site Agent 1	Gas Plumber	C317	1	Mechanical Fitter	E310		
	Surveyor 1	General Welder	C318	2	Overhead Linesman	E311	11 '	1.00
		Glazier	C319	[	Painter	E312		
		Ground Investigation Operator/Driller/Borer	C320		Plumber and Pipe Fitter	E313		
		Grouting Worker	C321	1	Refrigeration/AC/Ventilation Mechanic	E314		
		Joiner	C322		Sheet Metal Worker	E315		
		Leveiler	C323		Sign Fabricator	E316	<b>1</b>	
		Marble Worker	C324		Sign Installer	E317		
		Marine Construction Plant Operator	C325	1	Thermal Insulation Craftsman	E318	<b>   </b>	<u> </u>
Progress		Mason	C326		Welder	E319	<b>4</b>	
(Mention briefly any matter delaying or obstructing progress)	<b>~~1</b>	Metal Scaffolder	C327		Labourer	E401	<b>                                     </b>	
		Metal Worker	C328		Semi-skilled Worker	E401		
		Painter & Decorator	C329		Technician	T T		
		Piling Operative	C330		1 ccimician	· · · · · · · · · · · · · · · · · · ·	<b>{                                    </b>	***
		Pipelayer	C331					
		Plant and Equipment Operator (Builder's Lift and Other Machinery)	C332					
Visitor		Plant & Equipment Operator (Earthmoving Machinery)	C333	6				
(Record names of visitors and time of visit)	<b>_  </b>	Plant and Equipment Operator (Hoist and Crane)	C334	1		ł		
		Plant and Equipment Operator (Piting)	C335			ł	<b> </b>	
		Plant and Equipment Operator (Tunnelling)	C336		*** **********************************	h		
		Plasterer	C337			<u>.</u>		
		Plumber	C338					
A!	<b>-  </b>	Pneumatic Driller	C339	1		1		
Accidents		Prestressing Operative	C340					
(Describe any occurance of accident)		Rigger/Metal Formwork Erector	C341					
		Shotcretor	C342					
	11"	Shotfirer	C342					
		Slope Maintenance Worker	C344			· · · · · · · · · · · · · · · · · · ·		
		Structural Steel Erector					l caracteria e e e e e e e e e e e e e e e e e e e	· · · · · · · · · · · · · · · · · · ·
Remarks		Structural Steel Welder	C345					
e Safety & Environmental Co-ordination Meeting #122 was held at 11:30 A.M.	<b>- 1</b>	Tiler	C346					
•		2.777	C347					<del>-</del>
		Trackworker Truck Driver / Coxswain / Barge Engineer / Working Ganger*	C348	1				
			C349					
	Total 19	Window Frame Installer	C350			:	<u> </u>	
			H F	.				4
	Assistance to Engineer No.							
	l lamab					ļ		
	Amah I							
	Coordinate Engineer 1		<del></del>			<u> </u>	<b>                                     </b>	
	Drafting Assistant 1		. j i.			i		
	Driver 2							
	Field Assistant 3		<del></del>					
	Office Assistant I		J. ,	ļ				
	Watchman 1		4					
	Total 10	(To be continued)	T 1	1	Total Labour	47	Total	34 6

* Working ganger is equivalent to ordinary worker in the trade in which
he is employed or, if the trade is not listed, truck driver
(refer to GS Table 1.1)

Day's record and instructions checked and agreed

Signed:

Engineer's Representative

Name/Post: Andrew Lau/Resident Engineer Date:

Wong Ching Lung / Site Agent

Contractor's Representative

IOWTso Sai Kuen / Inspector of Works

Signed:

Date:

Original - ER's File Duplicate - Contractor

Date:

Signed:

20-7-212

Idling Code:

Contract No.: DC/2009/22 Date: 19/07/2012

Day: Thursday

a Breakdown b Standby

e Bad Weather f Task Completed

c Awaiting Instruction

g No Operator

c Awaiting mistraction	g No Operator
d Assemble/Disassemble	h Not Required
	i Sunday/Public Holiday

Time	Location	Activity	Labour				Pla	nt				Material De	livered
						Туре	Wo	rking	I	Idling		Description	Quantity
			Trade	Code	No.	1	No.	ID	No.	ID	Code		
	Area A - DN 1800 Stormwater Drain	No activity as per KLKJV arrangement											
08:00 - 18:00	Area A - Pump Station	Driving sheetpiles for shoring and excavating for Ø1200 pipe trench between manhole MH06~box culvert bay 20 Laying Ø1200 PC cut length pipe for recirculation system and 2nos. Ø1500 PC cut length pipe for discharge pipe Formwork shuttering for wall kickers at discharge chamber Formwork shuttering for soffit of roof slab and beams of store room Cleaning up sediments from wheel washing bay and general housekeeping	Carpenter (Formwork)	C307		Backhoe	1	EX28	***************************************				
			Labourer (female)	C406	1	Backhoe	1	EX50					
			Labourer (male)	C406	6	Backhoe with Vibrating Hammer	1	EX47					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	2	Oxy-Acetylene	1						
			Plant and Equipment Operator (Hoist and Crane)	C334	1	Steel Bending Machine		1	3		h		
						Water Pump 50mm	2	1	<u> </u>			······································	
						Water Pump 75mm	1	1					· · · · · · · · · · · · · · · · · · ·
						Welding Set	1						
							1	1					
08:00 - 18:00	Area A - Pump Station	Fixing surface mounted cable conduits on walls at transformer room Rendering to cable trenches at transformer room	Labourer (male)	C406	3								
			Plasterer	C337	1								
	Area A - Pump Station - Box Culvert	No activity as per KLKJV arrangement											
07:00 - 18:00 18:00 - 20:00	Area A - Ting Kok Road	Manual control of "stop/go" sign for traffic flow regulation (3 F/Lab.)  Manual control of temporary traffic light for traffic flow regulation (1 F/Lab.)	Labourer (female)	C406	3								
00.00 10.00	4												
08:00 - 18:00	(CH70-125)	Excavating for Ø2100 pipe trench at Ch. 70~120 and fabricating 1st & 2nd layer I-beam walings & struts for shoring Cart away excavated materials to temporary stockpile area at D.D.12, Tung Tsz Road(15 truckloads)	General Welder	C318	Yver	Backhoe	1	EX36					
			Labourer (female)	C406	1	Backhoe	1	EX51					
			Labourer (male)	C406	4	Dump Truck	2	1			<b></b>		
			Plant & Equipment Operator (Earthmoving Machinery)	C333	2	Oxy-Acetylene	1	<b>†</b>	<b></b>				
			Truck Driver	C349		Water Pump 50mm	2	t			<b> </b>		
						Welding Set	1	<b>†</b>	<b></b>				
							<del>                                     </del>	<del>                                     </del>					
	Area A - Ting Kok Road (Intake Structure)	No activity as per KLKJV arrangement				Water Pump 50mm	1						
							<del>                                     </del>	+			<del>  </del>		

bay's record and instructions checked and agreed						
original - ER's File	Signed:		Signed:		Signed:	226
	E	Engineer's Representative		Contractor's Representative		IOW
	Name/Post:	Andrew Lau/Resident Engineer		Wong Ching Lung / Site Agent	·	Tso Sai Kuen / Inspector of Works
	Date:		Date:		Date:	20-7-2012

Idling Code:

Contract No.: DC/2009/22 Date: 19/07/2012

Day: Thursday

a Breakdown b Standby

e Bad Weather f Task Completed g No Operator

c Awaiting Instruction d Assemble Disassemble

h Not Required i Sunday/Public Holiday

Time	Location	Activity	Labour				Pla	nt				Material Delivered	
			100 mm m m m m m m m m m m m m m m m m m			Туре	Wo	rking	T	Idling		Description	Quantity
			Trade		No.		No.	ID	No.	ID	Code		
	Area B - Tung Tsz Nursery (CH00-CH40)	No activity as per KLKJV arrangement											
										1			
08:00 - 18:00	Area B - Tung Tsz Nursery (CH130-CH280)	Bay 10 - Excavating for box culvert and fabricating 2nd layer I-beam walings & struts for shoring Bay 11 - Excavating for box culvert to formation level Cart away excavated materials to temporary stockpile area at D.D.12, Tung Tsz Road (9 truckloads) Bay 12 - Formwork shuttering for wall kickers	Carpenter (Formwork)	C307	2	Backhoe	]	EX25					
			General Welder	C318	1	Dump Truck	1						
			Labourer (male)	C406	4	Generator	1	1	<b></b>				
Ĺ			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Oxy-Acetylene	2	1	1				
			Truck Driver	C349	1	Welding Set	2						
Ĺ													
08:00 - 18:00	Area B - Tung Tsz Nursery (CH40-CH130)	General housekeeping & cleaning up sediments from wheel washing bay	Labourer (male)	C406	I	Water Pump 50mm	1						
						Water Pump 75mm	1			1			
08:00 - 18:00	Area B - Tung Tsz Nursery (Jacking Pit)	Coring holes for grouting to pipe jacking route General housekeeping	Labourer (male)	C406	3	Air Compressor			]	AC04	h		
						Coring Machine	1						
						Grout Machine			1		h		
						Oxy-Acetylene	1						
						Water Pump 50mm	1						
08:00 - 18:00	Area E - Siu Lek Yuen Rd.Playground	PL 1602.1 - Trench excavation to expose underground utilities	Labourer (male)	C406		Backhoe	1	EX21					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	l	Blower	1						
						Generator	192						
						Oxy-Acetylene			]		h		
						Water Pump 50mm	1						
						Water Pump 75mm	1						
	Area F - Lek Yuen Street Rest Garden	No activity as per KLKJV arrangement											
	Area G - Ngan Shing St.	No activity as per KLKJV arrangement											<b> </b>
			<b>1</b>	+			-	<u> </u>		$\vdash$			1
	Area I - Contractor Office	No activity as per KLKJV arrangement											

Day's record and instructions checked and agreed			
Original - ER's File			
Duplicate - Contractor	Signed:	Signed:	Signed:
	Engineer's Representative	Contractor's Representative	10W
	Name/Post: Andrew Lau/Resident Engineer	Wong Ching Lung / Site Agent	Tso Sai Kuen / Inspector of Works
	Date:	Date:	Date: 20-7-2012
			•

Client Department: Drainage Services Department

Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

Contractor: KWAN LEE - KULY JOINT VENTURE

Weather:

Typhoon / Warning Signal:

Contract No.: DC/2009/22 Date: 20/07/2012

<u>AM</u> Fine <u>PM</u>

Fine

Rainfall (mm)

Very Hot Weather Warning - 00:00~24:00 Thunderstorm Warning - 07:05~07:45 & 14:30~15:30 ST 0, TP 0

Day: Friday

(Hong Kong Observatory's record)

Instructions to Contractor	Contractor's Site Staff No.	Labour	Code	No.	Labour	C- 3	N	1	
(Record verbal instructions given)		1/ADOUL	Code	,,,,,	Laoour	Code	No.	Plan	
	Assistant Surveyor 1	Asphalter (Other Construction)	C301		Chainman	C401		Туре	No. Working No. Id
	Chainman 3	Asphalter (Roadworks)	C302	. 1	Concreting Labourer	C402		Air Compressor	I
	Community Liaison Officer 1	Bamboo Scaffolder	C303		Diver's Linesman / Dredger Crew / Barge Crew	C403		Backhoe	7
	CEG	Bar Bender & Fixer	C304		Excavator	C404		Backhoe with Vibrating Hammer	1
	Contract Manager 1	Bricklayer	C305		Heavy Load Labourer	C405		Blower	: 1
Comments by Engineer's / Contractor's Representative	Engineer	Carpenter (Fender)	C306		Labourer (male / female) / Lorry checker / Watchman Office attendan	C406	32	Coring Machine	1
	Environmental Officer I	Carpenter (Formwork)	C307	3	Sewerman	C407		Dump Truck	: 3
,	Foreman/Assistant Foreman 2	Concrete Repairer	C308		Automation Equipment Mechanic	E301		Generator	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
:	General Foreman 1	Concretor	C309	1	Building Services Mechanic	E302		Grout Machine	<del></del>
	Labour Officer	Construction Plant Mechanic	C310		Cable Jointer (Power)	E303		Oxy-Acetylene	
	Land Surveyor 1	Curtain Wall Installer	C311		Carpenter			Steel Bending Machine	2 1
	Project Director 1	Demolition Worker	C312		Electrician/Electrical Fitter	E304			
<u> Utilities</u>	Project Manager	Diver	C312			E305		Vibrating Prob	2
(Record location & nature of works)	Project Quantity Surveyor 1	Drainlayer			Fire Services Mechanic	E306		Water Pump 50min	8
			C314		Instrument Mechanic	E307		Water Pump 75mm	3
	Quantity Surveyor	Electrician (Main Contractor's)	C315	1	Lift Electrician	E308		Welding Set	i 4 j., 1
	Safety Officer 1	Floor Layer	C316		Lift Mechanic	E309			
	Site Agent 1	Gas Plumber	C317		Mechanical Fitter	E310			<u>.</u>
	Surveyor 1	General Welder	C318	2	Overhead Linesman	E311			
		Glazier	C319		Painter	E312		<b>]</b>	
		Ground Investigation Operator Driller Borer	C320	. 1	Plumber and Pipe Fitter	E313			
		Grouting Worker	C321		Refrigeration/AC/Ventilation Mechanic	E314			
	<u> </u>	Joiner	C322	1	Sheet Metal Worker	E315			
		Leveller	C323	1	Sign Fabricator	E316		1	
		Marble Worker	C324		Sign Installer	E317			
		Marine Construction Plant Operator	C325	1	Thermal Insulation Craftsman	E318			1 1
Progress		Mason	C326		Welder	E319			
(Mention briefly any matter delaying or obstructing progress)		Metal Scaffolder	C327	- 1	Labourer	E401			
		Metal Worker	C328		Semi-skilled Worker	E402			
, '		Painter & Decorator	C329		Technician	T T			
		Piling Operative	C329		recimician				± - 1
		Pipelayer	C330	1		<u> </u>			
		Plant and Equipment Operator (Builder's Lift and Other Machinery)				1			
Visitor		Plant & Equipment Operator (Earthmoving Machinery)	C332			<del> </del>			
(Record names of visitors and time of visit)				7					
		Plant and Equipment Operator (Hoist and Crane)	C334			ļ		AV	
		Plant and Equipment Operator (Piling)	C335			į			
		Plant and Equipment Operator (Tunnelling)	C336			ii			
	<u> </u>	Plasterer	C337	1					
		Plumber	C338			1			
Accidents		Pneumatic Driller	C339			<u> </u>			
(Describe any occurance of accident)		Prestressing Operative	C340	1		i			
		Rigger/Metal Formwork Erector	C341			:			
		Shotcretor	C342	1					
		Shotfirer	C343			1			
	;	Slope Maintenance Worker	C344						
		Structural Steel Erector	C345	1					
Remarks		Structural Steel Welder	C346		The second secon	·			·
Area B - Backhoe EX08 on site		Tiler	C347						
		Trackworker	C348	· ····		1		·	
		Truck Driver / Coxswain / Barge Engineer / Working Ganger*	C349	····					
		Window Frame Installer	C350			įl			
	Total 19	17 maow 11anc Alstanci	(130			<u>:</u>			·
						r :		l l	
	Assistance to Engineer No.			•		ļ			· · · · · · · · · · · · · · · · · · ·
	Arrah		· · · · · · · · · · · · · · · · · · ·			ļ			
	Amah 1					ļļ			
	Coordinate Engineer 1		<u> </u>			<u> </u>			
	Drafting Assistant 1		dia i	ŀ					
	Driver 2					i			
	Field Assistant 3			]					
	Office Assistant 1		: :						
	Watchman 1		1	I					
	Total 10	(To be continued)	1 1		Total Labour	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	48	Total	35 7
					D WHILL DROUGH		40	D. V.G.L	. 33 : /

<ul> <li>Working gange</li> </ul>	r is equivalent to ordinary worker in the trade in whic
he is employed or	. if the trade is not listed, truck driver
(refer to GS Tabl	e 1.1)

Day's record and instructions checked and agreed

Signed:

Engineer's Representative

Contractor's Representative

IOW

Signed:

Date:

Name/Post: Andrew Lau/Resident Engineer

Wong Ching Lung / Site Agent

Signed:

Date:

Tso Sai Kuen / Inspector of Works

Original - ER's File Duplicate - Contractor

Date:

23-7-2012

Idling Code:

Contract No.: DC/2009/22 Date: 20/07/2012

Day: Friday

a Breakdown b Standby

f Task Completed g No Operator

c Awaiting Instruction d Assemble/Disassemble

h Not Required i Sunday/Public Holiday

e Bad Weather

Time	Location	Activity	Labour				Pla	nt				Material De	livered
						Туре	Wo	rking		Idling		Description	Quantity
			Trade	Code	No.	1	No.	ID	No.	ID	Code		
	Area A - DN1800 Stormwater Drain	No activity as per KLKJV arrangement											
00.00 10.00	A A . D				ļ				<u> </u>				
08:00 - 18:00	Area A - Pump Station	Driving sheetpiles for shoring and excavating for Ø1200 pipe trench between manhole MH06~box culvert bay 20 Formwork shuttering for wall kickers on base slab of discharge chamber Backfilling to form works area and site access outside transformer room Pre-pour cleaning for soffit for of roof of screen house Cleaning up sediments from wheel washing bay and general housekeeping	Carpenter (Formwork)	C307		Backhoe		EX28				Code	
			Labourer (female)	C406	2	Backhoe	1	EX50					
			Labourer (male)	C406	5	Backhoe with Vibrating Hammer	1	EX47					
<u> </u>			Plant & Equipment Operator (Earthmoving Machinery)	C333	2	Oxy-Acetylene	1	1	1				
			Plant and Equipment Operator (Hoist and Crane)	C334	1	Steel Bending Machine			3		h		
						Water Pump 50mm	2			T			
						Water Pump 75mm	1						
						Welding Set	1						
00.00.10.00					L								
08:00 - 18:00	Area A - Pump Station	Fixing surface mount cable conduits on walls at transformer room Rendering to cable trench at transformer room	Labourer (male)	C406	3								
			Plasterer	C337	1								
	Area A - Pump Station -	No activity as per KLKJV arrangement					1						
	Box Culvert						-		ļ	<u> </u>	-		<u> </u>
07:00 - 18:00 18:00 ~ 20:00	Area A - Ting Kok Road	Manual control of "stop/go" sign for traffic flow regulation (3F/Lab.) Manual control of temporary traffic light for traffic flow regulation (1 F/Lab.)	Labourer (female)	C406	3							***************************************	
08:00 - 18:00	Area A - Ting Kok Road (CH70-125)	Excavating for Ø2100 pipe trench at Ch. 70~120 and fabricating 1st & 2nd layer I-beam walings & stuts for shoring	General Welder	C318		Backhoe	1	EX36			Appropriate the state of the st		
			Labourer (female)	C406	1	Backhoe	1	EX51					
			Labourer (male)	C406	4	Oxy-Acetylene	1						
			Plant & Equipment Operator (Earthmoving Machinery)	C333	2	Water Pump 50mm	2						
						Welding Set	1						
	Area A - Ting Kok Road (Intake Structure)	No activity as per KLKJV arrangement				Water Pump 50mm	1						
	Area B - Tung Tsz Nursery (CH00-CH40)	No activity as per KLKJV arrangement										- W	

lay's record and instructions checked and agreed					
original - ER's File					
Duplicate - Contractor	Signed:	Signed:		Signed:	
	Engineer's Representative		Contractor's Representative		IOW
	Name/Post: Andrew Lau/Resident Engineer		Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
	Date:	Date:		Date:	23-7-2012

Idling Code:

Contract No.: DC/2009/22 Date: 20/07/2012

Day: Friday

a Breakdown b Standby

e Bad Weather f Task Completed

c Awaiting Instruction d Assemble Disassemble

g No Operator

h Not Required	
i Sunday/Public	Holida

Time	Location	Activity	Labour				Pla	nt				Material De	livered
						Туре	Wo	rking		ldling		Description	Quantity
			Trade	Code	No.	<b>~</b> {	No.	ID	No.	ID	Code		
08:00 - 18:00	Area B - Tung Tsz Nursery (CH130-CH280)	Bay 10 - Excavating for box culvert and fabricating 2nd layer 1-beam walings & struts for shoring Bay 11 - Excavating for box culvert to formation Cart away excavated materials to temporary stockpile area at D.D.12, Tung Tsz Road (5 truckloads) Bay 12 - Concreting for base slab (Total:45 cuM)	Concretor	C309	1	Backhoe	]	EX08					
			General Welder	C318	1	Backhoe	1	EX25	1				
			Labourer (male)	C406	5	Dump Truck	1		<del>                                     </del>			***************************************	
			Plant & Equipment Operator (Earthmoving Machinery)	C333	2	Generator	1						
			Truck Driver	C349	]	Oxy-Acetylene	2						
						Vibrating Prob	2						
						Welding Set	2						
										1			
08:00 - 18:00	Area B - Tung Tsz Nursery (CH40-CH130)	General housekeeping & cleaning up sediments from wheel washing bay	Labourer (male)	C406	1	Water Pump 50mm	1						
	<u> </u>					Water Pump 75mm	1						
08:00 - 18:00	Area B - Tung Tsz Nursery (Jacking Pit)	Coring holes for grouting to pipe jacking route General housekeeping Erecting working platform for thrust wall construction	Labourer (male)	C406	5	Air Compressor			1	AC04	h		
				<u> </u>		Coring Machine	1	<del> </del>	<u> </u>	<b>†</b>	1		
						Grout Machine	<del>                                     </del>	<u> </u>	1		h		
					<u> </u>	Oxy-Acetylene	1	<b>†</b>		T			
						Water Pump 50mm	1	<b>†</b>	<b>1</b>	<b>†</b>			
							1		<b>-</b>				
08:00 - 18:00	Area E - Siu Lek Yuen Rd.Playground	PL 1603.1 - trench excavation to expose underground utilities and driving sheetpiles for shoring at Ch. 21~25	Labourer (male)	C406	2	Backhoe	1	EX21					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	i	Blower	1		1				
						Generator	1						
						Oxy-Acetylene			1	<u> </u>	h		
						Water Pump 50mm	1						
						Water Pump 75mm	1						
						Welding Set			1		h		
								ŀ					
	Area F - Lek Yuen Street Rest Garden	No activity as per KŁKJV arrangement											
	Area G - Ngan Shing St.	No activity as per KLKJV arrangement					-						
		A Landonia					ļ	<del>                                     </del>					
08:00 - 18:00	Area I - Contractor Office	Office cleaning	Labourer (male)	C406	1					-			

Day's record and instructions checked and agreed				
Original - ER's File Duplicate - Contractor	Signed: Engineer's Representative	Signed:	S tractor's Representative	Signed: IOW
	Name/Post: Eddie Luk/Resident Engin		ng Ching Lung / Site Agent	Tso Sai Kuen / Inspector of Works
	Date:	Date:		Date: 23-7-2012

Client Department: Drainage Services Department

Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

Contractor: KWAN LEE - KULY JOINT VENTURE

Weather:

Fine

Typhoon / Warning Signal:

<u>PM</u> Shower Rainfall (mm) ST 5, TP 5

T1 - 15:40~24:00 Amber - 17:35~18:40

Thunderstorm Warning - 14:45~19:15 & 21:25~24:00

(Hong Kong Observatory's record) Very Hot Weather Warning - 00:00~19:45

Instructions to Contractor	Contractor's Site Staff No.	Labour	Code No	No.	Labour	Code No	. Plant
(Record verbal instructions given)							
	Assistant Surveyor 1	Asphalter (Other Construction)	C301		hainman	C401	Type No. Working No. Idle
	Chainman 3	Asphalter (Roadworks)	C302		Concreting Labourer	C402	Air Compressor
	Community Liaison Officer 1	Bamboo Scaffolder	C303		Diver's Linesman / Dredger Crew / Barge Crew	C403	Backhoe 7
	CEG 1	Bar Bender & Fixer	C304		xcavator	C404	Backhoe with Vibrating Hammer 1
	Contract Manager 1	Bricklayer	C305		leavy Load Labourer	C405	Blower 1
Comments by Engineer's / Contractor's Representative	Engineer	Carpenter (Fender)	C306		abourer (male / female) / Lorry checker / Watchman Office attendan	C406 31	
	Environmental Officer 1	Carpenter (Formwork)	C307 3		ewerman	C407	Dump Truck 2
	Foreman/Assistant Foreman 2	Concrete Repairer	C308	l A	Automation Equipment Mechanic	E301	Generator 2
	General Foreman 1	Concretor	C309 2	2 B	Building Services Mechanic	E302	Grout Machine 1
	Labour Officer 1	Construction Plant Mechanic	C310	C	Table Jointer (Power)	E303	Oxy-Acetylene 4 2
	Land Surveyor 1	Curtain Wall Installer	C311	C	'arpenter	E304	Steel Bending Machine 3
Utilities	Project Director 1	Demolition Worker	C312	E	Electrician/Electrical Fitter	E305	Vibrating Prob 2
(Record location & nature of works)	Project Manager 1	Diver	C313	Fi	ire Services Mechanic	E306	Water Pump 50mm 8
(Necola rocation & nature of works)	Project Quantity Surveyor 1	Drainlayer	C314			E307	Water Pump 75mm 3
	Quantity Surveyor	Electrician (Main Contractor's)	C315		ift Electrician	E308	Welding Set 5 2
	Safety Officer 1	Floor Layer	C316		ift Mechanic	E309	
	Site Agent I	Gas Plumber	C317	М	Aechanical Fitter	E310	
	Surveyor 1	General Welder	C318 2		Overhead Linesman	E311	
		Glazier	C319		ainter	E312	
		Ground Investigation Operator Driller Borer	C320		lumber and Pipe Fitter	E313	
		Grouting Worker	C321		tefrigeration/AC/Ventilation Mechanic	E314	
		Joiner	C322		heet Metal Worker	E315	
		Leveller	C323			E316	
		Marble Worker	C324		ign Installer	E317	· · · · · · · · · · · · · · · · · · ·
		Marine Construction Plant Operator	C325		hermal Insulation Craftsman	E318	
Progress		Mason	C326		Velder	E319	
(Mention briefly any matter delaying or obstructing progress)		Metal Scaffolder	C327		abourer	E401	
		Metal Worker	C328		emi-skilled Worker	E402	
		Painter & Decorator	C329	100	enn-skilled worker echnician	E402	
		Piling Operative	C329		ectinician		···     ··
		Pipelayer Plant and Equipment Operator (Builder's Lift and Other Machinery)	C331				
Visitor			·				
(Record names of visitors and time of visit)		Plant & Equipment Operator (Earthmoving Machinery)	C333 7	/	···		
		Plant and Equipment Operator (Hoist and Crane)	C334 1	·			
		Plant and Equipment Operator (Piling)	C335				
		Plant and Equipment Operator (Tunnelling)	C336				
		Plasterer	C337		:	······································	
		Plumber	C338			1.	
<u>Accidents</u>		Pneumatic Driller	C339				
(Describe any occurance of accident)		Prestressing Operative	C340			<u> </u>	
		Rigger/Metal Fornwork Erector	C341	<b>                                   </b>		<u> </u>	
		Shotcretor	C342	11			
		Shotfirer	C343				
		Slope Maintenance Worker	C344			į	
D	<b>  </b>	Structural Steel Erector	C345				
Remarks	<b></b>	Structural Steel Welder	C346				
		Tiler	C347				
	1 Jan	Trackworker	C348				
		Truck Driver / Coxswain / Barge Engineer / Working Ganger*	C349 2	2		<u>:</u>	
		Window Frame Installer	C350	-		:	
	Total 19						
	Assistance to Engineer No.						
	Amah 1						
	Coordinate Engineer 1						
	Drafting Assistant 1	,				:	
	Driver 2					i i	
	Field Assistant 3		<u> </u>				
	Office Assistant 1						
	Watchman !	11				:	
	Total 10	(To be continued)		П	otal Labour	49	Total 36 9
	— — — — — — — — — — — — — — — —			يلفا كسسسا	<del></del>		17 X 21 X 21 X 21 X 21 X 21 X 21 X 21 X

working ganger	is edutation to ordinary worker in the trade in which
he is employed or.	if the trade is not listed, truck driver
(refer to GS Table	1.1)

Day's record and instructions checked and agreed

Signed:

Date:

Engineer's Representative

Name/Post: Andrew Lau/Resident Engineer

Signed:

Contractor's Representative

Wong Ching Lung / Site Agent

Signed:

IOW

Tso Sai Kuen / Inspector of Works

Contract No.: DC/2009/22 Date: 21/07/2012

Day: Saturday

Original - ER's File

Duplicate - Contractor

Date:

Date: 23-7-2012

Sheet Lof

Idling Code:

Contract No.: DC/2009/22 Date: 21/07/2012

Day: Saturday

a Breakdown b Standby

d Assemble/Disassemble

e Bad Weather f Task Completed

c Awaiting Instruction

g No Operator

h Not Required i Sunday/Public Holiday

Time	Location	Activity	Labour				Pla	nt				Material De	livered
						Type	Wo	rking		Idling		Description	Quantity
			Trade	Code	No.	<del>-</del>	No.	ID	No.	lD	Code		
	Area A - DN1800 Stormwater Drain	No activity as per KLKJV arrangement											
08:00 - 18:00	Area A - Pump Station	Driving sheetpiles for shoring and excavation of Ø1200 pipe trench between manhole MH06~box culvert bay 20 Concreting for base slab of discharge chamber (Total: 49.3 cuM) Backfilling to form platform outside transformer room Formwork shuttering for walls and fixing tubular brace for falsework of store room Cleaning up sediments from wheel washing bay and general housekeeping	Carpenter (Formwork)	C307	3	Backhoe	1	EX28					
			Concretor	C309	2	Backhoe	I	EX50					
			Labourer (female)	C406	3	Backhoe with Vibrating Hammer	1	EX47					
			Labourer (male)	C406	6	Oxy-Acetylene	1						
			Plant & Equipment Operator (Earthmoving Machinery)	C333	2	Steel Bending Machine			3		h		
			Plant and Equipment Operator (Hoist and Crane)	C334	1	Vibrating Prob	2		1	1			#
						Water Pump 50mm	2	1	1				
	:					Water Pump 75mm	1		<u> </u>	<b>†</b>			
						Welding Set	1					***************************************	
							1	1	1	1			
08:00 - 18:00	Area A - Pump Station	Fixing surface conduits at transformer room	Labourer (male)	C406	3								
					<u> </u>								
	Area A - Pump Station - Box Culvert	No activity as per KLKJV arrangement											
<u> </u>													
07:00 - 18:00 18:00 - 20:00	Area A - Ting Kok Road	Manual control of "stop/go" sign for traffic flow regulation (3 F/Lab.)  Manual control of temporary traffic light for traffice flow regulation (1 F/Lab.)	Labourer (female)	C406	3								
								<u> </u>	<u></u>				
08:00 - 18:00	(CH70-125)	Excavating for Ø2100 pipe trench at Ch. 70~120 and fabricating 1st & 2nd layer of I-beam walings & struts for shoring	General Welder	C318		Backhoe	]	EX36					
			Labourer (male)	C406		Backhoe	1	EX51	<u> </u>				
			Plant & Equipment Operator (Earthmoving Machinery)	C333	2	Oxy-Acetylene	1						
						Water Pump 50mm	2						
~-···						Welding Set	2						
	A Time Water 1	NY NY YORK YORK YORK YORK YORK YORK YORK YOR						<b></b>	<u> </u>				
	(Intake Structure)	No activity as per KLKJV arrangement				Water Pump 50mm	1						
	Area B - Tung Tsz Nursery (CH00-CH40)	No activity as per KLKJV arrangement				***************************************							
Ĺ										1			

Day's record and instructions checked and agreed						
Original - ER's File Duplicate - Contractor	Stome A.		6: 1			70c
	Signed: En	ngineer's Representative	Signed:	Contractor's Representative	Signed:	IOW
	Name/Post:	Andrew Lau/Resident Engineer		Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
	Date:		Date:		Date:	23-7-2012

Idling Code:

Contract No.: DC/2009/22 Date: 21/07/2012

Day: Saturday

a Breakdown

e Bad Weather

b Standby c Awaiting Instruction

f Task Completed g No Operator

d Assemble/Disassemble

h Not Required i Sunday/Public Holiday

Time	Location	Activity	Labour				Pla	nt				Material De	livered
						Туре	Wo	rking		Idling	Description		Quantity
			Trade	Code	No.	1	No.	ID	No.	ID	Code		
8:00 - 18:00	Area B - Tung Tsz Nursery (CH130-CH280)	Bay 10 & 11 - Excavating for box culvert to formation level Cart away excavated materials to temporary storage area at D.D. 12, Tung Tsz Road (6 truckloads) Laying geotxetile membrane and rubble mound, then placing blinding layer Bay 12 - Stripping off formwork from base slab	Labourer (male)	C406	5	Backhoe	1	EX25					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Dump Truck	1	<u> </u>					
			Truck Driver	C349	1	Generator	1						<u> </u>
						Oxy-Acetylene	1	<b>†</b>	1	1	h		
****						Welding Set	I		1		h		
8:00 - 18:00	Area B - Tung Tsz Nursery (CH40-CH130)	General housekeeping & cleaning up sediments from wheel washing bay Backfilling to form haul road with rockfill materials	Labourer (male)	C406	1	Backhoe	1	EX08					
	ituisely (CII-10-CIII)0)	Dackinning to form hadritond with focklist matchais	Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Dump Truck	<del>-                                     </del>		<u> </u>				
			Truck Driver	C349	1	Water Pump 50mm	<del>- Fi</del>						+
						Water Pump 75mm	1	<del>                                     </del>		<u> </u>			<b>†</b>
				1									
:00 - 18:00	Area B - Tung Tsz Nursery (Jacking Pit)	Coring holes for grouting to pipe jacking route General housekeeping Welding tie bolts for thrust wall construction	Labourer (male)	C406	4	Air Compressor			1	AC04	h		
						Coring Machine	I						
						Grout Machine			1		h		
						Oxy-Acetylene	1						
						Water Pump 50mm	1						
						Welding Set	1						
:00 - 18:00	Area E - Siu Lek Yuen	NI 1/00 1 D											
	Rd.Playground	PL 1603.1 - Excavating to expose underground irrigation pipe PL 1603.1 & 1602.1 - Re-routing the irrigation pipe inside pipe trench for temporary diversion	Labourer (male)	C406	2	Backhoe	1	EX21					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	l	Blower	1						
						Generator	1						
						Oxy-Acetylene			1		h		
						Water Pump 50mm	1						
					· 	Water Pump 75mm	1						
						Welding Set			1		h		
	Area F - Lek Yuen Street Rest Garden	No activity as per KLKJV arrangement											
	Area G. Ngan Shina St	No activity as per KLKJV arrangement											
	rava o - rigan aning al.	TO detivity as per KEKE v anangement											

	1	 						_11			L			
<del> </del>														
ay's record and ins	tructions checked and agreed													
riginal - ER's File														
uplicate - Contract	cor	Signed:		Signed:					Signe	d.		$\mathcal{I}_{\mathcal{Q}}$		
		orginear .	Engineer's Representative		Contra	actor's I	Representative		orgine	u.	\ 6	[O]		
		Name/Post:	Andrew Lau/Resident Engineer		Wong	Ching Lu	ing / Site Agent			T	so Sai Ku	en / Insp	ector of Works	
		Date:		Date:					Date:		2	7 - 7	-2012	
												\$		

Idling Code:

Contract No.: DC/2009/22 Date: 21/07/2012

Day: Saturday

a Breakdown

e Bad Weather

b Standby c Awaiting Instruction f Task Completed g No Operator

d Assemble/Disassemble h Not Required

i Sunday/Public Holiday

Time	Location	Activity	Labour				Plan		Material Delivered				
						Type	Wor	rking	Ī	Idling		Description	Quantity
			Trade	Code	No.		No.	ID	No.	ID	Code		!
	Area I - Contractor Office	No activity as per KLKJV arrangement											

Origina) - ER's File				
Duplicate - Contractor	Signed:	Signed:	Signed:	(696
	Engineer's Representative	Contractor's Representative		IOW
	Name/Post: Andrew Lau/Resident Engineer	Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
	Date:	Date:	Date:	23-7-2012

Day's record and instructions checked and agreed

Client Department: Drainage Services Department

Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

Contractor: KWAN LEE - KULY JOINT VENTURE

Weather:

Cloudy

Typhoon / Warning Signal:

T1 - 00:00~24:00

Rainfall (mm)

ST 5, TP 5

Thunderstorm Warning - 11:35~17:00

Contract No.: DC/2009/22 Date: 22/07/2012

Day: Sunday

(Hong Kong Observatory's record)

<u>PM</u>

Shower

Instructions to Contractor		1			· · · · · · · · · · · · · · · · · · ·	· ·	
(Record verbal instructions given)	Contractor's Site Staff No.	Labour	Code No.	Labour	Code No.	Plant	
(Record Terbal matracastis given)	<b>-1</b> [ ' ' ' ' '	Asphalter (Other Construction)	C301	Chainman	C401	Type	No. Working No. Idle
		Asphalter (Roadworks)	C302	Concreting Labourer	C402	Air Compressor	, ito, working ito, ide
		Bamboo Scaffolder	C303	Diver's Linesman / Dredger Crew / Barge Crew	C403	Backhoe	9
		Bar Bender & Fixer	C304	Excavator	C404	Backhoe with Vibrating Hammer	1
		Bricklayer	C305	Heavy Load Labourer	C405	Generator	: · · · · · · · · · · · · · · · · · · ·
Comments by Engineer's / Contractor's Representative		Carpenter (Fender)	C306	Labourer (male / female) / Lorry checker / Watchman Office attendan	C406 9	Steel Bending Machine	. 3
		Carpenter (Formwork)	C307	Sewerman	C407	Water Pump 50mm	6 : 1
	<u>.</u>	Concrete Repairer	C308	Automation Equipment Mechanic	E301	Water Pump 75mm	1 1
		Concretor	C309	Building Services Mechanic	E302		
		Construction Plant Mechanic	C310	Cable Jointer (Power)	E303		
		Curtain Wall Installer	C311	Carpenter	E304		-
Utilities	<b>—    </b>	Demolition Worker	C312	Electrician/Electrical Fitter	E305		
(Record location & nature of works)		Diver	C313	Fire Services Mechanic	E306		
		Drainlayer	C314	Instrument Mechanic	E307		
		Electrician (Main Contractor's)	C315	Lift Electrician	E308		
		Floor Layer	C316	Lift Mechanic	E309		
		Gas Plumber	C317	Mechanical Fitter	E310		
		General Welder	C318	Overhead Linesman	E311		
		Glazier	C319	Painter	E312		
		Ground Investigation Operator/Driller/Borer	C320	Plumber and Pipe Fitter	E313		
		Grouting Worker	C321	Refrigeration/AC/Ventilation Mechanic	E314		<u> </u>
		Joiner	C322	Sheet Metal Worker	E315	<b>4</b>	
		Leveller Marble Worker	C323	Sign Fabricator	E316		-
			C324	Sign Installer	E317		
Progress		Marine Construction Plant Operator  Mason	C325	Thermal Insulation Craftsman Welder	E318	<b>-</b>	
(Mention briefly any matter delaying or obstructing progress)	<b></b>	Metal Scaffolder	C326 C327	Labourer	E319		
		Metal Worker	C327	Semi-skilled Worker	E401 E402		
		Painter & Decorator	C329	Technician	T E402		
	:	Piling Operative	C330	recimican	i		<u> </u>
		Pipelayer	C331		<u> </u>		
	.,	Plant and Equipment Operator (Builder's Lift and Other Machinery)	C332				
Visitor	-	Plant & Equipment Operator (Earthmoving Machinery)	C333		· · · · · · · · · · · · · · · · · · ·		
(Record names of visitors and time of visit)		Plant and Equipment Operator (Hoist and Crane)	C334		i i		•
		Plant and Equipment Operator (Piling)	C335		1		:
		Plant and Equipment Operator (Tunnelling)	C336			11	· · · · · · · · · · · · · · · · · · ·
		Plasterer	C337				1
		Plumber	C338		:	1	· · · · · · · · · · · · · · · · · · ·
Accidents		Pneumatic Driller	C339		1	1	
(Describe any occurance of accident)		Prestressing Operative	C340			<b> </b>	
		Rigger Metal Formwork Erector	C341			1	
		Shotcretor	C342				
		Shotfirer	C343				
		Slope Maintenance Worker	C344		: :		
	<b>_</b>	Structural Steel Erector	C345		ļ		
Remarks		Structural Steel Welder	C346				
		Tiler	C347				
		Trackworker	C348		<u></u>		
		Truck Driver / Coxswain / Barge Engineer / Working Ganger*	C349				
		Window Frame Installer	C350		·		-
	(Total						: : : : : : : : : : : : : : : : : : : :
	Assistance to Engineer No.						
	Dairos		4 4				
	Driver 1 1 1					<b>                                     </b>	
	vv accinitati :				<u> </u>		
			40				
	<b>II</b>						
			· · · · · · · · · · · · · · · · · · ·		:		······································
	<b>[</b>						
	Total 2	(To be continued)		Tatal I abana			
	Li Utat L	TO DE CORGINECO.		Total Labour	9	I LOTAL	7 16

* Working ganger is equivalent to ordinary worker in the trade in which he is employed or, if the trade is not listed, truck driver (refer to GS Table 1.1)  Day's record and instructions checked and agreed	Signed:  Engineer's Representative	Signed:  Contractor's Representative	Signed:	IOW
·	Name/Post: Andrew Lau/Resident Engineer	Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
Original - ER's File	Date:	Date:	Date:	23-7-2012
Duplicate - Contractor				

Idling Code:

Contract No.: DC/2009/22 Date: 22/07/2012

Day: Sunday

a Breakdown e Bad Weather b Standby f Task Completed c Awaiting Instruction g No Operator d Assemble/Disassemble

h Not Required	
i Sunday/Public	Holiday

Time	Location	Activity	Labour				Plan					Material De	
						Туре	Wo	rking		Idling		Description	Quantity
			Trade	Code	No.		No.	ID	No.	ID	Code		
	Area A - DN1800 Stormwater Drain	No activity as per KLKJV arrangement											
ļ	Area A - Pump Station	No activity as a VIVIV			ļ			ļ	<u> </u>	<b>↓</b>	ļ		
	Area A - Fump Station	No activity as per KLKJV arrangement			<u> </u>	Backhoe		<u> </u>	1	EX28	i		
						Backhoe	<u> </u>	<u> </u>	I	EX47	i		
						Backhoe		1	1	EX50	i		
						Steel Bending Machine			3		i	·····	
	<b></b>					Water Pump 50mm	2		<u></u>				
<u> </u>					<u> </u>	Water Pump 75mm	1	<u> </u>	ļ	<u> </u>			
	Area A - Pump Station - Box Culvert	No activity as per KLKJV arrangement											
07:00 - 18:00	A A - T' X'-1 D I								<u> </u>				
18:00 - 20:00	Area A - 11ng Kok Road	Manual control of "stop/go" sign for traffic flow regulation (3 F/Lab.)  Manual control of temporary traffic light for traffic flow regulation (1 M/Lab. from Area I)	Labourer (female)	C406	3	Backhoe			1		i		****
						Backhoe			1	EX36	i		
						Backhoe with Vibrating Hammer			1	EX51	i		
						Water Pump 50mm	2						
	Area A - Ting Kok Road (Intake Structure)	No activity as per KLKJV arrangement				Water Pump 50mm	1						
	Area B - Tung Tsz Nursery (CH130-CH280)	No activity as per KLKJV arrangement				Backhoe			1	EX08	1		
						Backhoe			1	EX25	i		
	Area B - Tung Tsz	No activity as per KLKJV arrangement				Water Pump 50mm	_	ļ	<u> </u>	<u> </u>			
	Nursery (CH40-CH130)	To working as post resident and agentific							ļ '		i		
						Water Pump 75mm			I		i		
	Area B - Tung Tsz Nursery (Jacking Pit)	No activity as per KLKJV arrangement				Air Compressor			1	AC04	i		
						Water Pump 50mm	1						
00.00 10.00	4								<u> </u>	<u> </u>			
	Area C - Shallow Marshy Area	Planting shrubs at ECA	Labourer (female)	C406	2				Personal Per				
			Labourer (male)	C406	3								

Day's record and instructions checked and agreed						
Original - ER's File Duplicate - Contractor	Signed:	Engineer's Representative	Signed:	Contractor's Representative	Signed:	29G
	Name/Post:	Andrew Lau/Resident Engineer		Wong Ching Lung / Site Agent	1	so Sai Kuen / Inspector of Works
	Date:		Date:		Date:	23-7-2012

Idling Code:

Contract No.: DC/2009/22 Date: 22/07/2012

Day: Sunday

a Breakdown e Bad Weather

b Standby f Task Completed

c Awaiting Instruction g No Operator d Assemble/Disassemble

h Not Required

Time	Location	Activity	Labour				Plai		Material Delivered				
						Type	Wo	Idling			Description	Quantity	
			Trade	Code	No.		No.	1D	No.	ID	Code		1
	Area E - Siu Lek Yuen Rd.Playground	No activity as per KLKJV arrangement				Backhoe			1	EX21	i		
						Generator			1		i		
	Area F - Lek Yuen Street Rest Garden	No activity as per KLKJV arrangement											
	Area G - Ngan Shing St.	No activity as per KŁKJV arrangement											
								<del>                                     </del>	<del>                                     </del>				1
08:00 - 18:00	Area I - Contractor Office	Office cleaning and site patrol	Labourer (male)	C406	1								

Day's record and instructions checked and agreed				
Original - ER's File  Duplicate - Contractor				226
	Signed: Engineer's Representative	Signed:  Contractor's Representative	Signed:	IOW
1	Name/Post: Andrew Lau/Resident Engineer	Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
I	Date:	Date:	Date:	29-7-2012

Client Department: Drainage Services Department

Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

Contractor: KWAN LEE - KULY JOINT VENTURE

Weather:  $\underline{AM}$ 

Typhoon / Warning Signal:

Contract No.: DC/2009/22 Date: 23/07/2012

Day: Monday

Rainy

<u>PM</u> Rainy

Rainfall (mm) ST 100, TP 100 T1 - 00:00~05:20 T3 - 05:20~17:40 T8 - 17:40~23:20

Instructions to Contractor

(Record verbal instructions given)

Comments by Engineer's / Contractor's Representative

Utilities

(Record location & nature of works)

Progress
(Mention briefly any matter delaying or obstructing progress)

Visitor (Record names of visitors and time of visit)

Accidents (Describe any occurance of accident)

Remarks

T9 - 23:20~24:00

Hong	Kong	Observatory'	's	record)
	*****	000000000000000000000000000000000000000		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

Contractor's Site Staff	No.	Labour	Code	No.	Labour	Code	No.	Plant	
Assistant Surveyor	1	Asphalter (Other Construction)	C301		Chainman	C401		Туре	No. Working No. Idl
Chainman	. 3	Asphalter (Roadworks)	C302	:	Concreting Labourer	C402	:	Air Compressor	110. 170120112 110.101
Community Liaison Officer	1	Bamboo Scaffolder	C303		Diver's Linesman / Dredger Crew / Barge Crew	C403		Backhoe	6 1
CEG	1	Bar Bender & Fixer	C304	3	Excavator	C404	i	Backhoe with Vibrating Hammer	1
Contract Manager	1	Bricklayer	C305		Heavy Load Labourer	C405		Blower	1
Engineer	-	Carpenter (Fender)	C306		Labourer (male / female) / Lorry checker / Watchman Office attendan	C406	28	Coring Machine	7
Environmental Officer	1	Carpenter (Formwork)	C307	:	Sewerman	C407	20	Dump Truck	1
Foreman/Assistant Foreman	2	Concrete Repairer	C308	:	Automation Equipment Mechanic	E301	:	Generator	3
General Foreman	1	Concretor	C309	1	Building Services Mechanic	E302		Grout Machine	1
Labour Officer	1	Construction Plant Mechanic	C310	* :	Cable Jointer (Power)	E303		Mobile Crane	· · · · · · · · · · · · · · · · · · ·
Land Surveyor	1	Curtain Wall Installer	C311		Carpenter	E304		Oxy-Acetylene	4 2
Project Director	1	Demolition Worker	C312	<u>.</u>	Electrician/Electrical Fitter	E305	i	Steel Bending Machine	4 2
Project Manager	,	Diver	C313		Fire Services Mechanic	E306		Water Pump 50mm	
Project Quantity Surveyor	1	Drainlayer	C314		Instrument Mechanic	E307	:	Water Pump 75mm	
Quantity Surveyor	:	Electrician (Main Contractor's)	C315		Lift Electrician	E307	<u> </u>		
Safety Officer	,	Floor Layer	C316		Lift Mechanic			Welding Set	4 ; 2
Site Agent	- 1	Gas Plumber	C317		Mechanical Fitter	E309			
				,	• · · · · · · · · · · · · · · · · · · ·	E310			4: E
Surveyor		General Welder Glazier	C318	1	Overhead Linesman	E311			
***************************************	-	Ground Investigation Operator/Driller/Borer	C319		Painter	E312			
	· ·		C320		Plumber and Pipe Fitter	E313			
		Grouting Worker	C321		Refrigeration/AC/Ventilation Mechanic	E314			
		Joiner	C322	<del>.</del>	Sheet Metal Worker	E315			J
		Leveller	C323	·	Sign Fabricator	E316	:	***	
	:	Marble Worker	C324		Sign Installer	E317			1
	·	Marine Construction Plant Operator	C325	:	Thermal Insulation Craftsman	E318			<u>.</u>
		Mason	C326	÷	Welder	E319			
		Metal Scaffolder	C327		Labourer	E401			
	I	Metal Worker	C328		Semi-skilled Worker	E402			
		Painter & Decorator	C329	: <del>-</del>	Technician	T			• • • • • • • • • • • • • • • • • • • •
		Piling Operative	C330	<u>:</u>					<u> </u>
		Pipelayer	C331						
		Plant and Equipment Operator (Builder's Lift and Other Machinery)	C332	·					:
		Plant & Equipment Operator (Earthmoving Machinery)	C333	. 6					
		Plant and Equipment Operator (Hoist and Crane)	C334	2					
		Plant and Equipment Operator (Piling)	C335						
		Plant and Equipment Operator (Tunnelling)	C336						
		Plasterer	C337	<u> </u>					
	i	Plumber	C338			:			
		Pneumatic Driller	C339						1
		Prestressing Operative	C340						
		Rigger/Metal Formwork Erector	C341						
		Shotcretor	C342						
		Shotfirer	C343						Ī [1
:		Slope Maintenance Worker	C344	:	:		-		
	- 1	Structural Steel Erector	C345			· · · · · · · · · · · · · · · · · · ·	-		
		Structural Steel Welder	C346			··· ······· i			*
		Tiler	C347						-
	1	Trackworker	C348						i i i
		Truck Driver / Coxswain / Barge Engineer / Working Ganger*	C349	1					
	1	Window Frame Installer	C350			·			
Total	20	Tradow France sustained							
			-			į			r - 1
Assistance to Engineer	No.	,	:						·
Amah	1							e e e e e e e e e e e e e e e e e e e	term of the second
f-	1		÷						<u> </u>
Coordinate Engineer									<u> </u>
Drafting Assistant	1		<u>.</u> .						ļ
Driver	2		{ - · · · · · · · · · · · · · · · · · ·			;			
Field Assistant	3		-						
Office Assistant	. 1		: .						
Watchman			<u>.</u>			:			į <u>i</u>
Total	10	(To be continued)			Total Labour		42	Total	33 10

\* Working ganger is equivalent to ordinary worker in the trade in which he is employed or, if the trade is not listed, truck driver (refer to GS Table 1.1)

Day's record and instructions checked and agreed

Signed:

Engineer's Representative

Date:

Name/Post: Eddie Luk/Resident Engineer

Date:

Signed:

Contractor's Representative

Wong Ching Lung / Site Agent

Signed:

Date:

IOW

24-7-2012

Tso Sai Kuen / Inspector of Works

Original - ER's File Duplicate - Contractor

Sheet 1 of 3

Idling Code:

Contract No.: DC/2009/22 Date: 23/07/2012

Day: Monday

a Breakdown b Standby

e Bad Weather f Task Completed

c Awaiting Instruction

d Assemble/Disassemble

g No Operator

h Not Required

Time	Location	Activity	Labour				Pla	nt				Material De	livered
						Туре	Wo	rking		ldling		Description	Quantity
			Trade	Code	No.		No.	ID	No.	ID	Code		
	Area A - DN 1800 Stormwater Drain	No activity as per KLKJV arrangement										······································	
08:00 - 18:00	Area A - Pump Station	Driving sheetpiles for shoring and excavation of Ø1200 pipe trench between manhole MH06~box culvert bay 20 Stripping off formwork from base slab of discharge chamber Forming site access and platform outside transformer room Delivery of reinforcement bars from bending yard for roof slab of store room Precautionary measures against typhoon and general housekeeping	Bar Bender & Fixer	C304		Backhoe			Territoria de la constanta de	EX28	h		
			Labourer (female)	C406	3	Backhoe	1	EX50					
			Labourer (male)	C406	5	Backhoe with Vibrating Hammer	1:	EX47					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Mobile Crane	1						
			Plant and Equipment Operator (Hoist and Crane)	C334	2	Oxy-Acetylene	1						
						Steel Bending Machine	T	T	3		h		
						Water Pump 50mm	2						
					-	Water Pump 75mm	1						
						Welding Set	1						
08:00 - 18:00	Area A - Pump Station	Fixing surface conduits and lighting at transformer room Rendering to cable trenches at transformer room	Labourer (male)	C406	4								
			Plasterer	C337	1								
	Area A - Pump Station - Box Culvert	No activity as per KLKJV arrangement											
07.00 10.00	4 4 7 7 7 1 7 1				ļ		<b>_</b>	<u> </u>					
07:00 - 18:00 18:00 - 20:00	Area A - Ting Kok Road	Manual control of "stop/go" sign for traffic flow regulation (3 F/Lab.)  Manual control of temporary traffic light for traffic flow regulation (1 F/Lab.)	Labourer (female)	C406	3								
08:00 - 18:00	Aron A. Ting Val. Dand	Execution for (33100 size to a late of 10 120 and 61 size of 11 size of 11 size of 12 si	C INVI		<u> </u>		<del> </del>						
08:00 - 18:00	(CH70-125)	Excavation for Ø2100 pipe trench at Ch. 70-120 and fabricating fro I-beam walings & struts for shoring Precautionary measures against typhoon		C318		Backhoe	1	EX36					
	<u> </u>		Labourer (male)	C406		Backhoe	1	EX51					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	2	Oxy-Acetylene	I						
						Water Pump 50mm	2	<u> </u>					
	<b>_</b>					Welding Set	1						
	Area A - Ting Kok Road (Intake Structure)	No activity as per KLKJV arrangement				Water Pump 50mm	1						
:	Area B - Tung Tsz Nursery (CH00-CH40)	No activity as per KLKJV arrangement											

Nursery (CH00-CH40)				
Day's record and instructions checked and agreed			100	
Original - ER's File				
Duplicate - Contractor	Signed: Engineer's Representative	Signed:  Contractor's Representative	Signed:	10W
	Name/Post: Eddie Luk/Resident Engineer	Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
	Date:	Date:	Date:	24-7-2012

Idling Code:

Contract No.: DC/2009/22 Date: 23/07/2012

Day: Monday

a Breakdown e Bad Weather b Standby f Task Completed c Awaiting Instruction g No Operator

d Assemble/Disassemble h Not Required

Time Location	Activity	Labour			Plant					Material Delivered			
					Туре	Wo	rking		Idling		Description	Quantity	
		Trade	Code	No.		No.	ID	No.	ID	Code			
08:00 - 18:00	Area B - Tung Tsz Nursery (CH130-CH280	Bay 12 & 13 - Backfilling between sheetpile shoring and base slab ) Precautionary measures against typhoon	Labourer (male)	C406	3	Backhoe	1	EX25					
		7) - seaws out y measures against typicon	Plant & Equipment Operator (Earthmoving Machinery)	C333	<del>                                     </del>	Generator		<del> </del>	<u> </u>	+			
						Oxy-Acetylene	<del>                                     </del>	<del>                                     </del>	1	1	h		
						Welding Set	1		1		h		
08:00 - 18:00 Area B - Tung Tsz	Area B - Tung Tsz Nursery (CH40-CH130)	General housekeeping & cleaning up sediments from wheel washing bay Forming site access with rockfill materials	Labourer (male)	C406	Į	Backhoe	1	EX08					
	(4110 (11150)	Totaling Sice access with rownin materials	Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Dump Truck	1	<del> </del>	<del>                                     </del>		-		
			Truck Driver	C349	1	Water Pump 50mm	1	1	<del> </del>	<b>-</b>			
						Water Pump 75mm	1						
08:00 - 18:00 Area B - Tung Tsz Nursery (Jacking Pit)	Coring hole for grouting to pipe jacking route Precaution measures against typhoon	Labourer (male)	C406	4	Air Compressor			1	AC04	h			
						Coring Machine	2						
						Grout Machine			1		h		
					Oxy-Acetylene	1							
						Water Pump 50mm	1		<u> </u>				
						Welding Set	1	<b>_</b>	ļ				
08:00 - 12:00 Area E - Siu Lek Y Rd.Playground	Area E - Siu Lek Yuen Rd.Playground	Precautionary measures against typhoon and general site tidiness PL 1602.1 - PL 1603.1 - Re-routing the irrigation pipes inside pipe trench for temporary diversion	Labourer (male)	C406	2	Backhoe	1	EX21					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Blower	1						
						Generator	1						
~~····						Oxy-Acetylene			I		h		
						Water Pump 50mm	1						
					Water Pump 75mm	1							
						Welding Set			1		h		
	Area F - Lek Yuen Street Rest Garden	No activity as per KLKJV arrangement									***************************************		
	Area G - Ngan Shing St.	No activity as per KLKJV arrangement											
08:00 -18:00	Area I - Contractor Office	Office cleaning ans site patrol	Labourer (male)	C406	Ī								

Day's record and instructions checked and agreed						
Original - ER's File  Duplicate - Contractor	<b>G</b> ' )					700-
	Signed: Eng	gineer's Representative	Signed:	Contractor's Representative	Signed:	IOW
	Name/Post:	Eddie Luk/Resident Engineer		Wong Ching Lung / Site Agent	7	fso Sai Kuen / Inspector of Works
	Date:		Date:		Date:	24-7-2012

Client Department: Drainage Services Department

Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

Contractor: KWAN LEE - KULY JOINT VENTURE

Weather:

Rainy

Typhoon / Warning Signal:

Rainfall (mm)

ST 100, TP 100

T9 - 00:00~00:45 T10 - 00:45~03:35 T8 - 03:35~10:10 T3 - 10:10~14:40

(Hong Kong Observatory's record)

<u>PM</u>

Shower

T1 - 14-40~23-15 Instructions to Contractor ontractor's Site Staff Lahour Code No. Labour Code Plant (Record verbal instructions given) Asphalter (Other Construction) Assistant Surveyor C301 C401 No. Working Asphalter (Roadworks) C302 Concreting Labourer C402 Air Compressor Community Liaison Officer Ramboo Scaffolder C303 Diver's Linesman / Dredger Crew / Barge Crew C403 CEG Bar Bender & Fixer C304 C404 Backhoe with Vibrating Hammer Bricklayer Contract Manager C305 Heavy Load Labourer C405 Blower Comments by Engineer's / Contractor's Representative Engineer Carpenter (Fender) C306 abourer (male / female) / Lorry checker / Watchman Office attendan C406 Generator Environmental Officer Carpenter (Formwork) C307 Sewerman Grout Machine Foreman/Assistant Foreman Concrete Repairer C308 automation Equipment Mechanic E301 Oxy-Acetylene General Foreman `oncretor C309 Building Services Mechanic E302 Steel Bending Machine abour Officer Construction Plant Mechanic C310 Cable Jointer (Power) E303 Water Pump 50mm Land Surveyor Curtain Wall Installe C311 E304 Water Pump 75mm Project Director Demolition Worker C312 Electrician/Electrical Fitter E305 Welding Set Utilities Project Manager Diver C313 Fire Services Mechanic E306 (Record location & nature of works) Project Quantity Surveyor Drainlayer C314 Instrument Mechan E307 Duantity Surveyor Electrician (Main Contractor's) C315 Lift Electrician E308 Safety Officer Site Agent Floor Layer C316 Lift Mechanic E309 Gas Plumber C317 Mechanical Fitter E310 General Welder C318 Overhead Linesman E311 Glazier C319 E312 Painter Ground Investigation Operator/Driller/Borer C320 Plumber and Pipe Fitter E313 Grouting Worker C321 Refrigeration/AC/Ventilation Mechanic E314 Joiner C322 Sheet Metal Worker E315 Leveller C323 Sign Fabricator E316 Marble Worker C324 Sign Installer E317 Marine Construction Plant Operator C325 Thermal Insulation Craftsman F118 Progress
(Mention briefly any matter delaying or obstructing progress) C326 E319 Metal Scaffolder C327 abourer E401 Metal Worker C328 Semi-skilled Worker E402 Painter & Decorator C329 l'echnician T C330 Piling Operative Pipelayer C331 Plant and Equipment Operator (Builder's Lift and Other Machinery) C332 Visitor Plant & Equipment Operator (Earthmoving Machinery) C333 (Record names of visitors and time of visit) Plant and Equipment Operator (Hoist and Crane) C334 Plant and Equipment Operator (Piling) C335 Plant and Equipment Operator (Tunnelling) C336 C337 Plasterer C338 lamber nenmatic Driller Accidents C339 Prestressing Operative (Describe any occurance of accident) C340 Rigger/Metal Formwork Erector C341 hotoretor C342 C343 Slope Maintenance Worker C344 Structural Steel Erector C345 Remarks Structural Steel Welder C346 C347 Trackworker C348 Fruck Driver / Coxswain / Barge Engineer / Working Ganger\* C349 indow Frame Installer C350 Assistance to Engineer Amah Coordinate Enginee Drafting Assistant Driver Field Assistant Office Assistant Watchman

* Working ganger is equivalent to ordinary worker in the trade in which
he is employed or, if the trade is not listed, truck driver
(refer to GS Table 1.1)

Day's record and instructions checked and agreed

Signed:

Engineer's Representative

Name/Post: Eddie Luk/Resident Engineer

Signed:

Date:

Contractor's Representative

Wong Ching Lung / Site Agent

Signed:

Date:

IOW

Tso Sai Kuen / Inspector of Works

Contract No.: DC/2009/22 Date: 24/07/2012

Day: Tuesday

Original - ER's File

Duplicate - Contractor

Date:

25-7-2012

Idling Code:

Contract No.: DC/2009/22 Date: 24/07/2012

Day: Tuesday

a Breakdown b Standby

e Bad Weather f Task Completed

c Awaiting Instruction

g No Operator

d Assemble Disassemble

h Not Required

Time	Location	Activity	Labour				Plai	ıt				Material De	elivered
						Type	Wo	rking		Idling	g Description		Quantity
			Trade	Code	No.		No.	ID	No.	ID	Code		
	Area A - DN1800 Stormwater Drain	No activity as per KLKJV arrangement											
									<u> </u>				
11:00 - 18:00	Area A - Pump Station	General housekeeping after typhoon	Labourer (male)	C406	<u></u>	Backhoe			<u> </u>	EX28	е		
						Backhoe			1	EX50	e		
						Backhoe with Vibrating Hammer			1	EX47	е		
~~~						Oxy-Acetylene		<u> </u>	1		е		
						Steel Bending Machine			3		e		
						Water Pump 50mm	2						
						Water Pump 75mm	1						
						Welding Set			]		e		
	Area A - Pump Station - Box Culvert	No activity as per KLKJV arrangement											
							. I						
1:00 - 18:00 8:00 - 20:00	Area A - Ting Kok Road	Manual control of "stop/go" sign for traffic flow regulation (3 F/Lab.)  Manual control of temporary traffic light for traffic flow regulation (1 F/Lab.)	Labourer (female)	C406	3								
	(CH70-125)	No activity as per KLKJV arrangement				Backhoe			]	EX36	e		
						Backhoe			I	EX51	е		
						Oxy-Acetylene			1		e		
						Water Pump 50mm	2						
						Welding Set			1		e		
	Area A - Ting Kok Road (Intake Structure)	No activity as per KLKJV arrangement				Water Pump 50mm	1						
										ļ			
	Area B - Tung Tsz Nursery (CH00-CH40)	No activity as per KLKJV arrangement								<u> </u>			
	Aron P. Tue - T	Na satisfic sa sa VIVIV sa sa sa VIVIV sa sa sa sa sa sa sa sa sa sa sa sa sa					4	ļ	<u> </u>				
	Area B - Tung Tsz Nursery (CH130-CH280)	No activity as per KLKJV arrangement		***************************************		Backhoe			1	EX25	e		
······································	<b></b>					Generator			1	ļ	е		
	<u> </u>					Oxy-Acetylene	<u> </u>		2	ļ	e		
·····						Welding Set			2		е		
										<u> </u>			
	Area B - Tung Tsz	No activity as per KLKJV arrangement	i	I 1	I	Backhoe	ı	i	1	EX08	e		[

ay's record and manactions election and agreed				
Driginal - ER's File				
Duplicate - Contractor	Signed:	Signed:	Signed:	726
	Engineer's Representative	Contractor's Representative		IOW
	Name/Post: Eddie Luk/Resident Engineer	Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
	Date:	Date:	Date:	25-7-2012

Idling Code:

Contract No.: DC/2009/22 Date: 24/07/2012

Day: Tuesday

a Breakdown e Bad Weather b Standby f Task Completed

c Awaiting Instruction g No Operator d Assemble Disassemble

h Not Required

Time	Location	Activity	Labour				Pla	nt				Material Del	livered
						Type	Wo	rking		ldling		Description	Quantity
			Trade	Code	No.	1	No.	ID	No.	ID	Code		
						Water Pump 50mm	1	1	<del>                                     </del>			······································	
						Water Pump 75mm	1						
	Area B - Tung Tsz Nursery (Jacking Pit)	No activity as per KLKJV arrangement				Air Compressor			1	AC04	e		
						Grout Machine			1		е		-
						Water Pump 50mm	1						
	Area E - Siu Lek Yuen Rd.Playground	No activity as per KLKJV arrangement				Backhoe			1	EX21	e	***************************************	
						Blower			1		e		
						Generator			1		e		
······································						Oxy-Acetylene			1		e		
					<b></b>	Water Pump 50mm		<u> </u>	1	<b>↓</b>	e		
					ļ	Water Pump 75mm			]		е		
	Area F - Lek Yuen Street Rest Garden	No activity as per KLKJV arrangement											
····	Area G - Ngan Shing St.	No activity as per KLKJV arrangement	***************************************					-	<u> </u>				
		·			ļ				<b></b>	<del>                                     </del>			<u> </u>
08:00 -18:00	Area 1 - Contractor Office	Office cleaning ande site patrol	Labourer (male)	C406	1								

ay's record and instructions checked and agreed						
riginal - ER's File						
uplicate · Contractor	Signed:		Signed:		Signed:	(286
		gineer's Representative	<b>9</b>	Contractor's Representative	o-ga-ta-t	IOW
	Name/Post:	Eddie Luk/Resident Engineer		Wong Ching Lung / Site Agent	,	Tso Sai Kuen / Inspector of Works
	Date:		Date:		Date:	25-7-2012

Client Department: Drainage Services Department

Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

Contractor: KWAN LEE - KULY JOINT VENTURE

Weather:

Typhoon / Warning Signal:

Contract No.: DC/2009/22 Date: 25/07/2012

Day: Wednesday

<u>AM</u> Shower

 $\underline{PM}$ Rainy Rainfall (mm) ST 70, TP 100

Thunderstorm Warning - 04:20~08:30, 10:30~15:30 & 17:55~20:30

Amber - 11:30~14:20

Special announcement of Flooding at NNT - 13:00~18:45

(Hong Kong Observatory's record)

Instructions to Contractor	Contractor's Site Staff No.	Labour	Code No	Labour	Code No.	Plant	
(Record verbal instructions given)	Assistant Surveyor 1	Asphalter (Other Construction)	C201				The second secon
			C301	Chainman	C401	Туре	No. Working No. Id
	Chainman 3	Asphalter (Roadworks)	, C302	Concreting Labourer	C402	Air Compressor	1
	Community Liaison Officer	Bamboo Scaffolder	C303	Diver's Linesman / Dredger Crew / Barge Crew	C403	Backhoe	3 4
	CEG	Bar Bender & Fixer	C304	Excavator	C404	Backhoe with Vibrating Hammer	1
	Contract Manager 1	Bricklayer	C305	Heavy Load Labourer	C405	Blower	1
Comments by Engineer's / Contractor's Representative	Engineer	Carpenter (Fender)	C306	Labourer (male / female) / Long checker / Watchman Office atte			3
	Environmental Officer 1	Carpenter (Formwork)	C307		C407	Dump Truck	1
	Foreman/Assistant Foreman 2	Concrete Repairer	C308	Sewerman Automation Equipment Mechanic			· · · · · · · · · · · · · · · · · · ·
	General Foreman 1	<b>[ ]</b>			E301	Electric Drill	2
		Concretor	C309	Building Services Mechanic	E302	Generator	2
	Labour Officer 1	Construction Plant Mechanic	C310	Cable Jointer (Power)	E303	Grout Machine	1
	Land Surveyor	Curtain Wall Installer	C311	Carpenter	E304	Oxy-Acetylene	, 1 , 4
Utilities	Project Director I	Demolition Worker	C312	Electrician/Electrical Fitter	E305	Steel Bending Machine	: 3
(Record location & nature of works)	Project Manager 2	Diver	C313	Fire Services Mechanic	E306	Water Pump 50mm	9
(Record tocation & nature of works)	Project Quantity Surveyor 1	Drainlayer	C314	Instrument Mechanic	E307	Water Pump 75mm	4
	Quantity Surveyor	Electrician (Main Contractor's)	C315	Lift Electrician	E308	Welding Set	2 4
	Safety Officer 1	Floor Layer	C316	Lift Mechanic	E309	Twenting Sec	
	Site Agent 1						
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Gas Plumber	C317	Mechanical Fitter	E310	<b>.</b>	fr
	Surveyor	General Welder	C318	Overhead Linesman	E311		
		Glazier	C319	Painter	E312		
	[ ]	Ground Investigation Operator/Driller/Borer	C320	Plumber and Pipe Fitter	E313 ;		<u> </u>
		Grouting Worker	C321	Refrigeration/AC/Ventilation Mechanic	E314		: : : : : : : : : : : : : : : : : : : :
		Joiner	C322	Sheet Metal Worker	E315		1
		Leveller	C323	Sign Fabricator	E316	<b>1</b> 1 ··· · · · · · · · · · · · · · · · ·	
		Marble Worker	C324	Sign Installer	E317		
		Marine Construction Plant Operator	C325	Thermal Insulation Craftsman			· ·
Progress					E318	<b></b>	
(Mention briefly any matter delaying or obstructing progress)	<b>-     </b>	Mason	C326	Welder	E319		
(Weinfort otherly any matter detaying or obstructing progress)	<b>   </b>	Metal Scaffolder	C327	Labourer	E401		
		Metal Worker	C328 2	Semi-skilled Worker	E402		
		Painter & Decorator	C329	Technician	T		:
		Piling Operative	C330				
		Pipelayer	C331				
	<b>-   </b>	Plant and Equipment Operator (Builder's Lift and Other Machinery)	C332				
Visitor	:	Plant & Equipment Operator (Earthmoving Machinery)	C333 2			· · · · · · · · · · · · · · · · · · ·	
(Record names of visitors and time of visit)		Plant and Equipment Operator (Hoist and Crane)	C334 1				in et in the state of the stat
Staff from EPD visit Area A & B at 14:00 hrs							
		Plant and Equipment Operator (Piling)	C335	and the second of the second o			
		Plant and Equipment Operator (Tunnelling)	C336	· · · · · · · · · · · · · · · · · · ·			
		Plasterer	C337		:		
	11	Plumber	C338				
Accidents	<b>-1</b>	Pneumatic Driller	C339				
(Describe any occurance of accident)	<b>-   </b>	Prestressing Operative	C340	***************************************			
(Describe any occurance of accident)	- I	Rigger/Metal Formwork Erector	C341			<b>                                    </b>	wat in the second section of
		Shotcretor					
		l f	C342				
		Shotfirer	C343			<b>  </b>	
	in the second se	Slope Maintenance Worker	C344				
	<b>-   </b>	Structural Steel Erector	C345				
Remarks	<b>     </b>	Structural Steel Welder	C346				
SEMC #29 was held at 15:45 hr. at Site Office	11	Tiler	C347				:
		Trackworker	C348			··· <b>[ ]</b> ·	1111
		Truck Driver : Coxswain / Barge Engineer / Working Ganger*	C349 1				arrage manufacture in the second
		Window Frame Installer					<del></del>
	m-4.1	Window Flame Histanes	C350				
	Total 20		pa - 1		i ;		, i
	Assistance to Engineer No.						
	Amah 1						
	Coordinate Engineer 1						
	Drafting Assistant 1				······································	<b>-1</b>	
	Driver 2		ļ				
			ļ		i		- p
	Field Assistant 3		<u>:</u>		: :	<b>_     </b>	
	Office Assistant					<b>11</b>	1
	Watchman 1	<b>1</b>					
	Total 10	(To be continued)		Total Labour	35		

* Working ganger is equivalent to ordinary worker in the trade in which
he is employed or, if the trade is not listed, truck driver
(refer to GS Table 1.1)

Day's record and instructions checked and agreed

Signed:

Engineer's Representative

Name/Post: Eddie Luk/Resident Engineer

Wong Ching Lung / Site Agent

Contractor's Representative

Tso Sai Kuen / Inspector of Works

Original - ER's File

Duplicate - Contractor

Date:

Date:

Signed:

Date:

26-7-2n

Idling Code:

Contract No.: DC/2009/22 Date: 25/07/2012

Day: Wednesday

a Breakdown b Standby

e Bad Weather f Task Completed

c Awaiting Instruction	g No Operator
d Assemble/Disassemble	h Not Required
	i Sunday/Public Holiday

Time	Location	Activity	Labour				Pla	nt	·····			Material De	livered
						Туре	We	rking		Idling		Description	Quantity
			Trade	Code	No.		No.	ID	No.	ID	Code		
	Area A - DN1800	No activity as per KLKJV arrangement							1				
	Stormwater Drain		<del>-</del>	_	<u> </u>		-	<b>-</b>		-			-
08:00 - 18:00	Area A - Pump Station	Driving sheetpiles for shoring and excavation of Ø1200 pipe trench between manhole MH06~box culvert bay20 Cleaning up sediments from wheel washing bay General housekeeping	Labourer (female)	C406	3	Backhoe				EX28	1	****	
		one and a second	Labourer (male)	C406	3	Backhoe	╂──	<del> </del>	<del>                                     </del>	EX50	h		
			Plant and Equipment Operator (Hoist and Crane)	C334	1	Backhoe with Vibrating	1	EX47	<del>  '</del> -	LASO			
					<b></b>	Hammer Oxy-Acetylene	<del> </del>	-	<del>                                     </del>	<del></del>	h		
			<u> </u>	<del> </del>		Steel Bending Machine	-		3	<del></del>	h		<del> </del>
				_		Water Pump 50mm	2	<del> </del>	1 3	<del> </del>	l "		
·					ļ	Water Pump 75mm	1	<del> </del>	╀—	<del> </del>	├		
					<b> </b>	Welding Set	1	<del> </del>	<del> </del>	<del>                                     </del>			
						welding Set	-	<del> </del>	<del>                                     </del>	<del> </del>	h		
08:00 - 18:00	Area A - Pump Station	Fixing surface conduits at transformer room Fabricating GMS angle frame for cable trench cover and installing 2nos. Louvre (L2) at transformer room	Labourer (male)	C406	5	Electric Drill	2			Andreas de che calculation de ch			
			Metal Worker	C328	2	Welding Set	1						
	Area A - Pump Station - Box Culvert	No activity as per KLKJV arrangement						ļ					
07:00 - 18:00 18:00 - 20:00	Area A - Ting Kok Road	Manual control of "stop/go" sign for traffic flow regulation (3 F/Lab.)  Manual control of temporary traffic light fro traffic flow regulation (1 F/Lab.)	Labourer (female)	C406	3								
08:00 - 18:00	Area A - Ting Kok Road (CH70-125)	General housekeeping	Labourer (male)	C406	2	Backhoe	1	EX36					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Backhoe		1	1	EX51	h		
						Oxy-Acetylene	1			<b>†</b>			
		, , , , , , , , , , , , , , , , , , , ,				Water Pump 50mm	2	<b>†</b>	<b>-</b>	<b>†</b>			
						Welding Set	1						
	Area A - Ting Kok Road (Intake Structure)	No activity as per KLKJV arrangement				Water Pump 50mm	1						
	Area B - Tung Tsz Nursery (CH00-CH40)	No activity as per KLKJV arrangement											
	(C1100-C1140)							<del>                                     </del>	<del> </del>	<b> </b>	<del>   </del>		

			1		<u> </u>	<u> </u>	
Day's record and instructions checked and agreed							
Original - ER's File							/70/
Duplicate - Contractor	Signed:		Signed:			Signed:	
	E	Engineer's Representative		Contractor	's Representative		IOW
	Name/Post:	Eddie Luk/Resident Engineer		Wong Chin	g Lung / Site Agent		Tso Sai Kuen / Inspector of Works
	Date:		Date:			Date:	26-7-20n

Idling Code:

Contract No.: DC/2009/22 Date: 25/07/2012

Day: Wednesday

a Breakdown e Bad Weather b Standby f Task Completed c Awaiting Instruction g No Operator d Assemble/Disassemble

h Not Required

Time	Location	Activity	Labour				Plai	ıt.				Material De	livered
	ŀ					Туре	Wo	rking	T	Idling		Description	Quantity
			Trade	Code	No.	1	No.	ID	No.	ID	Code		
8:00 - 18:00	Area B - Tung Tsz Nursery (CH130-CH280)	Bay 10~13 -General housekeeping and dewatering from box culvert trench	Labourer (male)	C406	2	Backhoe			1	EX25	h	***************************************	
						Generator	1						
						Oxy-Acetylene			2	1	h		
						Water Pump 50mm	1	<b>1</b>					
						Water Pump 75mm	1	1	1	1	1		
						Welding Set			2		h		
3:00 - 18:00	Area B - Tung Tsz Nursery (CH40-CH130)	General housekeeping & cleaning up sediments from wheel washing bay Forming site access with rockfill materials	Labourer (male)	C406	l	Backhoe	1	EX08					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	. 1	Dump Truck	1		1				
			Truck Driver	C349	1	Water Pump 50mm	1						
						Water Pump 75mm	1	<b> </b>	<b>†</b>				
3:00 - 12:00	Area B - Tung Tsz Nursery (Jacking Pit)	Coring hole for grouting to pipe jacking route General housekeeping	Labourer (male)	C406	3	Air Compressor			1	AC04	h	······································	
						Coring Machine	2						
						Grout Machine			ı		h		
						Water Pump 50mm	1						
8:00 - 18:00	Area C - Shallow	Erecting bamboo support for leaning trees at ECA					<u> </u>	ļ	<u> </u>	<u> </u>	<u> </u>		
5:00 - 16:00	Marshy Area	Erecting bamboo support for leaning trees at ECA	Labourer (female)	C406	3								
			Labourer (male)	C406	2								
3:00 - 18:00	Area E - Siu Lek Yuen Rd.Playground	Saw cutting the broken branches of tree E16 & E18 and general site cleaning	Labourer (male)	C406	2	Backhoe	1	EX21			-		
·····						Blower	1						
						Generator	1						
						Oxy-Acetylene			1		h		
						Water Pump 50mm	1						
						Water Pump 75mm	1			ŀ			
						Welding Set			1		h		
	Area F - Lek Yuen Street Rest Garden	No activity as per KLKJV arrangement											
	Area G - Ngan Shing St	No activity as per KLKJV arrangement											
		The record to the second distriction of the						<u> </u>	<u> </u>	ļ	<b></b>		

Day's record and instructions checked and agreed				
Original - ER's File				
Duplicate - Contractor	Signed: Engineer's Repr	_	Sig Contractor's Representative	gned:
	Name/Post: Eddie Luk/Resi	ident Engineer	Wong Ching Lung / Site Agent	Tso Sai Kuen / Inspector of Works
	Date:	Date:	Da	te: 26-7-2012

Idling Code:

Contract No.: DC/2009/22 Date: 25/07/2012

Day: Wednesday

a Breakdown

e Bad Weather

b Standby

f Task Completed g No Operator

e Awaiting Instruction d Assemble Disassemble

h Not Required

Time	Location	Activity	Labour	***************************************			Plan	ıŧ				Material Delivered	
						Туре	Wor	king		Idling		Description	Quantity
			Trade	Code	No.		No.	ID	No.	ID	Code		
	Area I - Contractor Office	No activity as per KLKJV arangement											

Day's record and instructions checked and agreed						
original - ER's File Duplicate - Contractor	Signed:	Engineer's Representative	Signed:	Contractor's Representative	Signed:	COQ IOW
	Name/Post:	Eddie Luk/Resident Engineer		Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
	Date:		Date:		Date:	26-7-2012

Client Department: Drainage Services Department

Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

Contractor: KWAN LEE - KULY JOINT VENTURE

Weather: <u>AM</u>

Rainy

Typhoon / Warning Signal:

 $\underline{PM}$ Shower

Rainfall (mm) ST 100, TP 100 Thunderstorm Warning - 08:45~15:30

(Hong Kong Observatory's record)

Instructions to Contractor	Contractor's Site Staff No.	Labour	Code	No.	Labour	Code N	0.	Plant
(Record verbal instructions given)							Walland Committee Committe	
	Assistant Surveyor 1	Asphalter (Other Construction)	C301		Chainman	C401	Type	No. Working No. 10
	Chainman 3	Asphalter (Roadworks)	C302		Concreting Labourer	C402	Air Compressor	
	Community Liaison Officer 1	Bamboo Scaffolder	C303		Diver's Linesman / Dredger Crew / Barge Crew	C403	Backhoe	2 4
	CEG	Bar Bender & Fixer	C304		Excavator	C404	Backhoe with Vibrating Hammer	1
	Contract Manager 1	Bricklayer	C305		Heavy Load Labourer	C405	Coring Machine	2
Comments by Engineer's / Contractor's Representative	Engineer	Carpenter (Fender)	C306		Labourer (male / female) / Lorry checker / Watchman/Office attendan	C406 2	5 Dump Truck	1
	Environmental Officer 1	Carpenter (Formwork)	C307	3	<u>Sewerman</u>	C407	Electric Drill	2
	Foreman/Assistant Foreman 2	Concrete Repairer	C308		Automation Equipment Mechanic	E301	Generator	1 1
	General Foreman 1	Concretor	C309		Building Services Mechanic	E302	Grout Machine	1
	Labour Officer 1	Construction Plant Mechanic	C310		Cable Jointer (Power)	E303	Oxy-Acetylene	2 3
	Land Surveyor 1	Curtain Wall Installer	C311		Carpenter	E304	Steel Bending Machine	. 3
Utilities	Project Director 1	Demolition Worker	C312		Electrician/Electrical Fitter	E305	Water Pump 50mm	. 8 1
(Record location & nature of works)	Project Manager 2	Diver	C313	i	Fire Services Mechanic	E306	Water Pump 75mm	3 1
(Record location & nature of works)	Project Quantity Surveyor 1	Drainlayer	C314		Instrument Mechanic	E307	Welding Set	2 4
	Quantity Surveyor	Electrician (Main Contractor's)	C315		Lift Electrician	E308		
	Safety Officer	Floor Layer	C316	1	Lift Mechanic	E309		
	Site Agent 1	Gas Plumber	C317		Mechanical Fitter	E310		:
	Surveyor 1	General Welder	C318		Overhead Linesman	E311		<u> </u>
	11	Glazier	C319	1	Painter Painter	E312		
		Ground Investigation Operator/Driller/Borer	C320		Plumber and Pipe Fitter	E313		
		Grouting Worker	C321	1	Refrigeration/AC/Ventilation Mechanic	E314		
		Joiner	C322		Sheet Metal Worker			
		Leveller	C323		Sign Fabricator	E315		
	iii	Marble Worker	C324			E316		
		Marine Construction Plant Operator		1	Sign Installer	E317		
Progress			C325		Thermal Insulation Craftsman	E318		
(Mention briefly any matter delaying or obstructing progress)	<b>  </b>	Mason Metal Scaffolder	C326	1	Welder	E319		
programme and parties designed or obstructing progressy			C327		Labourer	E401		
		Metal Worker	C328	2	Semi-skilled Worker	E402		
		Painter & Decorator	C329		Technician	Т		
		Piling Operative	C330					
		Pipelayer	C331					
Visitor		Plant and Equipment Operator (Builder's Lift and Other Machinery)	C332					
(Record names of visitors and time of visit)	<b></b>	Plant & Equipment Operator (Earthmoving Machinery)	C333	2				
		Plant and Equipment Operator (Hoist and Crane)	C334					
		Plant and Equipment Operator (Piling)	C335					·
		Plant and Equipment Operator (Tunnelling)	C336					
		Plasterer	C337					
		Plumber	C338			i		
Accidents		Pneumatic Driller	C339					
(Describe any occurance of accident)		Prestressing Operative	C340					
		Rigger/Metal Formwork Erector	C341					
	<u> </u>	Shotcretor	C342					
		Shotfirer	C343				11	
		Slope Maintenance Worker	C344			:		
	<b>   </b>	Structural Steel Erector	C345					
Remarks		Structural Steel Welder	C346	1		:		
Area A - Backhoe EX51 off site		Tiler	C347	· · · · · · · · · · · · · · · · · · ·				
Progress Meeting #29 was held at 10:00 A.M.		Trackworker	C348				1	
		Truck Driver / Coxswain / Barge Engineer / Working Ganger*	C349	1				
		Window Frame Installer	C350					
	Total 20					·		
	provided to the control of the contr		T 1	ļ		<b>.</b>		
	Assistance to Engineer No.		- 1	1		*****		
	Amah		•					1 to 1
	Coordinate Engineer 1		1	1				
	Drafting Assistant 1		<u> </u>				<b></b>	
				1				
	Driver 2		·					
	Field Assistant 3		<u> </u>			<del></del>		
	Office Assistant 1		1 :-					
	Watchman 1 Total 10	To be continued)						
	Total 10				Total Labour	36		

<ul> <li>Working ganger is equivalent to ordinary worker in the trade in which</li> </ul>
he is employed or, if the trade is not listed, truck driver
(refer to GS Table 1.1)

Day's record and instructions checked and agreed

Signed:

Engineer's Representative

Name/Post: Eddie Luk/Resident Engineer

Date:

Wong Ching Lung / Site Agent

Contractor's Representative

Signed:

Date:

Signed:

IOW

Tso Sai Kuen / Inspector of Works

27-7-2012 Date:

Contract No.: DC/2009/22 Date: 26/07/2012

Day: Thursday

Original - ER's File Duplicate - Contractor

Idling Code:

Contract No.: DC/2009/22 Date: 26/07/2012

Day: Thursday

a Breakdown b Standby

e Bad Weather f Task Completed

c Awaiting Instruction

g No Operator

d Assemble/Disassemble h Not Required

Time	Location	Activity	Labour				Pla	nt				Material De	livered
						Туре	Wo	rking		Idling		Description	Quantity
			Trade	Code	No.	]	No.	ID	No.	ID	Code		
	Area A - DN1800 Stormwater Drain	No activity as per KLKJV arrangement											
									<u> </u>				
08:00 - 18:00	Area A - Pump Station	Driving sheetpiles for shoring and excavation of Ø1200 pipe trench between manhole MH06~box culvert bay 20 Formwork shuttering for walls and fixing tubular brace to falsework of store room General housekeeping and miscellaneous works Cleaning up sediments from wheel washing bay	Carpenter (Formwork)	C307	3	Backhoe				EX28	h		
			Labourer (female)	C406	3	Backhoe		1	ī	EX50	h		
			Labourer (male)	C406	3	Backhoe with Vibrating Hammer	1	EX47					
			Plant and Equipment Operator (Hoist and Crane)	C334	1	Oxy-Acetylene	1						
						Steel Bending Machine			3		h		
						Water Pump 50mm	2						
						Water Pump 75mm	1	1					
						Welding Set			I		h		
							1						
08:00 - 18:00	Area A - Pump Station	Installing lighting and fixing surface conduits at transformer room Fabricatign GMS angle frame for cable trench cover and installing 2nos. Louvre (I.4) at transformer room	Labourer (male)	C406	7	Electric Drill	2						
			Metal Worker	C328	2	Welding Set	]						
	Area A - Pump Station - Box Culvert	No activity as per KŁKJV arrangement											
07:00 - 18:00	Arag A Ting Vol. Dood	Manual control of "stop/go" sign for traffic flow regulation (3 F/Lab.)			<u> </u>			ļ	<u> </u>	<u> </u>			
18:00 - 20:00	Area A - Thig Nok Road	Manual control of temporary traffic light fro traffic flow regulation (I F/Lab.)	Labourer (female)	C406	3		-						
08:00 - 18:00	Area A - Ting Kok Road (CH70-125)	General housekeeping and miscellaneous works	General Welder	C318	1	Backhoe	1	EX36					
			Labourer (male)	C406	2	Oxy-Acetylene	1	<del> </del>	<del> </del>	1		<u> </u>	
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Water Pump 50mm	2	<b>†</b>	<del> </del>	<b></b>			
						Welding Set	1	1	<u> </u>	1			
					<u> </u>		1	†		1			
	Area A - Ting Kok Road (Intake Structure)	No activity as per KLKJV arrangement				Water Pump 50mm	1						
	Area B - Tung Tsz Nursery (CH00-CH40)	No activity as per KLKJV arrangement											

	Nursery (CH00-CH40)													
		****												
Day's record and ins	tructions checked and agreed													
Original - ER's File														
Duplicate - Contract	or		Signed:		Signed:				Signed	d:	$\subseteq \P$	2		
			E	ngineer's Representative	:	Contracto	r's R	epresentative				IOV	V	
			Name/Post:	Eddie Luk/Resident Engineer		Wong Chir	ng Lui	ng / Site Agent		Ts	so Sai Kue	en / Inspe	ector of Works	
			Date:		Date:				Date:		2	7-7	7-2012	
												, £		

Idling Code:

Contract No.: DC/2009/22 Date: 26/07/2012

Day: Thursday

a Breakdown b Standby

d Assemble/Disassemble

e Bad Weather f Task Completed

e Awaiting Instruction

g No Operator h Not Required

Time	Location	Activity	Labour	·	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>		Pla	nt				Material De	livered
						Туре	Wo	rking	T	Idling		Description	Quantity
	****		Trade	Code	No.		No.	ID	No.	ID	Code		
08:00 - 18:00	Area B - Tung Tsz Nursery (CH130-CH280)	Bay 10~13 - General housekeeping and dewatering from box culvert trench	Labourer (male)	C406	1	Backhoe			1	EX25	h	***************************************	
						Generator	1						
						Oxy-Acetylene			2		h		
						Water Pump 50mm	1		I				
						Water Pump 75mm	1		l				
						Welding Set			2		h		
08:00 - 18:00	Area B - Tung Tsz Nursery (CH40-CH130)	General housekeeping & cleaning up sediments from wheel washing bay Forming site access with granular materials	Labourer (male)	C406	]	Backhoe	1	EX08					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Dump Truck	1	<del>                                     </del>	1				
			Truck Driver	C349		Water Pump 50mm	1	1	<del>                                     </del>	1			
					<del>                                     </del>	Water Pump 75mm	1	1	┪	1			1
08:00 - 18:00	Area B - Tung Tsz Nursery (Jacking Pit)	Coring hole for grouting to pipe jacking route General housekeeping	Labourer (male)	C406	3	Air Compressor			1	AC04	h		
						Coring Machine	2			1			
						Grout Machine			1		h		
						Water Pump 50mm	1						
08:00 - 12:00	Area E - Siu Lek Yuen Rd.Playground	Cleaning up the site areas after typhoon	Labourer (male)	C406	3	Backhoe			1	EX21	a		
						Generator			J	1	h		
						Oxy-Acetylene			1		h		
						Water Pump 50mm		T	1		h		
						Water Pump 75mm			1		h		
						Welding Set			1		h		
	Area F - Lek Yuen Street Rest Garden	No activity as per KLKJV arrangement											
	Area G - Ngan Shing St.	No activity as per KLKJV arrangement						<u> </u>					
	Area I - Contractor Office	No activity as per KLKJV arrangement											:

Day's record and instructions checked and agreed						
Original - ER's File  Duplicate - Contractor	-	gineer's Representative	Signed:	Contractor's Representative	Signed:	IOW 10W
	200	Since a representative		Consuctor's Representative		
	Name/Post:	Eddie Luk/Resident Engineer		Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
	Date:		Date:		Date:	27-7-2012

Client Department: Drainage Services Department

Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

Contractor: KWAN LEE - KULY JOINT VENTURE

Weather:  $\underline{\mathbf{AM}}$ 

Shower

Typhoon / Warning Signal:

<u>PM</u> Shower

ST 20, TP 30

Rainfall (mm) Amber - 11:00~12:30

Thunderstorm Warning - 04:00~17:00

Contract No.: DC/2009/22 Date: 27/07/2012

Day: Friday

#### (Hong Kong Observatory's record)

Instructions to Contractor	Contractor's Site Staff No.	Labour	Code No.	Labour	Code No.	Plant
(Record verbal instructions given)	Assistant Surveyor 1		6701			
	Chainman 3	Asphalter (Other Construction)	C301	Chainman	C401	Type No. Working No. Idle
		Asphalter (Roadworks)	C302	Concreting Labourer	C402	Air Compressor 1
	Community Liaison Officer 1	Bamboo Scaffolder	C303	Diver's Linesman / Dredger Crew / Barge Crew	C403	Backhoe 3 3
	CEG 1	Bar Bender & Fixer	C304	Excavator	C404	Backhoe with Vibrating Hammer 1
Comments by Engineer's / Contractor's Representative	Contract Manager 1	Bricklayer	C305	Heavy Load Labourer	C405	Coring Machine 2
Comments by Engineer's / Contractor's Representative	Engineer	Carpenter (Fender)	C306	Labourer (male / female) / Lorry checker / Watchman/Office attendan	C406 21	Crane Lorry 1
	Environmental Officer 1	Carpenter (Formwork)	C307	Sewerman	C407	Dump Truck 2
	Foreman/Assistant Foreman 2	Concrete Repairer	. C308	Automation Equipment Mechanic	E301	Electric Drill 2
	General Foreman 1	Concretor	C309	Building Services Mechanic	E302	Generator 2
	Labour Officer 1	Construction Plant Mechanic	C310	Cable Jointer (Power)	E303	Grout Machine
	Land Surveyor 1	Curtain Wall Installer	C311	Carpenter	E304	Oxy-Acetylene 2 4
Utilities	Project Director 1	Demolition Worker	C312	Electrician/Electrical Fitter	E305	Steel Bending Machine 3
	Project Manager 2	Diver	C313	Fire Services Mechanic	E306	Water Pump 50mm 9
(Record location & nature of works)	Project Quantity Surveyor 1	Drainlayer	C314	Instrument Mechanic	E307	Water Pump 75 mm 4
Meeting was filed at Site Office at 10:00 A.M. amongst DSD, KLKJV & AECOM	Quantity Surveyor	Electrician (Main Contractor's)	C315	Lift Electrician	E308	Welding Set 1 5
concerning the power supply to Pump Station	Safety Officer	Floor Layer	C316	Lift Mechanic	E309	Weiding Set
	Site Agent 1	Gas Plumber	C317	Mechanical Fitter		
	Surveyor I	General Welder	C317	Overhead Linesman	E310	
	Derreyor				E311	
		Glazier	C319	Painter	E312	
		Ground Investigation Operator Driller Borer	C320	Plumber and Pipe Fitter	E313	
		Grouting Worker	C321	Refrigeration/AC/Ventilation Mechanic	E314	
		Joiner	C322	Sheet Metal Worker	E315	
		Leveller	C323	Sign Fabricator	E316	
		Marble Worker	C324	Sign Installer	E317	
		Marine Construction Plant Operator	C325	Thermal Insulation Craftsman	E318	
Progress	<b></b>	Mason	C326	Welder	E319	
(Mention briefly any matter delaying or obstructing progress)		Metal Scaffolder	C327	Labourer	E401	
		Metal Worker	C328 2	Semi-skilled Worker	E402	
		Painter & Decorator	C329	Technician	T T	
		Piling Operative	C330	i ocialician		
		Pipelayer	C330			A CONTRACTOR OF THE PROPERTY O
		Plant and Equipment Operator (Builder's Lift and Other Machinery)				
Visitor						
(Record names of visitors and time of visit)		Plant & Equipment Operator (Earthmoving Machinery)	C333 3			The second secon
		Plant and Equipment Operator (Hoist and Crane)	C334 2			
		Plant and Equipment Operator (Piling)	C335			
		Plant and Equipment Operator (Tunnelling)	C336			
		Plasterer	C337			
		Plumber	C338			
Accidents		Pneumatic Driller	C339			
(Describe any occurance of accident)		Prestressing Operative	C340			
		Rigger Metal Formwork Erector	C341			
		Shotcretor	C342		:	
		Shotfirer	C343			
		Slope Maintenance Worker	C344			
		Structural Steel Erector	C345		•	
Remarks	<b>1</b>	Structural Steel Welder	C346			
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Tiler	C347			
		Trackworker				
		Truck Driver / Coxswain / Barge Engineer / Working Ganger*	C348			
			C349 2	, , ,		
		Window Frame Installer	C350			
	Total 20	· · · · · · · · · · · · · · · · · · ·			. ,	
	Assistance to Engineer No.					
	Amah 1				;	
	Coordinate Engineer 1					
	Drafting Accietant 1					
	Driver 2					
	Field Assistant 3					
	Office Assistant 1					
	Watchman 1		- <del> </del>		· •	· · · · · · · · · · · · · · · · · · ·
		77- kt				
	Total 10	(To be continued)		Total Labour	30	Total 27 19

7.3	working ganger	ıs equivaten	t to ordinary	y worker in the	trade in	which
he	is employed or.	if the trade	is not listed.	truck driver		
(re	fer to GS Table	(1.1)				

Day's record and instructions checked and agreed

Signed:

Engineer's Representative

Name/Post: Eddie Luk/Resident Engineer

Date:

Signed:

Contractor's Representative

Wong Ching Lung / Site Agent

Signed:

Date:

IOW

Tso Sai Kuen / Inspector of Works

Date:

3--7-20N

Idling Code:

Contract No.: DC/2009/22 Date: 27/07/2012

Day: Friday

a Breakdown b Standby

e Bad Weather f Task Completed g No Operator

c Awaiting Instruction d Assemble/Disassemble

h Not Required i Sunday/Public Holiday

Time	Location	Activity	Labour				Pla	nt				Material De	livered
						Туре	Wo	rking	T	Idling		Description	Quantity
			Trade	Code	No.		No.	ID	No.	ID	Code		
	Area A - DN1800 Stormwater Drain	No activity as per KLKJV arrangement										***************************************	
													1
08:00 - 18:00	Area A - Pump Station	Driving sheetpiles for shoring and excavation of Ø1200 pipe trench between manhole MH06~box culvert bay 20  Backfilling between walls of pump station and discharge chamber along GL-B to formation level General housekeeping and miscellaneous works  Cleaning up sediments from wheel washing bay	Labourer (female)	C406	3	Backhoe				EX28	ħ		
			Labourer (male)	C406	5	Backhoe	1	EX50					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	Į	Backhoe with Vibrating Hammer	1	EX47				***************************************	
			Plant and Equipment Operator (Hoist and Crane)	C334	I	Dump Truck	1	1	<b>†</b>	1			
			Truck Driver	C349	l	Oxy-Acetylene	1		1				
						Steel Bending Machine	1	1	3	1	h		
						Water Pump 50mm	2		1	1			
						Water Pump 75mm	1		T	1			
						Welding Set	1	1	1	<del> </del>	h		1
									1				
08:00 - 18:00	Area A - Pump Station	Installing lighting and fixing surface mounted cable conduits at switchroom Fabricating GMS angle frame for cable trench cover at switchroom	Labourer (male)	C406	4	Electric Drill	2						
			Metal Worker	C328	2	Welding Set	]						
	Area A - Pump Station - Box Culvert	No activity as per KLKJV arrangement										, , , , , , , , , , , , , , , , , , , ,	
07:00 - 18:00	A Ti- V.I.B. I												
18:00 - 20:00	Area A - 1 ing Kok Koad	Manual control of "stop/go" sign for traffic flow regulation (3 F/Lab.)  Manual control of temporary traffic light for traffic flow regulation (1 F/Lab.)	Labourer (female)	C406	3								
	Ann A Tine Kal Dani	N YYYNY											
	(CH70-125)	No activity as per KLKJV arrangement				Backhoe			1	EX36	h		
						Oxy-Acetylene	1		1		h		
						Water Pump 50mm	2						
				_		Welding Set	<u> </u>	<u> </u>	1	-	h		
	Area A - Ting Kok Road (Intake Structure)	No activity as per KLKJV arrangement				Water Pump 50mm	1						
	D												
	Area B - Tung Tsz Nursery (CH00-CH40)	No activity as per KLKJV arrangement											
								1				· · · · · · · · · · · · · · · · · · ·	

Day's record and instructions checked and agreed						
Original - ER's File Duplicate - Contractor	Signed:		Signed:		Signed:	200
	En	gineer's Representative		Contractor's Representative		IOW
	Name/Post:	Eddie Luk/Resident Engineer		Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
	Date:		Date:		Date:	30-7-2012

Idling Code:

Contract No.: DC/2009/22 Date: 27/07/2012

Day: Friday

a Breakdown b Standby

e Bad Weather f Task Completed g No Operator

c Awaiting Instruction d Assemble/Disassemble

h Not Required i Sunday/Public Holiday

Time	Location	Activity	Labour				Pla	nt				Material De	livered
						Туре	Wo	rking		Idling		Description	Quantity
			Trade	Code	No.		No.	ID	No.	1D	Code		
8:00 - 18:00	Area B - Tung Tsz Nursery (CH130-CH280	Bay 10~13 - General housekeeping and dewatering from box culvert trench	Labourer (male)	C406	I	Backhoe			1	EX25	h		
						Generator	1	<b>†</b>	1				1
·····						Oxy-Acetylene		1	2	T	h	***************************************	1
						Water Pump 50mm	1						1
			:			Water Pump 75mm	1						
<del></del>						Welding Set			2		h		
:00 - 18:00	Area B - Tung Tsz	General housekeeping & cleaning up sediments from wheel washing bay	Labourer (male)	C406	1	Backhoe		EX08					
	Nursery (CH40-CH130)	Backfilling to form site access with rockfill materials					Î	132.00					
			Plant & Equipment Operator (Earthmoving Machinery)	C333		Dump Truck	1						
			Truck Driver	C349	1	Water Pump 50mm	1						
						Water Pump 75mm	I						
00 10.00	A B T								<u> </u>	<u> </u>			
00 - 18:00	Area B - Tung Tsz Nursery (Jacking Pit)	Setting up desilting tank for grouting operation General housekeeping	Labourer (male)	C406		Air Compressor			1	AC04	h		
			Plant and Equipment Operator (Hoist and Crane)	C334	1	Coring Machine			2		h		
						Crane Lorry	1						
						Grout Machine			J		h		
						Water Pump 50mm	1						
00 10 00													
00 - 18:00	Area E - Siu Lek Yuen Rd.Playground	Driving sheetpiles for shoring of launching pit	Labourer (male)	C406	2	Backhoe	1	EX21					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Generator	1						
						Oxy-Acetylene	1		1		h		
						Water Pump 50mm	ŀ						
						Water Pump 75mm	1						
						Welding Set			1		h		
	Rest Garden	No activity as per KLKJV arrangement											
	Area G - Ngan Shing St.	No activity as per KLKJV arrangement								<u> </u>			
···				1				<u> </u>					
	Area I - Contractor Office	No activity as per KLKJV arrangement											

Day's record and instructions checked and agreed				
Original - ER's File				
Duplicate - Contractor	Signed: Engineer's Representative	Signed:  Contractor's Representative	Signed:	IOW
	Name/Post: Eddie Luk/Resident Engineer	Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
	Date:	Date:	Date:	30-7-2012

Client Department: Drainage Services Department

Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

Contractor: KWAN LEE - KULY JOINT VENTURE

Weather: <u>AM</u>

Typhoon / Warning Signal:

Contract No.: DC/2009/22 Date: 28/07/2012

Shower

<u>PM</u> Fine Rainfall (mm) ST2, TP 10

Tunderstorm Warning - 11:00~13:30

Day: Saturday

(Hong Kong Observatory's record)

Instructions to Contractor	Contractor's Site Staff No.	Labour	Code No.	Labour	Code N	o. Plant
(Record verbal instructions given)	Assistant Surveyor 1	Asphalter (Other Construction)	C202	Chairman	CART	Thurs. 31-33-31 - 31-31
	Chainman 3	Asphalter (Roadworks)	C301 C302	Chainman Concreting Labourer	C401	Type No. Working No. Id
	Community Liaison Officer	Bamboo Scaffolder	C303	Diver's Linesman / Dredger Crew / Barge Crew	C402 C403	Air Compressor 1 Backhoe 5 1
	CEG 1	Bar Bender & Fixer	C304	Excavator	C404	Coring Machine 2
	Contract Manager 1	Bricklayer	C305	Heavy Load Labourer	C405	Dump Track 1
Comments by Engineer's / Contractor's Representative	Engineer	Camenter (Fender)	C306	Labourer (male / female) / Lorry checker / Watchman Office attend		
	Environmental Officer 1	Carpenter (Fornwork)	C307 3	Sewerman	C407	Grab Lorry 1
	Foreman/Assistant Foreman 2	Concrete Repairer	C308	Automation Equipment Mechanic	E301	Grout Machine
	General Foreman 1	Concretor	C309	Building Services Mechanic	E302	Oxy-Acetylene 3 3
	Labour Officer	Construction Plant Mechanic	C310	Cable Jointer (Power)	E303	Steel Bending Machine 3
	Land Surveyor	Curtain Wall Installer	C311	Carpenter	E304	Water Pump 50mm 9
	Project Director	Demolition Worker	C312	Electrician/Electrical Fitter	E305	Water Pump 75mm 4
<u>Utilities</u>	Project Manager 2	Diver	C313	Fire Services Mechanic	E306	Welding Set 1 4
(Record location & nature of works)	Project Quantity Surveyor 1	Drainlayer	C314	Instrument Mechanic	E307	
	Quantity Surveyor	Electrician (Main Contractor's)	C315	Lift Electrician	E308	
	Safety Officer 1	Floor Layer	C316	Lift Mechanic	E309	
	Site Agent 1	Gas Plumber	C317	Mechanical Fitter	E310	
	Surveyor 1	General Welder	C318 1	Overhead Linesman	E311	
		Glazier	C319	Painter	E312	
		Ground Investigation Operator/Driller/Borer	C320	Plumber and Pipe Fitter	E313	
		Grouting Worker	C321	Refrigeration/AC/Ventilation Mechanic	E314	
	:	Joiner	C322	Sheet Metal Worker	E315	
		Leveller	C323	Sign Fabricator	E316	
	1	Marble Worker	C324	Sign Installer	E317	
		Marine Construction Plant Operator	C325	Thermal Insulation Craftsman	E318	
Progress	<b></b>	Mason	C326	Welder	E319	
(Mention briefly any matter delaying or obstructing progress)	<b>   </b>	Metal Scaffolder	C327	Labourer	E401	and the second of the second o
		Metal Worker	C328	Semi-skilled Worker	E402	
		Painter & Decorator	C329	Technician	T	
		Piling Operative	C330			
		Pipelayer	C331			
Visitor		Plant and Equipment Operator (Builder's Lift and Other Machinery)	C332		<del></del>	
(Record names of visitors and time of visit)	<b>-  </b>   2	Plant & Equipment Operator (Earthmoving Machinery)	C333 5		4	
	<b> </b>	Plant and Equipment Operator (Hoist and Crane)	C334 1			
		Plant and Equipment Operator (Piling)	C335			
		Plant and Equipment Operator (Tunnelling)	C336			
	A	Plasterer	C337		· · · · · · · · · · · · · · · · · · ·	
		Plumber Pneumatic Driller	C338		4	
<u>Accidents</u>			C339 C340			
(Describe any occurance of accident)		Prestressing Operative Rigger/Metal Formwork Erector	C340	1	<u>i</u> i	
		Shotcretor				
	····	Shotfirer	C342 C343			
		Slope Maintenance Worker	C344			
	11	Structural Steel Erector	C345			
Remarks		Structural Steel Welder	C346			
a A - Backhoe EX47 off site	<b>7</b>	Tiler	C347			
	1	Trackworker	C348	1		
		Truck Driver / Coxswain / Barge Engineer / Working Ganger*	C349 1			
		Window Frame Installer	C350		·ii	
	Total 20					
		······	† ····		1 1	
	Assistance to Engineer No.	,,			1	
	Amah I					
	Coordinate Engineer		<u> </u>			
	Drafting Assistant 1		:			
	Driver 2					
	Field Assistant 3					
	Office Assistant 1					
	Watchman 1					
	Total 10	(To be continued)	1	Total Labour	3	9 Total 28 13

* Working ganger is equivalent to ordinary worker in the trade in which
he is employed or, if the trade is not listed, truck driver
(refer to GS Table 1.1)

Day's record and instructions checked and agreed

Signed:

Date:

Engineer's Representative

Name/Post: Eddie Luk/Resident Engineer

Date:

Signed:

Signed:

IOW

Tso Sai Kuen / Inspector of Works

Original - ER's File

Duplicate - Contractor

Contractor's Representative

Wong Ching Lung / Site Agent

Date:

30-7-2012

Idling Code:

b Standby

c Awaiting Instruction

d Assemble/Disassemble

Contract No.: DC/2009/22 Date: 28/07/2012

Day: Saturday

a Breakdown e Bad Weather f Task Completed

g No Operator

h Not Required i Sunday/Public Holiday

Time	Location	Activity	Labour Piant			Material De	livered						
						Туре	Wo	rking		Idling		Description	Quantity
			Trade	Code	No.		No.	IĐ	No.	ID	Code		
	Area A - DN1800 Stormwater Drain	No activity as per KLKJV arrangement											
08:00 - 18:00	Area A - Pump Station	Drawing cables through surface conduits at transformer room	Labourer (male)	C406	3								
					<u> </u>				<u> </u>	<u> </u>			
08:00 - 18:00	Area A - Pump Station	Fornwork shuttering for roof slab, beams and parapet wall of store room Backfilling between walls of pump station and discharge chamber along GL-B to formation level General housekeeping and miscellaneous works Cleaning up sediments from wheel washing bay (2 M/Lab., 2 P/Opt., 1 Grab Lorry woking at P.M. only (from intake Structure))	Carpenter (Formwork)	C307	3	Backhoe			1	EX28	h		
·	:		Labourer (female)	C406	3	Backhoe	1	EX50					
			Labourer (male)	C406	4	Dump Truck	1						
<u> </u>			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Oxy-Acetylene	1						
			Truck Driver	C349	1	Steel Bending Machine			3		h		
						Water Pump 50mm	2						
						Water Pump 75mm	1						
						Welding Set			1		h		
	Area A - Pump Station - Box Culvert	No activity as per KLKJV arrangement											
07:00 - 18:00	Anna A Tina Kale Band	Manual control of "stop/go" sign for traffic flow regulation (3 M/Lab.)		1 2407	<u> </u>		<del> </del>	<u> </u>	ļ	<u> </u>			
18:00 - 20:00	Area A - Ting Nok Road	Manual control of 'stopigo' sign for traffic flow regulation (3 M/Lab.)  Manual control of temporary traffic light for traffic flow regulation (1 F/Lab.)	Labourer (female)	C406	3		<u> </u>	<u> </u>	ļ				
00.00 10.00	1 1 T' 1 D 1							<u> </u>		<u> </u>			
08:00 - 18:00	(CH70-125)	Excavating for Ø2100 pipe trench at Ch. 70-120 and fabricating 1st & 2nd layer I-beam walings & struts for shoring	General Welder	C318	1	Backhoe	1	EX36					
			Labourer (male)	C406	3	Oxy-Acetylene	1	<b>†</b>	<del>                                     </del>		1		
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Water Pump 50mm	2	1					
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						Welding Set	j	<b>†</b>	<b>†</b>	<b>†</b>			
				1	<b></b>			<b>†</b>			1		
08:00 - 12:00	Area A - Ting Kok Road (Intake Structure)	Removal of debris at bar screen of existing box culvert at Wai Ha River Estuary (VO#04)	Labourer (male)	C406	2	Backhoe	1	EX25					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Grab Lorry	1						
			Plant and Equipment Operator (Hoist and Crane)	C334	1	Water Pump 50mm	1						
	Anna D. Trous - Tro-	N						<u> </u>	<b> </b>				
	Area B - Tung Tsz Nursery (CH00-CH40)	No activity as per KLKJV arrangement											
08:00 - 18:00	Area B - Tung Tsz	Bay 10~13 - General housekeeping and dewatering from box culvert trench	Labourer (male)	C406	1	Generator	1		<u> </u>	<u> </u>			
10100	Nursery (CH130-CH280)	and the second industricting and deviationing from the current ficing	Labourd (maio)	1 .400	1	OCHERAIOI	1						

reasely (C17130-C11200)							 ł		1	1		- 1	
Day's record and instructions checked and agreed							menteriorismo marionismo ser						
Original - ER's File										7_			
Duplicate - Contractor	Signed:		Signed:				Signe	d: (				-	
	E	'ngineer's Representative		Contra	ctor's I	Representative				IOW			
	Name/Post:	Eddie Luk/Resident Engineer		Wong (	Ching Lu	ing / Site Agent		Ts	so Sai Kue	I / Inspe	ctor of Works		
	Date:		Date:				Date:			-7-	2012		

Labourer (male)

Plant & Equipment Operator (Earthmoving Machinery)

Water Pump 75mm Welding Set

Water Pump 50mm

Backhoe

C406

C333

Contract No.: DC/2009/22 Date: 28/07/2012

Idling

2

EX08

ID Code

Day: Saturday

Material Delivered

Quantity

Description

a Breakdown e Bad Weather f Task Completed b Standby c Awaiting Instruction g No Operator

						Assemble/Disassemble	h Not Required i Sunday/F	rired	liday
1e	Location	Activity	Labour			T	Pla	nt	
						Туре	Wo	rking	T
			Trade	Code	No.		No.	IĐ	No.
						Oxy-Acetylene		<b>T</b>	2
						Water Pump 50mm	1	I	T

Time

08:00 - 18:00

Area B - Tung Tsz Nursery (CH40-CH130) General housekeeping & cleaning up sediments from wheel washing bay Forming site access with rockfill materials

	·														
8:00 - 18:00 A1 Ni	rea B - Tung Tsz lursery (Jacking Pit)	Coring holes for grouting to pipe jacking rou- Setting up grouting machine and general hou	te sekeeping		Labourer (male)	C406	5	Air Compressor			1	AC04	h		
								Coring Machine	2						
j								Grout Machine			1		h		
						1	<u> </u>	Water Pump 50mm	1						
							i -						<del></del>		
8:00 - 18:00 Ar Rd	rea E - Siu Lek Yuen d.Playground	Driving sheet piles for shoring of launching p	it		Labourer (male)	C406	2	Backhoe	Į.	EX21				·	
					Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Generator	1						
			* <del>.</del>				<del></del>	Oxy-Acetylene	1		1		h		
						<del></del>		Water Pump 50mm	1	ļ				***************************************	
						<del></del>	<del></del>	Water Pump 75mm	1	-					
			······································				<u> </u>	Welding Set	<u> </u>		1			······	
					<u> </u>		<u> </u>	weiging set	<del>                                     </del>		1	ļ	h		
	rea F - Lek Viven Street	No activity as per KLKJV arrangement			<u> </u>	_	<u> </u>		<u> </u>						
Re	est Garden	activity as per KLKS v arrangement													
						1	<del> </del>		<del> </del>						
Ar	rea G - Ngan Shing St.	No activity as per KLKJV arrangement					ļ		<u> </u>						
			······································			-				<del>  </del>					
Ar	rea I - Contractor	No activity as per KLKJV arrangement				_	-								
Of	ffice	The detivity as per represent a management				İ									
Day's record and instructi	tions checked and agreed														
Original - ER's File	tions checked and agreed												70		
	tions checked and agreed		Signed:	Engineer's Representative	Signed:	Contro	actor's	Representative		Signed			IOW		
Original - ER's File	tions checked and agreed			Engineer's Representative  Eddie Luk/Resident Engineer	Signed:			Representative		Signed			IOW	etor of Works	
Original - ER's File	tions checked and agreed				Signed: Date:					Signed Date:	T:	so Sai Ku	IOW en / Inspec	•	

Client Department: Drainage Services Department

Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

Contractor: KWAN LEE - KULY JOINT VENTURE

Weather:  $\underline{\mathbf{A}\mathbf{M}}$ 

Fine

Duplicate - Contractor

Typhoon / Warning Signal:

Rainfall (mm)

ST 0, TP 0

Very Hot Weather Warning - 15:05~24:00

Day: Sunday

Contract No.: DC/2009/22 Date: 29/07/2012

<u>PM</u>

Fine

(Hong Kong Observatory's record)							
Instructions to Contractor (Record verbal instructions given)	Contractor's Site Staff No.	Labour	Code No.	Labour	Code No.	Plant	
(Record verbal instructions given)	<b>   </b>	Asphalter (Other Construction)	C301	Chainman	C401	Type	No. Working No. Idle
	_	Asphalter (Roadworks)	C302	Concreting Labourer	C402	Air Compressor	1 I I
		Bamboo Scaffolder	C303	Diver's Linesman / Dredger Crew / Barge Crew	C403	Backhoe	6
		Bar Bender & Fixer	C304	Excavator	C404	Generator	1
		Bricklaver	C305	Heavy Load Labourer	C405	Steel Bending Machine	3
Comments by Engineer's / Contractor's Representative		Carpenter (Fender)	C306	Labourer (male / female) / Lorry checker / Watchman Office attendar	C406 4	Water Pump 50mm	6 1
		Carpenter (Formwork)	C307	Sewerman	C407	Water Pump 75mm	. 1 . 1
	<u>-</u>	Concrete Repairer	C308	Automation Equipment Mechanic	E301		
		Concretor	C309	Building Services Mechanic	E302		i
		Construction Plant Mechanic	C310	Cable Jointer (Power)	E303		
		Curtain Wall Installer	C311	Carpenter	E304		
<u>Utilities</u>		Demolition Worker	C312 C313	Electrician/Electrical Fitter	E305		
(Record location & nature of works)		Diver Drainlayer	C314	Fire Services Mechanic Instrument Mechanic	E306 E307		······································
		Electrician (Main Contractor's)	C315	Lift Electrician	E307 E308		
	-11	Floor Layer	C316	Lift Mechanic	E309		<u></u>
		Gas Plumber	C317	Mechanical Fitter	E310		
		General Welder	C318	Overhead Linesman	E311		Ī
		Glazier	C319	Painter	E312		
		Ground Investigation Operator/Driller/Borer	C320	Plumber and Pipe Fitter	E313		
		Grouting Worker	C321	Refrigeration/AC/Ventilation Mechanic	E314		
		Joiner	C322	Sheet Metal Worker	E315		
		Leveller	C323	Sign Fabricator	E316		
		Marble Worker	C324	Sign Installer	E317		į
***	_	Marine Construction Plant Operator	C325	Thermal Insulation Craftsman	E318	<b></b>	
Progress (Marie Lie 2)		Mason	C326	Welder	E319		
(Mention briefly any matter delaying or obstructing progress)	<b>-</b>	Metal Scaffolder	C327	Labourer	E401		
		Metal Worker	C328	Semi-skilled Worker	E402		
		Painter & Decorator Piling Operative	C329 C330	Technician	T		
		Pipelayer	C331				
		Plant and Equipment Operator (Builder's Lift and Other Machinery)	C332				· · · · · · · · · · · · · · · · · · ·
Visitor	:	Plant & Equipment Operator (Earthmoving Machinery)	C333		<del> </del>		
(Record names of visitors and time of visit)	<b> </b>	Plant and Equipment Operator (Hoist and Crane)	C334	<b>   </b>	1		
		Plant and Equipment Operator (Piling)	C335				-
		Plant and Equipment Operator (Tunnelling)	C336				
		Plasterer	C337				
		Plumber	C338			11	
Accidents		Pneumatic Driller	C339				
(Describe any occurance of accident)		Prestressing Operative	C340		<u> </u>	, , ,	
		Rigger/Metal Formwork Erector	C341				
		Shotcretor	C342		÷-		
		Shotfirer Slope Maintenance Worker	C343 C344		<u>i                                     </u>	4	
		Structural Steel Erector	C344 C345				
Remarks		Structural Steel Welder	C346		·		
		Tiler	C347				
		Trackworker	C348				
		Truck Driver / Coxswain / Barge Engineer / Working Ganger*	C349				
		Window Frame Installer	C350				
	Total						<u> </u>
	Assistance to Engineer No.						
						11.	
	Driver 1	,					
	Watchman 1		-		<u> </u>	<b>4 1</b>	
					÷ :		
		· · · · · · · · · · · · · · · · · · ·				1	
			ii		······································	1	
			1 1				
	Total 2	(To be continued)		Total Labour		Total	7 13
		HAN NA AVERNANCE		13 Vini Ligova	······································	1 UVNG	

he is employed or, if the trade is not listed, truck driver	Signed:	Signed:	Signed:
(refer to GS Table 1.1)  Day's record and instructions checked and agreed	Engineer's Representative	Contractor's Representative	IOW
May 5 econu anu instructivits criticaeu ana agreeu	Name/Post: Eddie Luk/Resident Engineer	Wong Ching Lung / Site Agent	Tso Sai Kuen / Inspector of Works
Original - ER's File	Date:	Date:	Date: 30-7-2012

Sheet 1 of 3

Idling Code:

Contract No.: DC/2009/22 Date: 29/07/2012

Day: Sunday

a Breakdown b Standby

e Bad Weather f Task Completed

c Awaiting Instruction

g No Operator

d Assemble/Disassemble h Not Required

Time	Location	Location Activity Labour					Pla	nt				Material Delivered		
						Туре	Wo	rking		Idling		Description	Quantity	
4-14-14-14-14-14-14-14-14-14-14-14-14-14			Trade	Code	No.		No.	ID	No.	ID	Code			
	Area A - DN1800 Stormwater Drain	No activity as per KLKJV arrangement												
	<u> </u>								1					
	Area A - Pump Station	No activity as per KLKJV arrangement				Backhoe			1	EX28	j			
						Backhoe			1	EX50	i			
·····						Steel Bending Machine			3		i			
						Water Pump 50mm	2							
						Water Pump 75mm	1							
	A Para Control													
	Area A - Pump Station - Box Culvert	No activity as per KLKJV arrangement		-										
7:00 - 18:00 8:00 - 20:00	Area A - Ting Kok Road	Manual control of "stop/go" sign for traffic flow regulation (3 F/Lab.)  Manual control of temporary traffic light for traffic flow regulation (1 M/Lab. from area I)	Labourer (female)	C406		Backhoe			1	EX25	i			
			<u> </u>		1	Backhoe			1	EX36	i			
			:			Water Pump 50mm	2			ŀ				
						*****								
	Area A - Ting Kok Road (Intake Structure)	No activity as per KLKJV arrangement				Water Pump 50mm	1							
	Area B - Tung Tsz Nursery (CH130-CH280)	No activity as per KLKJV arrangement				Backhoe			1	EX08	i			
	Area B - Tung Tsz Nursery (CH40-CH130)	No activity as per KLKJV arrangement				Water Pump 50mm			I		1			
						Water Pump 75mm			1		i			
	Area B - Tung Tsz Nursery (Jacking Pit)	No activity as per KLKJV arrangement				Air Compressor			1	AC04	i			
						Water Pump 50mm	1							
	Area C - Shallow	No activity as per KLKJV arrangement					-		<u> </u>	<b></b>				
	Marshy Area	NO activity as per KLKJ v arrangement												
	Area E - Siu Lek Yuen	No activity as per KLKJV arrangement				Backhoe	<del> </del>		1	EVOI		***************************************		
	Rd.Playground	The state of the s							'	EX21	i			
						Generator		<u> </u>	1		i	· · · · · · · · · · · · · · · · · · ·		
W	Aren E Lek Vuon Ct	No postivisti no more VI VIV prema pom past												
	Rest Garden	No activity as per KLKJV arrangement												

Rest Garden			
Day's record and instructions checked and agreed			
Original - ER's File Duplicate - Contractor	Signed: Engineer's Representative	Signed:  Contractor's Representative	Signed: IOW
	Name/Post: Eddie Luk/Resident Engineer	Wong Ching Lung / Site Agent	Tso Sai Kuen / Inspector of Works
	Date:	Date:	Date: 30-7-2012

Idling Code:

Contract No.: DC/2009/22 Date: 29/07/2012

Day: Sunday

a Breakdown

e Bad Weather b Standby f Task Completed

c Awaiting Instruction

g No Operator

d Assemble/Disassemble h Not Required

Time	Location	Activity	Labour				Pla	ıŧ				Material De	livered
						Туре	Wo	rking	T	Idling		Description	Quantity
			Trade	Code	No.		No.	ID	No.	ID	Code		
	Area G - Ngan Shing St.	No activity as per KLKJV arrangement											
08:00 - 18:00	Area I - Contractor Office	Office cleaning and site patrol	Labourer (male)	C406	1								

Original - ER's File						
Duplicate - Contractor	Signed:		Signed:		Signed:	(696
	En	gineer's Representative		Contractor's Representative		IOW
	Name/Post:	Eddie Luk/Resident Engineer		Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
	Date:		Date:		Date:	30-7-2012

Client Department: Drainage Services Department

Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

Contractor: KWAN LEE - KULY JOINT VENTURE

Weather:

Typhoon / Warning Signal:

 $\underline{\mathbf{AM}}$  $\underline{PM}$ Fine Fine

Rainfall (mm) ST 0, TP 0

Very Hot Weather Warning - 00:00~24:00

Day: Monday

Contract No.: DC/2009/22 Date: 30/07/2012

(Hong Kong Observatory's record)

Instructions to Contractor	Contractor's Site Staff No.	Labour	Code	No.	Labour	Codo No	
(Record verbal instructions given)	Contractor 5 Site Stari	Labout	Coue	140.	Padoni	Code No.	Plant
	Assistant Surveyor 1	Asphalter (Other Construction)	C301		Chainman	C401	Type No. Working No. Id
	Chainman 3	Asphalter (Roadworks)	C302		Concreting Labourer	C402	Air Compressor
	Community Liaison Officer 1	Bamboo Scaffolder	C303		Diver's Linesman / Dredger Crew / Barge Crew	C403	Backhoe 4 2
	CEG 1	Bar Bender & Fixer	C304		Excavator	C404	Coring Machine 2
	Contract Manager 1	Bricklayer	C305		Heavy Load Labourer	C405	Crane Lorry 1
Comments by Engineer's / Contractor's Representative	Engineer	Carpenter (Fender)	C306		Labourer (male / female) / Lorry checker / Watchman/Office attendan	C406 29	
	Environmental Officer 1	Carpenter (Fornwork)	C307	4	Sewennan	C407	Generator 2
	Foreman/Assistant Foreman 2	Concrete Repairer	C308		Automation Equipment Mechanic	E301	Grout Machine
	General Foreman	Concretor	C309		Building Services Mechanic		
	Labour Officer 1	Construction Plant Mechanic	C310		Cable Jointer (Power)	E302	Oxy-Acetylene 3 3
	Land Surveyor	Curtain Wall Installer			* · · · · · · · · · · · · · · · · · · ·	E303	Steel Bending Machine 3
	Project Director 1	Demolition Worker	C311		Carpenter	E304	Water Pump 50mm 8
<u>Utilities</u>	Project Manager 2		C312		Electrician/Electrical Fitter	E305	Water Pump 75mm 4
(Record location & nature of works)	Project Manager 2	Diver	C313		Fire Services Mechanic	E306	Welding Set 2 3
	Project Quantity Surveyor 1	Drainlayer	C314		Instrument Mechanic	E307	
	Quantity Surveyor	Electrician (Main Contractor's)	C315	. [	Lift Electrician	E308	
	Safety Officer	Floor Layer	C316		Lift Mechanic	E309	
	Site Agent	Gas Plumber	C317		Mechanical Fitter	E310	
	Surveyor 1	General Welder	C318	2	Overhead Linesman	E311	
		Glazier	C319		Painter	E312	
		Ground Investigation Operator Driller/Borer	C320	. ]	Plumber and Pipe Fitter	E313	
		Grouting Worker	C321		Refrigeration/AC/Ventilation Mechanic	E314	
		Joiner	C322		Sheet Metal Worker	E315	:
		Leveller	C323		Sign Fabricator	E316	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		Marble Worker	C324		Sign Installer	E317	
		Marine Construction Plant Operator	C325	. 1	Thermal Insulation Craftsman	E318	
Progress	:	Mason	C326		Welder	E319	
(Mention briefly any matter delaying or obstructing progress)		Metal Scaffolder	C327	. 1	Labourer	E401	
		Metal Worker	C328	2	Semi-skilled Worker	E402	
		Painter & Decorator	C329		Technician		
		Piling Operative	C330		1 ECHRICIAN	Т	
		Pipelayer		· · · · · · · · · · · · · · · · · · ·			
		Plant and Equipment Operator (Builder's Lift and Other Machinery)	C331				
Visitor							The state of the s
(Record names of visitors and time of visit)		Plant & Equipment Operator (Earthmoving Machinery)	C333	. 4			
		Plant and Equipment Operator (Hoist and Crane)	C334				
		Plant and Equipment Operator (Piling)	C335				
		Plant and Equipment Operator (Tunnelling)	C336	[			
		Plasterer	C337				
		Plumber	C338				
Accidents		Pneumatic Driller	C339				
(Describe any occurance of accident)		Prestressing Operative	C340				
		Rigger/Metal Formwork Erector	C341			:	
		Shotcretor	C342				
		Shotfirer	C343	1		1	
	<u> </u>	Slope Maintenance Worker	C344			:	
		Structural Steel Erector	C345	. ]			
<u>Remarks</u>		Structural Steel Welder	C346				
		Tiler	C347	1			
		Trackworker	C348				
		Truck Driver / Coxswain / Barge Engineer / Working Ganger*	C349				
		Window Frame Installer	C350				
	Total 19	Window Frame motation				·····	
		and the second s	: :	1			
	Assistance to Engineer No.	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
	Arnah		+				
	Amah 1						
	Coordinate Engineer 1					······································	<b></b>
	Drafting Assistant 1	#		[			
	Driver 2		4				
	* <b>i</b>						
	Field Assistant 2						
	Office Assistant 1						

* Working ganger is equivalent to ordinary worker in the trade in which he is employed or, if the trade is not listed, truck driver (refer to GS Table 1.1)
Day's record and instructions checked and agreed

Signed: Engineer's Representative

Contractor's Representative

IOW

Name/Post: Eddie Luk/Resident Engineer

Wong Ching Lung / Site Agent

Tso Sai Kuen / Inspector of Works

Original - ER's File Duplicate - Contractor Date:

Date:

Signed:

Date:

Signed:

31-7-2012

Idling Code:

Contract No.: DC/2009/22 Date: 30/07/2012

Day: Monday

a Breakdown b Standby

f Task Completed g No Operator

e Bad Weather

c Awaiting Instruction d Assemble/Disassemble

h Not Required

Time	Location	Activity	Labour		·····		Pla	nt				Material De	livered
						Type	Wo	rking		Idling		Description	Quantity
			Trade	Code	No.		No.	ID	No.	ID	Code		
	Area A - DN1800 Stormwater Drain	No activity as per KLKJV arrangement											
08:00 - 18:00	Area A - Pump Station	Drawing cables through surface conduits for electrical appliance at transformer room Fabricating angle frames for GMS cable trench cover and installing 2nos. Louvre (L1) at switchroom	General Welder	C318	1	Electric Drill	2						
			Labourer (male)	C406	3	Welding Set	1						
			Metal Worker	C328	2			1					
					1			1	1	1		· · · · · · · · · · · · · · · · · · ·	
08:00 - 18:00	Area A - Pump Station	Formwork shuttering for walls and fixing tubular brace for falsework at store room  Backfilling between walls along GL-B of pump station and discharge chamber to formation level  Laying blinding concrete for +3.5mPD slab between pump station and discharge chamber  General housekeeping and cleaning up sediments from wheel washing bay	Carpenter (Formwork)	C307	2	Backhoe			1	EX28	lı.		
			Labourer (female)	C406	3	Backhoe	1	EX50	1				
			Labourer (male)	C406	4	Oxy-Acetylene	$T_1$	<del> </del>	1	<del>                                     </del>		W	
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Steel Bending Machine	╅	1	1 3	+	В		
					<u> </u>	Water Pump 50mm	2	<del> </del>	╁╌	+			
					<u> </u>	Water Pump 75mm	1	+	+	+			<b>-</b>
					<del> </del>	Welding Set	+	<u> </u>	<del>                                     </del>	<del> </del>	h		
······································				+	<del> </del>	Weiding Sei	-	<del> </del>	<del>  '-</del>	┼	1		
	Area A - Pump Station - Box Culvert	No activity as per KLKJV arrangement											
				<b>T</b>	<b> </b>		<b>†</b>	1	<b>†</b>			·····	
07:00 - 18:00 18:00 - 20:00	Area A - Ting Kok Road	Manual control of "stop/go" sign for traffic flow regulation (3 F/Lab.)  Manual control of temporary traffic light for traffic flow regulation (1 F/Lab.)	Labourer (female)	C406	3								
08:00 - 18:00	Area A - Ting Kok Road (CH70-125)	Excavating for Ø2100 pipe trench at Ch. 70~120, fabricating 1st layer 1-beam eslingd & struts for shoring Forming working platform over the pipe trench at road level for deep excavation	General Welder	C318	I	Backhoe			1	EX25	h		
***************************************		by the state of th	Labourer (male)	C406	4	Backhoe	1	EX36	1	<del> </del>	+		-
			Plant & Equipment Operator (Earthmoving Machinery)	C333	ļ	Oxy-Acetylene	1 1	EASO	<del> </del>	<del> </del>	<b> </b>		
			7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7	(,333	1		1	<del> </del>	<u> </u>	·	<del>                                     </del>		
······································			<u> </u>		ļ	Water Pump 50mm	2	<b>├</b> ──	<u> </u>	<u> </u>			
						Welding Set	I	<b></b>	ļ	<b>_</b>			
	Aran A Ting Kak Bood	No activity as per KLKJV arrangement						<b></b>	<u> </u>	<u> </u>			
	(Intake Structure)	INO activity as per KLKJ v arrangement		_									
	Area B - Tung Tsz	No activity as per KLKJV arrangement					<b>.</b>	ļ	ļ	<u> </u>			
	Nursery (CH00-CH40)	INO activity as per KLKJ v arrangement											
08:00 - 18:00	Anna D. Ture Terr	D10 12 D					<b></b>	<u> </u>					
10.00 - 18:00	Area B - Tung Tsz Nursery (CH130-CH280)	Bay 10~13 - Dewatering from box culvert trench and general cleaning Repairing site hoarding damaged by typhoon	Labourer (male)	C406	4	Generator	1			İ			

lay's record and instructions checked and agreed				
riginal - ER's File				
uplicate - Contractor	Signed: Engineer's Representative	Signed:  Contractor's Representative	Signed:	IOW
	Name/Post: Eddie Luk/Resident Engineer	Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
	Date:	Date:	Date:	31.7-2012

Idling Code:

Contract No.: DC/2009/22 Date: 30/07/2012

Day: Monday

a Breakdown b Standby

e Bad Weather f Task Completed

c Awaiting Instruction

d Assemble/Disassemble

g No Operator

h Not Required	
i Sunday/Public	Holida

Time	Location	Activity	Labour				Pla	nt				Material De	livered
						Туре	Wo	rking	1	Idling		Description	Quantity
·····			Trade	Code	No.	1	No.	1D	No.	ID	Code	•	
				1		Oxy-Acetylene		<del> </del>	2	<del>                                     </del>	h		
						Water Pump 50mm	1		1	1			
						Water Pump 75mm	1						1
						Welding Set			2		h		
)8:00 - 18:00	Area B - Tung Tsz Nursery (CH40-CH130)	General housekeeping & cleaning up sediments from wheel washing bay Backfilling to from haul road with rockfill materials	Labourer (male)	C406	1	Backhoe	1	EX08					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Water Pump 50mm	1	1	1	<del> </del>			
						Water Pump 75mm	1	1	1				1
08:00 - 18:00	Area B - Tung Tsz												
76.00 - 16.00	Nursery (Jacking Pit)	Coring holes for grouting to pipe jacking route Setting up working platform for grouting operation Fixing tie bolts and walings for thrust wall construction	Carpenter (Formwork)	C307	2	Air Compressor			1	AC04	h		
			Labourer (male)	C406	3	Coring Machine	2	1		<b>†</b>			
						Grout Machine			1		h		
						Water Pump 50mm	1						
8:00 - 18:00	Area E - Siu Lek Yuen Rd.Playground	Excavating for launching pit and fabricating 1st layer walings & struts for shoring	Labourer (male)	C406	2	Backhoe	1	EX21					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Generator	1	┼	<del> </del>	<del> </del>			<del> </del>
						Oxy-Acetylene	1	<del>                                     </del>	1		h	**************************************	+
						Water Pump 50mm	1		<b>1</b>	<del>                                     </del>			1
						Water Pump 75mm	1						
	Aron E. Tole Vivor Compat	No activity as per KLKJV arrangement											
	Rest Garden	INO activity as per KLKJ v arrangement											
	Area G - Ngan Shing St.	No activity as per KLKJV arrangement						-	<u> </u>			······································	
0.00 +0.00										<b>1</b>			
8:00 - 18:00	Area I - Site Accommodation	Delivery of construction materials between various works area	Labourer (male)	C406	2	Crane Lorry	1						
			Plant and Equipment Operator (Hoist and Crane)	C334	1			1	1	1			<b>†</b>

's record and instructions checked and agreed					
ginal - ER's File					
olicate - Contractor	Signed:  Engineer's Representative	Signed:  Contractor's Representative	Signed:	10W	
	Name/Post: Eddie Luk/Resident Engineer	Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works	
	Date:	Date:	Date:	31-7-2012	
					Show lof?

Client Department: Drainage Services Department

Contract Title: Drainage Improvement Works in Shuen Wan, Tai Po - Contract 1

Contractor: KWAN LEE - KULY JOINT VENTURE

Weather: <u>AM</u>

Fine

Typhoon / Warning Signal:

Rainfall (mm)

Thunderstorm Warning - 16:05~18:50 Amber - 17:10~18:35 ST 5, TP 10

Very Hot Weather Warning - 00:00~17:10

(Hong Kong Observatory's record)

<u>PM</u>

Shower

Instructions to Contractor (Record verbal instructions given)	Contractor's Site Staff No.	Labour	Code	No.	Labour	Code No.	Plant		
(Total Total stant Surveyor 1	Asphalter (Other Construction)	C301		Chainman	C401	Type	No. Working	No. 1	
	Chainman 3	Asphalter (Roadworks)	C302		Concreting Labourer	C402	Air Compressor	, No. Working	140. 11
	Community Liaison Officer 1	Bamboo Scaffolder	C303		Diver's Linesman / Dredger Crew / Barge Crew	C403	Backhoe	A	
	CEG 1	Bar Bender & Fixer	C304	3	Excavator	C404	Coring Machine	· · · · · · · · · · · · · · · · · · ·	-4
	Contract Manager 1	Bricklayer	C305		Heavy Load Labourer	C405	Electric Drill	· · · · · · · · · · · · · · · · · · ·	
Comments by Engineer's / Contractor's Representative	Engineer	Carpenter (Fender)	C306		Labourer (male / female) / Lorry checker / Watchman Office attended	n C406 25			<del></del>
	Environmental Officer 1	Carpenter (Formwork)	C307	6	Sewerman	C407	Generator Grout Machine		
	Foreman/Assistant Foreman 2	Concrete Repairer	C308		Automation Equipment Mechanic		1	f:	1 1
	General Foreman 1	Concretor	C309		Building Services Mechanic	E301	Oxy-Acetylene	2	. 4
	Labour Officer 1	Construction Plant Mechanic	C310		Cable Jointer (Power)	E302	Steel Bending Machine		3
	Land Surveyor 1	Curtain Wall Installer				E303	Water Pump 50mm	8	
	Project Director 1	Demolition Worker	C311		Carpenter	E304	Water Pump 75mm	5	ļ
Utilities	Project Manager 2	Diver	C312		Electrician/Electrical Fitter	E305	Welding Set	I	1
(Record location & nature of works)	Project Quantity Surveyor 1	Drainiayer	C313		Fire Services Mechanic	E306			
	Quantity Surveyor	Electrician (Main Contractor's)	C314		Instrument Mechanic	E307		<u> </u>	
	Safety Officer	Floor Layer	C315		Lift Electrician	E308			<b></b>
	Site Agent	Gas Plumber	C316		Lift Mechanic	E309		· · · · · · · · · · · · · · · · · · ·	
	Surveyor 1	General Welder	C317		Mechanical Fitter	E310			÷.
	Surveyor		C318	1	Overhead Linesman	E311			
		Glazier	C319		Painter	E312			
		Ground Investigation Operator/Driller/Borer	C320		Plumber and Pipe Fitter	E313			
		Grouting Worker	C321		Refrigeration/AC/Ventilation Mechanic	E314			
		Joiner	C322		Sheet Metal Worker	E315			
		Leveller	C323		Sign Fabricator	E316			
	The second secon	Marble Worker	C324		Sign Installer	E317			
Progress		Marine Construction Plant Operator	C325		Thermal Insulation Craftsman	E318			
(Mention briefly any matter delaying or obstructing progress)	<b>-   </b>	Mason	C326		Welder	E319		· · · · · · · · · · · · · · · · · · ·	
Interest of the Art and market delaying or observed into progress)	<b>—</b>	Metal Scaffolder	C327		Labourer	E401			
		Metal Worker	C328		Semi-skilled Worker	E402			:
		Painter & Decorator	C329		Technician	Т		**	1
		Piling Operative	C330		,.,.,,.,				
		Pipelayer	C331	[					
Visitor		Plant and Equipment Operator (Builder's Lift and Other Machinery)	C332						-
(Record names of visitors and time of visit)	<b>-1</b>	Plant & Equipment Operator (Earthmoving Machinery)	C333	4		i. i.			
		Plant and Equipment Operator (Hoist and Crane)	C334						-
		Plant and Equipment Operator (Piling)	C335						
		Plant and Equipment Operator (Tunnelling)	C336					:	
		Plasterer	C337						
		Plumber	C338	]					
Accidents Accidents		Pneumatic Driller	C339						
(Describe any occurance of accident)		Prestressing Operative	C340						1
		Rigger/Metal Formwork Erector	C341						
		Shotcretor	C342						-
		Shotfirer	C343						:
		Slope Maintenance Worker	C344			: :			
		Structural Steel Erector	C345						
Remarks	<b>_                                     </b>	Structural Steel Welder	C346						:
a B - Backhoe EX29 on site		Tiler	C347	1					:
		Trackworker	C348	1				**	1.
		Truck Driver / Coxswain / Barge Engineer / Working Ganger*	C349	1					
		Window Frame Installer	C350					<del></del>	-
	Total 19					:		:	:
	Assistance to Engineer No.			1		i i i			
	registance to engineer 140.							:	
	Amah 1		1777					·	1000
	Coordinate Engineer 1			······· 1		***		anamira da da da da da da da da da da da da da	
	Drafting Assistant 1					··· <u>·</u>			100
	Driver 2		The Fr						*
	Field Assistant 2								100
	Office Assistant I		· · · · · · · · · · · · · · · · · · ·			·			
	Watchman 1			1		F			
	Total 9	(To be continued)			Total Labour	39	Trotal	00	
			<del></del>		IX VIGI LINUVUI	<u></u>	[Total		: 13

Working ganger is equivalent to ordinary worker in the trade in which he is employed or, if the trade is not listed, truck driver (refer to GS Table 1.1)  Day's record and instructions checked and agreed	Signed:  Engineer's Representative	Signed:  Contractor's Representative	Signed: Signed: 10W
	Name/Post: Eddie Luk/Resident Engineer	Wong Ching Lung / Site Agent	Tso Sai Kuen / Inspector of Works
Original - ER's File	Date:	Date:	Date: /- 1-2012
Duplicate - Contractor			

Contract No.: DC/2009/22 Date: 31/07/2012

Day: Tuesday

Idling Code:

Contract No.: DC/2009/22 Date: 31/07/2012

Day: Tuesday

a Breakdown b Standby

d Assemble Disassemble

e Bad Weather f Task Completed

c Awaiting Instruction g No Operator

h Not Required

Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area A. Dissol   Area	Time	Location	Activity	Labour				Pla	ıt				Material De	livered
Nort A - DATEON   No activity a per KLKOV attengement   Nort A - Pump Station   Pump Station							Type	Wo	rking		Idling	;	Description	Quantity
Southwester Dunits   Southwester Dunits   Southwester Dunits   Southwester   Dunits   Dunits   Southwester   Dunits				Trade	Code	No.		No.	ID	No.	ID	Code		
Ava A - Tump Station   Face writing for 01200 pipe trench between matched MISOR—box culvert by 20   Nor Bender & Fiscer   C304   3   Decidion   C305   1   DXZ   D   DXZ   D   DXZ	······································		No activity as per KLKJV arrangement											
Area A Fung Station   Security Station   Securi														
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Evolving working platform for well consisted of sizes cannow   Abstract fasting for or the rest fasting for or the rest fasting for or the rest fasting for or the rest fasting for or the rest fasting for or the rest fasting for or the rest fasting for or the rest fasting for or the rest fasting for or the rest fasting for or the rest fasting for or the rest fasting for or the rest fasting for or the rest fasting for or the rest fasting for or the rest fasting for or the rest fasting for or the rest fasting for the rest fasting for the rest fast fasting for the rest fasting for the rest fasting for the rest fasting for the rest fasting for the rest fasting for the rest fasting for the rest fasting for the rest fasting fasting fasting				<u> </u>										
Labourer (male)	3:00 - 18:00	Area A - Pump Station	Erecting working platform for wall constuction of store room Rebar fixing for roof beams RB16, RB17, RB19 & RB21 of store room	Bar Bender & Fixer	C304	3	Backhoe				EX28	h		
Part & Expansion Operation   Part & Expansion Operation (Expansion Operation (Expansion Operation (Expansion Operation (Expansion Operation (Expansion Operation Ope				Labourer (female)	C406	1	Backhoe	1	EX50					
Water Pump Stoman   2				Labourer (male)	C406	3	Oxy-Acetylene		<b>†</b>	1	1	h		
Area A - Ting Kok Road   Excavating for Q2100 pipe treach at Ch. 70 - 120. Indicating 1st layer beam values & status for (CH70-125)   From work in the treach at road level for deep excavation   Labourer (male)   C406   4 Backhoe   1 EX35   5 Image   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C407   C4				Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Steel Bending Machine	1		3	1	h		
Area A - Pump Station- Box Culvers  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area A - Ting Kok Road  Area B - Ting Tsz  Nursey (CHI) 3-CH230  Area B - Ting Tsz  Nursey (CHI) 3-CH230  Area B - Ting Tsz  Nursey (CHI) 3-CH230  Area B - Ting Tsz  Nursey (CHI) 3-CH230  Area B - Ting Tsz  Nursey (CHI) 3-CH230  Area B - Ting Tsz  Nursey (CHI) 3-CH230  Area B - Ting Tsz  Nursey (CHI) 3-CH230  Area B - Ting Tsz  Nursey (CHI) 3-CH230  Area B - Ting Tsz  Nursey (CHI) 3-CH230  Area B - Ting Tsz  Nursey (CHI) 3-CH230  Area B - Ting Tsz  Nursey (CHI) 3-CH230  Area B - Ting Tsz  Nursey (CHI) 3-CH230  Area B - Ting Tsz  Nursey (CHI) 3-CH230  Area B - Ting Tsz  Nursey (CHI) 3-CH230  Area B - Ting Tsz  Nursey (CHI) 3-CH230  Area B - Ting Tsz  Nursey (CHI) 3-CH230  Area B - Ting Tsz  Nursey (CHI) 3-CH230  Area B - Ting Tsz  Nursey (CHI) 3-CH230  Area B - Ting Tsz  Nursey (CHI) 3-CH230  Area B - Ting Tsz  Nursey (CHI) 3-CH230  Area B - Ting Tsz  Nursey (CHI) 3-CH230  Area B - Ting Tsz  Nursey (CHI) 3-CH230  Area B - Ting Tsz  Nursey (CHI) 3-CH230  Area B - Ting Tsz  Nursey (CHI) 3-CH230  Area B - Ting Tsz  Nursey (CHI) 3-CH230  Area B - Ting Tsz  Nursey (CHI) 3-CH230  Area B - Ting Tsz  Area B - Ting Tsz  Nursey (CHI) 3-CH230  Area B - Ting Tsz  N							Water Pump 50mm	2		<b>†</b>	1			
Area A - Pump Station - No activity as per KLKJV arrangement   No activity activity activity activity activity activity activity activity activity activity activity activity activity activity activity activity activity activity activity activity activity activity activity activity activity activity activity activity activity act						1	Water Pump 75mm	1		†	1	<b>1</b>	······································	
Soc Culvert					1					<del>                                     </del>	1			
Manual control of temporary traffic light for traffic flow regulation (1 F/Lab.)  Area A - Ting Kok Road (CH70-125)  Area A - Ting Kok Road (Intake Structure)  Area A - Ting Kok Road (Intake Structure)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Bay 10 - 13 - General housekeeping and dewatering from box culvert trench  Area B - Tung Tsz Nursery (CH130-CH280)  Bay 10 - 13 - General housekeeping and dewatering from box culvert trench  Carpenter (Formwork)  Carpenter (			No activity as per KLKJV arrangement											
Manual control of temporary traffic light for traffic flow regulation (1 F/Lab.)  Area A - Ting Kok Road (CH70-12S)  Area A - Ting Kok Road (Labourer (male))  Area A - Ting Kok Road (Intake Structurer)  Area A - Ting Kok Road (Intake Structurer)  Area A - Ting Kok Road (Intake Structurer)  Area B - Tung Tsz Nussery (CH01-0-CH40)  Bay 10 - 13 - General housekeeping and devatering from box culvert trench  Area B - Tung Tsz Nursery (CH130-CH280)  Bay 10 - 13 - General housekeeping and devatering from box culvert trench  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpenter (Formwork)  Carpe		<u> </u>												
Shoring Forming sheetpile working platform over the trench at road level for deep excavation  Labourer (male) C406 4 Backhoe 1 EX36  Water Pump 50mm 2 Welding Set 1 Welding Set 1 No activity as per KLKJV arrangement (Intake Structure) Area B - Tung Tsz Nursery (CH130-CH280) Ray 10 - 18-00 Area B - Tung Tsz Nursery (CH130-CH280) Bay 10 - 1a- General housekeeping and dewatering from box culvert trench Concreting for slab of site access Repairing site hoarding damaged by typhoon  Labourer (male) C406 4 Backhoe 1 EX36  Water Pump 50mm 2 Welding Set 1 1		Area A - Ting Kok Road	Manual control of "stop/go" sign for traffic flow regulation (3 F/Lab.)  Manual control of temporary traffic light for traffic flow regulation (1 F/Lab.)	Labourer (female)	C406	3								
Labourer (male)   Labourer (male)   C406   4   Backhoe   1   EX36	:00 - 18:00		shoring	General Welder	C318	1	Backhoe			Į.	EX25	h		
Plant & Equipment Operator (Earthmoving Machinery)    Plant & Equipment Operator (Earthmoving Machinery)   C33   1   Oxy-Acetylene   1			Forming sheetpile working platform over the trench at road level for deep excavation											
Area A - Ting Kok Road [Intake Structure]  Area B - Tung Tsz Nursery (CH100-CH40)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH280)  Area B - Tung Tsz Nursery (CH100-CH2	······································				C406	4	Backhoe	1	EX36					
Area A - Ting Kok Road (Intake Structure)  Area B - Tung Tsz Nursery (CH100-CH40)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH2				Plant & Equipment Operator (Earthmoving Machinery)	C333	1		1						
Area A - Ting Kok Road (Intake Structure)  Area B - Tung Tsz Nursery (CH00-CH40)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Bay 10 - 13 - General housekeeping and dewatering from box culvert trench Bay 11 - Fornwork shuttering and fixing waterstop for base slab Bay 10 - Laying blinding concrete for box culvert Concreting for slab of site access Repairing site hoarding damaged by typhoon  Area B - Tung Tsz Nursery (CH130-CH280)  Bay 10 - 13 - General housekeeping and dewatering from box culvert trench Carpenter (Fornwork)  Carpenter (Fornwork)  Carpenter (Fornwork)  Carpenter (Fornwork)							Water Pump 50mm	2						
(Intake Structure)  Area B - Tung Tsz Nursery (CH00-CH40)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Bay 10-13 - General housekeeping and dewatering from box culvert trench Nursery (CH130-CH280)  Bay 10 - Laying blinding concrete for box culvert Concreting for slab of site access Repairing site hoarding damaged by typhoon							Welding Set	1						
(Intake Structure)  Area B - Tung Tsz Nursery (CH00-CH40)  Area B - Tung Tsz Nursery (CH00-CH40)  Area B - Tung Tsz Nursery (CH130-CH280)  Area B - Tung Tsz Nursery (CH130-CH280)  Bay 10-13 - General housekeeping and dewatering from box culvert trench Nursery (CH130-CH280)  Bay 11 - Fornwork shuttering and fixing waterstop for base slab Bay 10 - Laying blinding concrete for box culvert Concreting for slab of site access Repairing site hoarding damaged by typhoon  Carpenter (Fornwork)  Carpenter (Fornwork)  Carpenter (Fornwork)  Carpenter (Fornwork)  Carpenter (Fornwork)  Carpenter (Fornwork)	***************************************													
Nursery (CH00-CH40)  Area B - Tung Tsz Nursery (CH130-CH280)  Bay 11 - Fornwork shuttering and fixing waterstop for base slab  Bay 10 - Laying blinding concrete for box culvert  Concreting for slab of site access  Repairing site hoarding damaged by typhoon  Carpenter (Fornwork)  Carpenter (Fornwork)  Carpenter (Fornwork)  Carpenter (Fornwork)  Carpenter (Fornwork)  Carpenter (Fornwork)  Carpenter (Fornwork)  Carpenter (Fornwork)  Carpenter (Fornwork)  Carpenter (Fornwork)  Carpenter (Fornwork)  Carpenter (Fornwork)  Carpenter (Fornwork)  Carpenter (Fornwork)	·	Area A - Ting Kok Road (Intake Structure)	No activity as per KI.KJV arrangement											
200 - 18:00 Area B - Tung Tsz Bay 10~13 - General housekeeping and dewatering from box culvert trench Nursery (CH130-CH280) Bay 11 - Formwork shuttering and fixing waterstop for base slab Bay 10 - Laying blinding concrete for box culvert Concreting for slab of site access Repairing site hoarding damaged by typhoon		Area B - Tung Tsz	No activity as per KLKJV arrangement								<u> </u>		***************************************	
Nursery (CH130-CH280) Bay 11 - Formwork shuttering and fixing waterstop for base slab Bay 10 - Laying blinding concrete for box culvert Concreting for slab of site access Repairing site hoarding damaged by typhoon		1 tursely (C1100-C1140)			-	<u></u>		<del> </del>			<u> </u>	1		
Concreting for slab of site access Repairing site hoarding damaged by typhoon		Nursery (CH130-CH280)	Bay 11 - Formwork shuttering and fixing waterstop for base slab	Carpenter (Formwork)	C307	3	Backhoe	I	EX08					
			Bay 10 - Laying blinding concrete for box culvert Concreting for slab of site access							-				
Labourer (male) C406 3 Generator				Labourer (male)	C406	3	Generator	1 1			1	<del>                                     </del>		<del> </del>

lay's record and instructions checked and agreed						
riginal - ER's File						$\mathcal{I}_{\mathcal{I}_{\mathcal{I}_{\mathcal{I}_{\mathcal{I}_{\mathcal{I}}}}}}$
uplicate - Contractor		igned: Engineer's Representative		Contractor's Representative	Signed:	IOW
	Name/Post:	Eddie Luk/Resident Engineer		Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
	Date:		Date:		Date:	1-8-2012

Idling Code:

Contract No.: DC/2009/22 Date: 31/07/2012

Day: Tuesday

a Breakdown b Standby

e Bad Weather f Task Completed

c Awaiting Instruction d Assemble/Disassemble g No Operator

h Not Required

Time Location	Activity	Labour	Labour			Plant						Material Delivered	
						Туре	Working		T	ldling		Description	Quantity
		Trade	Code	No.	No.	ID	No.	ID	Code	İ			
			Plant & Equipment Operator (Earthmoving Machinery)	C333	1	Oxy-Acetylene			2		h	·	
						Water Pump 50mm	1				1		
						Water Pump 75mm	1						
08:00 - 18:00 Area B - Tung Tsz General housel Nursery (CH40-CH130)	General housekeeping & cleaning up sediments from wheel washing bay	Labourer (male)	C406	1	Backhoe				EX29	h			
						Water Pump 50mm	1						
						Water Pump 75mm	1						
00.00 10.00													
08:00 - 18:00 Area B - Tung Tsz Nursery (Jacking Pit)	Area B - Tung Tsz Nursery (Jacking Pit)	Coring holes for grouting to pipe jacking route Setting up working platform for grouting operation Formwork shuttering for thrust wall	Carpenter (Formwork)	C307	3	Air Compressor	W-12-4W-12-4W-12-4W-12-4W-12-4W-12-4W-12-4W-12-4W-12-4W-12-4W-12-4W-12-4W-12-4W-12-4W-12-4W-12-4W-12-4W-12-4W			AC04	h		
			Labourer (male)	C406	4	Coring Machine	2					7-1-7-7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
						Grout Machine			1	T	h		
<del>***</del>						Water Pump 50mm	1						
						Water Pump 75mm	1						
08:00 - 18:00 Area E - Siu Lek Yu Rd.Playground	Area E - Siu Lek Yuen Rd.Playground	PL 1602.1 - trench excavation for drain pipe and fabricating 1st layer walings & struts for shoring	Labourer (male)	C406	2	Backhoe	1	EX21					
			Plant & Equipment Operator (Earthmoving Machinery)	C333	i	Generator	1						
						Oxy-Acetylene	1		1		h		
						Water Pump 50mm	1						
						Water Pump 75mm	1		<u> </u>				
					ļ	Welding Set		ļ	1		h		
Area F - Lek Yuen S	Area F - Lek Yuen Street	No activity as per KLKJV arrangement					_						
	Rest Garden			-			_	<u> </u>	<b> </b>				<u></u>
	Area G - Ngan Shing St.	No activity as per KLKJV arrangement							<del> </del>	<del> </del>	╂		
			1	1		<u> </u>	-		-	+	++		
)8:00 - 18:00	Area I - Contractor Office	Office cleaning	Labourer (male)	C406	1			1		1			

y's record and instructions checked and agreed						
iginal - ER's File		agineer's Representative	Signed:	Contractor's Representative	Signed:	IOW IOW
	Name/Post:	Eddie Luk/Resident Engineer		Wong Ching Lung / Site Agent		Tso Sai Kuen / Inspector of Works
	Date:		Date:		Date:	1-8-2012