PROJECT NO.: TCS00371/07

DRAINAGE SERVICES DEPARTMENT (DSD)
CONTRACT NO. DC/2006/02

YUEN LONG, KAM TIN, NGAU TAM MEI AND TIN SHUI WAI DRAINAGE IMPROVEMENTS, STAGE 1, PHASE 2B – CHEUNG CHUN SAN TSUEN AND KAM TSIN WAI

KT15 – Monthly EM&A Report for November 2007 (No. 5)

(Revision: 1)

PREPARED FOR
Chit Cheung Construction Company Limited

Quality Index

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Executive Summary

ES.01 Chit Cheung Construction Company Limited (CCC) has been awarded the Drainage Services Department (DSD) Contract No. DC/2006/02 Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B – Cheung Chun San Tsuen and Kam Tsin Wai (hereinafter "the Project") on 03 April 2007. According to the contract specification requirements an Environmental Monitoring & Audit program to be implemented by an Independent Environmental Team (ET) throughout the contract period.

ES.02 Under the Project Profile for Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai, Drainage Improvement Stage 1 Phase 2B – Kam Tin Secondary Drainage Channels KT14 & KT15 (Ref.: 382047/E/PP/Issue 5), KT14 & KT15 was defined as Designated Project and governed by Environmental Permit (EP-231/2005/A).

ES.03 Action-United Environmental Services and Consulting (AUES) has been commissioned by CCC to be an Independent Environmental Team (ET) to implement the EM&A program in compliance with the requirements as stated in the Environmental Permit (EP-231/2005/A) and Environmental Monitoring &Audit Manual (EM&A Manual) for Secondary Channel KT14 & KT15 (August 2005). For this Contract (DC/2006/02) only covered KT15 and KT14 will carried out under other contract.

ES.04 This is Monthly EM&A Report for **November 2007 (No. 5)** reporting the environmental impact monitoring and audit (EM&A) results of the project EM&A program for the reporting month **November 2007** during the period from **26 October 2007 to 25 November 2007**.

Breach of Action and Limit (AL) Levels

ES.05 The Limit Level exceedance was recorded in ecology during this reporting month. The wetland dependent bird species number recorded fell within the limit level (decrease > 40%). No Action/Limit Level exceedance was recorded for air, noise and stream water in this reporting period.

Complaints Log

ES.06 No environmental complaint was received in this reporting period.

Notifications of Any Summons and Successful Prosecutions

ES.07 There was no environmental summons or successful prosecution was recorded in this reporting period.

Reporting Changes

ES.08 There are no changes to be reported in this reporting period.

Future Key Issues

ES.09 Construction activities to be undertaken in December 2007 included Construction and excavation works at Ch.233-439, Ch504-675; Stream Diversion; Sheet Piles Driving; Tree protection and tree transplanting works; Carrying out joined survey; Utilities companies liaison; Dumping activities of inert materials and Provision of temporary site entrance at Kam Po Road and Kam Sheung Road. Potential environmental impacts for this project generally include air quality, noise, ecology, surface runoff and construction waste. The contractor shall properly implement the required environmental mitigation measures as per the Implementation Schedule in the EM&A manual to ensure no significant adverse environmental impact arises from the construction works. The contractor was reminded to maintain good house-keeping throughout the construction phase.

EM&A Activities in the Reporting Period

ES.10 A summary of the monitoring activities in this reporting period is listed below:

• 1-Hour TSP Monitoring	18	Events
• 24-Hour TSP Monitoring	6	Events
• Noise Monitoring	6	Events
• Stream Water Quality	18	Events
• Ecology (Fauna)	1	Event
• Site Inspection Audit	4	Times

Air Quality

ES.11 No Action or Limit Level of 1-Hour and 24-Hour TSP exceedance was recorded in this reporting period.

Construction Noise

ES.12 No exceedance in construction noise measurements was recorded and no construction noise complaint was received in this reporting period.

Stream Water Quality

ES.13 No exceedance in stream water quality was recorded in the reporting period.

Ecology (Fauna)

ES.14 Non-compliance (Limit Level) with the ecological criteria was found in the wetland dependent bird species number recorded during the reporting period (on 12 November 2007). No intrusions of construction activities into the wetland areas nor adverse impact on the wetlands was found. Based on the findings in the pervious monthly monitoring, the non-compliance in wetland dependent bird species and individual number was not caused by the project.

Summary of Monitoring Exceedances

ES.15 A summary of monitoring exceedances in this reporting period of air quality, construction noise, stream water quality and ecology (fauna) monitoring are presented below:

Env. Quality	Parameters	Work-Related Exceedance %	Investigation & Corrective Actions
Air Quality	1-Hour TSP	0	Not Required for 0% Exceedance
	24-Hour TSP	0	Not Required for 0% Exceedance
Noise	Leq (30min) Daytime	0	Not Required for 0% Exceedance
Stream Water	Dissolve Oxygen (DO) in mg/L	0	Not Required for 0% Exceedance
	Suspended Solids (SS) in mg/L	0	Not Required for 0% Exceedance
	Turbidity (NTU)	0	Not Required for 0% Exceedance
	pH	0	Not Required for 0% Exceedance
	Ammonia Nitrogen (mg/L)	0	Not Required for 0% Exceedance
	Zinc (μg/L)	0	Not Required for 0% Exceedance
Ecology	Decrease in the total number of species or individuals of wetland dependent bird from baseline	0	Not Required for 0% Exceedance

Site Inspection by External Parties

ES.16 No site inspection was undertaken by external parties in this reporting period.

1.0 INTRODUCTION

1.01 Chit Cheung Construction Company Limited (CCC) has been awarded the Drainage Services Department (DSD) Contract No. DC/2006/02 Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B – Cheung Chun San Tsuen and Kam Tsin Wai (hereinafter "the Project") on 03 April 2007. According to the contract specification requirements the Project should implemented an Environmental Monitoring & Audit (EM&A) program by an Independent Environmental Team (ET) throughout the construction period in compliance with the requirements as stated in the project particular specification, Environmental Permit (EP-231/2005/A) and EM&A Manual for KT15. The location of the project site is presented in **Appendix A**. The project construction program is presented in **Appendix B**.

1.02 The works to be executed at the propose drainage Channel KT15 mainly comprise the following:

- Construction of about 0.8 km secondary drainage channels;
- Construction of DSD maintenances access;
- Provisioning and re-provisioning of pedestrian crossings;
- Associated ancillary works; and
- Construction of temporary vehicular access in Portion 5A1 of the site for vehicular access from Kam Sheung Road to Lot Nos. 398RP, 395 in DD106 which are adjacent to the site.

1.03 Action-United Environmental Services and Consulting (AUES) has been commissioned by CCC to be the Independent Environmental Team (ET) for implementation of the EM&A program in accordance with the requirements as set out in the contract particular specification, Environmental Permit (EP-231/2005/A), EM&A Manual for KT15 and the Environment Impact Assessment Ordinance (EIAO).

1.04 This report presents the results of the project EM&A program for the reporting month **November 2007** during the period from **26 October 2007 to 25 November 2007**.

REPORT STRUCTURE

1.05 The EM&A report is structured into the following sections:

Section 1 INTRODUCTION
Section 2 PROJECT ORGANIZATION AND CONSTRUCTION PROGRESS
Section 3 SUMMARY OF MONITORING REQUIREMENTS
Section 4 IMPACT MONITORING METHODOLOGY
Section 5 IMPACT MONITORING RESULTS
Section 6 WASTE MANAGEMENT
Section 7 SITE INSPECTION
Section 8 ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE
Section 9 IMPLEMENTATION STATUS OF MITIGATION MEASURES
Section 10 IMPACT FORECAST
Section 11 CONCLUSIONS

2.0 PROJECT ORGANIZATION AND CONSTRUCTION PROGRESS

PROJECT ORGANIZATION AND MANAGEMENT STRUCTURE

2.01 The organization chart and lines of communication with respect to the on-site environmental management and monitoring program are shown in **Appendix C**.

CONSTRUCTION PROGRESS

2.02 The major construction activities undertaken in this reporting period are list below:-

- Construction of channel wall at CH223 – 439 and CH504 - 675;
- Provision of temporary entrance at Kam Po Road and Kam Sheung Road;
- Erection of noise barrier along CH647 to CH700;
- Construction of wheel washing facility at CH30;
- Dumping activities;
- Tree protection and tree transplanting works;
- Utilitiesd companies liasion; and
- Carrying out joined survey.

SUMMARY OF ENVIRONMENTAL SUBMISSIONS

2.03 A summary of the relevant permits, licences, and/or notifications on environmental protection for this Project in this reporting period is presented in **Table 2-1**.

Table 2-1 Status of Environmental Licenses and Permits

Item	Item Description	License/Permit Status
1	Environmental Permit (EP-231/2005/A)	-
2	Air Pollution Control (Construction Dust)	Notified EPD on 09 July 2007
3	Chemical Waste Producer Registration WPN:5296-519-C3430-01 (Portion 8, Ma Fung Ling Road, Tong Yan San Tsuen, Yuen Long)	Registration on 20 April 2007
4	Chemical Waste Producer Registration WPN:5113-533-C3434-09 (Kam Tsin Wai, Kam Tin, Yuen Long)	Registration on 20 April 2007
5	Chemical Waste Producer Registration WPN:5213-424-C3431-01 (Portion 7, Birthing Area, Hoi Wan Road, Tuen Mun)	Registration on 20 April 2007
6	Water Pollution Control Ordinance (Discharge License) License No.: 1U450/1	Obtained on 20 July 2007
7	Billing Account for Disposal of Construction Waste (Account Number : 7005311)	Valid on 07 May 2007
8	Dumping at Sea Permit of Type 1 Contaminated Material (Permit No. EP/MD/08-051)	Validity period (10 Oct – 09 Apr 2008)
9	Dumping at Sea Permit of Type 2 Contaminated Material (Permit No. EP/MD/08-053)	Validity period (02 Nov – 01 Dec 2007)

3.0 SUMMARY OF IMPACT MONITORING REQUIREMENTS

3.01 Environmental monitoring and audit requirements are set out in the EM&A Manual. Air quality, construction noise, stream water quality and ecology have been identified to be the key environmental issues during the construction phase of the project.

3.02 A summary of the EM&A requirements for air quality, construction noise, stream water quality and ecology monitoring are shown in **Table 3-1.** The designated station of the air quality, construction noise, stream water quality locations and ecology monitoring area are shown in **Appendix D**.

Table 3-1 Summary of EM&A Requirements

Environmental Aspect	Monitoring Parameters		Monitoring Stations
Air Quality	1-Hour and 24-Hour TSP		A10
Construction Noise	$Leq_{(30min)}$ during normal working hours		N10a*
	Supplementary data of L_{10} and L_{90} for reference.		
Stream Water Quality	In Situ Measurement	• Dissolved Oxygen Concentration (mg/L);	W9A & W9B
		• Dissolved Oxygen Saturation (% Sat);	
		• Turbidity (NTU);	
		• pH;	
		• Salinity (%); Water Depth (m) and	
		• Temperature (^oC).	
	Laboratory Analysis	• Suspended Solids (mg/L);	
		• Ammonia Nitrogen (mg/L); and	
		• Zinc (µg/L).	
Ecology	Monthly monitoring of construction activities adjacent to the wetland areas to identify any intrusions of construction activities into the wetland areas; Monthly monitoring of wetland areas themselves to check that there is no adverse impact on the wetlands as a consequence of changes to the water table that are attributable to the project, if any; Photographic records at six-month intervals; and Monthly surveys of fauna in the wetland areas during the wet season (April to July inclusive) for reptiles, amphibians, dragonflies, and butterflies, and throughout the year for birds.		

Note: * The noise ambient condition within the victim area without significant change. Due to the accessibility, noise monitoring will undertake at N10a. Once the access is available, the impact noise monitoring will undertake at N10.

3.03 Air monitoring is carried out once every six days for 24-Hour TSP and 3 times every six days for 1-Hour TSP at one designated monitoring station A10.

3.04 Noise monitoring is conducted once per week at one designated monitoring location (N10a). Measurements of $Leq_{(30min)}$ shall be taken between 0700 and 1900 with supplementary L_{10} and L_{90} data will be collected for reference.

3.05 Stream water quality monitoring is conducted were undertaken at two location W9A & W9B twice per week. Dissolved Oxygen (DO), pH, Turbidity (NTU) were measured in-situ, water depth, temperature and salinity will be collected for relevant data. Suspended Solids (SS), Ammonia Nitrogen and Zinc were determined in a HOKLAS accredited laboratory respectively.

3.06 Ecological monitoring is conducted in the seasonal wetland area as shown in Project profile of KT15 Figure ATT 4-7.2). Bird survey should be conducted in monthly through the year and other faunal groups (reptiles, amphibians, dragonflies and butterflies) are conducted monthly in wet season (April to July inclusive) only.

3.07 A summary of the Action/Limit (A/L) Levels for air quality, construction noise, stream water quality and ecology are shown in **Tables 3-2, 3-3, 3-4** and **3-5.**

Table 3-2 Action and Limit Levels for Air Quality Monitoring

Monitoring Station	Action Level (μg/m^3)		Limit Level (μg/m^3)	
	1-Hour TSP	24-Hour TSP	1-Hour TSP	24-Hour TSP
A10	> 307	> 165	> 500	> 260

Table 3-3 Action and Limit Levels for Construction Noise Monitoring

Time Period	Action Level in dB(A)	Limit Level in dB(A)
0700-1900 hrs on normal weekdays	When one or more documented complaints are received	> 75* dB(A)

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

Table 3-4 Action and Limit Levels for Stream Water Quality Monitoring

Dissolved Oxygen (mg/l)	W9A (Upstream)#	W9B (Downstream)
Action Level	NA	0.3
Limit Level	NA	0.2
Turbidity (NTU)	W9A (Upstream)#	W9B (Downstream)
Action Level	NA	73.5*
Limit Level	NA	78.2**
pH	W9A (Upstream)#	W9B (Downstream)
Action Level	NA	7.0*
Limit Level	NA	7.1**
Suspended Solids (mg/L)	W9A (Upstream)#	W9B (Downstream)
Action Level	NA	148*
Limit Level	NA	159**
Ammonia Nitrogen (mg/L)	W9A (Upstream)#	W9B (Downstream)
Action Level	NA	30.91*
Limit Level	NA	32.20**
Zinc (μg/L)	W9A (Upstream)#	W9B (Downstream)
Action Level	NA	242*
Limit Level	NA	252**

Notes: # Act as Control Station for the Impact Water Quality Monitoring.
* Alternative Action Level of the Turbidity, pH, Suspended Solid, Ammonia Nitrogen and Zinc are 120% of upstream control station of same day.
** Alternative Limit Level of the Turbidity, pH, Suspended Solid, Ammonia Nitrogen and Zinc are 130% of upstream control station of same day.

Table 3-5 Action and Limit Levels for Construction Ecology Monitoring

Parameters	Action Level	Limit Level
Bird: decrease in the total number of wetland dependent bird species or individuals of the wetland dependent bird species from baseline	20 – 40% of 1.2 individuals and 3 species	> 40% of 1.2 individuals and 3 species

3.08 The Event/Action Plan of air quality, construction noise, stream water quality and ecology has been implemented for this project. Details of the Event/Action Plan were presented in the **Appendix E**.

4.0 IMPACT MONITORING METHDOLOGY

MONITORING LOCATIONS

4.01 The 1-Hour TSP and 24-Hour TSP monitoring was carried out at one designated station A10. Impact construction noise monitoring was undertaken at the designated location N10a. Stream water quality monitoring was undertaken at two designated locations (W9A & W9B). The ecology monitoring was conducted within the wetland area in according to the EM&A Manual of KT15. The descriptions of monitoring stations are presented in **Tables 4-1.** The geographically location are shown in **Appendix D**.

Table 4-1 Location of Air Quality, Construction Noise & Stream Water Quality Monitoring Station/Locations

Air Quality Station	
A10	Village House in Tin Sam San Tsuen
Construction Noise Location	
N10*	Village House in Tin Sam San Tsuen
N10a	Village House in Tin Sam San Tsuen
Water Quality Locations	
W9A#	Tin Sam San Tsuen
W9B	Tin Sam San Tsuen

Note: * The noise ambient condition within the victim area without significant change. Due to the accessibility, noise monitoring will undertake at N10a. Once the access is available, the impact noise monitoring will undertake at N10
Act as control station in impact monitoring

4.02 The meteorological data during the reporting period was obtained from the Lau Fau Shan Station of the Hong Kong Observatory (HKO).

MONITORING FREQUENCY AND PERIOD

1-HOUR TSP MONITORING

4.03 The 1-Hour TSP monitoring was conducted in designated station A10 in according to the EM&A Manual three times every 6 days. Total of 18 monitoring events were carried out in this reporting period.

24-HOUR TSP MONITORING

4.04 The 24-Hour TSP monitoring was conducted at station A10 once every six days. Total of 6 monitoring events were carried out in this reporting period.

NOISE MONITORING

4.05 Impact noise monitoring was undertaken at one location N10a once per week. Total of 6 monitoring events were carried out in this reporting period.

STREAM WATER QUALITY MONITORING

4.06 The stream water quality monitoring was undertaken at two locations W9A & W9B two times per week. Total of 18 monitoring events were carried out in this reporting period.

ECOLOGY MONITORING

4.07 Bird survey should be conducted in monthly throughout the year and other faunal groups (reptiles, amphibians, dragonflies and butterflies) are conducted monthly in wet season (April to July inclusive) in the seasonal wetland area.

MONITORING EQUIPMENT

4.08 The monitoring equipment used by the ET in the EM&A program is presented in the **Table 4-2**.

Table 4-2 Monitoring Equipment Used in EM&A Program

Parameters	Equipment	Monitoring Equipment
1-Hour TSP	Portable dust meter	Sibata LD-3 Laser Dust Meter
24-Hour TSP	High Volume Sampler	Grasby Anderson GMWS 2310 HVS / Tisch High Volume Sampler 515N
	Calibration Kit	TISCH Model TE-5028A
Leq30min	Integrating Sound Level Meter (Type1)	B&K Type 2238
	Calibrator	B&K Type 4231
	Portable Wind Speed Indicator	Testo Anemometer
Water Depth	Water Depth Detector	Eagle Sonar
Temperature	Thermometer & DO Meter	YSI 85/10FT
DO	Thermometer & DO Meter	YSI 85/10FT
pH	pH Meter	Hanna HI 98128
Turbidity	Turbidimeter	Hach 2100P
Salinity	Salinometer	ATAGO refractometer
-	Water Sampler	Teflon bailer / bucket
-	Sample Container	High density polythene bottles (provided by laboratory)
-	Storage Container	'Willow' 33-litter plastic cool box

24-HOUR TSP MONITORING

4.09 24-Hour TSP monitoring was carried out by a High Volume Sampler (HVS) in compliance with the USEPA Standards Title 40, Code of Federal Regulations Chapter 1 (Part 50) specifications. The HVS employed complied with the PS specifications including.

- Power supply of 220v/50 hz for 24-Hour continuous operation;
- 0.6-1.7 m^3/min (20-60 SCFM) adjustable flow rate;
- A 7-day mechanical timer for 24-Hour operation;
- An elapsed time indicator with ±2 minutes accuracy for 24-Hour operation;
- Minimum exposed area of 63 in^2;
- Flow control accuracy of ±2.5% deviation over 24-Hour operation;
- An anodized aluminum shelter to protect the filter and sampler;
- A motor speed-voltage control to control mass flow rate with accuracy of ±2.5% deviation over 24-Hour sampling period;
- Provision of a flow recorder for continuous monitoring;
- Provision of a peaked roof inlet;
- Incorporation with a manometer; and
- An 8"x10" stainless steel filter holder to hold, seal and easy to change the filter paper.

4.10 The filter papers used in 24-Hour TSP monitoring were of size 8"x10" and provided by a local HOKLAS-accredited laboratory, ALS Techichem Pty (HK) Limited (HOKLAS No. 66). The filters papers after measurements were returned to the laboratory for the required treatment and analysis.

1-HOUR TSP MONITORING

4.11 Measurements of 1-Hour TSP monitoring were taken by a Sibata LD-3 Laser Dust Meter that is a portable and battery-operated laser photometer capable of performing real time 1-Hour TSP measurements. A comparison test with HVS was carried out prior to baseline monitoring in compliance with the EM&A requirements and a conversion factor for direct reading of the dust meter has been established.

WIND DATA MONITORING

4.12 The meteorological data during the reporting period was obtained from the Lau Fau Shan Station of the Hong Kong Observatory (HKO).

NOISE MONITORING

4.13 Noise measurements were taken in terms of the A-weighted equivalent sound pressure level (Leq) measured in decibels (dB). Supplementary statistical results such as L_{10} and L_{90} were also obtained for reference.

4.14 Hand-held sound level meters (B&K Model 2238) and associated acoustical calibrators in compliance with the International Electrotechnical Commission (IEC) Publication 651:1979 (Type 1) and 804:1985 (Type 1) specification were used for taking the impact noise measurements.

4.15 Windshield was fitted in all measurements. All noise measurements were made with the meter set to FAST response and on the A-weighted equivalent continuous sound pressure level (Leq).

4.16 No noise measurement was carried out in the presence of fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s.

STREAM WATER QUALITY MONITORING

Water Depth

4.17 Water quality monitoring will be conducted at the middle of the water columns (Mid-Depth) if the depths of the water columns at the sampling locations are less than 3 meters during monitoring. Or else, monitoring will be performed at two depths, at 1 meter from surface and bottom respectively when the water depth is less than 6m.

4.18 Water depths will be determined prior to measurement and sampling at W9A and W9B, using a portable battery operated depth detector, brand named ‘Eagle Sonar’, if the depths exceed 3 meter. For the depths well below 1 meter, an appropriate steel ruler or rope with appropriate weight will be used for the depth estimation.

Water Temperature

4.19 Although the DO Meter automatically compensates ambient water temperature to a standard temperature of 20^{o}C for ease of comparison of the data under the changing reality, the temperature readings of the DO Meter will be recorded in the field data sheets. Calibration of the equipment will be regularly performed by ALS on quarterly basis.

Dissolved Oxygen (DO)

4.20 A portable YSI 85/10FT DO Meter will be used for in-situ DO measurement. The DO meter is capable of measuring DO in the range of 0 - 20 mg/L and 0 - 200 % saturation and checked against water saturated ambient air on each monitoring day prior to monitoring.

4.21 Although the DO Meter automatically compensates ambient water temperature to a standard temperature of 200^{o}C for ease of comparison of the data under the changing reality, the temperature readings of the DO Meter will be recorded in the field data sheets. Calibration of the equipment will be regularly performed by ALS on quarterly basis.

pH

4.22 A portable Hanna pH Meter will be used for in-situ pH measurement. The pH meter is capable of measuring pH in the range of 0 – 14 and readable to 0.1. Standard buffer solutions of at least pH7 and pH10 shall be used for calibration of the instrument before and after use. Calibration of the equipment will be regularly performed by ALS on quarterly basis.

Turbidity (NTU)

4.23 A portable Hach 2100p turbidity Meter will be used for in-situ turbidity measurement. The turbidity meter is capable of measuring turbidity in the range of 0 – 1000 NTU. Calibration of the equipment will be regularly performed by ALS on quarterly basis.

Salinity

4.24 A portable salinometer capable of measuring salinity in percentage (g/L) will be used for measuring salinity of the water at each monitoring location.

Water Sampler

4.25 Water samples will be collected by the ET using a water sampler and 'PE' (Poly-Ethylene) sampling bottles provided by the laboratory. The water sampler will be rinsed before collection with the sample to be taken. Kahlsico Water Sampler will be used for sampling. One liter or 1000mL water sample will be collected from each depth for SS determination. The samples collected are stored in a cool box maintained at 40^{o}C and delivered to ALS upon completion of the sampling by end of each sampling day. Sampling in the stream with shallow water condition, plastic bucket will be used for sample collection.

Sample Container

4.26 Water samples will be contained in screw-cap PE (Poly-Ethylene) bottles, which will be provided and pretreated immediately prior to sampling according to HOKLAS quality requirements by ALS. The sampling bottles will be rinsed with the water to be contained. Water sample is then transferred from the sampler to the sample bottles to 95% bottle capacity to allow possible volume changes during delivery and storage.

Sample Storage

4.27 A 'Willow' 33-litter plastic cool box packed with ice will be used to preserve the collected water samples prior to arrival at the laboratory for SS determination. The water temperature of the cool box will be maintained at a temperature as close to 4^{o}C as possible without being frozen. Samples collected will be delivered to the laboratory upon collection.

4.28 DO, water temperature, turbidity (NTU), pH, salinity and water depth were measured in-situ whereas SS, Ammonia Nitrogen and Zinc were determined in a HOKLAS accredited laboratory (ALS).

ECOLOGY MONITORING

Study Area

4.29 The study area for the ecological monitoring programme for KT15 covers the seasonal wetland area as shown in Project Profile of KT15 Figures ATT 4-7.2.

Survey Method

4.30 Monthly monitoring was conducted by means of walk through survey, along the boundary and within the wetland areas in KT15. Any adverse impacts to the habitat, intrusions of construction activities into the wetland areas, and adverse changes in the wetlands were checked and reported if any.

4.31 Photographic records on the fixed photo record points selected during the baseline survey are made every six months. The photos from the construction phase ecological monitoring will be compared with those taken during the baseline which are used as the baseline conditions.

4.32 Bird monitoring was conducted in the study areas monthly for KT15. Survey areas in KT15 was the seasonal wetland area covered same as the Project Profile of KT15 Figures ATT 4-7.2.

4.33 Fauna monitoring is conducted only during the wet season (April to July inclusive for KT15) in the same survey areas for bird monitoring. For KT15, the survey frequency is monthly, and the surveys cover reptiles, amphibians, dragonflies and butterflies.

Equipment

4.34 Standard portable field survey equipment was used for ecological monitoring, including 1) Binoculars of 10 x 40 magnification; 2) Digital camera; 3) Notebook; and/or 4) Butterfly net (when it is necessary to confirm identities of butterflies and dragonflies).

EQUIPMENT CALIBRATION

4.35 Initial calibration of the HVS was performed upon installation and thereafter at bi-monthly intervals in accordance with the manufacturer's instruction using the NIST-certified standard calibrator. The calibration data are properly documented and the records are maintained by ET for future reference.

4.36 The 1-Hour TSP meter was calibrated by the supplier prior to purchase. Zero response of the equipment is checked before and after each monitoring event. A comparison test was carried out with a HVS. A conversion factor (K) of 4.0 was generated in accordance with the equipment manufacturer's instruction. The meter counts in minutes multiplied by the conversion factor will generate the equivalent dust concentration by HVS.

4.37 The sound level meters are calibrated using an acoustic calibrator prior to and after measurements. The meters are regularly calibrated in accordance with the manufacturer's instructions. Prior to and following each noise measurement, the accuracy of the sound level meter was checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements are considered valid only if the calibration levels before and after the noise measurement agree to within 1.0 dB.

4.38 All in-situ monitoring instruments are calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme at 3 monthly intervals throughout all stages of the water quality monitoring.

4.39 The calibration certificates of the monitoring equipment used during the impact monitoring program are attached in **Appendix F**.

ANALYTICAL LABORATORY

4.40 Our ET has commissioned a local HOKLAS-accredited laboratory, ALS Technichem (HK) Pty Ltd (HOKLAS No. 66) to provide analytical services for this project. ALS carried out sample and analysis control in accordance with the HOKLAS QA/QC requirements. The specified testing services provided by ALS as shown in **Table 4-3**.

Table 4-3 Analytical Method applied to Water Quality Samples

Determinant	Standard Method	Detection Limit
Suspended Solids	ALS Method EA025	2 mg/L
Ammonia Nitrogen	ALS Method EK055A	0.01 mg/L
Zinc	ALS Method EG020	10 µg/L

4.41 The analysis of suspended solids, ammonia nitrogen and zinc concentrations were follow the APHA Standard Methods for the Examination of Water and Wastewater 19ed 2540D. ALS Environmental has comprehensive quality assurance and quality control programs and has attained HOKLAS accreditation for a range of environmental testing. For QA/QC procedures, one duplicate sample for every batch of samples were analyses as required by the HOKLAS. The QA/QC results are presented in **Appendix H**.

DATA MANAGEMENT AND DATA QA/QC CONTROL

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

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

4.44 For monitoring activities require laboratory analysis, the local laboratory follows the QA/QC requirements as set out under the HOKLAS scheme for all laboratory testing.

5.0 IMPACT MONITORING RESULTS

5.01 The impact EM&A program was carried out by the ET in compliance with the project specific EM&A Manual in this reporting period. The impact monitoring schedules are presented in **Appendix G** and the monitoring results are detailed in the following sub-sections.

AIR QUALITY

5.02 The 1-Hour and 24-Hour TSP impact air quality monitoring data are summarized in **Tables 5-1** and **5-2**. Graphical plots of the monitoring results are shown in **Appendix H** respectively.

Table 5-1 Summary of 1-Hour TSP Monitoring Results at A10

Monitoring Date	Start Time	1st Result (μg/m³)	2nd Result (μg/m³)	3rd Result (μg/m³)	Action Level (μg/m³)	Limit Level (μg/m³)
27-Oct-07	14:25	183	191	186	> 307	> 500
2-Nov-07	14:54	146	155	152	> 307	> 500
8-Nov-07	15:04	133	132	149	> 307	> 500
14-Nov-07	14:37	128	136	130	> 307	> 500
20-Nov-07	15:07	154	168	156	> 307	> 500
24-Nov-07	9:15	132	131	144	> 307	> 500

Note: * Monitoring result was exceeded the Action Level
Monitoring result was exceeded the Limit Level

Table 5-2 Summary of 24-Hour TSP Monitoring Results at A10

Monitoring Date	Monitoring Results (μg/m³)	Action Level (μg/m³)	Limit Level (μg/m³)
26-Oct-07	62	> 165	> 260
01-Nov-07	59	> 165	> 260
07-Nov-07	52	> 165	> 260
13-Nov-07	31	> 165	> 260
19-Nov-07	71	> 165	> 260
23-Nov-07	52	> 165	> 260

Note: * Monitoring result was exceeded the Action Level
Monitoring result was exceeded the Limit Level

5.03 No 1-Hour and 24-Hour TSP Action or Limit Level exceedance was recorded in this reporting period.

5.04 The meteorological data during the monitoring period are summarized in **Appendix I**.

CONSTRUCTION NOISE

5.05 The impact construction noise monitoring results are summarized in **Table 5-3**. Graphical plots of the monitoring data are presented in **Appendix H**.

Table 5-3 Summary of Noise Monitoring Results at N10a

Date	Start Time	1st Leq5	2nd Leq5	3rd Leq5	4th Leq5	5th Leq5	6th Leq5	Leq30
27-Oct-07	13:52	55.4	52.9	51.7	53.1	54.7	52.2	53.5
02-Nov-07	15:08	54.7	56.2	56.3	55.6	55.7	54.2	55.5
08-Nov-07	13:42	56.7	57.2	57.3	55.6	56.7	55.3	56.5
14-Nov-07	14:58	53.4	51.1	52.0	53.5	51.5	51.2	52.2
20-Nov-07	15:18	56.8	49.6	55.8	59.6	56.2	48.6	55.9
24-Nov-07	11:16	52.6	51.8	53.0	52.1	53.7	51.7	52.5
Limit Level		**-**						**> 75 dB(A)**

Note: * The noise ambient condition within the victim area without significant change. Due to the accessibility, baseline monitoring will undertake at N10a. The impact monitoring will undertake at N10 once the access is available.

5.06 No construction noise exceedance (Action/Limit Level) was recorded in this reporting period.

STREAM WATER QUALITY

5.07 The stream water quality monitoring results are summarized in **Table 5-4**. Details of the monitoring results and graphical plots for each parameter are presented in **Appendix H**.

5.08 No exceedance in stream water quality was recorded in the reporting period.

Table 5-4 Summary of Stream Water Quality Results at W9A & W9B

Monitoring Date	DO in mg/L		Turbidity (NTU)		pH		SS in mg/L		Ammonia (mg/L)		Zinc (μg/L)	
	W9A#	W9B	W9A#	W9B	W9A#	W9B	W9A#	W9B	W9A#	W9B	W9A#	W9B
27-Oct-07	1.9	1.2	134.5	30.4	7.4	6.9	135	39	193.00	12.20	421	91
29-Oct-07	1.6	1.0	246.0	193.5	8.7	7.6	365	165	118.00	9.34	1480	198
02-Nov-07	1.9	1.1	101.5	19.6	7.9	7.7	131	22	55.30	8.76	224	52
05-Nov-07	1.9	1.2	230.5	49.3	8.2	7.8	175	44	198.00	20.70	940	157
08-Nov-07	2.9	1.5	152.5	23.6	8.1	7.7	164	38	74.70	13.10	663	127
14-Nov-07	1.9	1.0	276.5	33.8	8.2	7.8	269	40	188.00	13.50	1140	103
17-Nov-07	3.2	1.5	207.0	48.7	8.2	7.9	229	48	56.50	21.20	1050	123
20-Nov-07	1.6	1.4	890.5	29.3	8.3	7.7	545	38	340.00	7.86	1460	97
24-Nov-07	3.0	1.3	79.4	63.6	8.1	7.7	114	67	24.40	20.90	398	172
Action Level	-	< 0.3*	-	> 73.5*	-	> 7.0*	-	> 148*	-	> 30.91*	-	> 242*
Limit Level	-	< 0.2**	-	> 78.2**	-	> 7.1**	-	> 159**	-	> 32.20**	-	> 252**

Notes: # Act as Control Station for the Impact Water Quality Monitoring.
* Alternative Action Level of the Turbidity, pH, Suspended Solid, Ammonia Nitrogen and Zinc are 120% of upstream control station of same day.
** Alternative Limit Level of the Turbidity, pH, Suspended Solid, Ammonia Nitrogen and Zinc are 130% of upstream control station of same day.

ECOLOGY

5.09 27 individuals of birds from 10 species were recorded during the survey for the present monthly monitoring on 12 November 2007. Among the birds recorded, two individuals of one species (i.e. Chinese Pond Heron) were among the two wetland bird species with abundance from the baseline (i.e. Cattle Egret and Chinese Pond Heron). Compared with the average abundance of 1.2 individuals from 2 species of wetland dependent birds recorded during the baseline study for the KT15 Project Profile, the wetland dependent bird species number recorded fell within the Limit Level for the monitoring requirements for ecology (i.e. decrease in the number of species or individuals > 40% from the baseline), while the individual number recorded complied the Action/Limit Level.

5.10 No intrusions of construction activities into the wetland areas nor adverse impact on the wetlands was found. Based on the findings in the pervious monthly monitoring, the non-compliance in wetland dependent bird species and individual number was not caused by the project.

5.11 Photographic records are scheduled in six-month intervals and thus are not required in the present monthly monitoring. Fauna survey is conducted during the wetland season (April to July), and thus are not required in the present monthly monitoring.

5.12 Ecology Impact Monitoring Results are presented in the **Table 5-5**.

Table 5-5 Summary of Ecology Impact Monitoring Results

Scientific Name	Common Name	Abundance reported in the project profile	Abundance recorded in the present survey (12 Nov 07)
Birds			
Bubulcus ibis	**Cattle Egret**	**0.4**	
Ardeola bacchus	**Chinese Pond Heron**	**0.8**	**2**
Amaurornis phoenicurus	**White-breasted Waterhen**	**Recorded only**	1
Streptopelia chinensis	Spotted Dove	Recorded only	3
Hirundo rustica	Barn Swallow	Recorded only	
Motacilla alba	White Wagtail	Recorded only	
Pycnonotus jocosus	Red-whiskered Bulbul	Recorded only	2
Pycnonotus sinesis	Chinese Bulbul	Recorded only	2
Lanius schach	Long-tailed Shrike	Recorded only	
Copsychus saularis	Oriental Magpie Robin	Recorded only	1
Orthotomus sutorius	Common Tailorbird	Recorded only	
Lonchura striata	White-rumped Munia	Recorded only	
Passer montanus	Eurasian Tree Sparrow	Recorded only	5
Sturnus nigricollis	Black-collared Starling	Recorded only	5
Acridotheres cristatellus	Crested Myna	Recorded only	3
Prinia flaviventris	Yellow-bellied Prinia	\	
Eudynamis scolopacea	Common Koel	\	
Halcyon smyrnensis	White-throated Kingfisher	\	
Garrulax perspicillatus	Masked Laughingthrush	\	
Zosterops japonica	Japanese White Eye	\	3
Lonchura punctulata	Scaly-breasted Munia	\	
Species Number		**15 spp. recorded, (only 2 species of wetland birds with abundance)**	10 spp. (1 sp. from the wetland birds with abundance in the baseline)
Individual Number		**1.2 (from the 2 species of wetland birds with abundance)**	27 (2 from from the wetland birds with abundance in the baseline)

Wetland dependent species recorded with abundance during the baseline study with the names bolded

6.0 WASTE MANAGEMENT

6.01 The waste management was implemented by on-site Environmental Officer or Environmental Supervisor from time to time.

RECORDS OF WASTE QUANTITIES

6.02 All types of waste arising from the construction work are classified into the following:

- Construction & Demolition (C&D) Material;
- Chemical Waste;
- General Refuse; and
- Excavated Soil.

6.03 The quantities of waste for disposal in this reporting period are summarized in **Tables 6-1** and **6-2.** Whenever possible, materials were reused on-site as far as practicable.

Table 6-1 Summary of Quantities of Inert C&D Materials

Type of Waste	Quantity	Disposal Location
Broken Concrete (Inert) (m^3)	0	Public Filling
Reused in this Contract (Inert) (m^3)	0	N/A
Reused in other Projects (Inert) (m^3)	0	N/A
Disposal as Public Fill (Inert) (m^3)	6, 755	Tuen Mun Area 38

Table 6-2 Summary of Quantities of C&D Wastes

Type of Waste	Quantity	Disposal Location
Recycled Metal (kg)	0	NA
Recycled Paper / Cardboard Packing (kg)	0	NA
Recycled Plastic (kg)	0	NENT Landfill
Chemical Wastes (kg)	0	License Collector
General Refuses (m^3)	63	NENT Landfill

6.04 The quantities of excavation soil for marine disposal in this reporting period are summarized in **Table 6-3**.

Table 6-3 Summary of Excavated Soil for Marine Disposal

Type of Waste	Quantity	Disposal Location
Type 1 Materials (m^3)	0	East Sha Chau (Pitch 4a & 4b)
Type 2 Materials (m^3)	365	East Sha Chau (Pitch 4c)

7.0 SITE INSPECTION

7.01 According to the EM&A Manual Section 9.1.2, the environmental site inspection should been formulation by ET Leader. ET had carried out the environmental site inspection on 31 October, 08, 15 and 22 November 2007 with the Representatives of the Engineer and the Contractor to evaluate the site environmental performance in this reporting period. The monthly site audit conducted on 15 November 2007 by IEC's representative with the representatives of the Engineer, the Contractor and ET's representative. No non-compliance and eleven observations were noted.

7.02 The details of observation during the site inspections and monthly audit as follows:

- Standing water accumulated on-site was found at CH290, the Contractor was reminded to clean more frequency after each the rainy day;

- Discharge water from the sedimentation tank directly hit on the exposed surface, the Contractor was reminded to provide the tarpaulin sheet to protect the exposed surface to prevent the any soil runoff from the discharge water into the stream;
- Fugitive dusts emission from the dry haul road was observed at CH080-150. The Contractor was reminded to provide water spray more frequency on the dry and windy season;
- Some C&D wastes accumulated on-site was found at CH 015-020. The Contractor was reminded to clean up and disposal the C&D wastes in regular basis;
- Stagnant water accumulated on-site next to the wheel washing bay was observed. The Contractor was reminded to clean up in regular basis;
- According to the EP Condition 1.5, full set copy of the EP should display at all vehicular site entrance/exit. The Contractor was reminded to display full set copy of EP at all vehicular site entrance;
- The Contractor was reminded to review the frequency of haul road watering;
- C&D waste was observed at U-channel at CH15-20;
- Stagnant water was observed nearby wheel washing bay at CH40;
- Plastic tube connected to the sedimentation tank was broken; Contractor was reminded to repair immediately ; and
- Waste skip was observed full at the site office, contractor was reminded to clean the general waste more frequency.

7.03 The ET site inspection checklists are shown in **Appendix J**. In general, the construction area of KT15 was kept clean and tidy.

7.04 No site inspection was undertaken by external parties in this reporting period.

8.0 ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

ENVIRONMENTAL COMPLAINT, SUMMONS AND PROSECUTION

8.01 No environmental complaint, summons and prosecution was received in this reporting period. The statistical summary table of environmental complaint is presented in **Table 8-1**, **8-2** and **8-3**.

Table 8-1 Statistical Summary of Environmental Complaints

Reporting Period	Environmental Complaint Statistics		
	Frequency	Cumulative	Complaint Nature
Jul 2007 – October 2007	0	0	NA
November 2007	0	0	NA

Table 8-2 Statistical Summary of Environmental Summons

Reporting Period	Environmental Summons Statistics		
	Frequency	Cumulative	Nature
Jul 2007 – October 2007	0	0	NA
November 2007	0	0	NA

Table 8-3 Statistical Summary of Environmental Prosecution

Reporting Period	Environmental Prosecution Statistics		
	Frequency	Cumulative	Nature
Jul 2007 – October 2007	0	0	NA
November 2007	0	0	NA

9.0 IMPLEMENTATION STATUS OF MITIGATION MEASURES

9.01 CCC has been implementing the required environmental mitigation measures according to the EM&A Manual of KT15 - Mitigation Measures Implementation Schedule.

9.02 A summary of environmental mitigation measures generally implemented by CCC in this reporting period is presented as follows;

Water Quality

- Wastewater were appropriately treated by treatment facilities;
- Drainage channels were provided to convey run-off into the treatment facilities;
- Drainage systems were regularly and adequately maintained.

Air Quality

- Vehicles were cleaned of mud and debris before leaving the site;
- Site vehicles were limited to within 8 km/hr;
- Public roads around the site entrance/exit had been kept clean and free from dust;
- Dust suppression measures were properly provided to reduce dust emission from stockpile.

Noise

- Works and equipment were located to minimise noise nuisance from the nearest sensitive receiver;
- Idle equipments were either turned off or throttled down;
- Some of the Powered Mechanical Equipments were covered or shielded by appropriate acoustic materials if practicable.

Waste and Chemical Management

- Wastes were properly segregated into inert and non-inert in appropriate containers/areas;
- Excavated materials were reused where practicable.
- A chemical waste storage area had been provided on site;

General

- The site was generally kept tidy and clean.

10.0 IMPACT FORECAST

KEY ISSUES FOR THE COMING MONTH

10.01 Key issues to be considered in the coming month include:

- Implementation of dust suppression measures at all times;
- Potential wastewater quality impact due to surface runoff;
- Potential fugitive dust quality impact due to dry/windy season (November to March) from the dry/loose/exposure soil surface/dusty material;
- Disposal of empty engine oil containers within site area;
- Ensure dust suppression measures are implemented properly;
- Sediment catch-pits and silt removal facilities should be regularly maintained;
- Management of chemical wastes;
- Discharge of site effluent to the nearby wetland, stockpiling or disposal of materials, and any dredging or construction area at this area are prohibited;
- Follow-up of improvement on general waste management issues; and
- Implementation of construction noise preventative control measures.

10.02 The tentative 3-month rolling program is presented in **Appendix B**.

11.0 CONCLUSION

11.01 The EM&A program in November 2007 was undertaken in compliance with the EM&A Manual for KT15. A summary of environmental compliance of air, noise, stream water quality and ecology in this reporting period are presented in **Table 11-1**.

Table 11-1 Summary of the Exceedances for Impact Monitoring

Env. Quality	Parameters	Work-Related Exceedance %	Investigation & Corrective Actions
Air Quality	1-Hour TSP	0	Not Required for 0% Exceedance
	24-Hour TSP	0	Not Required for 0% Exceedance
Noise	Leq (30min) Daytime	0	Not Required for 0% Exceedance
Stream Water	Dissolve Oxygen (DO) in mg/L	0	Not Required for 0% Exceedance
	Suspended Solids (SS) in mg/L	0	Not Required for 0% Exceedance
	Turbidity (NTU)	0	Not Required for 0% Exceedance
	pH	0	Not Required for 0% Exceedance
	Ammonia Nitrogen (mg/L)	0	Not Required for 0% Exceedance
	Zinc (μg/L)	0	Not Required for 0% Exceedance
Ecology	Decrease in the total number of species or individuals of wetland dependent bird from baseline	0	Not Required for 0% Exceedance

11.02 No 1-Hour and 24-Hour TSP exceeded the Action/Limit Level was recorded in this reporting period.

11.03 All measured daytime construction noise levels were below the Limit level and no complaint was received in this reporting period.

11.04 No stream water quality exceeded the Action/Limit Level was recorded during the reporting period.

11.05 Although exceedance on the Limit Level for wetland bird species number (decrease >40%) on 12 November 2007. No intrusions into the wetland area/adverse impact on the wetlands were found during the reporting period. Based on the findings in the pervious monthly monitoring, the non-compliance in wetland dependent bird species and individual number was not caused by the project.

11.06 No environmental complaint, summons or prosecution was received in this reporting period.

RECOMMENDATIONS

11.07 Based on the ET regular and monthly IEC site audit inspection records on 31 October, 08, 15 and 22 November 2007, no non-compliance and eleven observations were recorded. Details of the observations as follows:-

- Standing water accumulated on-site was found at CH290, the Contractor was reminded to clean more frequency after each the rainy day;
- Discharge water from the sedimentation tank directly hit on the exposed surface, the Contractor was reminded to provide the tarpaulin sheet to protect the exposed surface to prevent the any soil runoff from the discharge water into the stream;
- Fugitive dusts emission from the dry haul road was observed at CH080-150. The Contractor was reminded to provide water spray more frequency on the dry and windy season;
- Some C&D wastes accumulated on-site was found at CH 015-020. The Contractor was reminded to clean up and disposal the C&D wastes in regular basis;
- Stagnant water accumulated on-site next to the wheel washing bay was observed. The Contractor was reminded to clean up in regular basis;
- According to the EP Condition 1.5, full set copy of the EP should display at all vehicular site entrance/exit. The Contractor was reminded to display full set copy of EP at all vehicular site entrance;
- The Contractor was reminded to review the frequency of haul road watering;
- C&D waste was observed at U-channel at CH15-20;
- Stagnant water was observed nearby wheel washing bay at CH40;
- Plastic tube connected to the sedimentation tank was broken; Contractor was reminded to repair immediately; and
- Waste skip was observed full at the site office, contractor was reminded to clean the general waste more frequency.

11.08 No site inspection was undertaken by external parties in this reporting period.

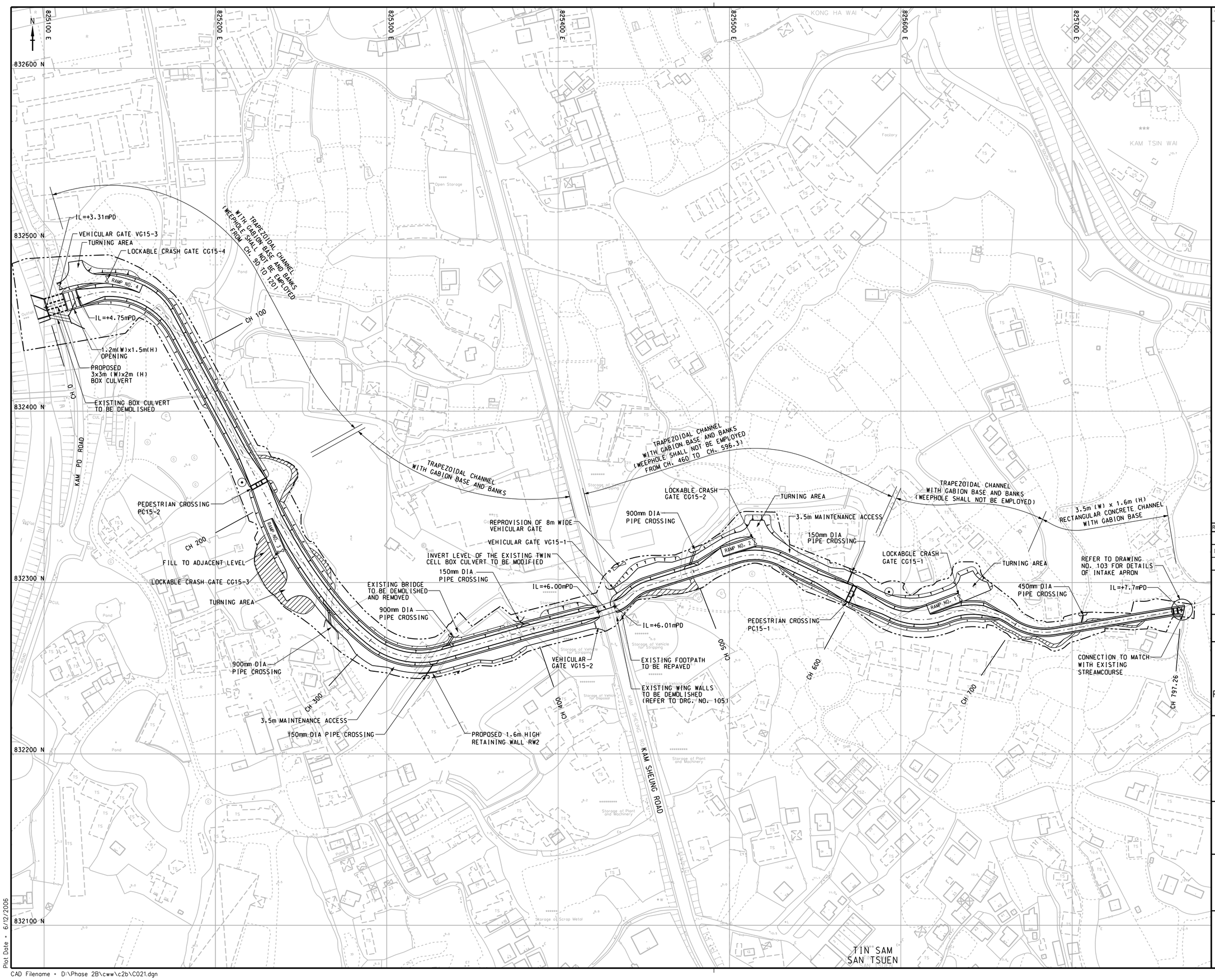
11.09 The ET will continue to implement the EM&A program and audit the implementation of the environmental mitigation measures.

Appendix A

Project Site Layout

NOTES :

1. REFER TO DRAWING NO. 020 FOR NOTES AND LEGENDS.



Revision	Date	Description			Initial
	Designed	Checked	Drawn	Verified	
Initial	SFL	KIL	MK	KIL	
Date	12/05	12/05	12/05	12/05	

Approved

CONTRACT NO. DC2006/02

Contract title

YUEN LONG, KAM TIN, NGAU TAM MEI AND TIN SHUI WAI DRAINAGE IMPROVEMENTS, STAGE 1, PHASE 2B – CHEUNG CHUN SAN TSUEN AND KAM TSIN WAI

Drawing title

CHANNEL KT15
GENERAL LAYOUT PLAN

Drawing no.

021

Scale

1:1000 A1
1:2000 A3

香港特別行政區政府渠務署
THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION
DRAINAGE SERVICES DEPARTMENT

BLACK & VEATCH HONG KONG LIMITED
博威工程顧問有限公司

Plot Date • 6/12/2006

CAD Filename • D:\Phase 2B\cww\c2b\C021.dgn

Appendix B

Three-Month Construction Program

PROGRAMME OF WORKS - MP03
Contract No. : DC / 2006 / 02
Contract Title : Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B - Cheung Chun San Tsuen and Kam Tsin Wai

CHIT CHEUNG CONSTRUCTION CO., LTD.
DATE : AUG 2007

ID	Task Name	Duration	Start	Finish	Predecessors	Successors
1	Letter of Acceptance	1 day	Wed 21/3/07	Wed 21/3/07		;S,193SS,199SS,196SS,202SS,212SS
2	Date for commencement of Works	1 day	Fri 30/3/07	Fri 30/3/07		133SS,136SS,139SS,168SS,185SS...
3	Execution of Article of Agreement	1 day	Tue 3/4/07	Tue 3/4/07		
4						
5	**Master Programme of the Works**	**839 days**	**Wed 21/3/07**	**Mon 6/7/09**		
6						
7	**Completion Dates**	**830 days**	**Fri 30/3/07**	**Mon 6/7/09**		**670FS-210 days,845FS-210 days**
8	Section I - portions 1, 2 and 3	830 days	Fri 30/3/07	Mon 6/7/09	2SS	31SS,37FF
9	Section II - portions 4, 5 and 5C	830 days	Fri 30/3/07	Mon 6/7/09	2SS	
10	Section III - portions 5A1, 5A2 and 5B	740 days	Thu 28/6/07	Mon 6/7/09	20FS-1 day	
11	Section IV - temp vehicular access at portion 5A1	90 days	Thu 28/6/07	Tue 25/9/07	20FS-1 day	22,884FF-1 day
12	Section V - preservation and protection of existing trees	830 days	Fri 30/3/07	Mon 6/7/09	2SS	
13						
14	**Possession of Site**	**200 days**	**Fri 30/3/07**	**Mon 15/10/07**		
15	Portion 1 - channel KT2	1 day	Fri 30/3/07	Fri 30/3/07	2SS	221FS+45 days,222FS+45 days,889
16	Portion 2 - channel KT2	61 days	Fri 30/3/07	Tue 29/5/07	2SS	143,895
17	Portion 3 - channel KT2	91 days	Fri 30/3/07	Thu 28/6/07	2SS	144,448,901
18	Portion 4 - channel KT15	1 day	Fri 30/3/07	Fri 30/3/07	2SS	625,907
19	Portion 5 - channel KT15	91 days	Fri 30/3/07	Thu 28/6/07	2SS	144,672,913,225FS-1 day
20	Portion 5A1 - channel KT15	91 days	Fri 30/3/07	Thu 28/6/07	2SS	10FS-1 day,11FS-1 day,144,847,919
21	Portion 5A2 - channel KT15	91 days	Fri 30/3/07	Thu 28/6/07	2SS	144,925
22	Portion 5B - channel KT15	20 days	Wed 26/9/07	Mon 15/10/07	11	145,931
23	Portion 5C - channel KT15	91 days	Fri 30/3/07	Thu 28/6/07	2SS	
24	Portion 6 - Temp Storage Area at Chi Ho Road	1 day	Fri 30/3/07	Fri 30/3/07	2SS	
25	Portion 7 - Berthing Area	1 day	Fri 30/3/07	Fri 30/3/07	2SS	
26	Portion 8 - Site Accommodation	1 day	Fri 30/3/07	Fri 30/3/07	2SS	;S,56SS,61SS,66SS,72SS,77SS,78SS
27						
28	**A. Preliminary Works**	**839 days**	**Wed 21/3/07**	**Mon 6/7/09**		
29	**1. Setting out of Works**	**830 days**	**Fri 30/3/07**	**Mon 6/7/09**	**2SS**	
30	**2. Environmental Monitoring and Audit**	**830 days**	**Fri 30/3/07**	**Mon 6/7/09**		
31	2.1 Establishment of Environmental Team	14 days	Fri 30/3/07	Thu 12/4/07	8SS	32
32	2.2 approval by the Engineer	7 days	Fri 13/4/07	Thu 19/4/07	31	34
33	2.3 Environmental baseline monitoring	77 days	Fri 20/4/07	Thu 5/7/07		
34	a. Technical proposal & methodology	7 days	Fri 20/4/07	Thu 26/4/07	32	35
35	b. Approval by the Engineer	7 days	Fri 27/4/07	Thu 3/5/07	34	36
36	c. Baseline monitoring	63 days	Fri 4/5/07	Thu 5/7/07	35	37,233,328,622,663
37	2.4 Environmental impact monitoring and audit	730 days	Sun 8/7/07	Mon 6/7/09	36,8FF	
38	**3. Environmental Management and Environmental Management Plan**	**73 days**	**Fri 30/3/07**	**Sun 10/6/07**		
39	3.1 Submission of draft EMP	21 days	Fri 30/3/07	Thu 19/4/07	2SS	40

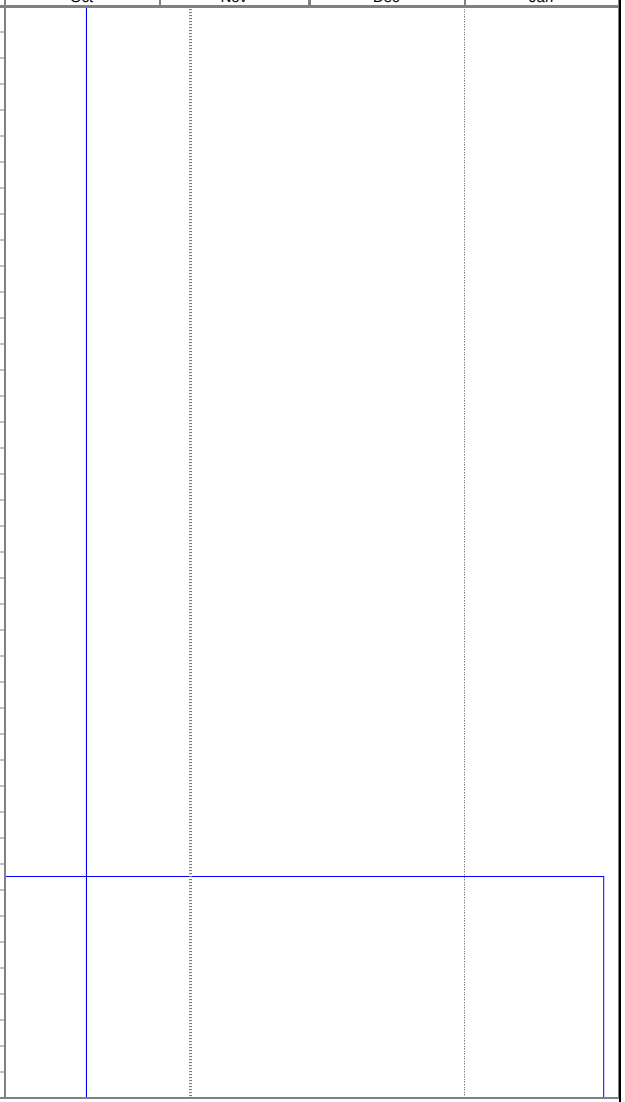
Project: PROGRAMME OF WORKS
Page: 1 of 23

Task
Milestone
Rolled Up Critical Task
Split
Group By Summary
Critical Task
Summary
Rolled Up Milestone
External Tasks
Deadline
Progress
Rolled Up Task
Rolled Up Progress
Project Summary

PROGRAMME OF WORKS - MP03
Contract No. : DC / 2006 / 02
Contract Title : Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B - Cheung Chun San Tsuen and Kam Tsin Wai

CHIT CHEUNG CONSTRUCTION CO., LTD.
DATE : AUG 2007

ID	Task Name	Duration	Start	Finish	Predecessors	Successors
40	3.2 Comment from the Engineer	7 days	Fri 20/4/07	Thu 26/4/07	39	41
41	3.3 Submission of EMP	45 days	Fri 27/4/07	Sun 10/6/07	40	
42	**4. Engineer's Accommodation**	**51 days**	**Fri 30/3/07**	**Sat 19/5/07**		
43	4.1 Renovation	30 days	Fri 30/3/07	Sat 28/4/07	26SS	50FS-7 days
44	4.2 Equipment	51 days	Fri 30/3/07	Sat 19/5/07		
45	a. Contract telephone	21 days	Fri 30/3/07	Thu 19/4/07	26SS	
46	b. Survey equipment	45 days	Fri 30/3/07	Sun 13/5/07	26SS	
47	c. Contract computer facilities	**51 days**	**Fri 30/3/07**	**Sat 19/5/07**		
48	submission	14 days	Fri 30/3/07	Thu 12/4/07	26SS	49
49	approval	7 days	Fri 13/4/07	Thu 19/4/07	48	50
50	installation	21 days	Sun 22/4/07	Sat 12/5/07	49,43FS-7 days	51
51	testing & commissioning	7 days	Sun 13/5/07	Sat 19/5/07	50	
52	4.3 utilities servicing	33 days	Fri 30/3/07	Tue 1/5/07		
53	a. Water	1 day	Fri 30/3/07	Fri 30/3/07	26SS	
54	b. Electricity	1 day	Fri 30/3/07	Fri 30/3/07	26SS	
55	c. Telephone	**33 days**	**Fri 30/3/07**	**Tue 1/5/07**		
56	temporary service	32 days	Fri 30/3/07	Mon 30/4/07	26SS	58SS+14 days
57	new service	**19 days**	**Fri 13/4/07**	**Tue 1/5/07**		
58	application	5 days	Fri 13/4/07	Tue 17/4/07	56SS+14 days	59
59	installation	14 days	Wed 18/4/07	Tue 1/5/07	58	
60	d. Facsimile	**33 days**	**Fri 30/3/07**	**Tue 1/5/07**		
61	temporary service	32 days	Fri 30/3/07	Mon 30/4/07	26SS	63SS+14 days
62	new service	**19 days**	**Fri 13/4/07**	**Tue 1/5/07**		
63	application	5 days	Fri 13/4/07	Tue 17/4/07	61SS+14 days	64
64	installation	14 days	Wed 18/4/07	Tue 1/5/07	63	
65	e. Internet broadband	**33 days**	**Fri 30/3/07**	**Tue 1/5/07**		
66	temporary service (56K)	32 days	Fri 30/3/07	Mon 30/4/07	26SS	68SS+14 days
67	new service	**19 days**	**Fri 13/4/07**	**Tue 1/5/07**		
68	application	5 days	Fri 13/4/07	Tue 17/4/07	66SS+14 days	69
69	installation	14 days	Wed 18/4/07	Tue 1/5/07	68	
70	**5. Contractor's Accommodation**	**45 days**	**Fri 30/3/07**	**Sun 13/5/07**		
71	5.1 Provision	45 days	Fri 30/3/07	Sun 13/5/07		
72	a. Premises	45 days	Fri 30/3/07	Sun 13/5/07	26SS	73FF,74FF,75FF,76FF
73	b. Toilet facilities	21 days	Mon 23/4/07	Sun 13/5/07	72FF	939
74	c. Telephone service	30 days	Sat 14/4/07	Sun 13/5/07	72FF	99FF
75	d. Fascimile service	30 days	Sat 14/4/07	Sun 13/5/07	72FF	
76	e. Internet broadband service	30 days	Sat 14/4/07	Sun 13/5/07	72FF	
77	f. Water	1 day	Fri 30/3/07	Fri 30/3/07	26SS	
78	g. electricity	1 day	Fri 30/3/07	Fri 30/3/07	26SS	
79	**6. Transport (land) for the Engineer**	**124 days**	**Fri 30/3/07**	**Tue 31/7/07**		
80	6.1 submission	7 days	Fri 30/3/07	Thu 5/4/07	2SS	81
81	6.2 comment & approval	14 days	Fri 6/4/07	Thu 19/4/07	80	82



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PROGRAMME OF WORKS - MP03
Contract No. : DC / 2006 / 02
Contract Title : Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B - Cheung Chun San Tsuen and Kam Tsin Wai

CHIT CHEUNG CONSTRUCTION CO., LTD.
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ID	Task Name	Duration	Start	Finish	Predecessors	Successors
82	6.3 delivery	103 days	Fri 20/4/07	Tue 31/7/07	81	83FF
83	6.4 temp service	124 days	Fri 30/3/07	Tue 31/7/07	2SS,82FF	
84	**7. Transport (land) for Public Works Regional Laboratory**	**124 days**	**Fri 30/3/07**	**Tue 31/7/07**		
85	7.1 submission	7 days	Fri 30/3/07	Thu 5/4/07	2SS	86
86	7.2 comment, approval & instruction	14 days	Fri 6/4/07	Thu 19/4/07	85	87
87	7.3 delivery	103 days	Fri 20/4/07	Tue 31/7/07	86	
88	**8. Signboard**	**150 days**	**Fri 30/3/07**	**Sun 26/8/07**		
89	8.1 Major	150 days	Fri 30/3/07	Sun 26/8/07		
90	submission	90 days	Fri 30/3/07	Wed 27/6/07	2SS	91SS+30 days
91	comment & approval	90 days	Sun 29/4/07	Fri 27/7/07	90SS+30 days	92SS+30 days
92	erection	90 days	Tue 29/5/07	Sun 26/8/07	91SS+30 days	
93	8.2 Minor	150 days	Fri 30/3/07	Sun 26/8/07		
94	submission	90 days	Fri 30/3/07	Wed 27/6/07	2SS	95SS+30 days
95	comment & approval	90 days	Sun 29/4/07	Fri 27/7/07	94SS+30 days	96SS+30 days
96	erection	90 days	Tue 29/5/07	Sun 26/8/07	95SS+30 days	
97	**9. Telephone hotline**	**15 days**	**Sun 29/4/07**	**Sun 13/5/07**		
98	9.1 Engineer's instruction	1 day	Sun 29/4/07	Mon 30/4/07	99SF	
99	9.2 installation	14 days	Mon 30/4/07	Sun 13/5/07	74FF	98SF
100	**10. Contractual general submissions**	**839 days**	**Wed 21/3/07**	**Mon 6/7/09**		
101	10.1 programmes	28 days	Wed 21/3/07	Tue 17/4/07		
102	a. GCC Clause 16 programme	14 days	Wed 21/3/07	Tue 3/4/07	1SS	103,104
103	b. Works programme & financial programme	14 days	Wed 4/4/07	Tue 17/4/07	102	
104	c. 3-month rolling programme	14 days	Wed 4/4/07	Tue 17/4/07	102	
105	10.2 contractor's superintendence	14 days	Fri 30/3/07	Thu 12/4/07		
106	a. Agent	7 days	Fri 30/3/07	Thu 5/4/07	2SS	
107	b. Surveyor	14 days	Fri 30/3/07	Thu 12/4/07	2SS	
108	c. Sub-agent	14 days	Fri 30/3/07	Thu 12/4/07	2SS	
109	d. Geotechnical Engineer	7 days	Fri 30/3/07	Thu 5/4/07	2SS	
110	e. Geotechnical Supervisor	14 days	Fri 30/3/07	Thu 12/4/07	2SS	
111	f. Foreman - concrete	14 days	Fri 30/3/07	Thu 12/4/07	2SS	
112	g. Foreman - drainage	14 days	Fri 30/3/07	Thu 12/4/07	2SS	
113	h. Staff Organization Plan	14 days	Fri 30/3/07	Thu 12/4/07	2SS	
114	10.3 Safety Organization	14 days	Fri 30/3/07	Thu 12/4/07		
115	a. Safety Officer	14 days	Fri 30/3/07	Thu 12/4/07	2SS	
116	b. Safety Supervisor	14 days	Fri 30/3/07	Thu 12/4/07	2SS	
117	c. Safety Representative	14 days	Fri 30/3/07	Thu 12/4/07	2SS	
118	10.4 TTMS design	7 days	Fri 30/3/07	Thu 5/4/07		
119	a. Independent Traffic Consultant	7 days	Fri 30/3/07	Thu 5/4/07	2SS	
120	b. Traffic Engineer	7 days	Fri 30/3/07	Thu 5/4/07	2SS	
121	10.5 Assistant to Engineer	33 days	Fri 30/3/07	Tue 1/5/07		
122	a. Chainmen (4)	33 days	Fri 30/3/07	Tue 1/5/07	2SS	
123	b. Watchmen (2)	33 days	Fri 30/3/07	Tue 1/5/07	2SS	

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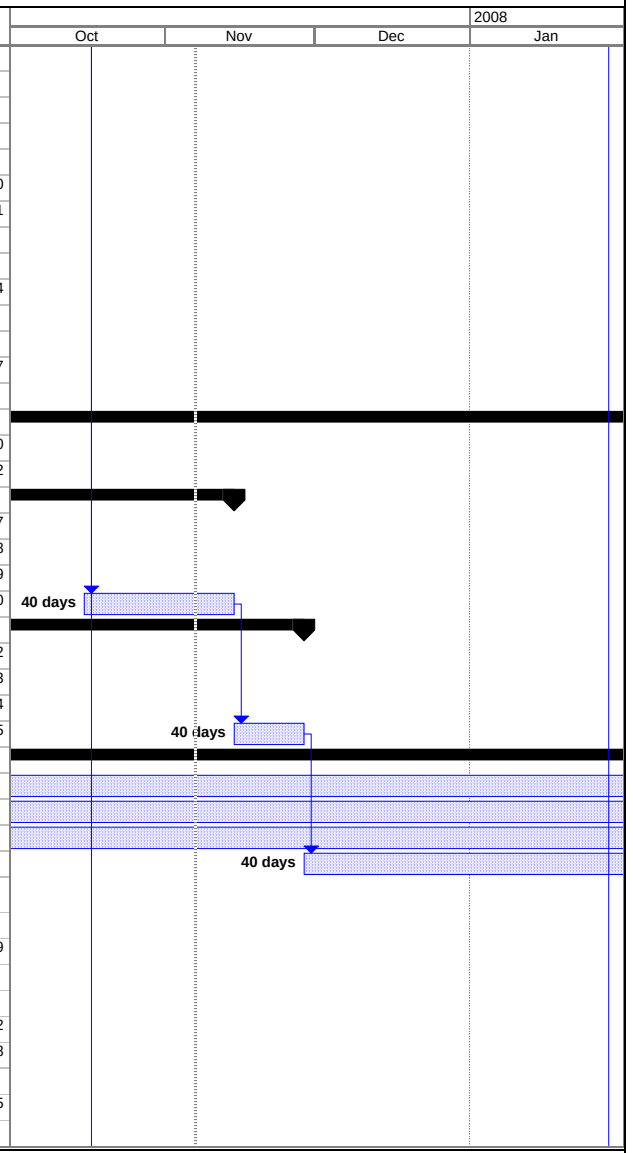
PROGRAMME OF WORKS - MP03
Contract No. : DC / 2006 / 02
Contract Title : Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B - Cheung Chun San Tsuen and Kam Tsin Wai

CHIT CHEUNG CONSTRUCTION CO., LTD.
DATE : AUG 2007

ID	Task Name	Duration	Start	Finish	Predecessors	Successors
124	c. Field assistant (1)	33 days	Fri 30/3/07	Tue 1/5/07	2SS	
125	d. Technical assistant (1)	33 days	Fri 30/3/07	Tue 1/5/07	2SS	
126	e. Clerical assistant (1)	33 days	Fri 30/3/07	Tue 1/5/07	2SS	
127	f. Office assistant (1)	33 days	Fri 30/3/07	Tue 1/5/07	2SS	
128	10.6 Underground service detection equipment	35 days	Fri 30/3/07	Thu 3/5/07		
129	a. Submission	7 days	Fri 30/3/07	Thu 5/4/07	2SS	130
130	b. Comment & approval	14 days	Fri 6/4/07	Thu 19/4/07	129	131
131	c. Provision	14 days	Fri 20/4/07	Thu 3/5/07	130	
132	10.7 Independent Checking of Temporary Works	28 days	Fri 30/3/07	Thu 26/4/07		
133	a. Submission of independent checking engineer	14 days	Fri 30/3/07	Thu 12/4/07	2SS	134
134	b. Comment & approval	14 days	Fri 13/4/07	Thu 26/4/07	133	
135	10.8 Trip ticket system for C & D material	59 days	Fri 30/3/07	Sun 27/5/07		
136	a. Submission of site management plan	45 days	Fri 30/3/07	Sun 13/5/07	2SS	137
137	b. Comment & approval	14 days	Mon 14/5/07	Sun 27/5/07	136	
138	10.9. Condition survey and structral monitoring	830 days	Fri 30/3/07	Mon 6/7/09		
139	a. Submission of Independent Structural Engineer	14 days	Fri 30/3/07	Thu 12/4/07	2SS	140
140	b. Comment & approval	7 days	Fri 13/4/07	Thu 19/4/07	139	142
141	c. Proposal for condition survey & structural monitoring	209 days	Fri 20/4/07	Wed 14/11/07		
142	Portion 1, 4, 6, 7, 8	30 days	Fri 20/4/07	Sat 19/5/07	140	147
143	Portion 2	30 days	Wed 30/5/07	Thu 28/6/07	16	148
144	Portion 3, 5, 5A1, 5A2	30 days	Fri 29/6/07	Sat 28/7/07	17,19,20,21	149
145	Portion 5B	30 days	Tue 16/10/07	Wed 14/11/07	22	150
146	d. Comment & approval	193 days	Sun 20/5/07	Wed 28/11/07		
147	Portion 1, 4, 6, 7, 8	14 days	Sun 20/5/07	Sat 2/6/07	142	152
148	Portion 2	14 days	Fri 29/6/07	Thu 12/7/07	143	153
149	Portion 3, 5, 5A1, 5A2	14 days	Sun 29/7/07	Sat 11/8/07	144	154
150	Portion 5B	14 days	Thu 15/11/07	Wed 28/11/07	145	155
151	e. Condition survey & structural monitoring	765 days	Sun 3/6/07	Mon 6/7/09		
152	Portion 1, 4, 6, 7, 8	765 days	Sun 3/6/07	Mon 6/7/09	147	
153	Portion 2	725 days	Fri 13/7/07	Mon 6/7/09	148	
154	Portion 3, 5, 5A1, 5A2	695 days	Sun 12/8/07	Mon 6/7/09	149	
155	Portion 5B	546 days	Thu 29/11/07	Wed 27/5/09	150	
156	10.10 Handling & disposal of Type 1 & 2 contaminated materials	74 days	Sat 14/7/07	Tue 25/9/07		
157	a. Proposed type of dump truck	44 days	Sun 15/7/07	Mon 27/8/07		
158	Submission	30 days	Sun 15/7/07	Mon 13/8/07	705SS-44 days	159
159	Comment & approval	14 days	Tue 14/8/07	Mon 27/8/07	158	
160	b. Proposal of berthing area arrangement	44 days	Mon 30/7/07	Tue 11/9/07		
161	Submission	30 days	Mon 30/7/07	Tue 28/8/07		162
162	Comment & approval	14 days	Wed 29/8/07	Tue 11/9/07	161	938
163	c. Proposal of disposal arrangement	74 days	Sat 14/7/07	Tue 25/9/07		
164	Submission	60 days	Sat 14/7/07	Tue 11/9/07		165
165	Comment & approval	14 days	Wed 12/9/07	Tue 25/9/07	164	



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PROGRAMME OF WORKS - MP03
Contract No. : DC / 2006 / 02
Contract Title : Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B - Cheung Chun San Tsuen and Kam Tsin Wai

CHIT CHEUNG CONSTRUCTION CO., LTD.
DATE : AUG 2007

ID	Task Name	Duration	Start	Finish	Predecessors	Successors
166	10.11 Handling & treatment of Type 3 contaminated material	581 days	Fri 30/3/07	Thu 30/10/08		
167	a. Decontamination specialist	134 days	Fri 30/3/07	Fri 10/8/07		
168	Submission	120 days	Fri 30/3/07	Fri 27/7/07	2SS	169
169	Comment & approval	14 days	Sat 28/7/07	Fri 10/8/07	168	171
170	b. Statement & treatment programme	42 days	Sat 11/8/07	Fri 21/9/07		
171	(1) Submission	28 days	Sat 11/8/07	Fri 7/9/07	169	173,174
172	(2) Comment & approval	14 days	Sat 8/9/07	Fri 21/9/07		
173	by the Engineer	14 days	Sat 8/9/07	Fri 21/9/07	171	
174	by the EPD	14 days	Sat 8/9/07	Fri 21/9/07	171	175
175	c. Setting up of Treatment Plant	60 days	Mon 1/9/08	Thu 30/10/08	174,529SS-61 days	
176	10.12 Safety Plan	35 days	Wed 21/3/07	Tue 24/4/07		
177	a. Submission of draft Safety Plan	14 days	Wed 21/3/07	Tue 3/4/07	1SS	178
178	b. Comment by the Engineer	7 days	Wed 4/4/07	Tue 10/4/07	177	179
179	c. Submission of Safety Plan	14 days	Wed 11/4/07	Tue 24/4/07	178	
180	10.13 Sub-contractor Management Plan	839 days	Wed 21/3/07	Mon 6/7/09		
181	a. Submission of SMP	30 days	Wed 21/3/07	Thu 19/4/07	1SS	182
182	b. For information & Comments	14 days	Fri 20/4/07	Thu 3/5/07	181	183
183	c. Update SMP	795 days	Fri 4/5/07	Mon 6/7/09	182	
184	10.14 proof of plant ownership	830 days	Fri 30/3/07	Mon 6/7/09		
185	a. Submission of draft written undertaking	14 days	Fri 30/3/07	Thu 12/4/07	2SS	186
186	b. Comment by the Engineer / Employer	14 days	Fri 13/4/07	Thu 26/4/07	185	187
187	c. Engineer's request	802 days	Fri 27/4/07	Mon 6/7/09	186	
188	10.15 Contractor's Management Team	830 days	Fri 30/3/07	Mon 6/7/09		
189	a. Submission of staff member details	14 days	Fri 30/3/07	Thu 12/4/07	2SS	190
190	b. Update management / site supervision team	816 days	Fri 13/4/07	Mon 6/7/09	189	
191	10.16 Water supply pipeworks material	28 days	Wed 21/3/07	Tue 17/4/07		
192	a. Supplier	28 days	Wed 21/3/07	Tue 17/4/07		
193	Submission	14 days	Wed 21/3/07	Tue 3/4/07	1SS	194
194	comment & approval	14 days	Wed 4/4/07	Tue 17/4/07	193	
195	b. Manufacturer	28 days	Wed 21/3/07	Tue 17/4/07		
196	Submission	14 days	Wed 21/3/07	Tue 3/4/07	1SS	197
197	comment & approval	14 days	Wed 4/4/07	Tue 17/4/07	196	
198	c. Independent Inspection Agent (IIA)	28 days	Wed 21/3/07	Tue 17/4/07		
199	Submission	14 days	Wed 21/3/07	Tue 3/4/07	1SS	200
200	comment & approval	14 days	Wed 4/4/07	Tue 17/4/07	199	
201	d. Representative of the IIA	28 days	Wed 21/3/07	Tue 17/4/07		
202	Submission	14 days	Wed 21/3/07	Tue 3/4/07	1SS	203
203	comment & approval	14 days	Wed 4/4/07	Tue 17/4/07	202	
204	10.17 Landscape softworks and establishment works	28 days	Fri 30/3/07	Thu 26/4/07		
205	a. Submission of technical information	14 days	Fri 30/3/07	Thu 12/4/07	2SS	206
206	b. Comment & approval	14 days	Fri 13/4/07	Thu 26/4/07	205	
207	10.18 Preservation and protection of existing trees	59 days	Wed 21/3/07	Fri 18/5/07		

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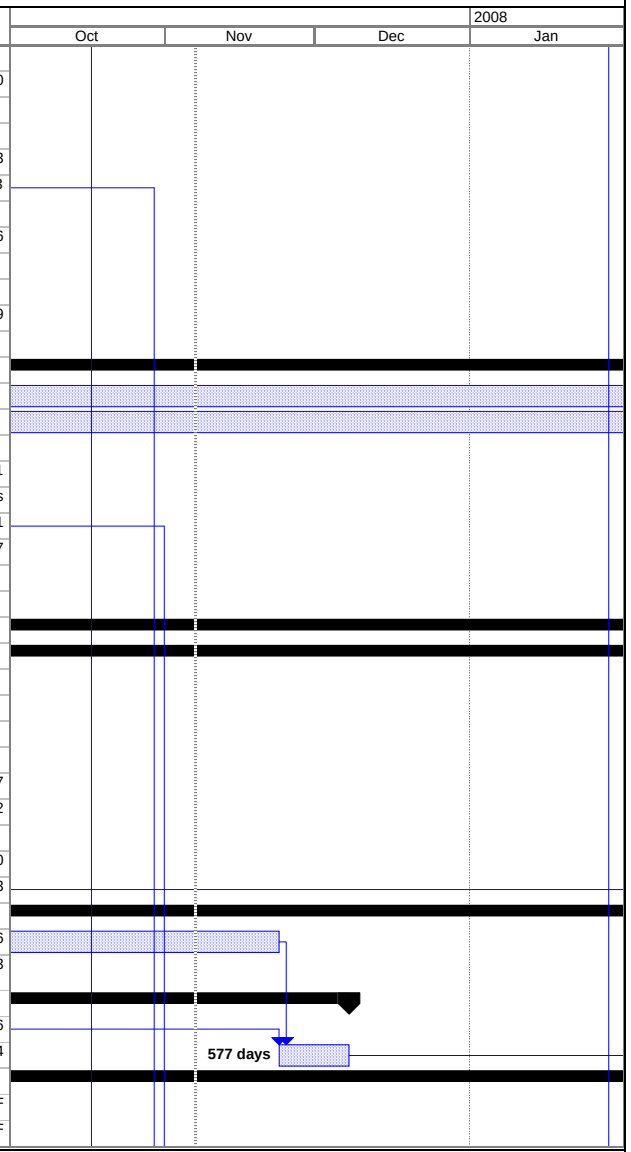
PROGRAMME OF WORKS - MP03
Contract No. : DC / 2006 / 02
Contract Title : Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B - Cheung Chun San Tsuen and Kam Tsin Wai

CHIT CHEUNG CONSTRUCTION CO., LTD.
DATE : AUG 2007

ID	Task Name	Duration	Start	Finish	Predecessors	Successors
208	a. Specialist contractor (landscaping Class I)	28 days	Fri 30/3/07	Thu 26/4/07		
209	Submission	14 days	Fri 30/3/07	Thu 12/4/07	2SS	210
210	Comment & approval	14 days	Fri 13/4/07	Thu 26/4/07	209	
211	b. Site supervisory staff	59 days	Wed 21/3/07	Fri 18/5/07		
212	Submission	45 days	Wed 21/3/07	Fri 4/5/07	1SS	213
213	Comment & approval	14 days	Sat 5/5/07	Fri 18/5/07	212	891,897,903,909,915,921,927,933
214	10.19 Concrete (ready mix)	28 days	Fri 30/3/07	Thu 26/4/07		
215	a. Submission of supplier & design mix	21 days	Fri 30/3/07	Thu 19/4/07	2SS	216
216	b. Comment & approval	7 days	Fri 20/4/07	Thu 26/4/07	215	
217	10.20 Steel reinforcement	35 days	Fri 30/3/07	Thu 3/5/07		
218	a. Submission of supplier	28 days	Fri 30/3/07	Thu 26/4/07	2SS	219
219	b. Comment & approval	7 days	Fri 27/4/07	Thu 3/5/07	218	
220	10.21 Submissions of method statement / materials	750 days	Tue 15/5/07	Tue 2/6/09		
221	a. Submission of materials	750 days	Tue 15/5/07	Tue 2/6/09	15FS+45 days	
222	b. Submission of method statement	750 days	Tue 15/5/07	Tue 2/6/09	15FS+45 days	
223	**11. Provision of wheel washing facilities**	**180 days**	**Fri 30/3/07**	**Tue 25/9/07**		
224	11.1 Channel KT2	120 days	Fri 30/3/07	Fri 27/7/07	2SS	233,328,448,471
225	11.2 Channel KT15	90 days	Thu 28/6/07	Tue 25/9/07	19FS-1 day	622,663SS+75 days
226	11.3 Berthing area	90 days	Fri 30/3/07	Wed 27/6/07	2SS	491
227	11.4 Portion 6	45 days	Fri 30/3/07	Sun 13/5/07	2SS	897
228	**12. Setting up of traffic management liaison group**	30 days	Fri 30/3/07	Sat 28/4/07	2SS	
229						
230	**B. Section I of the Works**	**830 days**	**Fri 30/3/07**	**Mon 6/7/09**		
231	**B1. Portion 1**	**790 days**	**Fri 30/3/07**	**Wed 27/5/09**		
232	**1. Site clearance**	**30 days**	**Sat 28/7/07**	**Sun 26/8/07**		
233	1.1 General site clearance	30 days	Sat 28/7/07	Sun 26/8/07	36,224,893,891	
234	**2. Temporary Traffic Management Scheme**	**59 days**	**Fri 30/3/07**	**Sun 27/5/07**		
235	2.1 TTMS Proposal (trial pits in Chi Ho Road for utilities)	59 days	Fri 30/3/07	Sun 27/5/07		
236	a. Submission	45 days	Fri 30/3/07	Sun 13/5/07	2SS	237
237	b. comments & approvals by Engineer & TMLG	14 days	Mon 14/5/07	Sun 27/5/07	236	242
238	2.2 TTMS Proposal (for construction of box culvet)	59 days	Fri 30/3/07	Sun 27/5/07		
239	a. Submission	45 days	Fri 30/3/07	Sun 13/5/07		240
240	b. comments & approvals by Engineer & TMLG	14 days	Mon 14/5/07	Sun 27/5/07	239	243
241	**3. Excavation Permits**	**521 days**	**Mon 28/5/07**	**Wed 29/10/08**		
242	3.1 application and issue of permit (trial pits in Chi Ho Road	180 days	Mon 28/5/07	Fri 23/11/07	237	246
243	3.2 application and issue of permits (for construction of box culvert)	180 days	Sat 3/5/08	Wed 29/10/08	240	263
244	**4. Underground utilities detection**	**253 days**	**Fri 30/3/07**	**Fri 7/12/07**		
245	4.1 utlities detection	28 days	Fri 30/3/07	Thu 26/4/07	2SS	246
246	4.2 trial trench excavtion & identification	14 days	Sat 24/11/07	Fri 7/12/07	245,242	254
247	**5. Utilities temporary diversion / protection**	**493 days**	**Thu 27/9/07**	**Sat 31/1/09**		
248	a. WSD watermain along village vehicular access	103 days	Wed 7/5/08	Sun 17/8/08	284SS	309FF
249	b. Street lighting along village vehicular access	103 days	Wed 7/5/08	Sun 17/8/08	284SS	309FF



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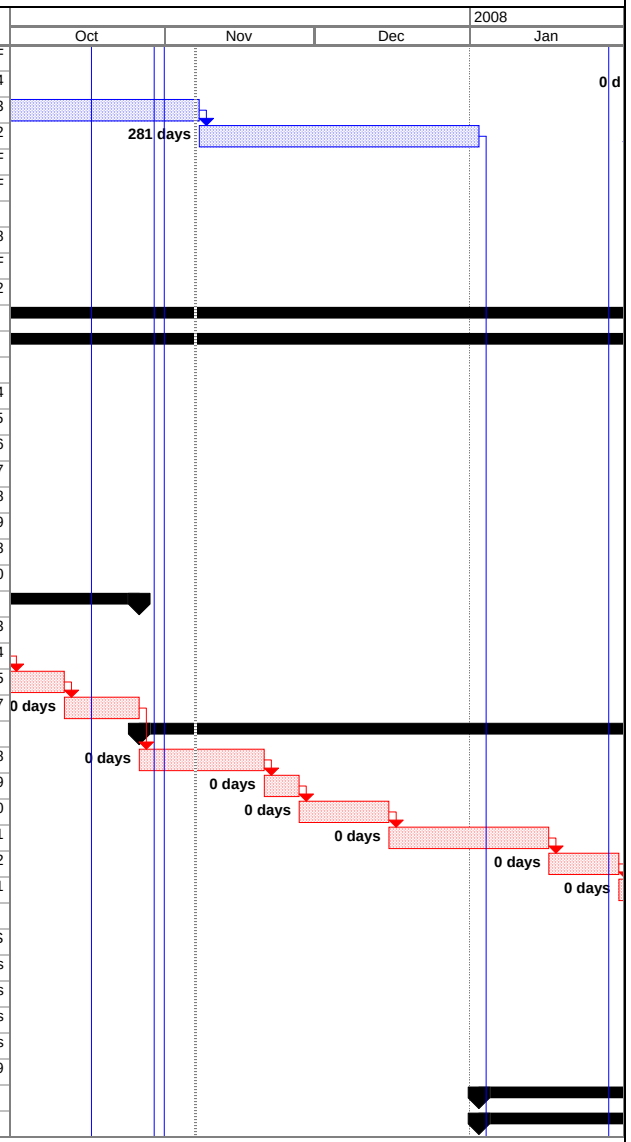
ID	Task Name	Duration	Start	Finish	Predecessors	Successors
250	c. PCCW along village vehicular access	103 days	Wed 7/5/08	Sun 17/8/08	284SS	309FF
251	d. CLP overhead cable at Bay 4	90 days	Thu 7/2/08	Tue 6/5/08	282	284
252	e. CH 816~CH841 underground cables (33kV)	42 days	Thu 27/9/07	Wed 7/11/07	259	253
253	f. CH 816~CH841 underground cables (132kV)	56 days	Thu 8/11/07	Wed 2/1/08	252	292
254	g. Street lighting at Chi Ho Road	92 days	Sat 1/11/08	Sat 31/1/09	264SS,246	270FF
255	h. Irrigation pipe at Chi Ho Road	92 days	Sat 1/11/08	Sat 31/1/09	264SS	270FF
256	**6. Drainage Management Plan (Ch810 to Ch850)**	**77 days**	**Thu 12/7/07**	**Wed 26/9/07**		
257	6.1 Submission of DMPs	1 day	Thu 12/7/07	Thu 12/7/07		258
258	6.2 Comments by the Engineer	14 days	Fri 13/7/07	Thu 26/7/07	257	259SF
259	6.3 Implementation of DMP	3 days	Mon 24/9/07	Wed 26/9/07	258SF	252
260	**7. Box Culvert and Channel**	**550 days**	**Wed 1/8/07**	**Sat 31/1/09**		
261	7.1 Box Culvert BC2-1	550 days	Wed 1/8/07	Sat 31/1/09		
262	a. Ch0-Ch15 (Bay 1 and Outlet)	94 days	Thu 30/10/08	Sat 31/1/09		
263	Remove road pavement and expose existing utiliti	2 days	Thu 30/10/08	Fri 31/10/08	243,324	264
264	Excavation	9 days	Sat 1/11/08	Sun 9/11/08	263	254SS,255SS,265
265	Granular Bedding	5 days	Mon 10/11/08	Fri 14/11/08	264	266
266	Base Slab	21 days	Sat 15/11/08	Fri 5/12/08	265	267
267	Wall and Deck	31 days	Sat 6/12/08	Mon 5/1/09	266	268
268	Curing	14 days	Tue 6/1/09	Mon 19/1/09	267	269
269	Trench Backfill	3 days	Tue 20/1/09	Thu 22/1/09	268,390FF,391FF,392FF,395FF,3	308
270	Reinstatement of Chi Ho Road	6 days	Mon 26/1/09	Sat 31/1/09	254FF,255FF,308	320
271	b. Temporary Bund in AFCD Pond	87 days	Wed 1/8/07	Fri 26/10/07		
272	1. Proposal	31 days	Wed 1/8/07	Fri 31/8/07		273
273	2. Comments by the Engineer and AFCD	30 days	Sat 1/9/07	Sun 30/9/07	272	274
274	3.Modified chain link fence	11 days	Mon 1/10/07	Thu 11/10/07	273	275
275	4. Construction of temporary bund	15 days	Fri 12/10/07	Fri 26/10/07	274	277
276	c. Ch15-Ch32 (Bays 2 & 3)	103 days	Sat 27/10/07	Wed 6/2/08		
277	Excavation	25 days	Sat 27/10/07	Tue 20/11/07	275	278
278	Granular Bedding	7 days	Wed 21/11/07	Tue 27/11/07	277	279
279	Base Slab	18 days	Wed 28/11/07	Sat 15/12/07	278	280
280	Wall and Deck	32 days	Sun 16/12/07	Wed 16/1/08	279	281
281	Curing	14 days	Thu 17/1/08	Wed 30/1/08	280	282
282	Trench Backfill	7 days	Thu 31/1/08	Wed 6/2/08	281	251
283	d. Ch32-Ch88 (Bays 4 - 8)	137 days	Wed 7/5/08	Sat 20/9/08		
284	Excavation	50 days	Wed 7/5/08	Wed 25/6/08	251,321	285SS+10 days,248SS,249SS,250SS
285	Granular Bedding	60 days	Sat 17/5/08	Tue 15/7/08	284SS+10 days	286SS+6 days
286	Base Slab	75 days	Fri 23/5/08	Tue 5/8/08	285SS+6 days	287SS+9 days
287	Wall and Deck	87 days	Sun 1/6/08	Tue 26/8/08	286SS+9 days	288SS+16 days
288	Curing	85 days	Tue 17/6/08	Tue 9/9/08	287SS+16 days	289SS+14 days
289	Trench Backfill	82 days	Tue 1/7/08	Sat 20/9/08	288SS+14 days	309
290	7.2 Channel	339 days	Thu 3/1/08	Sat 6/12/08		
291	a. Ch840-Ch844 (Bay 56b)	91 days	Thu 3/1/08	Wed 2/4/08		



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PROGRAMME OF WORKS - MP03
Contract No. : DC / 2006 / 02
Contract Title : Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B - Cheung Chun San Tsuen and Kam Tsin Wai

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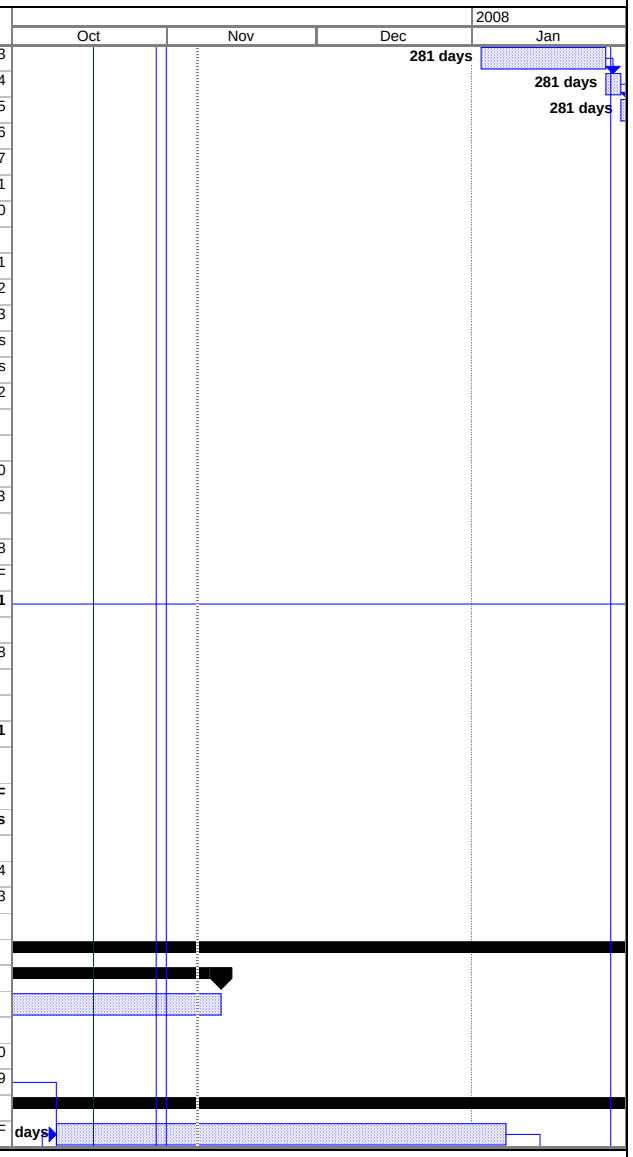
ID	Task Name	Duration	Start	Finish	Predecessors	Successors
292	Excavation (including contamination materials)	25 days	Thu 3/1/08	Sun 27/1/08	253	293
293	Granular Bedding	3 days	Mon 28/1/08	Wed 30/1/08	292	294
294	Base Slab	22 days	Thu 31/1/08	Thu 21/2/08	293	295
295	Wall and Deck	23 days	Fri 22/2/08	Sat 15/3/08	294	296
296	Curing	14 days	Sun 16/3/08	Sat 29/3/08	295	297
297	Trench Backfill	4 days	Sun 30/3/08	Wed 2/4/08	296	311
298	b. Demolition of existing crossing	20 days	Thu 11/9/08	Tue 30/9/08	311	300
299	c. Ch800-840 (Bay 56a)	67 days	Wed 1/10/08	Sat 6/12/08		
300	Excavation (including contamination materials)	12 days	Wed 1/10/08	Sun 12/10/08	298	301
301	Granular Bedding	3 days	Mon 13/10/08	Wed 15/10/08	300	302
302	Base Slab	12 days	Thu 16/10/08	Mon 27/10/08	301	303
303	Wall and Deck	22 days	Tue 28/10/08	Tue 18/11/08	302	304SS+10 days
304	Curing	26 days	Fri 7/11/08	Tue 2/12/08	303SS+10 days	305SS+14 days
305	Trench Backfill	16 days	Fri 21/11/08	Sat 6/12/08	304SS+14 days	312
306	**8. Filling in Platform**	**142 days**	**Sat 6/9/08**	**Sun 25/1/09**		
307	8.1 Box Culvert	127 days	Sun 21/9/08	Sun 25/1/09		
308	a. Ch0-Ch15 (Bay 1 and Outlet)	3 days	Fri 23/1/09	Sun 25/1/09	269	270
309	b. Ch15-Ch88 (Bay 2 to Bay 8)	10 days	Sun 21/9/08	Tue 30/9/08	289,248FF,249FF,250FF	315,316,323
310	8.2 Channel	112 days	Sat 6/9/08	Fri 26/12/08		
311	a. Ch840-Ch844 (Bay 56b)	5 days	Sat 6/9/08	Wed 10/9/08	505,297	298
312	b. Ch800-840 (Bay 56a)	20 days	Sun 7/12/08	Fri 26/12/08	305	588FF
313	**9. Geotechnical Instrumentation for CLP Pylon**	**4 days**	**Mon 24/9/07**	**Thu 27/9/07**		**341**
314	**10. Drainage works (except Bays 56a and 56b)**	**45 days**	**Wed 1/10/08**	**Fri 14/11/08**		
315	a. storm drain with manhole	30 days	Wed 1/10/08	Thu 30/10/08	309	317SS+30 days,318
316	b. surface drain	45 days	Wed 1/10/08	Fri 14/11/08	309	
317	**11. Water supply pipeworks**	**60 days**	**Fri 31/10/08**	**Mon 29/12/08**	**315SS+30 days**	
318	**12. Roads and paving (except Bays 56a and 56b)**	**52 days**	**Fri 31/10/08**	**Sun 21/12/08**	**315**	**319SS+30 days,341**
319	**13. Street furnitures / traffic sign / road marking (except Ba**	**52 days**	**Sun 30/11/08**	**Tue 20/1/09**	**318SS+30 days**	
320	**14. Landscape softworks / hardworks (except Bays 56a and**	**84 days**	**Thu 5/3/09**	**Wed 27/5/09**	**437SS,270**	**892FF**
321	**15. Diversion of Village Vehicular Access to Bays 9 -11**	**1 day**	**Sat 15/3/08**	**Sat 15/3/08**	**428,429**	**284,441SS-10 days**
322	**16. Road Diversion in Chi Ho Road**	**8 days**	**Wed 1/10/08**	**Wed 8/10/08**		
323	a. Construction of temporary road above Box Culvert	7 days	Wed 1/10/08	Tue 7/10/08	309	324
324	b. Implementation of road diversion	1 day	Wed 8/10/08	Wed 8/10/08	323	263
325						
326	**B2. Portion 2**	**830 days**	**Fri 30/3/07**	**Mon 6/7/09**		
327	**1. Site clearance**	**90 days**	**Tue 14/8/07**	**Sun 11/11/07**		
328	1.1 General clearance	90 days	Tue 14/8/07	Sun 11/11/07	36,897,224,899	
329	**2. Underground utilities detection**	**42 days**	**Tue 3/7/07**	**Mon 13/8/07**		
330	2.1 utilities detection	28 days	Tue 3/7/07	Mon 30/7/07		331,450
331	2.2 trial trench excavtion & identification	14 days	Tue 31/7/07	Mon 13/8/07	330	349
332	**3. Utilities temporary diversion / protection**	**463 days**	**Fri 30/3/07**	**Fri 4/7/08**		
333	a. WSD water main along village vehicular access	90 days	Wed 10/10/07	Mon 7/1/08	349SS	354FF



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PROGRAMME OF WORKS - MP03
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CHIT CHEUNG CONSTRUCTION CO., LTD.
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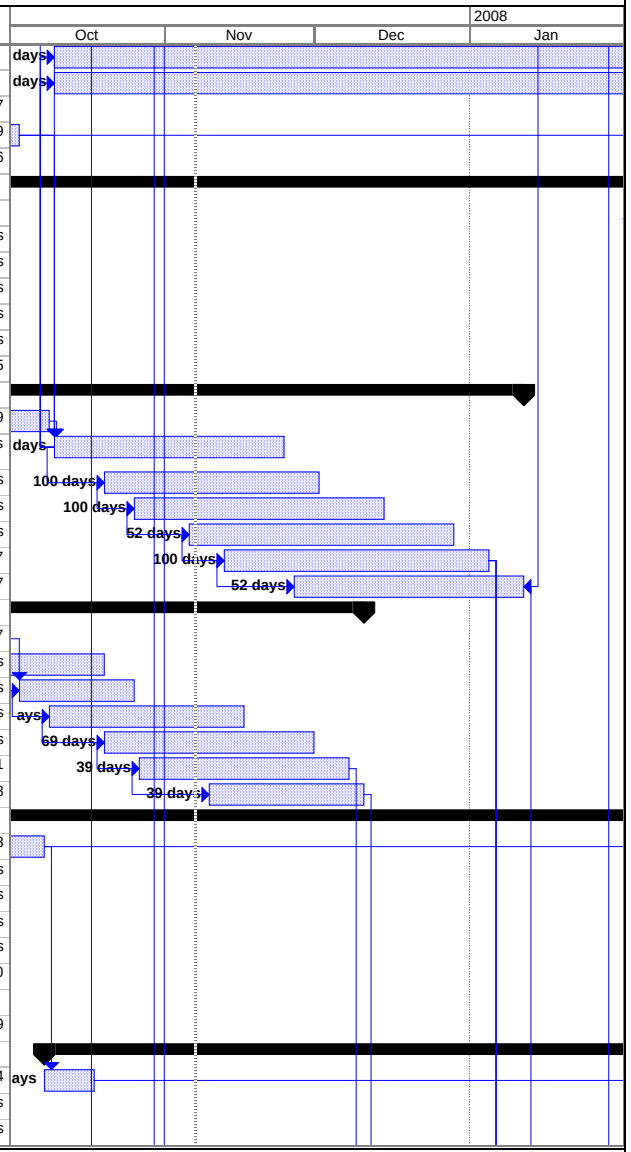
ID	Task Name	Duration	Start	Finish	Predecessors	Successors
334	b. Street lighting along village vehicular access	269 days	Wed 10/10/07	Fri 4/7/08	349SS	
335	c. PCCW along village vehicular access	245 days	Wed 10/10/07	Tue 10/6/08	349SS	
336	d. CLP overhead cables / street lighting at CH 290 ~ CH 33	90 days	Fri 30/3/07	Wed 27/6/07		357
337	**4. Geotechnical Instrumentation for AFCD**	6 days	Thu 27/9/07	Tue 2/10/07		341,349
338	**5. Discussion with Pond Owner**	39 days	Wed 1/8/07	Sat 8/9/07		356
339	**6. Box Culvert, Channel and Crossings**	**533 days**	**Sun 9/9/07**	**Sun 22/2/09**		
340	a. Ch88-Ch120 (Bays 9 - 11)	63 days	Mon 22/12/08	Sun 22/2/09		
341	Excavation	21 days	Mon 22/12/08	Sun 11/1/09	313,337,318	342SS+10 days
342	Granular Bedding	15 days	Thu 1/1/09	Thu 15/1/09	341SS+10 days	343SS+6 days
343	Base Slab	15 days	Wed 7/1/09	Wed 21/1/09	342SS+6 days	344SS+7 days
344	Wall and Deck	22 days	Wed 14/1/09	Wed 4/2/09	343SS+7 days	345SS+11 days
345	Curing	25 days	Sun 25/1/09	Wed 18/2/09	344SS+11 days	346SS+14 days
346	Trench Backfill	15 days	Sun 8/2/09	Sun 22/2/09	345SS+14 days	405
347	b. Ch120-Ch205 (Bay 12 - Bay 17)	111 days	Sun 23/9/07	Fri 11/1/08		
348	Haul access	16 days	Sun 23/9/07	Mon 8/10/07	356	349
349	Excavation	46 days	Wed 10/10/07	Sat 24/11/07	337,331,348	333SS,334SS,335SS,350SS+10 days
350	Granular Bedding	43 days	Sat 20/10/07	Sat 1/12/07	349SS+10 days	351SS+6 days
351	Base Slab	50 days	Fri 26/10/07	Fri 14/12/07	350SS+6 days	352SS+11 days
352	Wall and Deck	53 days	Tue 6/11/07	Fri 28/12/07	351SS+11 days	353SS+7 days
353	Curing	53 days	Tue 13/11/07	Fri 4/1/08	352SS+7 days	354SS+14 days,389,395,397
354	Trench Backfill	46 days	Tue 27/11/07	Fri 11/1/08	353SS+14 days,333FF	407
355	c. Ch205-Ch310 (Bay 18 - Bay 24)	93 days	Sun 9/9/07	Mon 10/12/07		
356	Haul access	14 days	Sun 9/9/07	Sat 22/9/07	338	364,358,348,357
357	Excavation	27 days	Sun 23/9/07	Fri 19/10/07	336,356	358SS+10 days
358	Granular Bedding	23 days	Wed 3/10/07	Thu 25/10/07	357SS+10 days,356	359SS+6 days
359	Base Slab	39 days	Tue 9/10/07	Fri 16/11/07	358SS+6 days	360SS+11 days
360	Wall and Deck	42 days	Sat 20/10/07	Fri 30/11/07	359SS+11 days	361SS+7 days
361	Curing	42 days	Sat 27/10/07	Fri 7/12/07	360SS+7 days	362SS+14 days,391
362	Trench Backfill	31 days	Sat 10/11/07	Mon 10/12/07	361SS+14 days	408
363	d. Ch310-Ch375 (Bay 25 - Bay 28)	257 days	Sun 23/9/07	Thu 5/6/08		
364	Haul access	15 days	Sun 23/9/07	Sun 7/10/07	356	365,373
365	Excavation	40 days	Wed 27/2/08	Sun 6/4/08	572,364	366SS+10 days
366	Granular Bedding	26 days	Sat 8/3/08	Wed 2/4/08	365SS+10 days	367SS+6 days
367	Base Slab	27 days	Fri 14/3/08	Wed 9/4/08	366SS+6 days	368SS+11 days
368	Wall and Deck	30 days	Tue 25/3/08	Wed 23/4/08	367SS+11 days	369SS+7 days
369	Curing	30 days	Tue 1/4/08	Wed 30/4/08	368SS+7 days	370SS+14 days,392,396,400
370	Trench Backfill	23 days	Tue 15/4/08	Wed 7/5/08	369SS+14 days	
371	Demolition of Existing crossing at Ch410	7 days	Fri 30/5/08	Thu 5/6/08	444	409
372	e. Ch375-Ch413 (Bay 29 - Bay 31)	**314 days**	**Mon 8/10/07**	**Sat 16/8/08**		
373	Haul access	10 days	Mon 8/10/07	Wed 17/10/07	364	374
374	Excavation	40 days	Fri 30/5/08	Tue 8/7/08	443,373	375SS+10 days,444SS-7 days
375	Granular Bedding	28 days	Mon 9/6/08	Sun 6/7/08	374SS+10 days	376SS+10 days



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CHIT CHEUNG CONSTRUCTION CO., LTD.
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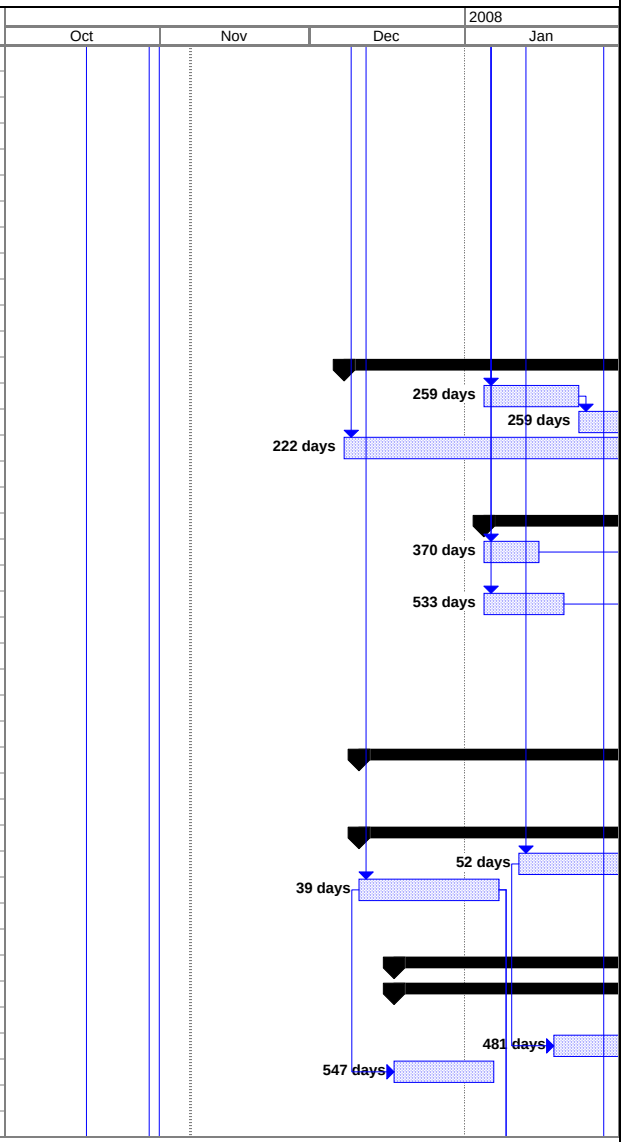
ID	Task Name	Duration	Start	Finish	Predecessors	Successors
376	Base Slab	29 days	Thu 19/6/08	Thu 17/7/08	375SS+10 days	377SS+14 days
377	Wall and Deck	27 days	Thu 3/7/08	Tue 29/7/08	376SS+14 days	378SS+7 days
378	Curing	34 days	Thu 10/7/08	Tue 12/8/08	377SS+7 days	379SS+14 days,393
379	Trench Backfill	24 days	Thu 24/7/08	Sat 16/8/08	378SS+14 days	410
380	f. Ch413-Ch436 (Bay 32)	**87 days**	**Sat 1/3/08**	**Mon 26/5/08**		
381	Flow diversion	7 days	Sat 1/3/08	Fri 7/3/08	382SS-7 days	
382	Excavation	15 days	Sat 8/3/08	Sat 22/3/08	442	381SS-7 days,383
383	Granular Bedding	4 days	Sun 23/3/08	Wed 26/3/08	382	384
384	Base Slab	14 days	Thu 27/3/08	Wed 9/4/08	383	385
385	Wall and Deck	22 days	Thu 10/4/08	Thu 1/5/08	384	386
386	Curing	11 days	Fri 2/5/08	Mon 12/5/08	385	387,398
387	Trench Backfill	14 days	Tue 13/5/08	Mon 26/5/08	386	418SS,443,462SS
388	**6. Gabion**	**354 days**	**Sat 8/12/07**	**Tue 25/11/08**		
389	Ch120-Ch145.5 (Bay 12 - Bay 13)	19 days	Sat 5/1/08	Wed 23/1/08	353	390
390	Ch163 - Ch205 (Bay 15 - Bay 17)	103 days	Thu 24/1/08	Mon 5/5/08	389	269FF
391	Ch205 - Ch310 (Bay 18 - Bay 24)	187 days	Sat 8/12/07	Wed 11/6/08	361	269FF
392	Ch310 - Ch325, Ch348 - Ch375 (Bay 25, Bay 27 - Bay 28)	105 days	Thu 1/5/08	Wed 13/8/08	369	269FF
393	Ch375 - CH413 (Bay29 - Bay31)	105 days	Wed 13/8/08	Tue 25/11/08	378	269FF
394	**7. Granite Stone Facing**	**134 days**	**Sat 5/1/08**	**Sat 17/5/08**		
395	Ch100 -Ch120 (Bay 10 - Bay 11)	11 days	Sat 5/1/08	Tue 15/1/08	353	269FF
396	Ch325 - Ch348 (Bay 26)	6 days	Thu 1/5/08	Tue 6/5/08	369	269FF
397	Ch120 - Ch310 (Bay 12 - Bay 24)	16 days	Sat 5/1/08	Sun 20/1/08	353	269FF
398	Ch413 - Ch436 (Bay 32)	5 days	Tue 13/5/08	Sat 17/5/08	386	269FF
399	**8. Ramp No. 3 (Ch356 - Ch405)**	**17 days**	**Thu 1/5/08**	**Sat 17/5/08**		
400	General fill	5 days	Thu 1/5/08	Mon 5/5/08	369	401
401	Granular fill and blinding	2 days	Tue 6/5/08	Wed 7/5/08	400	402
402	Road slab	10 days	Thu 8/5/08	Sat 17/5/08	401	
403	**8. Filling in Platform**	**450 days**	**Tue 11/12/07**	**Wed 4/3/09**		
404	8.1 Box Culvert BC2-1	10 days	Mon 23/2/09	Wed 4/3/09		
405	a. Ch88-Ch120 (Bay 9 - Bay 11)	10 days	Mon 23/2/09	Wed 4/3/09	346	413SS+10 days,420,427
406	8.2 Channel and Crossing	264 days	Tue 11/12/07	Sat 30/8/08		
407	a. Ch120-Ch205 (Bay 12 - Bay 17)	28 days	Sat 12/1/08	Fri 8/2/08	354	414SS+7 days,421,428
408	b. Ch205-Ch310 (Bay 18 - Bay 24)	28 days	Tue 11/12/07	Mon 7/1/08	362	415SS+7 days,422,429
409	c. Ch310-Ch375 (Bay 25 - Bay 28)	31 days	Fri 6/6/08	Sun 6/7/08	371	416SS+7 days,423
410	d. Ch375-Ch413 (Bay 29 - Bay 31)	14 days	Sun 17/8/08	Sat 30/8/08	379	417SS+10 days,424,430
411	**9. Drainage works**	**463 days**	**Tue 18/12/07**	**Tue 24/3/09**		
412	9.1 storm drain with manhole and headwall	463 days	Tue 18/12/07	Tue 24/3/09		
413	a. Ch88-Ch 120 (Bay 9 - Bay 11)	20 days	Thu 5/3/09	Tue 24/3/09	405SS+10 days	425SS+30 days,427
414	b. Ch120-Ch205 (Bay 12 - Bay 17)	20 days	Sat 19/1/08	Thu 7/2/08	407SS+7 days	427
415	c. Ch205-Ch310 (Bay 18 - Bay 24)	20 days	Tue 18/12/07	Sun 6/1/08	408SS+7 days	
416	d. Ch310-Ch375 (Bay 25 - Bay 28)	20 days	Fri 13/6/08	Wed 2/7/08	409SS+7 days	
417	e. Ch375-Ch413 (Bay 29 - Bay 31)	25 days	Wed 27/8/08	Sat 20/9/08	410SS+10 days	



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CHIT CHEUNG CONSTRUCTION CO., LTD.
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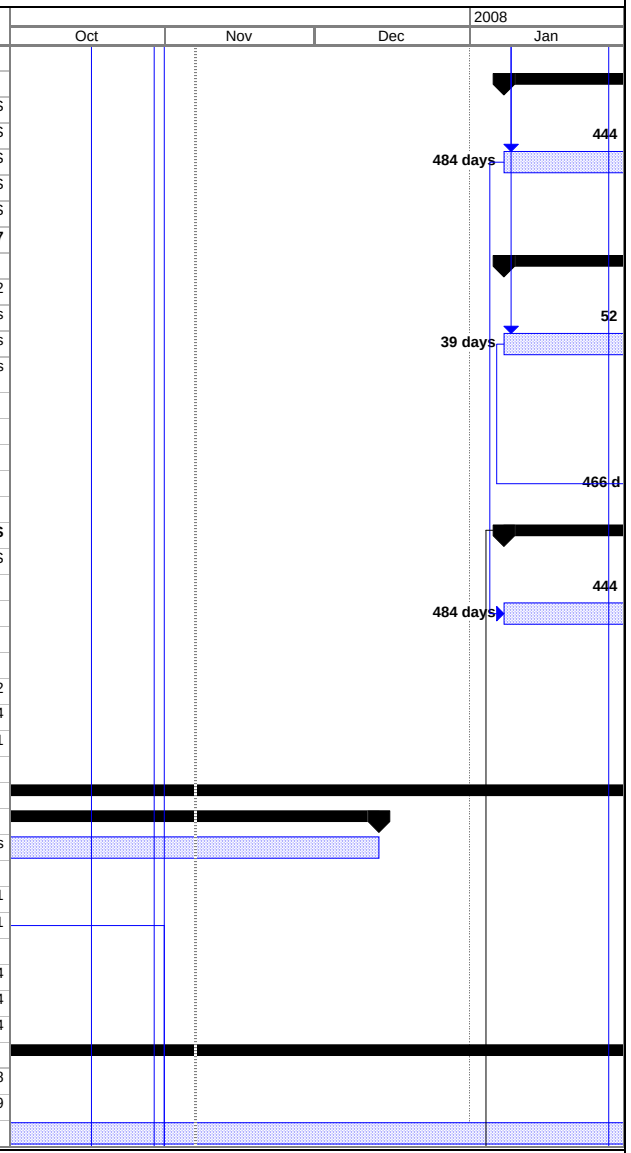
ID	Task Name	Duration	Start	Finish	Predecessors	Successors
418	f. Ch413-Ch436 (Bay 32)	4 days	Tue 13/5/08	Fri 16/5/08	387SS	
419	9.2. surface drain	432 days	Tue 8/1/08	Sat 14/3/09		
420	a. Ch88-Ch 120 (Bay 9 - Bay 11)	10 days	Thu 5/3/09	Sat 14/3/09	405	437SS
421	b. Ch120-Ch205 (Bay 12 - Bay 17)	35 days	Sat 9/2/08	Fri 14/3/08	407	438SS
422	c. Ch205-Ch310 (Bay 18 - Bay 24)	45 days	Tue 8/1/08	Thu 21/2/08	408	439SS
423	d. Ch310-Ch375 (Bay 25 - Bay 28)	35 days	Mon 7/7/08	Sun 10/8/08	409	440SS
424	e. Ch375-Ch413 (Bay 29 - Bay 31)	10 days	Sun 31/8/08	Tue 9/9/08	410	440SS
425	**10. Water supply pipeworks**	**60 days**	**Sat 4/4/09**	**Tue 2/6/09**	**413SS+30 days**	**427**
426	**11. Roads and paving**	**529 days**	**Tue 8/1/08**	**Fri 19/6/09**		
427	a. Ch88-Ch 120 (Bay 9 - Bay 11)	17 days	Wed 3/6/09	Fri 19/6/09	414,425,405,413	432
428	b. Ch120-Ch205 (Bay 12 - Bay 17)	35 days	Sat 9/2/08	Fri 14/3/08	407	321,433SS+30 days
429	c. Ch205-Ch310 (Bay 18 - Bay 24)	50 days	Tue 8/1/08	Tue 26/2/08	408	321,434SS+30 days
430	d. Ch310-Ch436 (Bay 25 - Bay 32)	58 days	Sun 31/8/08	Mon 27/10/08	410	435SS+30 days
431	**12. Road furnitures**	**516 days**	**Thu 7/2/08**	**Mon 6/7/09**		
432	a. Ch88-Ch 120 (Bay 9 - Bay 11)	17 days	Sat 20/6/09	Mon 6/7/09	427	
433	b. Ch120-Ch205 (Bay 12 - Bay 17)	33 days	Mon 10/3/08	Fri 11/4/08	428SS+30 days	
434	c. Ch205-Ch310 (Bay 18 - Bay 24)	50 days	Thu 7/2/08	Thu 27/3/08	429SS+30 days	
435	d. Ch310-Ch436 (Bay 25 - Bay 32)	33 days	Tue 30/9/08	Sat 1/11/08	430SS+30 days	
436	**13. Landscape softworks / hardworks**	**452 days**	**Tue 8/1/08**	**Fri 3/4/09**		**898SS**
437	a. Ch88-Ch 120 (Bay 9 - Bay 11)	30 days	Thu 5/3/09	Fri 3/4/09	420SS	320SS
438	b. Ch120-Ch205 (Bay 12 - Bay 17)	70 days	Sat 9/2/08	Fri 18/4/08	421SS	
439	c. Ch205-Ch310 (Bay 18 - Bay 24)	62 days	Tue 8/1/08	Sun 9/3/08	422SS	
440	d. Ch310-Ch436 (Bay 25 - Bay 32)	72 days	Sun 31/8/08	Mon 10/11/08	423SS,424SS	
441	**14. Temporary Village Access on Bay 9 - Bay 11**	**10 days**	**Wed 5/3/08**	**Fri 14/3/08**	**321SS-10 days**	
442	**15. Temporary Village Access on Bay 29 - Bay 31**	10 days	Wed 27/2/08	Fri 7/3/08	572	382
443	**16. Temporary Village Access on Bay 32**	3 days	Tue 27/5/08	Thu 29/5/08	387	374
444	**17. Diversion of Existing Traffic to Cheung Chun San Tsuen**	7 days	Fri 23/5/08	Thu 29/5/08	374SS-7 days	371
445						
446	**B3. Portion 3**	**726 days**	**Thu 12/7/07**	**Mon 6/7/09**		
447	**1. Site clearance**	**90 days**	**Sat 15/9/07**	**Thu 13/12/07**		
448	1.1 General clearance	90 days	Sat 15/9/07	Thu 13/12/07	17,224,903,905	491SS+10 days
449	**2. Underground utilities detection**	**42 days**	**Tue 31/7/07**	**Mon 10/9/07**		
450	2.1 utilities detection	28 days	Tue 31/7/07	Mon 27/8/07	330	451
451	2.2 trial trench excavtion & identification	14 days	Tue 28/8/07	Mon 10/9/07	450	491
452	**3. Utilities temporary diversion / protection**	**153 days**	**Sat 1/11/08**	**Thu 2/4/09**		
453	a. WSD water main along village access at CH 1150	153 days	Sat 1/11/08	Thu 2/4/09	529SS,534FF+60 days	604
454	b. Street lighting along village access at CH 1150	93 days	Sat 1/11/08	Sun 1/2/09	529SS,534FF	604
455	c. PCCW along village access at CH 1150	153 days	Sat 1/11/08	Thu 2/4/09	529SS,534FF+60 days	604
456	**4. Drainage Management Plan**	**706 days**	**Thu 12/7/07**	**Tue 16/6/09**		
457	4.1 Submission of DMPs	1 day	Thu 12/7/07	Thu 12/7/07		458
458	4.2 Comments by the Engineer	14 days	Fri 13/7/07	Thu 26/7/07	457	459
459	4.3 Implementation of DMP	659 days	Tue 28/8/07	Tue 16/6/09	535FF,458	



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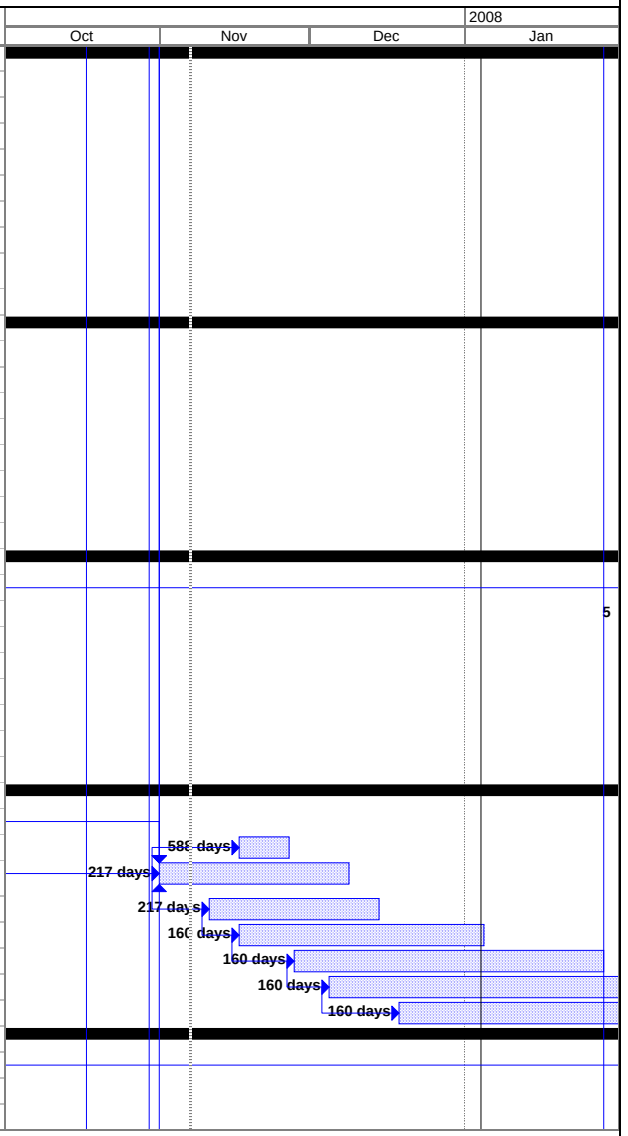
PROGRAMME OF WORKS - MP03
Contract No. : DC / 2006 / 02
Contract Title : Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B - Cheung Chun San Tsuen and Kam Tsin Wai

CHIT CHEUNG CONSTRUCTION CO., LTD.
DATE : AUG 2007

ID	Task Name	Duration	Start	Finish	Predecessors	Successors
460	**5. Channel and Crossings**	**633 days**	**Sat 28/7/07**	**Mon 20/4/09**		
461	a. Ch436-Ch535 (Bay 33 - Bay 39)	176 days	Fri 9/5/08	Fri 31/10/08		
462	Haul access	6 days	Tue 13/5/08	Sun 18/5/08	387SS	464
463	Flow diversion	10 days	Fri 9/5/08	Sun 18/5/08	464SS-10 days	
464	Excavation (including contamination material)	56 days	Mon 19/5/08	Sun 13/7/08	462,572	465SS+30 days,463SS-10 days
465	Granular Bedding	80 days	Wed 18/6/08	Fri 5/9/08	464SS+30 days	466SS+10 days
466	Base Slab	82 days	Sat 28/6/08	Wed 17/9/08	465SS+10 days	467SS+14 days
467	Wall and Deck	85 days	Sat 12/7/08	Sat 4/10/08	466SS+14 days	468SS+7 days
468	Curing	92 days	Sat 19/7/08	Sat 18/10/08	467SS+7 days	469SS+14 days,536SS+20 days
469	Trench Backfill	91 days	Sat 2/8/08	Fri 31/10/08	468SS+14 days	574,529
470	b. Ch535-Ch625 (Bay 40 - Bay 45)	559 days	Sat 28/7/07	Thu 5/2/09		
471	Haul access	15 days	Sat 28/7/07	Sat 11/8/07	224	480
472	Flow diversion	10 days	Sun 2/11/08	Tue 11/11/08	473SS-10 days	
473	Excavation (including contamination material)	32 days	Sat 1/11/08	Tue 2/12/08		474SS+10 days,472SS-10 days
474	Granular Bedding	41 days	Tue 11/11/08	Sun 21/12/08	473SS+10 days	475SS+6 days
475	Base Slab	45 days	Mon 17/11/08	Wed 31/12/08	474SS+6 days	476SS+11 days
476	Wall and Deck	48 days	Fri 28/11/08	Wed 14/1/09	475SS+11 days	477SS+7 days
477	Curing	55 days	Fri 5/12/08	Wed 28/1/09	476SS+7 days	478SS+14 days,537
478	Trench Backfill	49 days	Fri 19/12/08	Thu 5/2/09	477SS+14 days	575
479	c. Ch625-Ch738 (Bay 46 - Bay 53)	295 days	Sun 12/8/07	Sun 1/6/08		
480	Haul access	15 days	Sun 12/8/07	Sun 26/8/07	471	482,489
481	Flow diversion	10 days	Tue 12/2/08	Thu 21/2/08	482SS-10 days	
482	Excavation (including contamination material)	49 days	Fri 22/2/08	Thu 10/4/08	496,480	483SS+10 days,481SS-10 days
483	Granular Bedding	45 days	Mon 3/3/08	Wed 16/4/08	482SS+10 days	484SS+6 days
484	Base Slab	50 days	Sun 9/3/08	Sun 27/4/08	483SS+6 days	485SS+11 days
485	Wall and Deck	53 days	Thu 20/3/08	Sun 11/5/08	484SS+11 days	486SS+7 days
486	Curing	60 days	Thu 27/3/08	Sun 25/5/08	485SS+7 days	487SS+14 days,538
487	Trench Backfill	53 days	Thu 10/4/08	Sun 1/6/08	486SS+14 days	576
488	d. Ch738-Ch800 (Bay 54 - Bay 55)	174 days	Sat 1/9/07	Thu 21/2/08		
489	Haul access	6 days	Sat 1/9/07	Thu 6/9/07	480	498,491
490	Flow diversion	10 days	Sat 17/11/07	Mon 26/11/07	491SS-10 days	
491	Excavation (including contamination material)	38 days	Thu 1/11/07	Sat 8/12/07	448SS+10 days,451,903,489,226	492SS+10 days,490SS-10 days
492	Granular Bedding	34 days	Sun 11/11/07	Fri 14/12/07	491SS+10 days	493SS+6 days
493	Base Slab	49 days	Sat 17/11/07	Fri 4/1/08	492SS+6 days	494SS+11 days
494	Wall and Deck	62 days	Wed 28/11/07	Mon 28/1/08	493SS+11 days	495SS+7 days
495	Curing	69 days	Wed 5/12/07	Mon 11/2/08	494SS+7 days	496SS+14 days,539,545,553
496	Trench Backfill	65 days	Wed 19/12/07	Thu 21/2/08	495SS+14 days	482,577
497	e. Ch844-Ch925 (Bay 56c - Bay 59)	365 days	Fri 7/9/07	Fri 5/9/08		
498	Haul access	10 days	Fri 7/9/07	Sun 16/9/07	489	500,507
499	Flow diversion	10 days	Sun 6/7/08	Tue 15/7/08	500SS-10 days	
500	Excavation (including contamination material)	66 days	Tue 22/4/08	Thu 26/6/08	498,514	501SS+10 days,499SS-10 days



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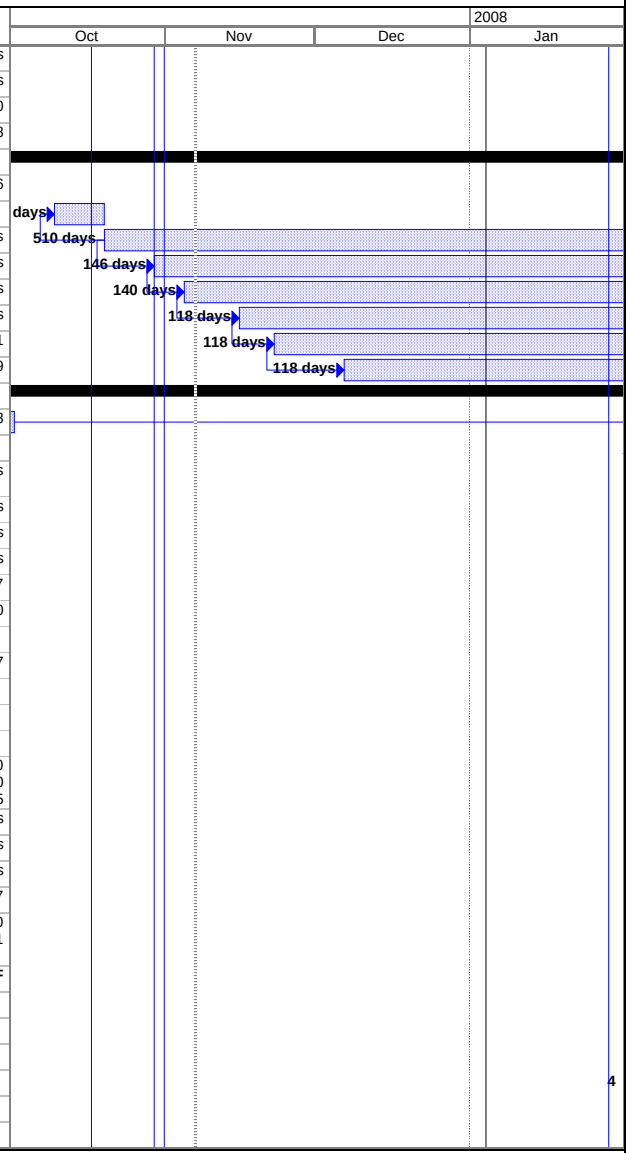
502	Base Slab	79 days	Thu 8/5/08	Fri 25/7/08	501SS+6 days	503SS+11 days
503	Wall and Deck	82 days	Mon 19/5/08	Fri 8/8/08	502SS+11 days	504SS+7 days
504	Curing	89 days	Mon 26/5/08	Fri 22/8/08	503SS+7 days	505SS+14 days,540
505	Trench Backfill	89 days	Mon 9/6/08	Fri 5/9/08	504SS+14 days	311,578
506	f. Ch925-Ch1038 (Bay 60 - Bay 66)	**218 days**	**Mon 17/9/07**	**Mon 21/4/08**		
507	Haul access	10 days	Mon 17/9/07	Wed 26/9/07	498	516
508	Flow diversion	10 days	Wed 10/10/07	Fri 19/10/07	509SS-10 days	
509	Excavation and Handling of Type 3 Contaminated Mat	116 days	Sat 20/10/07	Tue 12/2/08		508SS-10 days,510SS+10 days
510	Granular Bedding	116 days	Tue 30/10/07	Fri 22/2/08	509SS+10 days	511SS+6 days
511	Base Slab	127 days	Mon 5/11/07	Mon 10/3/08	510SS+6 days	512SS+11 days
512	Wall and Deck	130 days	Fri 16/11/07	Mon 24/3/08	511SS+11 days	513SS+7 days
513	Curing	137 days	Fri 23/11/07	Mon 7/4/08	512SS+7 days	514SS+14 days,541
514	Trench Backfill	137 days	Fri 7/12/07	Mon 21/4/08	513SS+14 days	500,579
515	f. Ch1038-Ch1146 (Bay 67 - Bay 71)	572 days	Thu 27/9/07	Mon 20/4/09		
516	Haul access	5 days	Thu 27/9/07	Mon 1/10/07	507	518
517	Flow diversion	10 days	Fri 23/1/09	Sun 1/2/09	518SS-10 days	
518	Excavation and Handling of Type 3 Contaminated Material	33 days	Mon 2/2/09	Fri 6/3/09	534,516	519SS+10 days,517SS-10 days
519	Granular Bedding	29 days	Thu 12/2/09	Thu 12/3/09	518SS+10 days	520SS+6 days
520	Base Slab	30 days	Wed 18/2/09	Thu 19/3/09	519SS+6 days	521SS+11 days
521	Wall and Deck	34 days	Sun 1/3/09	Fri 3/4/09	520SS+11 days	522SS+7 days,557SS+21 days
522	Curing	41 days	Sun 8/3/09	Fri 17/4/09	521SS+7 days	523SS+14 days,542,546,557
523	Trench Backfill	30 days	Sun 22/3/09	Mon 20/4/09	522SS+14 days	580
524	g. Ch1146-Ch1330 (Bay 72 - Bay 84)	108 days	Fri 17/10/08	Sun 1/2/09		
525	Haul access	5 days	Fri 17/10/08	Tue 21/10/08	529SS-15 days	527
526	Flow diversion	10 days	Wed 22/10/08	Fri 31/10/08	529SS-10 days	
527	Demolition of existing crossing (Bay 72)	3 days	Sun 16/11/08	Tue 18/11/08	550,525	
528	Demolition of existing footbridge (Bay 83)	7 days	Mon 17/11/08	Sun 23/11/08	564	
529	Excavation and Handling of Type 3 Contaminated Material	57 days	Sat 1/11/08	Sat 27/12/08	469	453SS,454SS,455SS,530SS+10 days,549SS+9 days,563SS+10 days,175SS-61 days,525SS-15
530	Granular Bedding	53 days	Tue 11/11/08	Fri 2/1/09	529SS+10 days	531SS+6 days
531	Base Slab	53 days	Mon 17/11/08	Thu 8/1/09	530SS+6 days	532SS+11 days
532	Wall and Deck	49 days	Fri 28/11/08	Thu 15/1/09	531SS+11 days	533SS+7 days
533	Curing	56 days	Fri 5/12/08	Thu 29/1/09	532SS+7 days	534SS+14 days,543,547
534	Trench Backfill	45 days	Fri 19/12/08	Sun 1/2/09	533SS+14 days	453FF+60 days,454FF,455FF+60 days,518,551,565,581
535	**6. Gabion**	**491 days**	**Tue 12/2/08**	**Tue 16/6/09**		**459FF**
536	a. Bay 33- Bay39 (Ch436-Ch535)	100 days	Fri 8/8/08	Sat 15/11/08	468SS+20 days	
537	b. Bay 40 - Bay 45 (CH535-Ch625)	120 days	Thu 29/1/09	Thu 28/5/09	477	
538	c. Bay 46 - Bay 53 (Ch625-Ch738)	247 days	Mon 26/5/08	Tue 27/1/09	486	
539	d. Bay 54 - Bay 55 (Ch738-Ch800)	37 days	Tue 12/2/08	Wed 19/3/08	495	
540	e. Bay 56c - Bay 59 (Ch844-Ch925)	200 days	Sat 23/8/08	Tue 10/3/09	504	
541	f. Bay 60 - Bay 66 (Ch925-Ch1038)	130 days	Tue 8/4/08	Fri 15/8/08	513	



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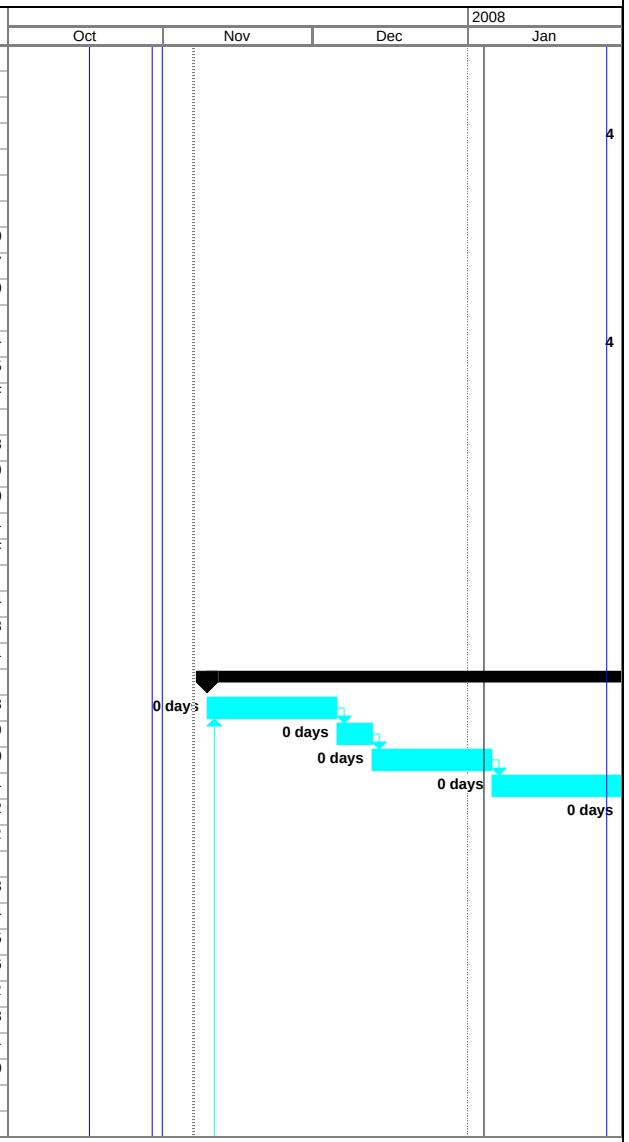
ID	Task Name	Duration	Start	Finish	Predecessors	Successors
542	g. Bay 67 - Bay 71 (Ch1038-Ch1146)	60 days	Sat 18/4/09	Tue 16/6/09	522	
543	h. Bay 72 - Bay 84 (Ch1146-Ch1330)	130 days	Fri 30/1/09	Mon 8/6/09	533	
544	**7. Granite Stone Facing**	**454 days**	**Tue 12/2/08**	**Sun 10/5/09**		
545	Bay 54 to Bay 55 (Ch738 - Ch800)	78 days	Tue 12/2/08	Tue 29/4/08	495	
546	Bay 67 and Bay 69a (Ch1038 -Ch1108)	23 days	Sat 18/4/09	Sun 10/5/09	522	
547	Bay 83 and Bay 84 (Ch1301-Ch1330)	7 days	Fri 30/1/09	Thu 5/2/09	533	
548	**8. Temp Crossing at Bay 71 (Ch1145)**	**86 days**	**Mon 10/11/08**	**Tue 3/2/09**		
549	8.1 Construction	5 days	Mon 10/11/08	Fri 14/11/08	529SS+9 days	550
550	8.2 Pesdestrian diversion	1 day	Sat 15/11/08	Sat 15/11/08	549	527
551	8.3 Demolition of Temp crossing	2 days	Mon 2/2/09	Tue 3/2/09	534	580
552	**9. Ramp No. 2 (Ch752 - Ch800, Bay 55)**	**17 days**	**Tue 12/2/08**	**Thu 28/2/08**		
553	General fill	5 days	Tue 12/2/08	Sat 16/2/08	495	554
554	Granular fill and blinding	2 days	Sun 17/2/08	Mon 18/2/08	553	555
555	Road slab	10 days	Tue 19/2/08	Thu 28/2/08	554	577FF
556	**10. Ramp No. 1 (Ch1052 - Ch1103, Bay 68)**	**31 days**	**Sat 18/4/09**	**Mon 18/5/09**		
557	base slab	12 days	Sat 18/4/09	Wed 29/4/09	522,521SS+21 days	558
558	Wall	10 days	Thu 30/4/09	Sat 9/5/09	557	559
559	General fill	5 days	Sun 10/5/09	Thu 14/5/09	558	560
560	Granular fill and blinding	2 days	Fri 15/5/09	Sat 16/5/09	559	561
561	Road slab	2 days	Sun 17/5/09	Mon 18/5/09	560	604FF
562	**11. Pedestrian Temporary Crossing at Bay 83 (Ch1306)**	**85 days**	**Tue 11/11/08**	**Tue 3/2/09**		
563	11.1 Construction	5 days	Tue 11/11/08	Sat 15/11/08	529SS+10 days	564
564	11.2 Pedestrian diversion	1 day	Sun 16/11/08	Sun 16/11/08	563	528
565	11.3 Demolition of Temp crossing	2 days	Mon 2/2/09	Tue 3/2/09	534	591
566	**12. Retaining Wall RW1 (Ch430-Ch490)**	**109 days**	**Sat 10/11/07**	**Tue 26/2/08**		
567	Excavation	26 days	Sat 10/11/07	Wed 5/12/07	618	568
568	Granular bedding	7 days	Thu 6/12/07	Wed 12/12/07	567	569
569	Base slab	24 days	Thu 13/12/07	Sat 5/1/08	568	570
570	Wall	26 days	Sun 6/1/08	Thu 31/1/08	569	571
571	Curing	14 days	Fri 1/2/08	Thu 14/2/08	570	572
572	Backfilling	12 days	Fri 15/2/08	Tue 26/2/08	571	365,464,442
573	**13. Filling in Platform**	**434 days**	**Fri 22/2/08**	**Thu 30/4/09**		
574	a. Bay 33- Bay39 (Ch436-Ch535)	25 days	Sat 1/11/08	Tue 25/11/08	469	584SS+10 days,593
575	b. Bay 40 - Bay 45 (CH535-Ch625)	28 days	Fri 6/2/09	Thu 5/3/09	478	585SS+10 days,594
576	c. Bay 46 - Bay 53 (Ch625-Ch738)	28 days	Mon 2/6/08	Sun 29/6/08	487	586SS+10 days,595
577	d. Bay 54 - Bay 55 (Ch738-Ch800)	19 days	Fri 22/2/08	Tue 11/3/08	496,555FF	587SS+10 days,596
578	e. Bay 56c - Bay 59 (Ch844-Ch925)	21 days	Sat 6/9/08	Fri 26/9/08	505	588SS+10 days,597,602
579	f. Bay 60 - Bay 66 (Ch925-Ch1038)	41 days	Tue 22/4/08	Sun 1/6/08	514	589SS+10 days,598
580	g. Bay 67 - Bay 71 (Ch1038-Ch1146)	10 days	Tue 21/4/09	Thu 30/4/09	523,551	590SS+10 days,599,604
581	h. Bay 72 - Bay 84 (Ch1146-Ch1330)	14 days	Mon 2/2/09	Sun 15/2/09	534	591SS+10 days,600
582	**14. Drainage works**	**469 days**	**Mon 3/3/08**	**Sun 14/6/09**		
583	14.1 storm drain with manhole	444 days	Mon 3/3/08	Wed 20/5/09		



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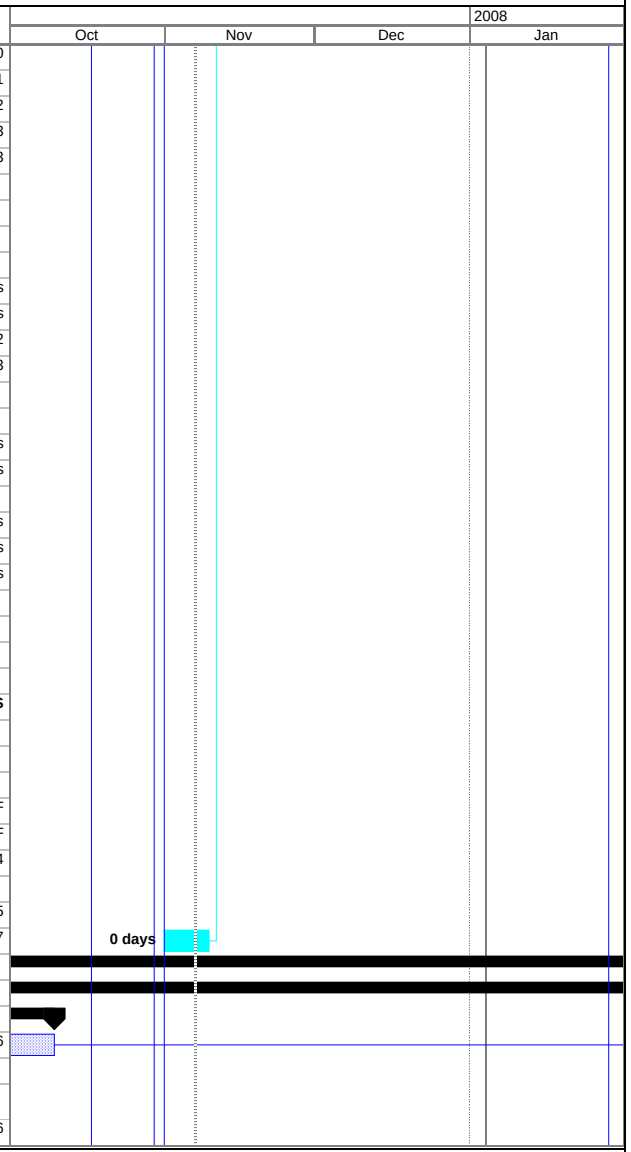
ID	Task Name	Duration	Start	Finish	Predecessors	Successors
584	a. Bay 33- Bay39 (Ch436-Ch535)	30 days	Tue 11/11/08	Wed 10/12/08	574SS+10 days	610
585	b. Bay 40 - Bay 45 (CH535-Ch625)	20 days	Mon 16/2/09	Sat 7/3/09	575SS+10 days	611
586	c. Bay 46 - Bay 53 (Ch625-Ch738)	20 days	Thu 12/6/08	Tue 1/7/08	576SS+10 days	612
587	d. Bay 54 - Bay 55 (Ch738-Ch800)	20 days	Mon 3/3/08	Sat 22/3/08	577SS+10 days	613
588	e. Bay 56c - Bay 59 (Ch844-Ch925)	30 days	Thu 27/11/08	Fri 26/12/08	578SS+10 days,312FF	603
589	f. Bay 60 - Bay 66 (Ch925-Ch1038)	60 days	Fri 2/5/08	Mon 30/6/08	579SS+10 days	
590	g. Bay 67 - Bay 71 (Ch1038-Ch1146)	20 days	Fri 1/5/09	Wed 20/5/09	580SS+10 days	
591	h. Bay 72 - Bay 84 (Ch1146-Ch1330)	20 days	Thu 12/2/09	Tue 3/3/09	581SS+10 days,565	
592	14.2. surface drain	460 days	Wed 12/3/08	Sun 14/6/09		
593	a. Bay 33- Bay39 (Ch436-Ch535)	45 days	Wed 26/11/08	Fri 9/1/09	574	610SS+30 days
594	b. Bay 40 - Bay 45 (CH535-Ch625)	45 days	Fri 6/3/09	Sun 19/4/09	575	611SS+30 days
595	c. Bay 46 - Bay 53 (Ch625-Ch738)	45 days	Mon 30/6/08	Wed 13/8/08	576	612
596	d. Bay 54 - Bay 55 (Ch738-Ch800)	45 days	Wed 12/3/08	Fri 25/4/08	577	613
597	e. Bay 56c - Bay 59 (Ch844-Ch925)	45 days	Sat 27/9/08	Mon 10/11/08	578	
598	f. Bay 60 - Bay 66 (Ch925-Ch1038)	45 days	Mon 2/6/08	Wed 16/7/08	579	
599	g. Bay 67 - Bay 71 (Ch1038-Ch1146)	45 days	Fri 1/5/09	Sun 14/6/09	580	616SS+22 days
600	h. Bay 72 - Bay 84 (Ch1146-Ch1330)	45 days	Mon 16/2/09	Wed 1/4/09	581	617SS+30 days
601	**15. Roads and paving**	**276 days**	**Sat 27/9/08**	**Mon 29/6/09**		
602	a. Ch800-Ch881	60 days	Sat 27/9/08	Tue 25/11/08	578	603,606SS+30 days
603	b. Ch881-CH1037	52 days	Sat 27/12/08	Mon 16/2/09	602,588	607SS+30 days
604	c. CH1037-CH1165	60 days	Fri 1/5/09	Mon 29/6/09	580,453,454,455,561FF	608SS+30 days
605	**16. Street furnitures / traffic sign / road marking**	**253 days**	**Mon 27/10/08**	**Mon 6/7/09**		
606	a. Ch800-Ch881	37 days	Mon 27/10/08	Tue 2/12/08	602SS+30 days	
607	b. Ch881-CH1037	37 days	Mon 26/1/09	Tue 3/3/09	603SS+30 days	
608	c. CH1037-CH1165	37 days	Sun 31/5/09	Mon 6/7/09	604SS+30 days	
609	**17. Landscape softworks / hardworks**	**193 days**	**Fri 26/12/08**	**Mon 6/7/09**		**904SS**
610	a. Bay 33- Bay39 (Ch436-Ch535)	30 days	Fri 26/12/08	Sat 24/1/09	593SS+30 days,584	
611	b. Bay 40 - Bay 45 (CH535-Ch625)	45 days	Sun 5/4/09	Tue 19/5/09	594SS+30 days,585	
612	c. Bay 46 - Bay 53 (Ch625-Ch738)	45 days	Tue 24/2/09	Fri 10/4/09	613SF,586,595	
613	d. Bay 54 - Bay 55 (Ch738-Ch800)	45 days	Fri 10/4/09	Mon 25/5/09	614SF,587,596	612SF
614	e. Bay 56c - Bay 59 (Ch844-Ch925)	22 days	Mon 25/5/09	Mon 15/6/09	615	613SF
615	f. Bay 60 - Bay 66 (Ch925-Ch1038)	23 days	Sat 2/5/09	Sun 24/5/09	617	614
616	g. Bay 67 - Bay 71 (Ch1038-Ch1146)	45 days	Sat 23/5/09	Mon 6/7/09	599SS+22 days	
617	h. Bay 72 - Bay 84 (Ch1146-Ch1330)	45 days	Wed 18/3/09	Fri 1/5/09	600SS+30 days	615
618	**18. Lower down existing village access**	9 days	Thu 1/11/07	Fri 9/11/07		567
619	**C. Section II of the Works**	**830 days**	**Fri 30/3/07**	**Mon 6/7/09**		
620	**C1. Portion 4**	**812 days**	**Fri 30/3/07**	**Thu 18/6/09**		
621	**1. Site clearance**	**14 days**	**Wed 26/9/07**	**Tue 9/10/07**		
622	1.1 General clearance	14 days	Wed 26/9/07	Tue 9/10/07	225,36,909,911	646
623	**2. Temporary Traffic Management Scheme**	**60 days**	**Fri 30/3/07**	**Mon 28/5/07**		
624	2.1 TTMS Proposal (trial pits for utilities and site entrance ir	59 days	Sat 31/3/07	Mon 28/5/07		
625	a. Submission	45 days	Sat 31/3/07	Mon 14/5/07	18	626



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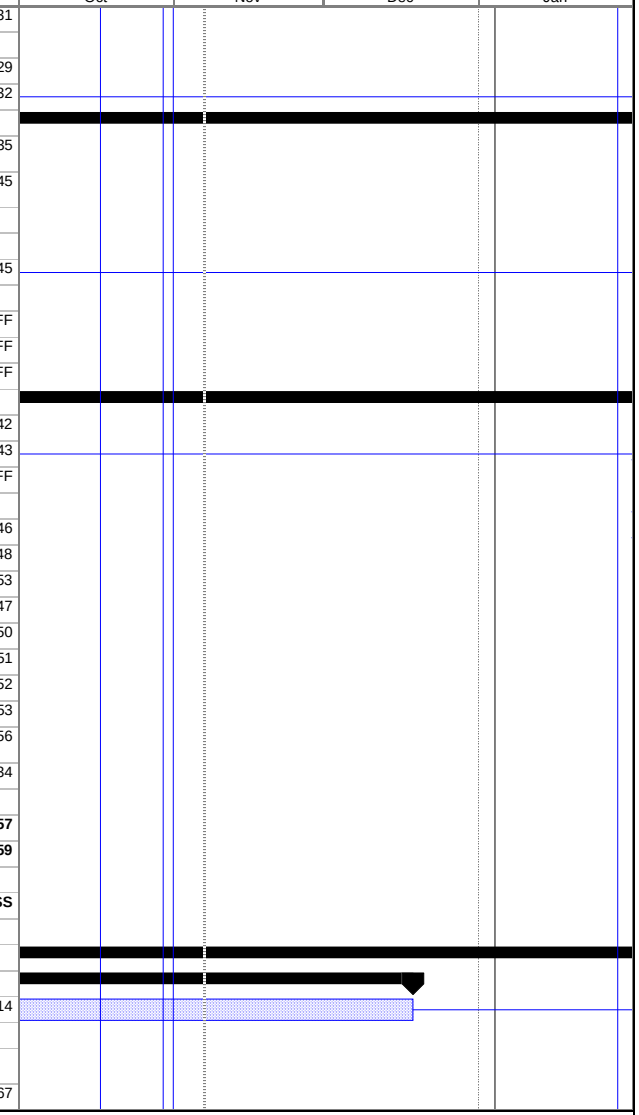
626	b. comments & approvals by Engineer & TMLG	14 days	Tue 15/5/07	Mon 28/5/07	625	631
627	2.2 TTMS Proposal (for construction of box culvet)	59 days	Fri 30/3/07	Sun 27/5/07		
628	a. Submission	45 days	Fri 30/3/07	Sun 13/5/07		629
629	b. comments & approvals by Engineer & TMLG	14 days	Mon 14/5/07	Sun 27/5/07	628	632
630	**3. Excavation Permits**	**520 days**	**Tue 29/5/07**	**Wed 29/10/08**		
631	3.1 application and issue of permit (trial pits for utilities and site entrance in Kam Po Road)	60 days	Tue 29/5/07	Fri 27/7/07	626	635
632	3.2 application and issue of permits (for construction of box culvert)	180 days	Sat 3/5/08	Wed 29/10/08	629	645
633	**4. Underground utilities detection**	**43 days**	**Fri 29/6/07**	**Fri 10/8/07**		
634	4.1 utilities detection	28 days	Fri 29/6/07	Fri 27/7/07	635SF-1 day	
635	4.2 trial trench excavtion & identification	14 days	Sat 28/7/07	Fri 10/8/07	631	634SF-1 day,645
636	**5. Utilities temporary diversion / protection**	**85 days**	**Sat 1/11/08**	**Sat 24/1/09**		
637	a. WSD water main along Kam Po Road	85 days	Sat 1/11/08	Sat 24/1/09	646SS	653FF
638	b. Street lighting along Kam Po Road	85 days	Sat 1/11/08	Sat 24/1/09	646SS	653FF
639	c. DSD storm Drain	85 days	Sat 1/11/08	Sat 24/1/09	646SS	653FF
640	**6. Drainage Management Plan**	**662 days**	**Fri 30/3/07**	**Mon 19/1/09**		
641	6.1 Submission of DMPs	1 day	Fri 30/3/07	Fri 30/3/07		853SS,680SS,642
642	6.2 Comments by the Engineer	14 days	Sat 31/3/07	Fri 13/4/07	641	643
643	6.3 Implementation of DMPs	57 days	Mon 24/11/08	Mon 19/1/09	647,642	855FF
644	**7. Box Culvert Ch0-Ch15 (Bay 1 and Outlet)**	**94 days**	**Thu 30/10/08**	**Sat 31/1/09**		
645	Remove road pavement and expose existing utilities	2 days	Thu 30/10/08	Fri 31/10/08	635,632,833	646
646	Excavation	8 days	Sat 1/11/08	Sat 8/11/08	645,622	638SS,639SS,637SS,648
647	Remove existing box culvert	14 days	Mon 10/11/08	Sun 23/11/08	648	649SS+4 days,643,653
648	flow diversion	1 day	Sun 9/11/08	Sun 9/11/08	646	647
649	Granular Bedding	5 days	Fri 14/11/08	Tue 18/11/08	647SS+4 days	650
650	Base Slab	18 days	Wed 19/11/08	Sat 6/12/08	649	651
651	Wall and Deck	30 days	Sun 7/12/08	Mon 5/1/09	650	652
652	Curing	14 days	Tue 6/1/09	Mon 19/1/09	651	653
653	Trench Backfill	5 days	Tue 20/1/09	Sat 24/1/09	652,637FF,638FF,639FF,647,764	654,656
654	Reinstatement of Kam Po Road	7 days	Sun 25/1/09	Sat 31/1/09	653	834
655	**9. Modification to invert level of box culvert at Kam Sheung**	**45 days**	**Fri 9/1/09**	**Sun 22/2/09**	**716**	
656	**10. Fill in Platform**	**30 days**	**Mon 2/2/09**	**Tue 3/3/09**	**653,834**	**657**
657	**11. Roads and paving**	**30 days**	**Wed 4/3/09**	**Thu 2/4/09**	**656,798**	**658,659**
658	**12. Street furnitures**	**14 days**	**Fri 3/4/09**	**Thu 16/4/09**	**657**	
659	**13. Landscape softworks / hardworks**	**77 days**	**Fri 3/4/09**	**Thu 18/6/09**	**657**	**910SS**
660						
661	**C2. Portion 5 and 5C**	**830 days**	**Fri 30/3/07**	**Mon 6/7/09**		
662	**1. Site clearance**	**90 days**	**Thu 20/9/07**	**Tue 18/12/07**		
663	1.1 General clearance	90 days	Thu 20/9/07	Tue 18/12/07	36,225SS+75 days,915,917	714
664	**2. Temporary Traffic Management Scheme**	**59 days**	**Fri 30/3/07**	**Sun 27/5/07**		
665	TTMS Proposal (trial pits for utilities and site entrance in Ka	59 days	Fri 30/3/07	Sun 27/5/07		
666	a. Submission	45 days	Fri 30/3/07	Sun 13/5/07	2SS	667



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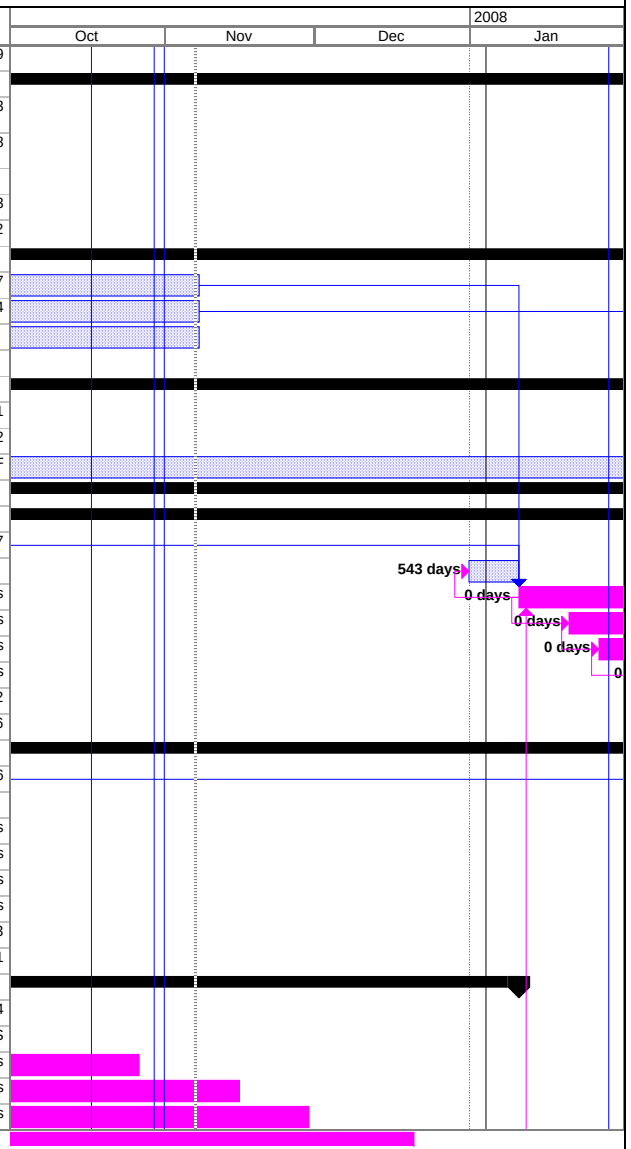
667	b. comments & approvals by Engineer & TMLG	14 days	Mon 14/5/07	Sun 27/5/07	666	669
668	**3. Excavation Permits**	**741 days**	**Mon 28/5/07**	**Sat 6/6/09**		
669	3.1 application and issue of permit (trial pits for utilities and temporary site entrance in Kam Sheung Road)	60 days	Mon 28/5/07	Thu 26/7/07	667	673
670	3.2 application and issue of permits (for construction of permanent entrance)	180 days	Tue 9/12/08	Sat 6/6/09	7FS-210 days	818
671	**4. Underground utilities detection**	**42 days**	**Fri 29/6/07**	**Thu 9/8/07**		
672	a. utilities detection	28 days	Fri 29/6/07	Thu 26/7/07	19	673
673	b. trial trench excavtion & identification	14 days	Fri 27/7/07	Thu 9/8/07	669,672	675,676,677,712
674	**5. Utilities temporary diversion / protection**	**553 days**	**Fri 10/8/07**	**Thu 12/2/09**		
675	a. CLP overhead cables at CH 100 ~ CH 120	90 days	Fri 10/8/07	Wed 7/11/07	673	687
676	b. CLP overhead cables at CH 530 ~ CH 550	90 days	Fri 10/8/07	Wed 7/11/07	673	714
677	c. CLP overhead cables at CH 670 ~ CH 690	90 days	Fri 10/8/07	Wed 7/11/07	673	
678	d. Gas main at Kam Sheung Road	84 days	Fri 21/11/08	Thu 12/2/09	714SS,719FF	
679	**6. Drainage Management Plan**	**722 days**	**Fri 30/3/07**	**Fri 20/3/09**		
680	5.1 Submission of DMPs	1 day	Fri 30/3/07	Fri 30/3/07	641SS	681
681	5.2 Comments by the Engineer	14 days	Sat 31/3/07	Fri 13/4/07	680	682
682	5.3 Implementation of DMP	581 days	Sat 18/8/07	Fri 20/3/09	704SS,681	767FF
683	**7. Channel and Crossings**	**553 days**	**Fri 10/8/07**	**Thu 12/2/09**		
684	a. Ch11-Ch130 (Bay 3 - Bay 11)	229 days	Thu 23/8/07	Mon 7/4/08		
685	Haul access	5 days	Thu 23/8/07	Mon 27/8/07	694	687
686	Flow diversion	10 days	Tue 1/1/08	Thu 10/1/08	687SS-10 days	
687	Excavation (including contamination material)	44 days	Fri 11/1/08	Sat 23/2/08	675,685,710	688SS+10 days,686SS-10 days
688	Granular Bedding	40 days	Mon 21/1/08	Fri 29/2/08	687SS+10 days	689SS+6 days
689	Base Slab	44 days	Sun 27/1/08	Mon 10/3/08	688SS+6 days	690SS+14 days
690	Wall and Deck	37 days	Sun 10/2/08	Mon 17/3/08	689SS+14 days	691SS+7 days
691	Curing	44 days	Sun 17/2/08	Mon 31/3/08	690SS+7 days	692SS+14 days,764,796,772
692	Trench Backfill	37 days	Sun 2/3/08	Mon 7/4/08	691SS+14 days	859,801,858FF,696
693	b. Ch130-Ch233 (Bay 12 - Bay 19)	341 days	Sat 18/8/07	Wed 23/7/08		
694	Haul access	5 days	Sat 18/8/07	Wed 22/8/07	703	685,696
695	Flow diversion	10 days	Sat 29/3/08	Mon 7/4/08	696SS-10 days	
696	Excavation (including contamination material)	33 days	Tue 8/4/08	Sat 10/5/08	694,692	697SS+10 days,695SS-10 days
697	Granular Bedding	29 days	Fri 18/4/08	Fri 16/5/08	696SS+10 days	698SS+6 days
698	Base Slab	50 days	Thu 24/4/08	Thu 12/6/08	697SS+6 days	699SS+14 days
699	Wall and Deck	56 days	Thu 8/5/08	Wed 2/7/08	698SS+14 days	700SS+7 days
700	Curing	63 days	Thu 15/5/08	Wed 16/7/08	699SS+7 days	701SS+14 days,765,790,773
701	Trench Backfill	56 days	Thu 29/5/08	Wed 23/7/08	700SS+14 days	801
702	c. Ch233-Ch340 (Bay 20 - Bay 27)	151 days	Mon 13/8/07	Thu 10/1/08		
703	Haul access	5 days	Mon 13/8/07	Fri 17/8/07	705SS-15 days	694,704
704	Flow diversion	10 days	Sat 18/8/07	Mon 27/8/07	703	682SS
705	Excavation (including contamination material)	60 days	Tue 28/8/07	Fri 26/10/07		4 days,706SS+10 days,703SS-15 days
706	Granular Bedding	70 days	Fri 7/9/07	Thu 15/11/07	705SS+10 days	707SS+6 days
707	Base Slab	78 days	Thu 13/9/07	Thu 29/11/07	706SS+6 days	708SS+14 days



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CHIT CHEUNG CONSTRUCTION CO., LTD.
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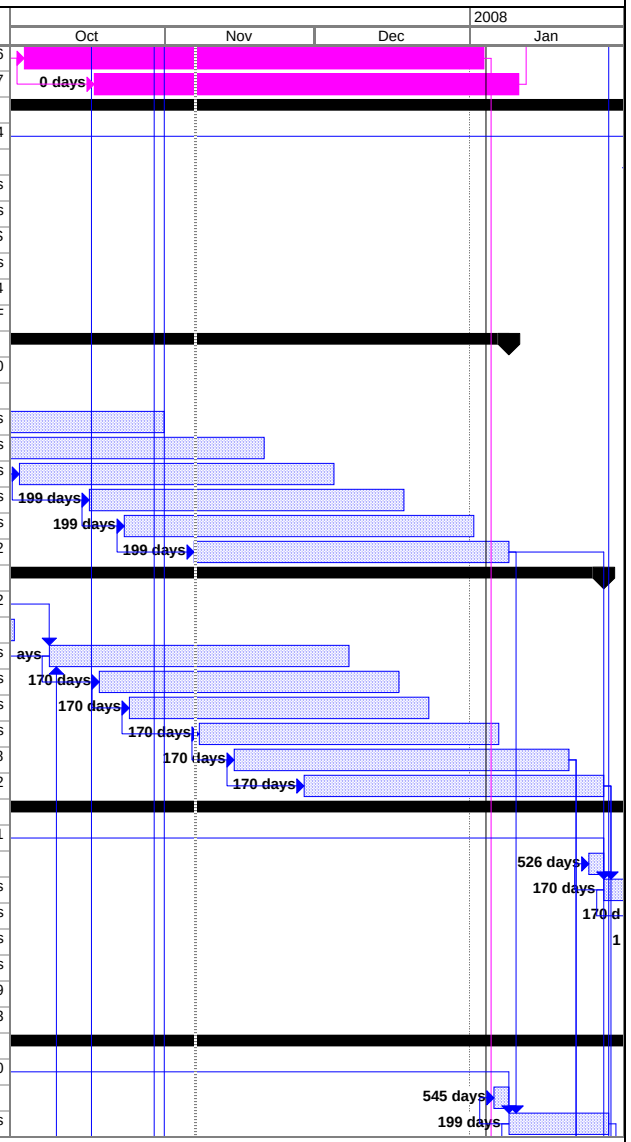
ID	Task Name	Duration	Start	Finish	Predecessors	Successors
709	Curing	92 days	Thu 4/10/07	Thu 3/1/08	708SS+7 days	710SS+14 days,766
710	Trench Backfill	85 days	Thu 18/10/07	Thu 10/1/08	709SS+14 days	687
711	d. Ch449-Ch504 (Bay 37 - Bay 40)	553 days	Fri 10/8/07	Thu 12/2/09		
712	Haul access	5 days	Fri 10/8/07	Tue 14/8/07	673	721,714
713	Flow diversion	10 days	Fri 12/9/08	Sun 21/9/08	714SS-10 days	
714	Excavation (including contamination material)	75 days	Mon 22/9/08	Fri 5/12/08	663,676,712,864	678SS,715SS+20 days,713SS-10 days
715	Granular Bedding	75 days	Sun 12/10/08	Thu 25/12/08	714SS+20 days	716SS+14 days
716	Base Slab	75 days	Sun 26/10/08	Thu 8/1/09	715SS+14 days	655,717SS+14 days,799SS
717	Wall and Deck	75 days	Sun 9/11/08	Thu 22/1/09	716SS+14 days,799	718SS+7 days
718	Curing	82 days	Sun 16/11/08	Thu 5/2/09	717SS+7 days	719SS+14 days,767,774,784
719	Trench Backfill	75 days	Sun 30/11/08	Thu 12/2/09	718SS+14 days	678FF
720	e. Ch504-Ch586 (Bay 41 - Bay 46)	147 days	Wed 15/8/07	Tue 8/1/08		
721	Haul access	3 days	Wed 15/8/07	Fri 17/8/07	712	730
722	Flow diversion	5 days	Fri 7/9/07	Tue 11/9/07	723SS-10 days	
723	Excavation (including contamination material)	45 days	Mon 17/9/07	Wed 31/10/07		724SS+10 days,722SS-10 days
724	Granular Bedding	55 days	Thu 27/9/07	Tue 20/11/07	723SS+10 days	725SS+6 days
725	Base Slab	63 days	Wed 3/10/07	Tue 4/12/07	724SS+6 days	726SS+14 days
726	Wall and Deck	63 days	Wed 17/10/07	Tue 18/12/07	725SS+14 days	727SS+7 days
727	Curing	70 days	Wed 24/10/07	Tue 1/1/08	726SS+7 days	728SS+14 days
728	Trench Backfill	63 days	Wed 7/11/07	Tue 8/1/08	727SS+14 days	750,802
729	f. Ch586-Ch675 (Bay 47 - Bay 54)	163 days	Sat 18/8/07	Sun 27/1/08		
730	Haul access	5 days	Sat 18/8/07	Wed 22/8/07	721	739,732
731	Flow diversion	3 days	Sat 29/9/07	Mon 1/10/07	732SS-10 days	
732	Excavation (including contamination material)	60 days	Tue 9/10/07	Fri 7/12/07	730,938	733SS+10 days,731SS-10 days
733	Granular Bedding	60 days	Fri 19/10/07	Mon 17/12/07	732SS+10 days	734SS+6 days
734	Base Slab	60 days	Thu 25/10/07	Sun 23/12/07	733SS+6 days	735SS+14 days
735	Wall and Deck	60 days	Thu 8/11/07	Sun 6/1/08	734SS+14 days	736SS+7 days
736	Curing	67 days	Thu 15/11/07	Sun 20/1/08	735SS+7 days	737SS+14 days,768,778
737	Trench Backfill	60 days	Thu 29/11/07	Sun 27/1/08	736SS+14 days	741,802
738	g. Ch675-Ch741 (Bay 55 - Bay 59)	243 days	Thu 23/8/07	Mon 21/4/08		
739	Haul access	3 days	Thu 23/8/07	Sat 25/8/07	730	748,741
740	Flow diversion	3 days	Fri 25/1/08	Sun 27/1/08	741SS-3 days	
741	Excavation (including contamination material)	30 days	Mon 28/1/08	Tue 26/2/08	739,737	742SS+10 days,740SS-3 days
742	Granular Bedding	27 days	Thu 7/2/08	Tue 4/3/08	741SS+10 days	743SS+6 days
743	Base Slab	31 days	Wed 13/2/08	Fri 14/3/08	742SS+6 days	744SS+14 days
744	Wall and Deck	31 days	Wed 27/2/08	Fri 28/3/08	743SS+14 days	745SS+7 days
745	Curing	38 days	Wed 5/3/08	Fri 11/4/08	744SS+7 days	746SS+14 days,769
746	Trench Backfill	34 days	Wed 19/3/08	Mon 21/4/08	745SS+14 days	803
747	h. Ch741-Ch797 (Bay 60 - Bay 63)	211 days	Sun 26/8/07	Sun 23/3/08		
748	Haul access	3 days	Sun 26/8/07	Tue 28/8/07	739	750
749	Flow diversion	3 days	Sun 6/1/08	Tue 8/1/08	750SS-3 days	
750	Excavation (including contamination material)	20 days	Wed 9/1/08	Mon 28/1/08	748,728	751SS+10 days,939,749SS-3 days



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CHIT CHEUNG CONSTRUCTION CO., LTD.
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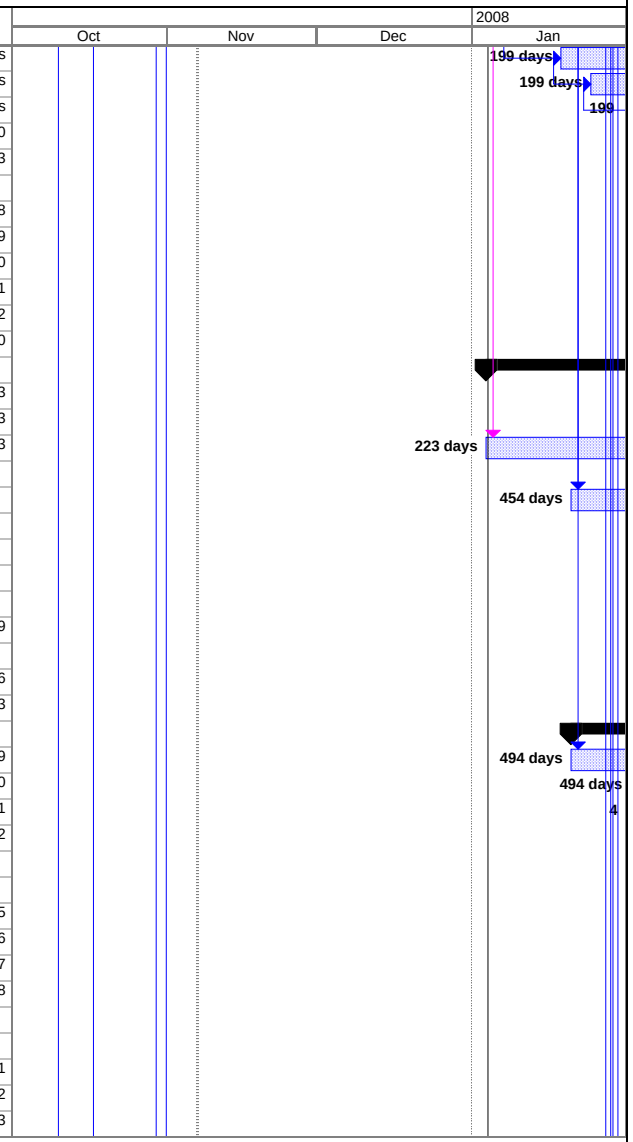
ID	Task Name	Duration	Start	Finish	Predecessors	Successors
751	Granular Bedding	16 days	Sat 19/1/08	Sun 3/2/08	750SS+10 days	752SS+6 days
752	Base Slab	20 days	Fri 25/1/08	Wed 13/2/08	751SS+6 days	753SS+14 days
753	Wall and Deck	20 days	Fri 8/2/08	Wed 27/2/08	752SS+14 days	754SS+7 days
754	Curing	28 days	Fri 15/2/08	Thu 13/3/08	753SS+7 days	755SS+14 days,770
755	Trench Backfill	24 days	Fri 29/2/08	Sun 23/3/08	754SS+14 days	803
756	**8. Retaining Wall RW2 (Ch340-Ch350)**	**73 days**	**Mon 22/9/08**	**Wed 3/12/08**		
757	Excavation	10 days	Mon 22/9/08	Wed 1/10/08	864	758
758	Granular bedding	4 days	Thu 2/10/08	Sun 5/10/08	757	759
759	Base slab	21 days	Mon 6/10/08	Sun 26/10/08	758	760
760	Wall	14 days	Mon 27/10/08	Sun 9/11/08	759	761
761	Curing	14 days	Mon 10/11/08	Sun 23/11/08	760	762
762	Backfilling	10 days	Mon 24/11/08	Wed 3/12/08	761	870
763	**9. Gabion**	**466 days**	**Fri 4/1/08**	**Mon 13/4/09**		
764	Bay 5- Bay 11 (Ch35-Ch130)	147 days	Tue 1/4/08	Mon 25/8/08	691	653
765	Bay 12 - Bay 19 (Ch130-Ch233)	93 days	Thu 17/7/08	Fri 17/10/08	700	653
766	Bay 20 - Bay 27 (Ch233-Ch340)	159 days	Fri 4/1/08	Tue 10/6/08	709	653
767	Bay 37 - Bay 43 (Ch449-Ch549)	67 days	Fri 6/2/09	Mon 13/4/09	718,682FF	
768	Bay 48 - Bay 54 (Ch609-Ch675)	79 days	Mon 21/1/08	Tue 8/4/08	736	
769	Bay 55 - Bay 59 (Ch675-Ch741)	20 days	Sat 12/4/08	Thu 1/5/08	745	
770	Bay 60 - Bay 63 (Ch741-Ch797)	17 days	Fri 14/3/08	Sun 30/3/08	754	
771	**10. Granite Stone Facing**	**318 days**	**Tue 1/4/08**	**Thu 12/2/09**		
772	Bay 4 (Ch19.5-Ch35)	5 days	Tue 1/4/08	Sat 5/4/08	691	
773	Bay 12 - Bay 19 (Ch130-Ch233)	12 days	Thu 17/7/08	Mon 28/7/08	700	869
774	Bay 37 - Bay 40 (Ch449-Ch504)	7 days	Fri 6/2/09	Thu 12/2/09	718	
775	Bay 41 - Bay 46 (Ch504-Ch586)	6 days	Fri 1/8/08	Wed 6/8/08	869	776
776	Bay 47 - Bay 55 (Ch586-Ch688)	9 days	Thu 7/8/08	Fri 15/8/08	775	653
777	**11. Ramp No. 1 (Ch645 - Ch668, Bay 52 - Bay 53)**	**39 days**	**Mon 21/1/08**	**Thu 28/2/08**		
778	base slab	12 days	Mon 21/1/08	Fri 1/2/08	736	779
779	Wall	10 days	Sat 2/2/08	Mon 11/2/08	778	780
780	General fill	5 days	Tue 12/2/08	Sat 16/2/08	779	781
781	Granular fill and blinding	5 days	Sun 17/2/08	Thu 21/2/08	780	782
782	Road slab	7 days	Fri 22/2/08	Thu 28/2/08	781	
783	**12. Ramp No. 2 (Ch516 - Ch537, Bay 42)**	**54 days**	**Fri 6/2/09**	**Tue 31/3/09**		
784	base slab	12 days	Fri 6/2/09	Tue 17/2/09	718	785
785	Wall	10 days	Wed 18/2/09	Fri 27/2/09	784	786
786	General fill	20 days	Sat 28/2/09	Thu 19/3/09	785	787
787	Granular fill and blinding	5 days	Fri 20/3/09	Tue 24/3/09	786	788
788	Road slab	7 days	Wed 25/3/09	Tue 31/3/09	787	
789	**13. Ramp No. 3 (Ch209 - Ch233, Bay 18 - Bay 19)**	**54 days**	**Thu 17/7/08**	**Mon 8/9/08**		
790	base slab	12 days	Thu 17/7/08	Mon 28/7/08	700	791
791	Wall	10 days	Tue 29/7/08	Thu 7/8/08	790	792
792	General fill	20 days	Fri 8/8/08	Wed 27/8/08	791	793



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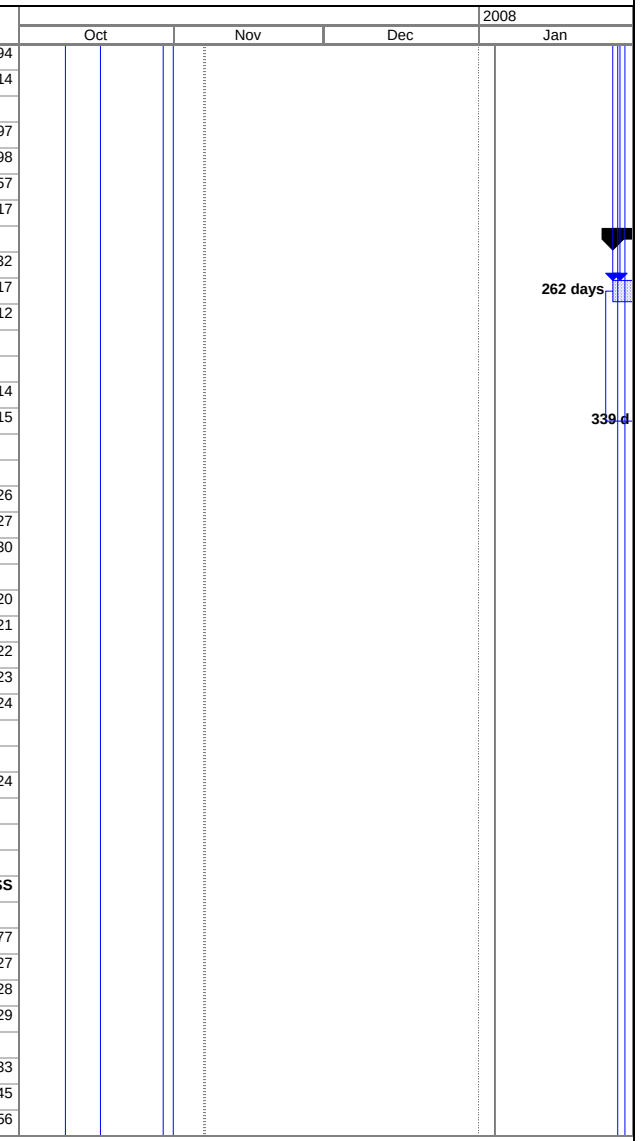
793	Granular fill and blinding	5 days	Thu 28/8/08	Mon 1/9/08	792	794
794	Road slab	7 days	Tue 2/9/08	Mon 8/9/08	793	814
795	**14 Ramp No. 4 (Ch35 - Ch55, Bay5)**	**32 days**	**Tue 1/4/08**	**Fri 2/5/08**		
796	General fill	7 days	Tue 1/4/08	Mon 7/4/08	691	797
797	Granular fill and blinding	8 days	Tue 8/4/08	Tue 15/4/08	796	798
798	Sloping side wall and road slab	17 days	Wed 16/4/08	Fri 2/5/08	797	657
799	**15. Demolition of existing wing walls Ch449**	14 days	Sun 26/10/08	Sat 8/11/08	716SS	717
800	**16. Filling in Platform**	**212 days**	**Mon 28/1/08**	**Tue 26/8/08**		
801	a. Bay 3- Bay 27 (Ch11-Ch340)	34 days	Thu 24/7/08	Tue 26/8/08	692,701	806SS+10 days,810,814,832
802	b. Bay 37 - Bay 55 (Ch449-Ch688)	54 days	Mon 28/1/08	Fri 21/3/08	737,728	807SS+10 days,811,817
803	c. Bay 56 - Bay 63 (Ch688-Ch797)	7 days	Tue 22/4/08	Mon 28/4/08	746,755	808,812
804	**17. Drainage works**	**236 days**	**Thu 7/2/08**	**Mon 29/9/08**		
805	17.1 storm drain with manhole and headwall	198 days	Thu 7/2/08	Fri 22/8/08		
806	a. Bay 3- Bay 27 (Ch11-Ch340)	20 days	Sun 3/8/08	Fri 22/8/08	801SS+10 days	814
807	b. Bay 37 - Bay 55 (Ch449-Ch688)	90 days	Thu 7/2/08	Tue 6/5/08	802SS+10 days	815
808	c. Bay 56 - Bay 63 (Ch688-Ch797)	14 days	Tue 29/4/08	Mon 12/5/08	803	
809	17.2 surface drain	192 days	Sat 22/3/08	Mon 29/9/08		
810	a. Bay 3- Bay 27 (Ch11-Ch340)	34 days	Wed 27/8/08	Mon 29/9/08	801	826
811	b. Bay 37 - Bay 55 (Ch449-Ch688)	60 days	Sat 22/3/08	Tue 20/5/08	802	827
812	c. Bay 56 - Bay 63 (Ch688-Ch797)	14 days	Tue 29/4/08	Mon 12/5/08	803	830
813	**18. Roads and paving**	**465 days**	**Sat 22/3/08**	**Mon 29/6/09**		
814	a. Ch233 - Ch340	50 days	Mon 2/2/09	Mon 23/3/09	801,874SS-30 days,794,806	820
815	b. Ch449 - Ch549	50 days	Mon 30/6/08	Mon 18/8/08	816,807	821
816	c. Ch549 - Ch609	50 days	Sun 11/5/08	Sun 29/6/08	817	815,822
817	d. Ch609 - Ch688	50 days	Sat 22/3/08	Sat 10/5/08	802	816,823
818	e. Permanent Entrance at Ch449	23 days	Sun 7/6/09	Mon 29/6/09	670	824
819	**19. Street furnitures**	**422 days**	**Sun 11/5/08**	**Mon 6/7/09**		
820	a. Ch233 - Ch340	30 days	Tue 24/3/09	Wed 22/4/09	814	
821	b. Ch449 - Ch549	30 days	Tue 19/8/08	Wed 17/9/08	815	824
822	c. Ch549 - Ch609	30 days	Mon 30/6/08	Tue 29/7/08	816	
823	d. Ch609 - Ch688	30 days	Sun 11/5/08	Mon 9/6/08	817	
824	e. Permanent Entrance at Ch449	7 days	Tue 30/6/09	Mon 6/7/09	818,821	
825	**20. Landscape softworks / hardworks**	**420 days**	**Tue 13/5/08**	**Mon 6/7/09**		**916SS**
826	a. Ch35 - Ch340	45 days	Sat 23/5/09	Mon 6/7/09	877,810	
827	b. Ch449 - Ch549	45 days	Thu 21/8/08	Sat 4/10/08	828,811	877
828	c. Ch549 - Ch609	45 days	Mon 7/7/08	Wed 20/8/08	829	827
829	d. Ch609 - Ch688	45 days	Fri 23/5/08	Sun 6/7/08	830	828
830	e. Ch688 - Ch797	10 days	Tue 13/5/08	Thu 22/5/08	812	829
831	**21. Road Diversion in Kam Po Road**	**159 days**	**Wed 27/8/08**	**Sun 1/2/09**		
832	a. Temp Decking above Bay 3 and temp road pavement	10 days	Wed 27/8/08	Fri 5/9/08	801	833
833	b. Implementation of road diversion	1 day	Sat 6/9/08	Sat 6/9/08	832	645
834	c. Removal of decking	1 day	Sun 1/2/09	Sun 1/2/09	654	656

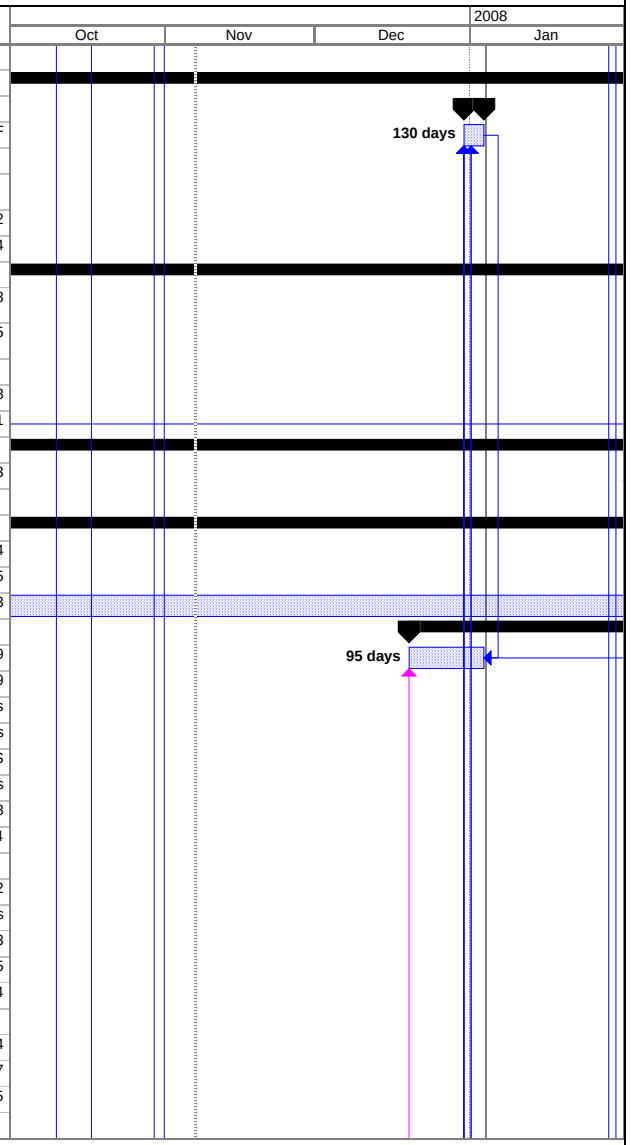


Task | Milestone | Rolled Up Critical Task | Split | Group By Summary
Critical Task | Summary | Rolled Up Milestone | External Tasks | Deadline
Progress | Rolled Up Task | Rolled Up Progress | Project Summary

PROGRAMME OF WORKS - MP03
Contract No. : DC / 2006 / 02
Contract Title : Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B - Cheung Chun San Tsuen and Kam Tsin Wai

CHIT CHEUNG CONSTRUCTION CO., LTD.
DATE : AUG 2007

ID	Task Name	Duration	Start	Finish	Predecessors	Successors
835						
836	**D. Section III of the Works - Portions 5A1, 5A2 and 5B**	**830 days**	**Fri 30/3/07**	**Mon 6/7/09**		
837	**1. Site clearance**	**4 days**	**Mon 31/12/07**	**Thu 3/1/08**		
838	1.1 General site clearance	4 days	Mon 31/12/07	Thu 3/1/08	921,923,927,929,933,935	857FF
839	**2. Temporary Traffic Management Scheme**	**59 days**	**Fri 30/3/07**	**Sun 27/5/07**		
840	TTMS Proposal (trial pits for utilities and site entrance in Kam Sh	59 days	Fri 30/3/07	Sun 27/5/07		
841	a. Submission	45 days	Fri 30/3/07	Sun 13/5/07	2SS	842
842	b. comments & approvals by Engineer & TMLG	14 days	Mon 14/5/07	Sun 27/5/07	841	844
843	**3. Excavation Permits**	**741 days**	**Mon 28/5/07**	**Sat 6/6/09**		
844	3.1 application and issue of permit (trial pits for utilities and temporary site entrance in Kam Sheung Road)	60 days	Mon 28/5/07	Thu 26/7/07	842	848
845	3.2 application and issue of permits (for construction of permanent entrance)	180 days	Tue 9/12/08	Sat 6/6/09	7FS-210 days	875
846	**4. Underground utilities detection**	**42 days**	**Fri 29/6/07**	**Thu 9/8/07**		
847	a. utilities detection	2 days	Fri 29/6/07	Sat 30/6/07	20	848
848	b. trial trench excavtion & identification	14 days	Fri 27/7/07	Thu 9/8/07	844,847	851
849	**5. Utilities temporary diversion / protection**	**424 days**	**Thu 26/7/07**	**Sun 21/9/08**		
850	a. Completion of WSD 450 diameter water main (By WSD)	1 day	Thu 26/7/07	Thu 26/7/07		883
851	b. Telephone line	87 days	Fri 27/6/08	Sun 21/9/08	859SS,864FF,848	
852	**6. Drainage Management Plan**	**662 days**	**Fri 30/3/07**	**Mon 19/1/09**		
853	a Submission of DMPs	1 day	Fri 30/3/07	Fri 30/3/07	641SS	854
854	b Comments by the Engineer	14 days	Sat 31/3/07	Fri 13/4/07	853	855
855	c Implementation of DMP	558 days	Thu 12/7/07	Mon 19/1/09	854,643FF	653
856	**7. Channel - Ch340-Ch439 (Bay 28 - Bay 35)**	**277 days**	**Thu 20/12/07**	**Sun 21/9/08**		
857	Haul access	15 days	Thu 20/12/07	Thu 3/1/08	921,838FF	859
858	Flow diversion	4 days	Fri 4/4/08	Mon 7/4/08	692FF,880	859
859	Excavation (including contamination material)	70 days	Tue 8/4/08	Mon 16/6/08	692,857,858	851SS,860SS+20 days
860	Granular Bedding	70 days	Mon 28/4/08	Sun 6/7/08	859SS+20 days	861SS+14 days
861	Base Slab	77 days	Mon 12/5/08	Sun 27/7/08	860SS+14 days	862SS+21 days,866SS
862	Wall and Deck	77 days	Mon 2/6/08	Sun 17/8/08	861SS+21 days,866	863SS+7 days
863	Curing	84 days	Mon 9/6/08	Sun 31/8/08	862SS+7 days	864SS+14 days,868
864	Trench Backfill	91 days	Mon 23/6/08	Sun 21/9/08	863SS+14 days	757,851FF,867,870,714
865	**8. Demolition of existing structures**	**147 days**	**Mon 12/5/08**	**Sun 5/10/08**		
866	a. Existing wing walls Ch439 (Bay35)	14 days	Mon 12/5/08	Sun 25/5/08	861SS	862
867	b. Existing footbridge at Ch350 (Bay 29)	14 days	Mon 22/9/08	Sun 5/10/08	864	870SF+14 days
868	**9. Gabion**	124 days	Mon 1/9/08	Fri 2/1/09	863	653
869	**10. Granite Stone Facing**	3 days	Tue 29/7/08	Thu 31/7/08	773	775
870	**11. Fill in Platform**	90 days	Thu 4/12/08	Tue 3/3/09	864,762,867SF+14 days	872SS+10 days,873,874
871	**12. Drainage works**	**100 days**	**Sun 14/12/08**	**Mon 23/3/09**		
872	a. storm drain with manhole	45 days	Sun 14/12/08	Tue 27/1/09	870SS+10 days	874
873	b. surface drain	20 days	Wed 4/3/09	Mon 23/3/09	870	877
874	**13. Roads and paving**	45 days	Wed 4/3/09	Fri 17/4/09	870,872	876SS+30 days,814SS-30 days,875
875	**14. Permanent Entrance and street furnitrures at Ch439**	30 days	Sun 7/6/09	Mon 6/7/09	845,874	



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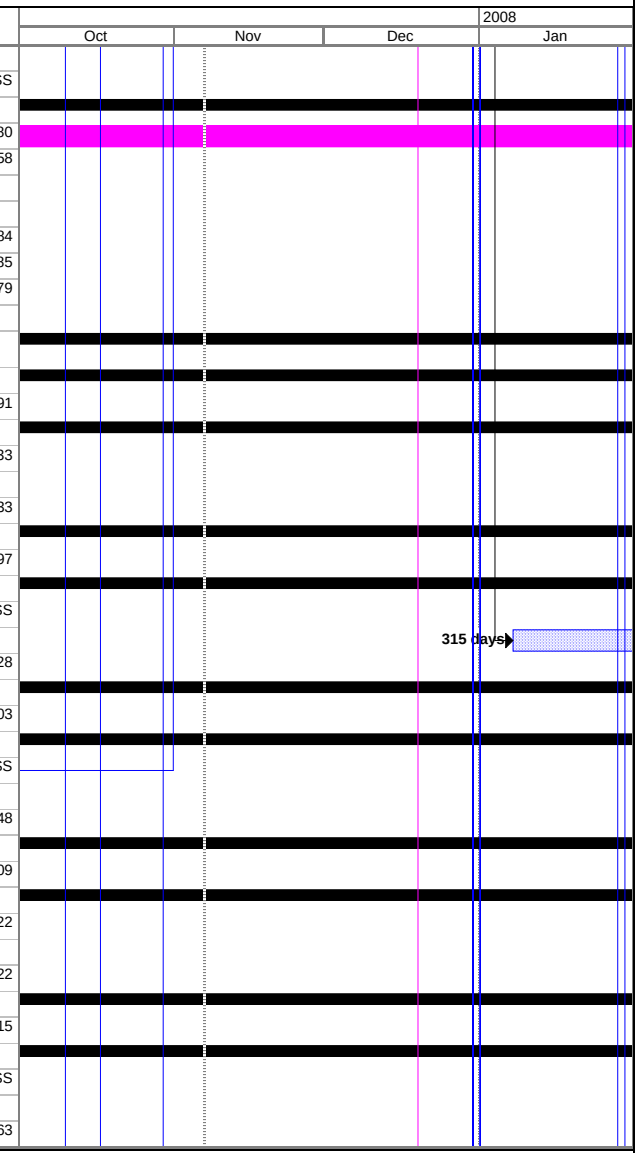
PROGRAMME OF WORKS - MP03
Contract No. : DC / 2006 / 02
Contract Title : Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B - Cheung Chun San Tsuen and Kam Tsin Wai

CHIT CHEUNG CONSTRUCTION CO., LTD.
DATE : AUG 2007

ID	Task Name	Duration	Start	Finish	Predecessors	Successors
876	**15. Street furnitures / traffic sign / road marking**	45 days	Fri 3/4/09	Sun 17/5/09	874SS+30 days	
877	**16. Landscape softworks / hardworks**	60 days	Tue 24/3/09	Fri 22/5/09	827,873	922SS,826,928SS,934SS
878	**17. Temp vehicular access in Portion 5A1**	**191 days**	**Wed 26/9/07**	**Thu 3/4/08**		
879	a. Maintenance and operation	188 days	Wed 26/9/07	Mon 31/3/08	885	880
880	b. Removal	3 days	Tue 1/4/08	Thu 3/4/08	879	858
881						
882	**E. Section IV of the Works**	**20 days**	**Thu 6/9/07**	**Tue 25/9/07**		
883	1. Formation for temp vehicular access	2 days	Thu 6/9/07	Fri 7/9/07	921,850	884
884	2. Construction of temp vehicular access	17 days	Sat 8/9/07	Mon 24/9/07	883,11FF-1 day	885
885	3. Opening of temp vehicular access to the Public	1 day	Tue 25/9/07	Tue 25/9/07	884	879
886						
887	**F. Section V of the Works - Preservation and protection to existing trees**	**804 days**	**Sat 31/3/07**	**Thu 11/6/09**		
888	**1. Portion 1**	**789 days**	**Sat 31/3/07**	**Wed 27/5/09**		
889	1.1 Tree survey	14 days	Sat 31/3/07	Fri 13/4/07	15	891
890	1.2 Tree transplant	740 days	Sat 19/5/07	Wed 27/5/09		
891	a. To Temp holding nursery	62 days	Sat 19/5/07	Thu 19/7/07	889,213	893SS,233
892	b. To final location	90 days	Fri 27/2/09	Wed 27/5/09	320FF	
893	1.3 Tree protection	62 days	Sat 19/5/07	Thu 19/7/07	891SS	233
894	**2. Portion 2**	**454 days**	**Wed 30/5/07**	**Mon 25/8/08**		
895	2.1 Tree survey	14 days	Wed 30/5/07	Tue 12/6/07	16	897
896	2.2 Tree transplant	440 days	Wed 13/6/07	Mon 25/8/08		
897	a. To Temp holding nursery	62 days	Wed 13/6/07	Mon 13/8/07	895,213,227	328,899SS
898	b. To final location	231 days	Tue 8/1/08	Mon 25/8/08	436SS	
899	2.3 Tree protection	62 days	Wed 13/6/07	Mon 13/8/07	897SS	328
900	**3. Portion 3**	**697 days**	**Fri 29/6/07**	**Mon 25/5/09**		
901	3.1 Tree survey	14 days	Fri 29/6/07	Thu 12/7/07	17	903
902	3.2 Tree transplant	683 days	Fri 13/7/07	Mon 25/5/09		
903	a. To Temp holding nursery	64 days	Fri 13/7/07	Fri 14/9/07	901,213	448,491,905SS
904	b. To final location	151 days	Fri 26/12/08	Mon 25/5/09	609SS	
905	3.3 Tree protection	64 days	Fri 13/7/07	Fri 14/9/07	903SS	448
906	**4. Portion 4**	**804 days**	**Sat 31/3/07**	**Thu 11/6/09**		
907	4.1 Tree survey	14 days	Sat 31/3/07	Fri 13/4/07	18	909
908	4.2 Tree transplant	755 days	Sat 19/5/07	Thu 11/6/09		
909	a. To Temp holding nursery	62 days	Sat 19/5/07	Thu 19/7/07	907,213	911SS,622
910	b. To final location	70 days	Fri 3/4/09	Thu 11/6/09	659SS	
911	4.3 Tree protection	62 days	Sat 19/5/07	Thu 19/7/07	909SS	622
912	**5. Portion 5**	**559 days**	**Fri 29/6/07**	**Wed 7/1/09**		
913	5.1 Tree survey	14 days	Fri 29/6/07	Thu 12/7/07	19	915
914	5.2 Tree transplant	**545 days**	**Fri 13/7/07**	**Wed 7/1/09**		
915	a. To Temp holding nursery	69 days	Fri 13/7/07	Wed 19/9/07	913,213	663,917SS
916	b. To final location	240 days	Tue 13/5/08	Wed 7/1/09	825SS	
917	5.3 Tree protection	69 days	Fri 13/7/07	Wed 19/9/07	915SS	663



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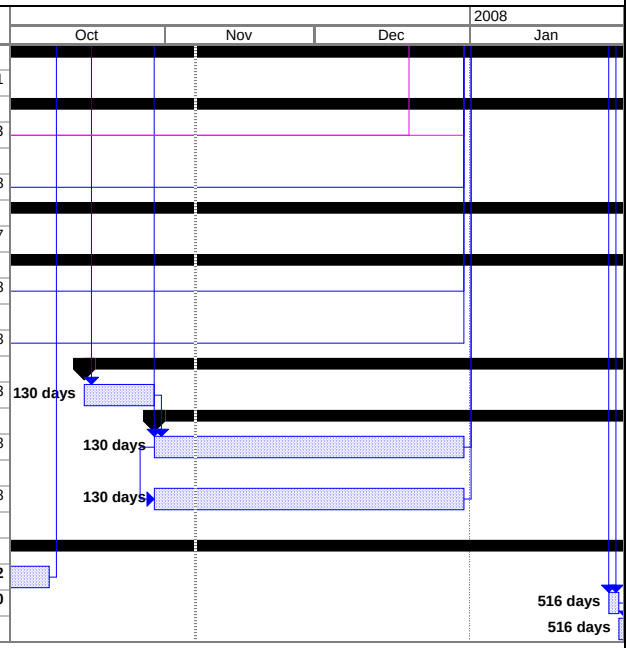
PROGRAMME OF WORKS - MP03
Contract No. : DC / 2006 / 02
Contract Title : Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B - Cheung Chun San Tsuen and Kam Tsin Wai

CHIT CHEUNG CONSTRUCTION CO., LTD.
DATE : AUG 2007

ID	Task Name	Duration	Start	Finish	Predecessors	Successors
918	**6. Portion 5A1**	**694 days**	**Fri 29/6/07**	**Fri 22/5/09**		
919	6.1 Tree survey	7 days	Fri 29/6/07	Thu 5/7/07	20	921
920	6.2 Tree transplant	687 days	Fri 6/7/07	Fri 22/5/09		
921	a. To Temp holding nursery	62 days	Fri 6/7/07	Wed 5/9/07	919,213	838,857,923SS,883
922	b. To final location	60 days	Tue 24/3/09	Fri 22/5/09	877SS	
923	6.3 Tree protection	62 days	Fri 6/7/07	Wed 5/9/07	921SS	838
924	**7. Portion 5A2**	**694 days**	**Fri 29/6/07**	**Fri 22/5/09**		
925	7.1 Tree survey	14 days	Fri 29/6/07	Thu 12/7/07	21	927
926	7.2 Tree transplant	680 days	Fri 13/7/07	Fri 22/5/09		
927	a. To Temp holding nursery	62 days	Fri 13/7/07	Wed 12/9/07	925,213	929SS,838
928	b. To final location	60 days	Tue 24/3/09	Fri 22/5/09	877SS	
929	7.3 Tree protection	62 days	Fri 13/7/07	Wed 12/9/07	927SS	838
930	**8. Portion 5B**	**585 days**	**Tue 16/10/07**	**Fri 22/5/09**		
931	8.1 Tree survey	14 days	Tue 16/10/07	Mon 29/10/07	22	933
932	8.2 Tree transplant	571 days	Tue 30/10/07	Fri 22/5/09		
933	a. To Temp holding nursery	62 days	Tue 30/10/07	Sun 30/12/07	931,213	935SS,838
934	b. To final location	60 days	Tue 24/3/09	Fri 22/5/09	877SS	
935	8.3 Tree protection	62 days	Tue 30/10/07	Sun 30/12/07	933SS	838
936						
937	**G. Berthing Area**	**148 days**	**Wed 12/9/07**	**Wed 6/2/08**		
938	**1. Construction of Loading Facilities**	**27 days**	**Wed 12/9/07**	**Mon 8/10/07**	**162**	**732**
939	**2. Removal of Loading Facilities**	**2 days**	**Tue 29/1/08**	**Wed 30/1/08**	**750,73**	**940**
940	**3. Reinstatement of Berthing Area**	**7 days**	**Thu 31/1/08**	**Wed 6/2/08**	**939**	



Task
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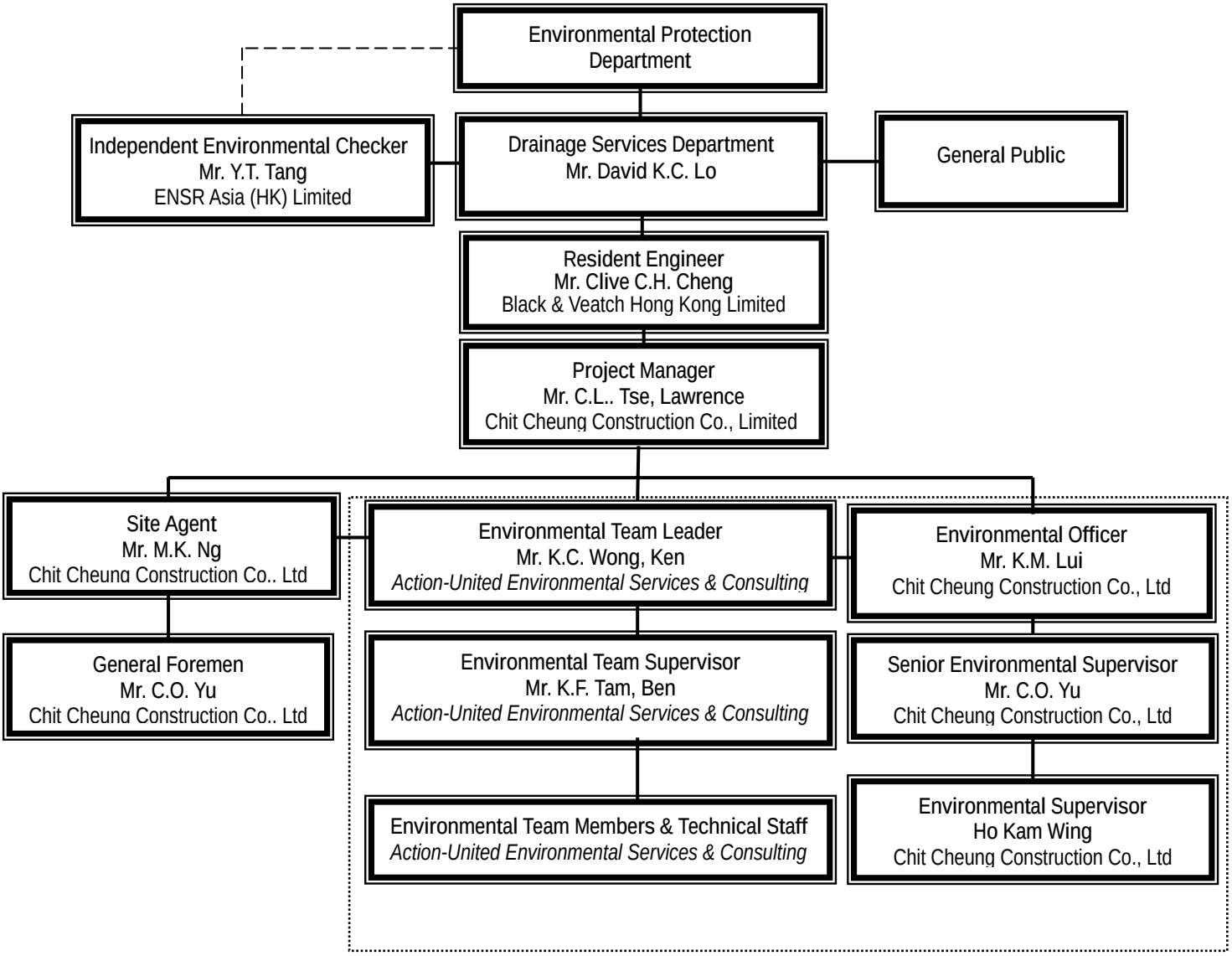
Appendix C

Environmental Organization Structure

Environmental Organization Structure



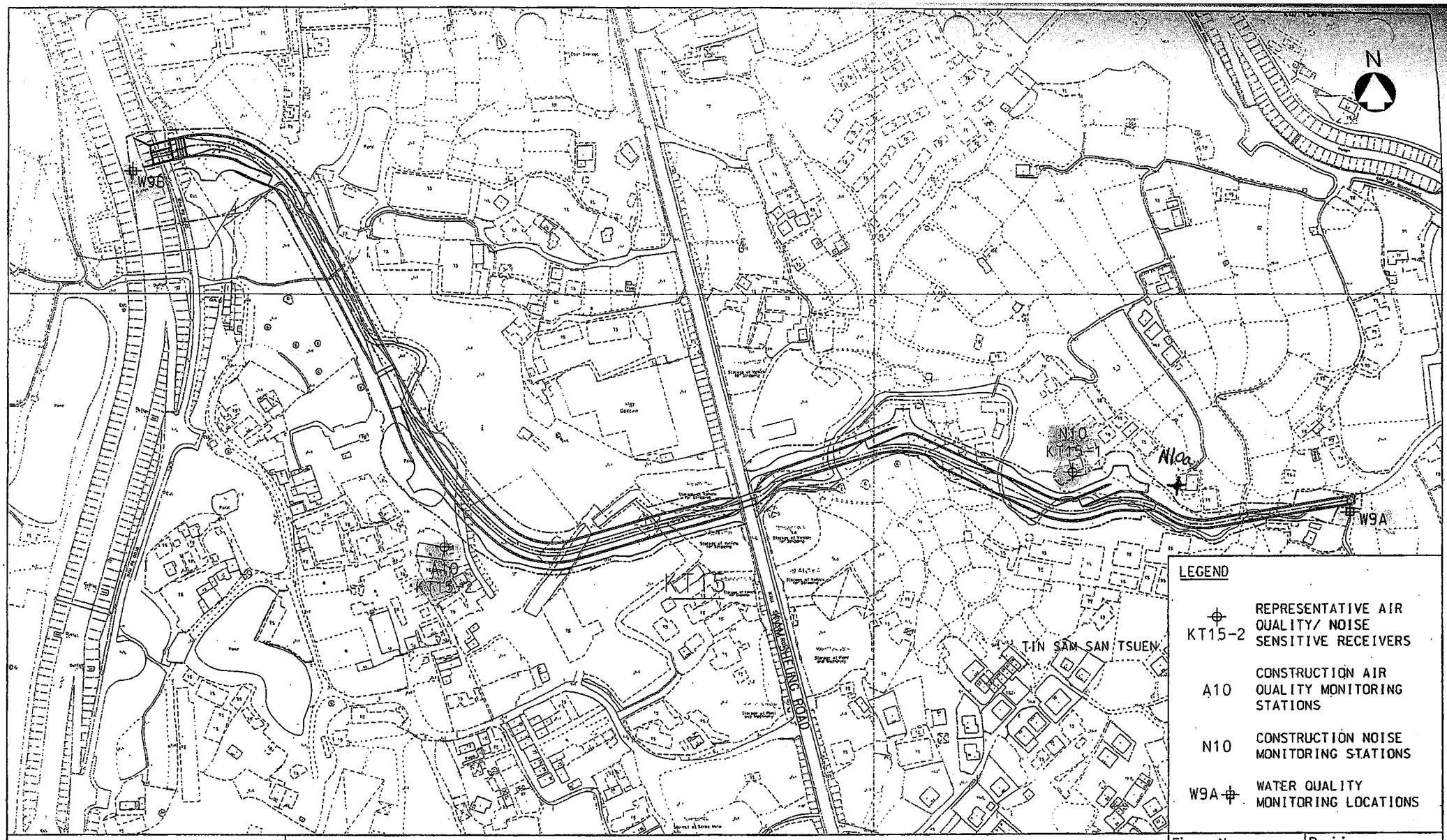
Contact Details of Key Personnel

Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
DSD	Employer	Mr. David K.C. LO	2594-7254	2827-8526
B&V	Engineer	Mr. Kelvin N.F. LAU	2601-1000	2601-3988
B&V	Engineer's Representative	Mr. Clive C.H. CHENG	2443-1442	2443-7307
ENSR	Independent Environmental Checker	Mr. Y.T. Tang	3105-8537	2891-0305
CCC	Project Director	Mr. P.Y. CHENG	9023-4821	2403-1162
CCC	Project Manager	Mr. Lawrence TSE	9752-0748	2479-1365
CCC	Site Agent	Mr. M.K. NG	6603-9711	2479-1365
CCC	Site Engineer	Mr. Jimmy CHAN	9234-8632	2479-1365
CCC	Environmental Officer	Mr. LUI Kam Man	9257-9111	2479-1365
CCC	Senior Environmental Supervisor	Mr. YU Chor-on	9026-9501	2479-1365
CCC	Environmental Supervisor	Ho Kam Wing	9016-0592	2479-1365
CCC	Safety Officer	Mr. SHEA Yan Keung	6086-4658	2479-1365
AUES	Environmental Team Leader	Ken Wong	2959-6059	2959-6079
AUES	Ecologist	Vincent Lai	9406-9784	2959-6079
AUES	Decontamination Specialist	David Yeung	2959-6059	2959-6079

Legend:
DSD (Employer) - Drainage Services Department
B&V (Engineer) - Black & Veatch Hong Kong Limited
CCC (Contractor) - Chit Cheung Construction Company Limited.
ENSR (IEC) - ENSR Asia (HK) Ltd.
AUES (ET) - Action-United Environmental Services & Consulting

Appendix D

Locations of Designated Monitoring Station/Locations/Area



YUEN LONG, KAM TIN,
NGAU TAM MEI AND TIN SHUI WAI
DRAINAGE IMPROVEMENT, STAGE1, PHASE 2B

BLACK & VEATCH HONG KONG LIMITED
博威工程顧問有限公司

Title :

CONSTRUCTION PHASE AIR QUALITY/NOISE/WATER QUALITY MONITORING LOCATIONS AT KT15

Figure No. ATT4-4.3	Revision -
Reference -	File Name 3820470201-137.DGN
Prepared WYC	Checked MC
Date DEC. 2002	Scale 1 : 2000

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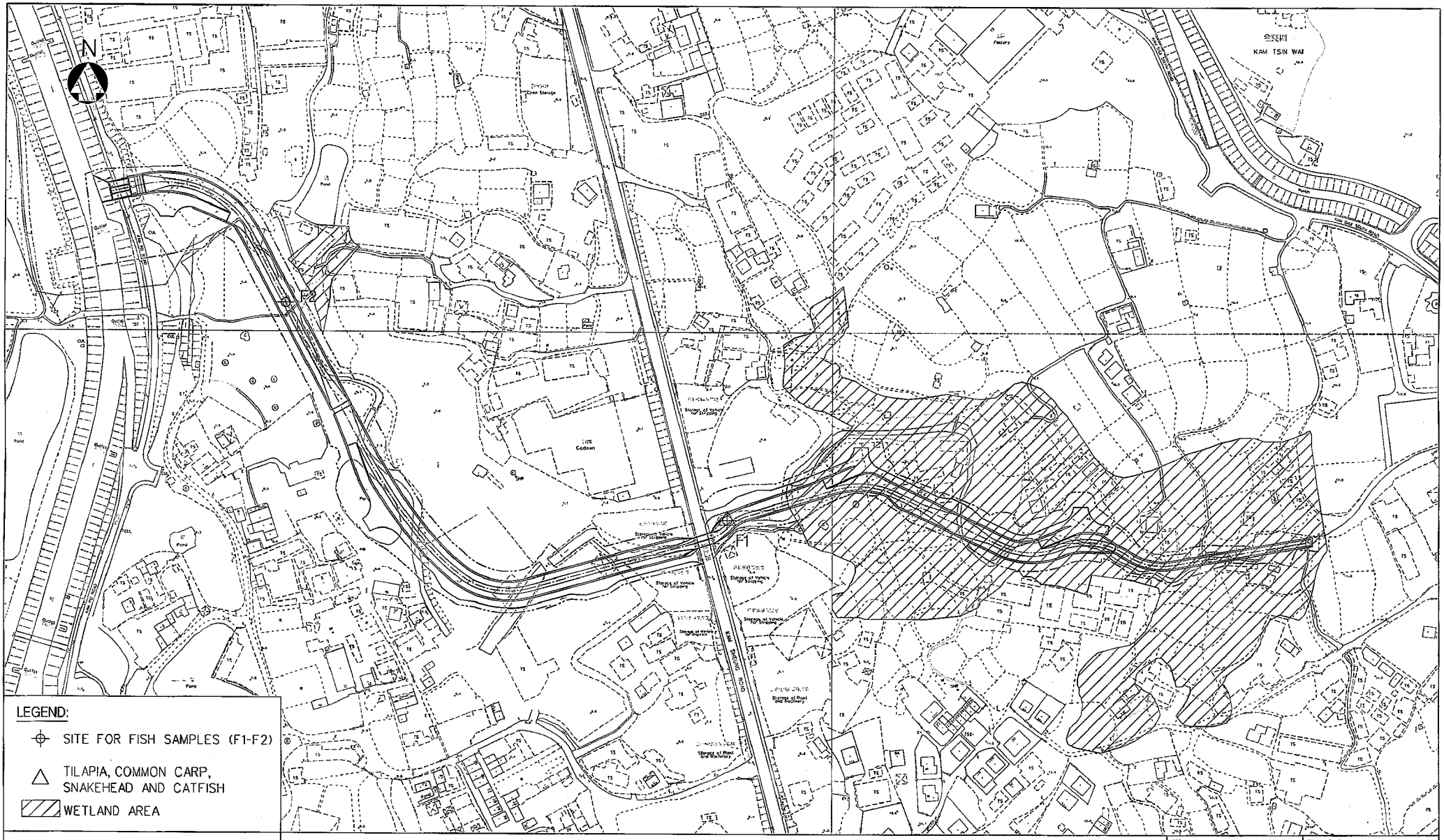

LEGEND:

- SITE FOR FISH SAMPLES (F1-F2)
- TILAPIA, COMMON CARP, SNAKEHEAD AND CATFISH
- WETLAND AREA

YUEN LONG, KAM TIN,
NGAU TAM MEI AND TIN SHUI WAI
DRAINAGE IMPROVEMENT, STAGE1, PHASE 2B

BLACK & VEATCH HONG KONG LIMITED
博威工程顧問有限公司

Title :

ECOLOGICAL MONITORING AREA KT15

Figure No. 3.3	Revision 0
Reference -	File Name 3820470201-114.DGN
Prepared AEC	Checked WYC
Date MAR. 2003	Scale 1 : 2000

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Appendix E

Event/Action Plan for Air Quality, Construction Noise, Stream Water Quality and Ecology

Event/Action Plan for Air Quality

EVENT	ACTION			
	ET	**IEC**	**Engineer**	**Contractor**
ACTION LEVEL				
1. Exeedance for one sample	1. Identify source 2. Inform IEC and Engineer 3. Repeat measurement to confirm finding 4. Increase monitoring frequency to daily	1. Check monitoring data submitted by ET 2. Check Contractor's working method	Notify Contractor	1. Rectify any unacceptable practice 2. Amend working methods if appropriate
2. Exeedance for two or more consecutive samples	1. Identify source 2. Inform IEC and Engineer 3. Repeat measurements to confirm findings 4. Increase monitoring frequency to daily 5. Discuss with IEC and Contractor on remedial actions required 6. If exceedance continues, arrange meeting with IEC and Engineer 7. 7. If exceedance stops, cease additional monitoring	1. Check monitoring data submitted by ET 2. Check Contractor's working method 3. Discuss with ET and Contractor on possible remedial measures 4. Advice Engineer on the effectiveness of the proposed remedial measures 5. Supervise implementation of remedial measures	1. Confirm receipt of notification of failure in writing 2. Notify Contractor 3. Ensure remedial measures properly implemented	1. Submit proposals for remedial actions to IEC within 3 working days of notification 2. Implement the agreed proposals 3. Amend proposal if appropriate
LIMIT LEVEL				
1. Exeedance for one sample	1. Identify source 2. Inform Engineer and EPD 3. Repeat measurement to confirm finding 4. Increase monitoring frequency to daily 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and Engineer informed of the results	1. Check monitoring data submitted by ET 2. Check Contractor's working method 3. Discuss with ET and Contractor on possible remedial measures 4. Advice Engineer on the effectiveness of the proposed remedial measures 5. Supervise implementation of remedial measures	1. Confirm receipt of notification of failure in writing 2. Notify Contractor 3. Ensure remedial measures properly implemented	1. Take immediate action to avoid further exceedance 2. Submit proposals for remedial actions to IEC within 3 working days of notification 3. Implement the agreed proposals 4. Amend proposal if appropriate
2. Exceedance for two or more consecutive samples	1. Notify IEC, Engineer and EPD 2. Identify source 3. Repeat measurement to confirm findings 4. Increase monitoring frequency to daily 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented. 6. Arrange meeting with IEC and Engineer to discuss the remedial actions to be taken 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and Engineer informed of the results 8. If exceedance stops, cease additional monitoring	1. Discuss amongst Engineer, ET and Contractor on potential remedial actions 2. Review Contractor's remedial actions whether necessary to assure their effectiveness and advice the Engineer accordingly 3. Supervise implementation of remedial measures	1. Confirm receipt of notification of failure in writing 2. Notify Contractor 3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented 4. Discuss amongst Environmental Team Leader and the Contractor potential remedial actions 5. Ensure remedial measures properly implemented 6. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated	1. Take immediate action to avoid further exceedance 2. Submit proposals for remedial actions to IEC within 3 working days of notification 3. Implement the agreed proposals 4. Resubmit proposals if problem still not under control 5. Stop the relevant portion of works as determined by the Engineer until the exceedance is abated

Event/Action Plan for Construction Noise

EVENT	ACTION			
	ET Leader	**IEC**	**Engineer**	**Contractor**
ACTION LEVEL	1. Notify Contractor and Engineer 2. Carry out investigation 3. Report the results of investigation to the IEC and Contractor 4. Discuss with the Contractor and formulate remedial measures 5. Increase monitoring frequency to check mitigation effectiveness	1. Review the analysed results submitted by ET 2. Review the proposed remedial measures by the Contractor and advice the Engineer accordingly 3. Supervise implementation of remedial measures	1. Confirm receipt of notification of failure in writing 2. Notify Contractor 3. Require Contractor to propose remedial measures for the analysed noise problem 4. Ensure remedial measures properly implemented	1. Submit noise mitigation proposals for remedial actions to IEC 2. Implement the agreed proposals
LIMIT LEVEL	1. Notify IEC, Engineer, EPD and Contractor 2. Identify source 3. Repeat measurement to confirm findings 4. Increase monitoring frequency 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented 6. Inform IEC, Engineer and EPD the causes & actions taken for the exceedances 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and Engineer informed of the results 8. If exceedance stops, cease additional monitoring	1. Discuss amongst Engineer, ET and Contractor on potential remedial actions 2. Review Contractor's remedial actions whether necessary to assure their effectiveness and advice the Engineer accordingly 3. Supervise implementation of remedial measures	1. Confirm receipt of notification of failure in writing 2. Notify Contractor 3. Require Contractor to propose remedial measures for the analysed noise problem 4. Ensure remedial measures properly implemented 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated	1. Take immediate action to avoid further exceedance 2. Submit proposals for remedial actions to IEC within 3 working days of notification 3. Implement the agreed proposals 4. Resubmit proposals if problem still not under control 5. Stop the relevant portion of works as determined by the Engineer until the exceedance is abated

Event and Action Plan for Stream Water Quality

Event	ET Leader	IEC	Engineer	Contractor
ACTION LEVEL (being exceeded by one sampling day)	1. Repeat in-situ measurement to confirm findings 2. Identify source(s) of impact 3. Inform IEC and Contractor 4. Check monitoring data, all plant, equipment and Contractor's working methods 5. Discuss mitigation measures IEC and Contractor 6. Repeat measurement on next day of exceedance	1. Discuss with ET and Contractor on the mitigation measures 2. Review proposals on mitigation measures submitted by Contractor and advice Engineer accordingly 3. Assess the effectiveness of the implemented mitigation measures	1. Discuss with IEC on the proposed mitigation measures 2. Make agreement on the mitigation measures to be implemented	1. Inform Engineer and confirm notification of the non-compliance in writing 2. Rectify unacceptable practice 3. Check all plant and equipment 4. Consider changes of working methods 5. Discuss with ET and Contractor and propose mitigation measures to IEC and Engineer 6. Implement the agreed mitigation measures
ACTION LEVEL (being exceeded by more than one sampling day)	1. Repeat in-situ measurement to confirm findings 2. Identify source(s) of impact 3. Inform IEC, Contractor and EPD 4. Check monitoring data, all plant, equipment and Contractor's working methods 5. Discuss mitigation measures IEC, Engineer and Contractor 6. Repeat measurement on next day of exceedance 7. Ensure mitigation measures are implemented 8. Prepare to increase the monitoring frequency to daily 9. Repeat measurement on next day of exceedance	1. Discuss with ET and Contractor on the mitigation measures 2. Review proposals on mitigation measures submitted by Contractor and advice Engineer accordingly 3. Assess the effectiveness of the implemented mitigation measures	1. Discuss with IEC on the proposed mitigation measures 2. Make agreement on the mitigation measures to be implemented 3. Assess the effectiveness of the implemented mitigation measures	1. Inform Engineer and confirm notification of the non-compliance in writing 2. Rectify unacceptable practice 3. Check all plant and equipment 4. Consider changes of working methods 5. Discuss with ET and IEC and propose mitigation measures to IEC and Engineer within 3 working days 6. Implement the agreed mitigation measures
LIMIT LEVEL (being exceeded by one sampling days)	1. Repeat in-situ measurement to confirm findings 2. Identify source(s) of impact 3. Inform IEC, Contractor and EPD 4. Check monitoring data, all plant, equipment and Contractor's working methods 5. Discuss mitigation measures IEC, Engineer and Contractor 6. Ensure mitigation measures are implemented 7. Increase the monitoring frequency to daily until no exceedance of Limit level	1. Discuss with ET and Contractor on the mitigation measures 2. Review proposals on mitigation measures submitted by Contractor and advice Engineer accordingly 3. Assess the effectiveness of the implemented mitigation measures	1. Discuss with IEC, ET and Contractor on the proposed mitigation measures 2. Request Contractor to critically review the working methods 3. Make agreement on the mitigation measures to be implemented 4. Assess the effectiveness of the implemented mitigation measures	1. Inform Engineer and confirm notification of the non-compliance in writing 2. Rectify unacceptable practice 3. Check all plant and equipment 4. Consider changes of working methods 5. Discuss with ET, IEC and Engineer and propose mitigation measures to IEC and Engineer within 3 working days 6. Implement the agreed mitigation measures
LIMIT LEVEL (being exceeded by more than one sampling days)	1. Repeat in-situ measurement to confirm findings; 2. Identify source(s) of impact; 3. Inform Contractor, Engineer, IEC and EPD; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC, Engineer and Contractor; 6. Ensure mitigation measures are implemented; 7. Increase the monitoring frequency to daily until no exceedance of Limit level	1. Discuss with ET and Contractor on the mitigation measures 2. Review proposals on mitigation measures submitted by Contractor and advice Engineer accordingly 3. Assess the effectiveness of the implemented mitigation measures	1. Discuss with IEC, ET and Contractor on the proposed mitigation measures 2. Request Contractor to critically review the working methods 3. Make agreement on the mitigation measures to be implemented 4. Assess the effectiveness of the implemented mitigation measures 5. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the construction activities until daily until no exceedance of Limit level	1. Inform Engineer and confirm notification of the non-compliance in writing 2. Rectify unacceptable practice 3. Check all plant and equipment 4. Consider changes of working methods 5. Discuss with ET, IEC and Engineer and propose mitigation measures to IEC and Engineer within 3 working days Propose mitigation measures to Engineer within 3 working days 6. Implement the agreed mitigation measures; 7. As directed by Engineer, to slow down or to stop all or part of the construction activities

Event/Action Plan for Ecology

Event	ET Leader	IEC	Engineer	Contractor
Fauna The total number of species or individuals of the surveyed wetland dependent faunal groups is reduced by 20-40% from baseline	• Notify IEC and Contractor; • Check the position and state of the current works to identify the causes; • Discuss mitigation measures with IEC and Contractor	• Discuss with ET and Contractor on the mitigation measures • Review proposals on mitigation measures submitted by Contractor and advice Engineer accordingly • Assess the effectiveness of the implemented mitigation measures	• Discuss with IEC on the proposed mitigation measures; • Reach agreement on the mitigation measures to be implemented	• Inform Engineer and confirm notification of the non-compliance in writing • Take immediate action to avoid further exceedances; • Check all plant and equipment and working methods, especially noise emanating ones • Discuss with ET and IEC and propose mitigation measures to IEC and Engineer • Implement the agreed mitigation measures

Appendix F

Equipment Calibration Certificates

Equipment Calibration List for Construction of Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B – Cheung Chun San Tsuen and Kam Tsin Wai Project

Item	Aspect	Description of Equipment	Date of Calibration	Date of Next Calibration
1*	Air	Greasby Anderson GMWS2310 High Volume Sampler	03 Nov 07	03 Jan 08
2		EQ094 - Sibata LD-3 Laser Dust Meter	22 Jun 07	21 Jun 08
3		EQ096 - Sibata LD-3 Laser Dust Meter	22 Jun 07	21 Jun 08
4	Noise	Bruel & Kjaer 4231 Acoustical Calibrator	17 Apr 07	17 Apr 08
5		Bruel & Kjaer 2238 Integrating Sound Level Meter	17 Apr 07	17 Apr 08
6	Water	YSI 550A or YSI 85/10FT DO Meter	15 Oct 07	15 Jan 08
7		Hanna HI 98128	13 Oct 07	13 Jan 08
8		Hach 2100p	15 Oct 07	15 Jan 08
9		ATAGO refractometer	15 Oct 07	15 Jan 08

Note: *Calibration certificates will only be provided if monitoring equipment is re-calibrated or new.

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location : Tin Sam San Tsuen
Location ID : A10

Date of Calibration: 3-Nov-07
Next Calibration Date: 3-Jan-08
Technician: Mr. Ben Tam

CONDITIONS

Sea Level Pressure (hPa)	1020.6	Corrected Pressure (mm Hg)	765.45
Temperature (^{o}C)	19.1	Temperature (K)	292

CALIBRATION ORIFICE

Make->	TISCH	Qstd Slope ->	1.94872
Model->	515N	Qstd Intercept ->	0.00202
Serial # ->	9833620		

CALIBRATION

Plate No.	H20 (L) (in)	H2O (R) (in)	H20 (in)	Qstd (m3/min)	I (chart)	IC corrected	LINEAR REGRESSION
18	4.2	4.2	8.4	1.507	42	43.00	Slope = 36.5658
13	3.1	3.1	6.2	1.294	35	35.83	Intercept = -12.3541
10	2.2	2.2	4.4	1.090	25	25.60	Corr. coeff. = 0.9949
7	1.5	1.5	3	0.900	20	20.48	
5	1	1	2	0.735	15	15.36	

Calculations :

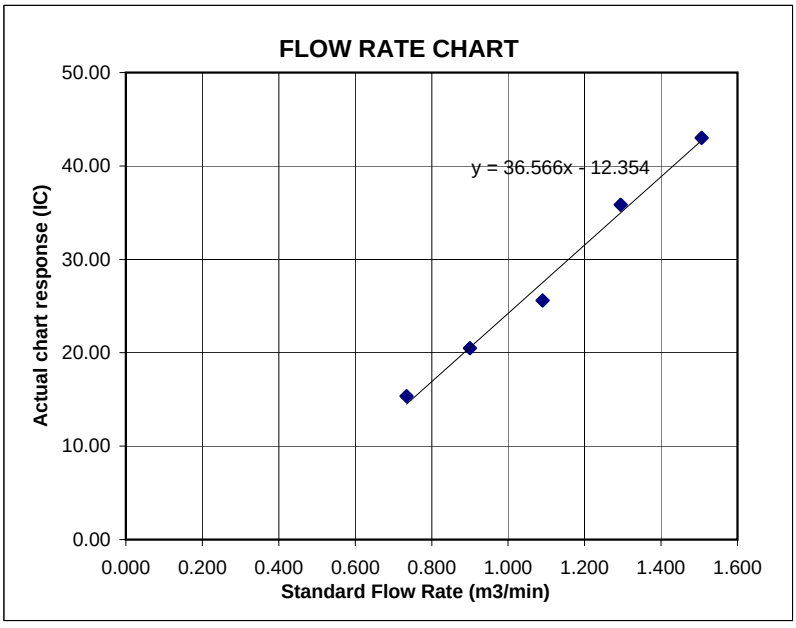
Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b]
IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate
IC = corrected chart respones
I = actual chart response
m = calibrator Qstd slope
b = calibrator Qstd intercept
Ta = actual temperature during calibration (deg K)
Pstd = actual pressure during calibration (mm Hg)

For subsequent calculation of sampler flow:

1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)

m = sampler slope
b = sampler intercept
I = chart response
Tav = daily average temperature
Pav = daily average pressure



Equipment Calibration Record

AUES

Equipment Calibrated:

Type:	Laser Dust monitor
Manufacturer:	Sibata
Serial No.	362337
Equipment Ref:	EQ094
Sensitivity	722 CPM

Standard Equipment:

Standard Equipment:	Higher Volume Sampler
Location & Location ID:	Au Tau abutment next to Yoho Town Phase 2
Equipment Ref:	AM 7
Last Calibration Date:	20 May 2007

Equipment Calibration Results:

Calibration Date: 22 June 2007

Hour	Time	Temp °C	RH %	Concentration in mg/m^3 (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/60min)
1	13:12 ~ 14:12	32.3	74	0.133	3613	60.2
1	14:15 ~ 15:15	31.7	77	0.139	3872	64.5
1	15:20 ~ 16:20	31.3	79	0.122	3204	53.4

Sensitivity Adjustment Scale Setting (Before Calibration) 722 (CPM)

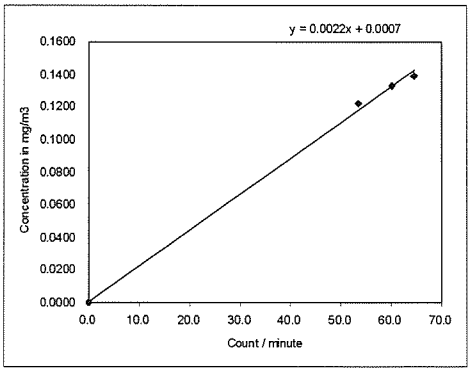
Sensitivity Adjustment Scale Setting (After Calibration) 722 (CPM)

Linear Regression of Y or X

Slope (K-factor): 0.0022

Correlation Coefficient 0.9987

Validity of Calibration Record 25 June 2007



Operator : Ben Tam Signature : Date : 25 June 2007

QC Reviewer : Kenneth Wong Signature : Date : 25 June 2007

Equipment Calibration Record

AUES

Equipment Calibrated:

Type:	Laser Dust monitor
Manufacturer:	Sibata
Serial No.	362359
Equipment Ref:	EQ096
Sensitivity	769 CPM

Standard Equipment:

Standard Equipment:	Higher Volume Sampler
Location & Location ID:	Au Tau abutment next to Yoho Town Phase 2
Equipment Ref:	AM 7
Last Calibration Date:	20 May 2007

Equipment Calibration Results:

Calibration Date: 22 June 2007

Hour	Time	Temp °C	RH %	Concentration in mg/m^3 (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/60min)
1	13:12 ~ 14:12	32.3	74	0.133	3603	60.1
1	14:15 ~ 15:15	31.7	77	0.139	3930	65.5
1	15:20 ~ 16:20	31.3	79	0.122	3311	55.2

Sensitivity Adjustment Scale Setting (Before Calibration) 709 (CPM)

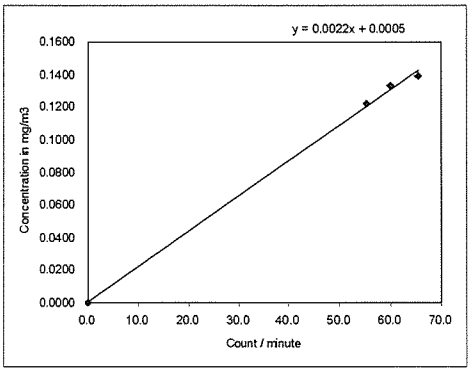
Sensitivity Adjustment Scale Setting (After Calibration) 709 (CPM)

Linear Regression of Y or X

Slope (K-factor): 0.0021

Correlation Coefficient 0.9990

Validity of Calibration Record 25 June 2007



Operator : Ben Tam Signature : Date : 25 June 2007

QC Reviewer : Kan Wong Signature : Date : 25 June 2007

輝創工程有限公司
Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No. : C071764

Certificate of Calibration

This is to certify that the equipment

Description : Acoustical Calibrator (EQ017)

Manufacturer : Bruel & Kjaer

Model No. : 4231

Serial No. : 2292168

has been calibrated for the specific items and ranges.
The results are shown in the Calibration Report No. C071764.

The equipment is supplied by

Co. Name : Action-United Environmental Services and Consulting

Address : Unit A, 20/F., Gold King Industrial Building,
35-41 Tai Lin Pai Road, Kwai Chung, N.T.

Date of Issue : 17 April 2007

Certified by : *K C Lee*

Calibration and Testing Laboratory of Sun Creation Engineering Limited
c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong
Tel: 2927 2606 Fax: 2744 8986 E-mail: callab@suncreation.com Website: www.suncreation.com

輝創工程有限公司
Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No. : C071765

Certificate of Calibration

This is to certify that the equipment

Description : Integrating Sound Level Meter (EQ010)

Manufacturer : Bruel & Kjaer

Model No. : 2238

Serial No. : 2285721

has been calibrated for the specific items and ranges.
The results are shown in the Calibration Report No. C071765.

The equipment is supplied by

Co. Name : Action-United Environmental Services and Consulting

Address : Unit A, 20/F., Gold King Industrial Building,
35-41 Tai Lin Pai Road, Kwai Chung, N.T.

Date of Issue : 17 April 2007

Certified by : K C Lee

Calibration and Testing Laboratory of Sun Creation Engineering Limited
c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong
Tel: 2927 2606 Fax: 2744 8986 E-mail: callab@suncreation.com Website: www.suncreation.com

CERTIFICATE OF ANALYSIS

Batch: HK0714833
Date of Issue: 18/10/2007
Client: ACTION UNITED ENVIRO SERVICES
Client Reference:

Calibration of DO System

Item : YSI Multimeter

Model No. : YSI 550A

Serial No. : 05F2063AZ

Equipment No.: HK0607963

Calibration Method : This meter was calibrated in accordance with standard method APHA (18th Ed.) 4500-0C & G

Date of Calibration : 15 October, 2007

Testing Results :

Expected Reading	Recording Reading
1.31 mg/L 3.14 mg/L 7.76 mg/L	1.40 mg/L 3.24 mg/L 7.81 mg/L
Allowing Deviation	±0.2 mg/L

Ms Wong Wai Man, Alice
Laboratory Manager - Hong Kong

CERTIFICATE OF ANALYSIS

Batch: HK0714834
Date of Issue: 18/10/2007
Client: ACTION UNITED ENVIRO SERVICES
Client Reference:

Calibration of pH System

Item : HANNA pH Meter

Model No. : HI98128

Serial No. : S229924

Equipment No. : EQ110

Calibration Method : This meter was calibrated in accordance with standard method APHA (19th Ed.) 4500-H^+B

Date of Calibration : 13 October, 2007

Testing Results :

Expected Reading	Recording Reading
4.00	3.94
7.00	7.00
10.0	9.86
Allowing Deviation	± 0.2

Ms Wong Wai Man, Alice
Laboratory Manager - Hong Kong

CERTIFICATE OF ANALYSIS

Batch: HK0714836
Date of Issue: 18/10/2007
Client: ACTION UNITED ENVIRO SERVICES
Client Reference:

Calibration of Tubidimeter

Item : HACH Turbidimeter

Model No. : HACH 2100P

Serial No. : 950900008735

Equipment No. : EQ091

Calibration Method : This meter was calibrated in accordance with standard method APHA (19th Ed.) 2130B

Date of Calibration : 15 October, 2007

Testing Results :

Expected Reading	Recording Reading
0.0 NTU	0.1 NTU
4.0 NTU	3.7 NTU
16.0 NTU	15.1 NTU
40.0 NTU	39.0 NTU
80.0 NTU	81.2 NTU
Allowing Deviation	±10%

Ms Wong Wai Man, Alice
Laboratory Manager - Hong Kong

CERTIFICATE OF ANALYSIS

Batch: HK0714835
Date of Issue: 18/10/2007
Client: ACTION UNITED ENVIRO SERVICES
Client Reference:

Calibration of Salinity System

Item : HAND REFRACTOMETER

Model No. : ATAGO

Serial No. : 289468

Equipment No. : EQ114

Calibration Method : This meter was calibrated in accordance with standard method APHA (19th Ed.) 2520 A and B

Date of Calibration : 15 October, 2007

Testing Results :

Expected Reading	Recording Reading
10 g/L	10 g/L
20 g/L	18 g/L
30 g/L	28 g/L
Allowing Deviation	±10%

Ms Wong Wai Man, Alice
Laboratory Manager - Hong Kong

Appendix G

Impact Monitoring Schedules

Impact Monitoring Schedules in this Reporting Period

Date		Air Quality		Noise Leq 30min	Stream Water Quality	Ecology Surveys
		1-Hour TSP	24-Hour TSP			
26-Oct-07	Fri		■			
27-Oct-07	Sat	■		■	■	
28-Oct-07	Sun					
29-Oct-07	Mon				■	
30-Oct-07	Tue					
31-Oct-07	Wed					
1-Nov-07	Thu		■			
2-Nov-07	Fri	■		■	■	
3-Nov-07	Sat					
4-Nov-07	Sun					
5-Nov-07	Mon				■	
6-Nov-07	Tue					
7-Nov-07	Wed		■			
8-Nov-07	Thu	■		■	■	
9-Nov-07	Fri					
10-Nov-07	Sat					
11-Nov-07	Sun					
12-Nov-07	Mon					
13-Nov-07	Tue		■			
14-Nov-07	Wed	■		■	■	
15-Nov-07	Thu					
16-Nov-07	Fri					
17-Nov-07	Sat				■	■
18-Nov-07	Sun					
19-Nov-07	Mon		■			
20-Nov-07	Tue	■		■	■	
21-Nov-07	Wed					
22-Nov-07	Thu					
23-Nov-07	Fri		■			
24-Nov-07	Sat	■		■	■	
25-Nov-07	Sun					

■	Monitoring Day
	Sunday or Public Holiday

Impact Monitoring Schedules in the Next Reporting Period

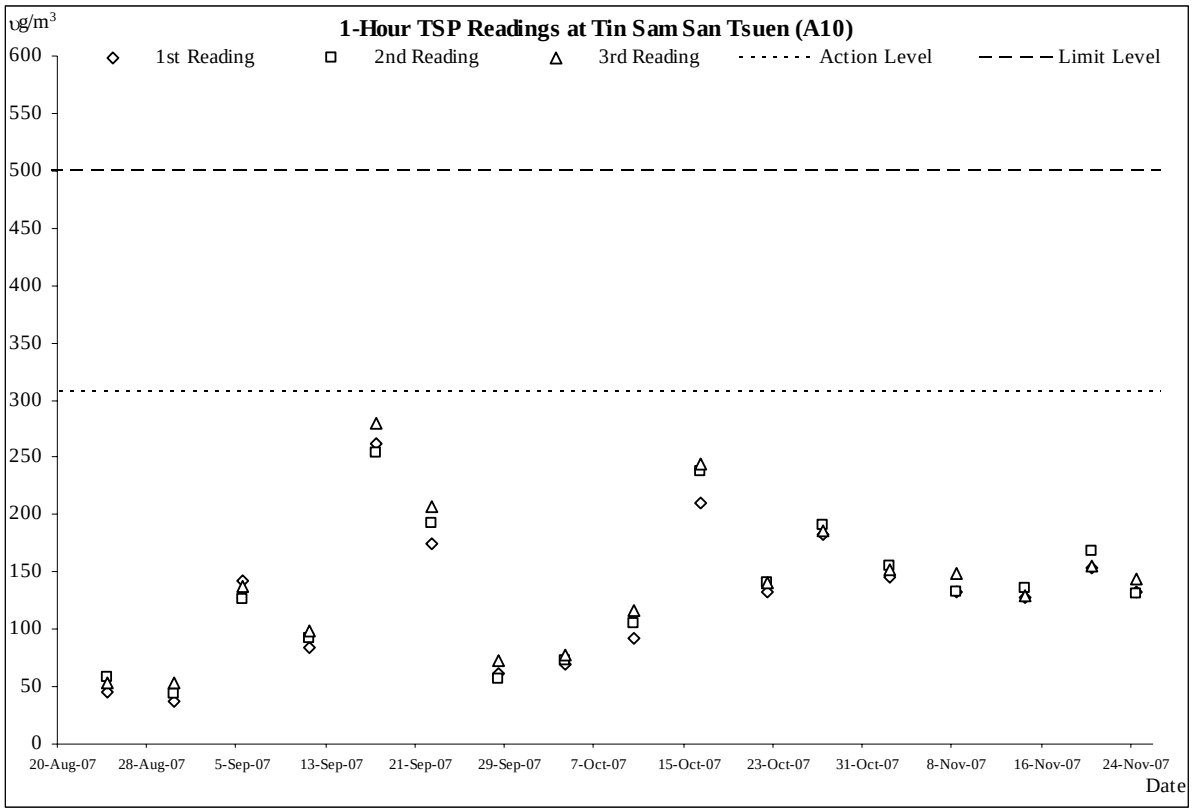
Date		Air Quality		Noise Leq 30min	Stream Water Quality	Ecology Surveys
		1-Hour TSP	24-Hour TSP			
26-Nov-07	Mon					
27-Nov-07	Tue				■	
28-Nov-07	Wed					
29-Nov-07	Thu		■			
30-Nov-07	Fri	■		■	■	
1-Dec-07	Sat					
2-Dec-07	Sun					
3-Dec-07	Mon				■	
4-Dec-07	Tue					
5-Dec-07	Wed		■			
6-Dec-07	Thu	■		■	■	
7-Dec-07	Fri					
8-Dec-07	Sat					
9-Dec-07	Sun					
10-Dec-07	Mon					
11-Dec-07	Tue		■			
12-Dec-07	Wed	■		■	■	
13-Dec-07	Thu					
14-Dec-07	Fri				■	
15-Dec-07	Sat					■
16-Dec-07	Sun					
17-Dec-07	Mon		■			
18-Dec-07	Tue	■		■	■	
19-Dec-07	Wed					
20-Dec-07	Thu					
21-Dec-07	Fri		■			
22-Dec-07	Sat	■		■	■	
23-Dec-07	Sun					
24-Dec-07	Mon				■	
25-Dec-07	Tue					

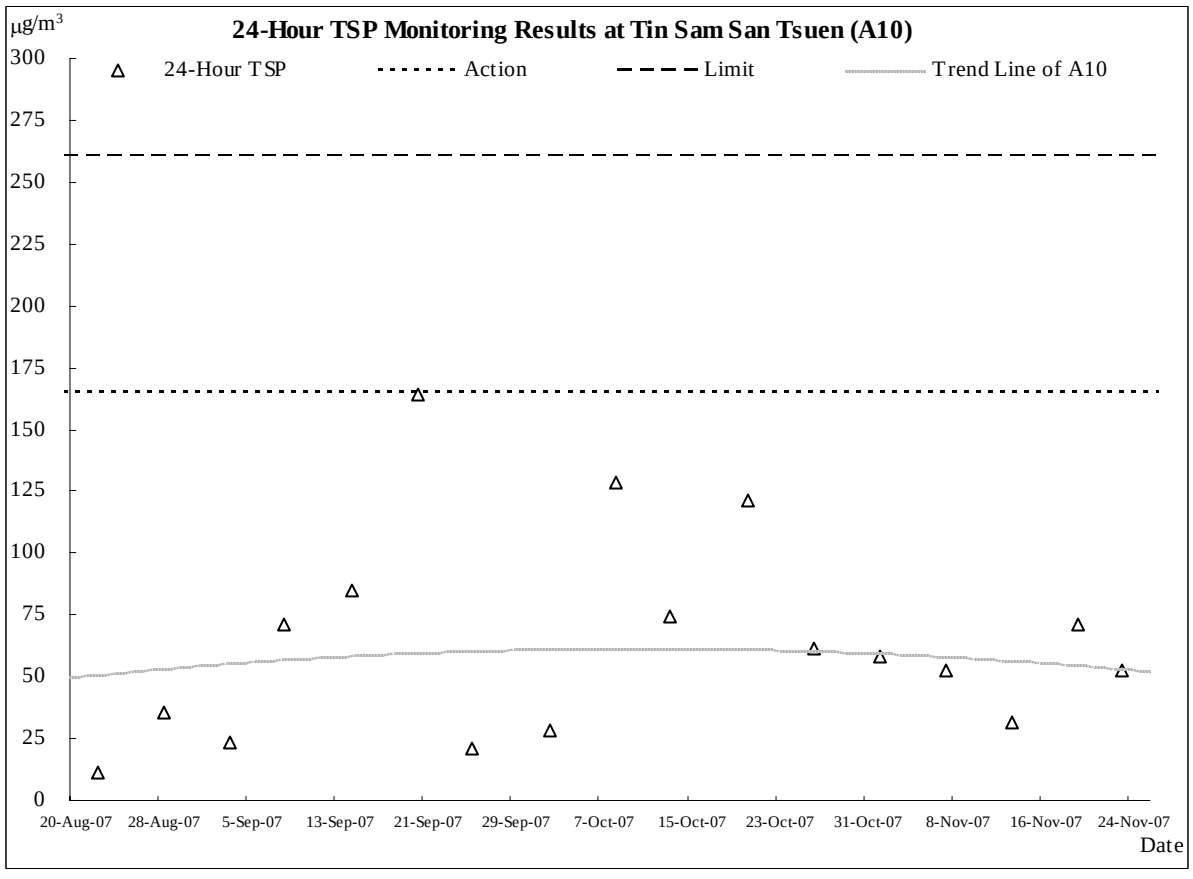
■	Monitoring Day
	Sunday or Public Holiday

Appendix H

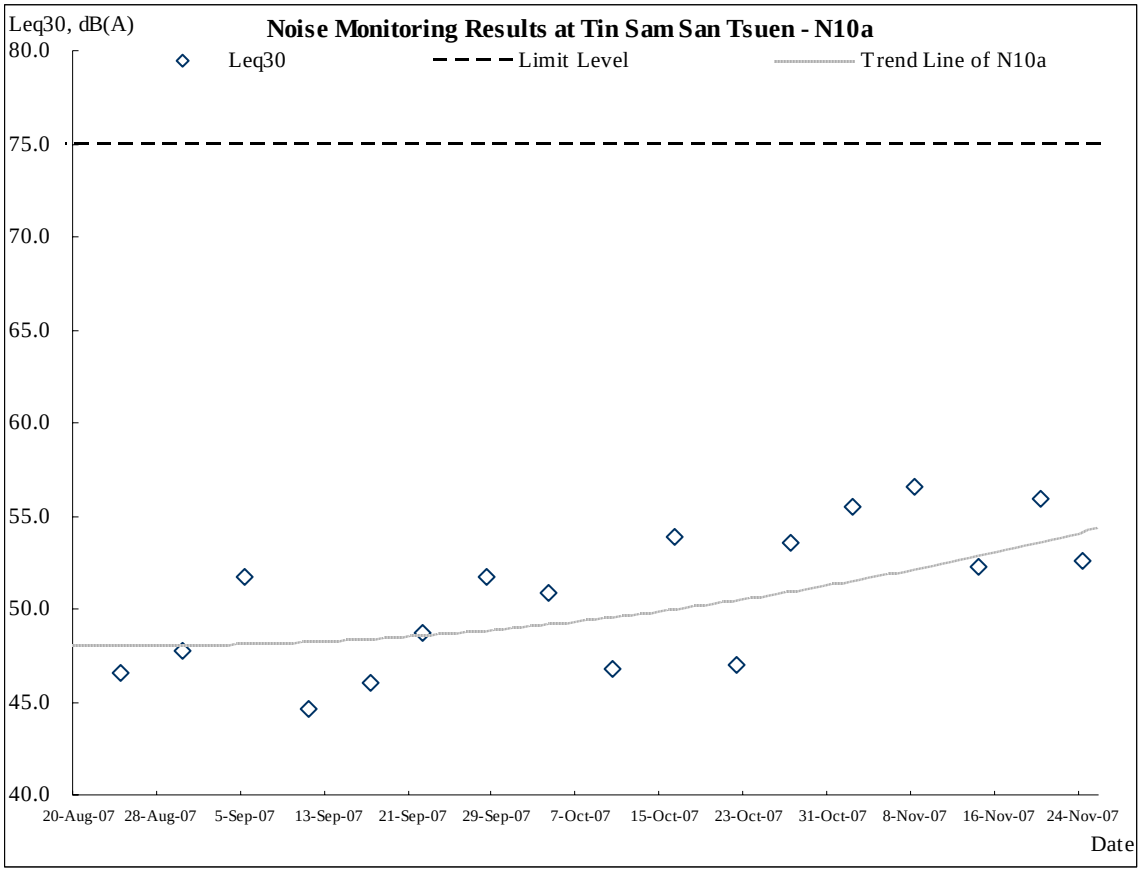
Graphical Plots of Air Quality, Construction Noise and Stream Water Quality Monitoring Results

Air Quality

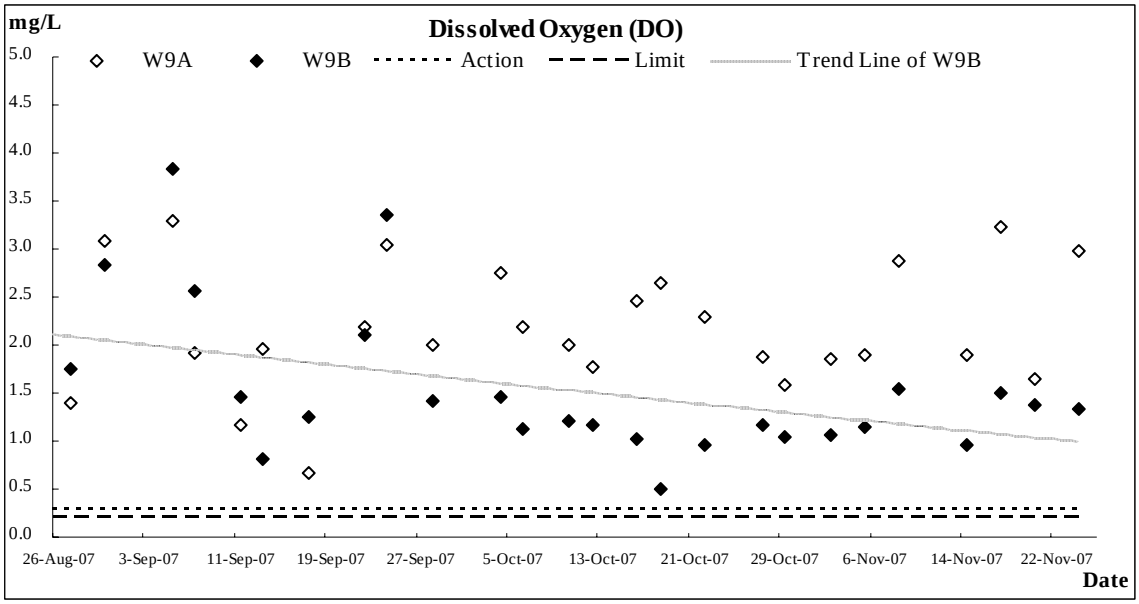

1-Hour TSP Readings at Tin Sam San Tsuen (A10)
µg/m3
1st Reading
2nd Reading
3rd Reading
Action Level
Limit Level
600
550
500
450
400
350
300
250
200
150
100
50
0
20-Aug-07
28-Aug-07
5-Sep-07
13-Sep-07
21-Sep-07
29-Sep-07
7-Oct-07
15-Oct-07
23-Oct-07
31-Oct-07
8-Nov-07
16-Nov-07
24-Nov-07
Date

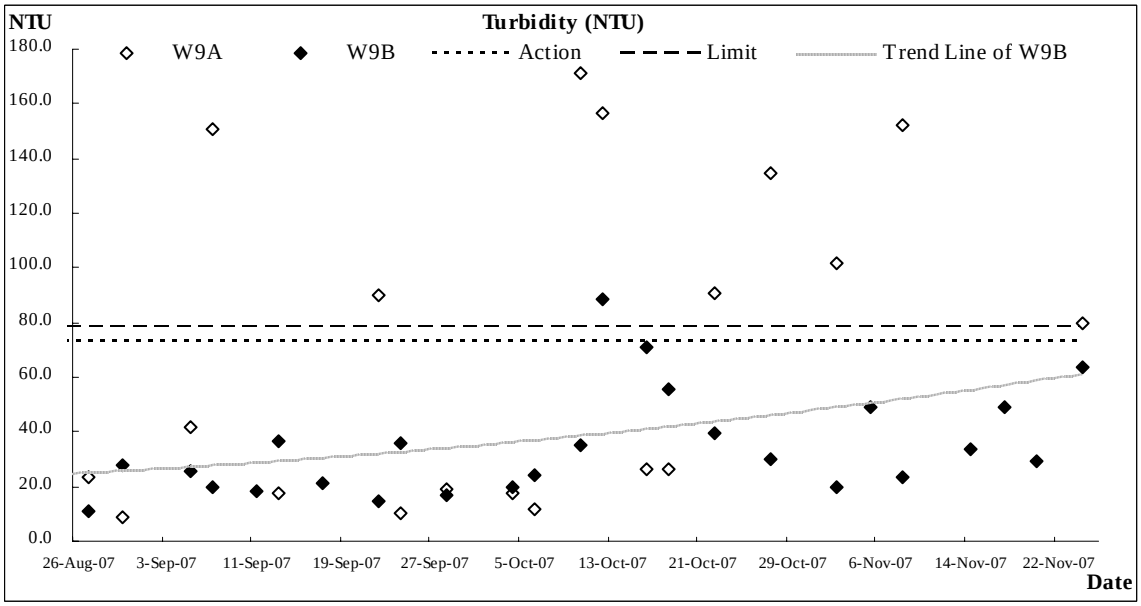

24-Hour TSP Monitoring Results at Tin Sam San Tsuen (A10)
µg/m3
24-Hour TSP
Action
Limit
Trend Line of A10
300
275
250
225
200
175
150
125
100
75
50
25
0
20-Aug-07
28-Aug-07
5-Sep-07
13-Sep-07
21-Sep-07
29-Sep-07
7-Oct-07
15-Oct-07
23-Oct-07
31-Oct-07
8-Nov-07
16-Nov-07
24-Nov-07
Date

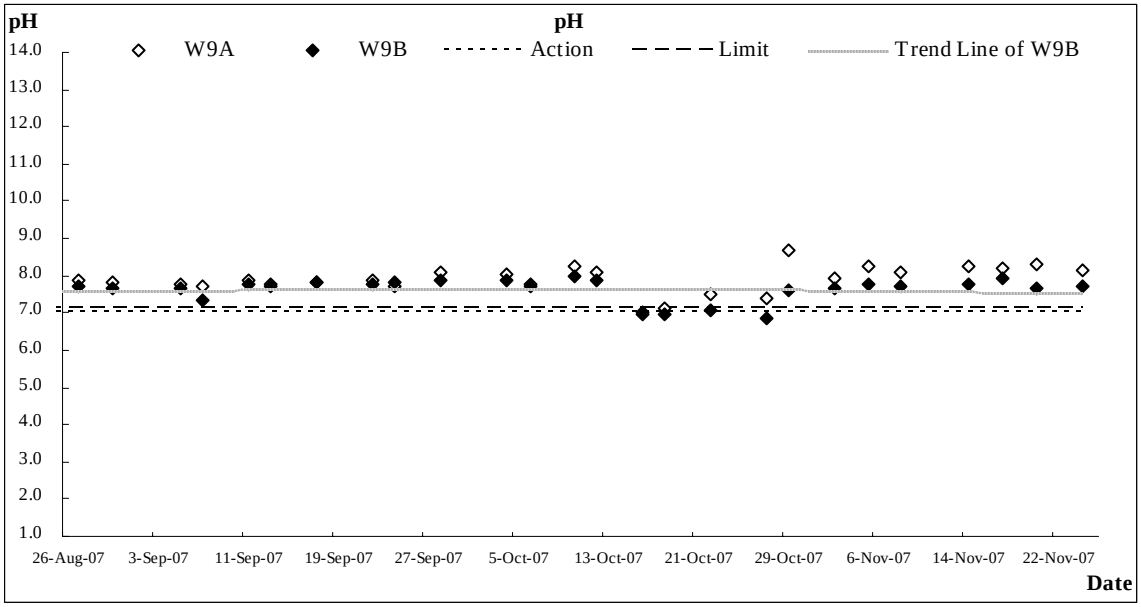
Construction Noise

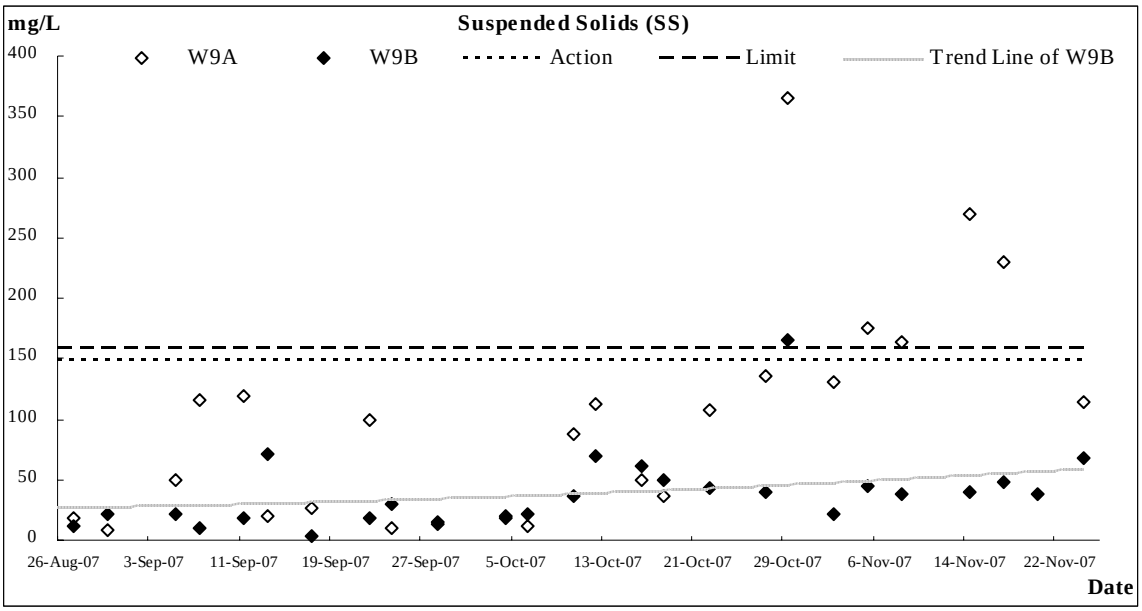


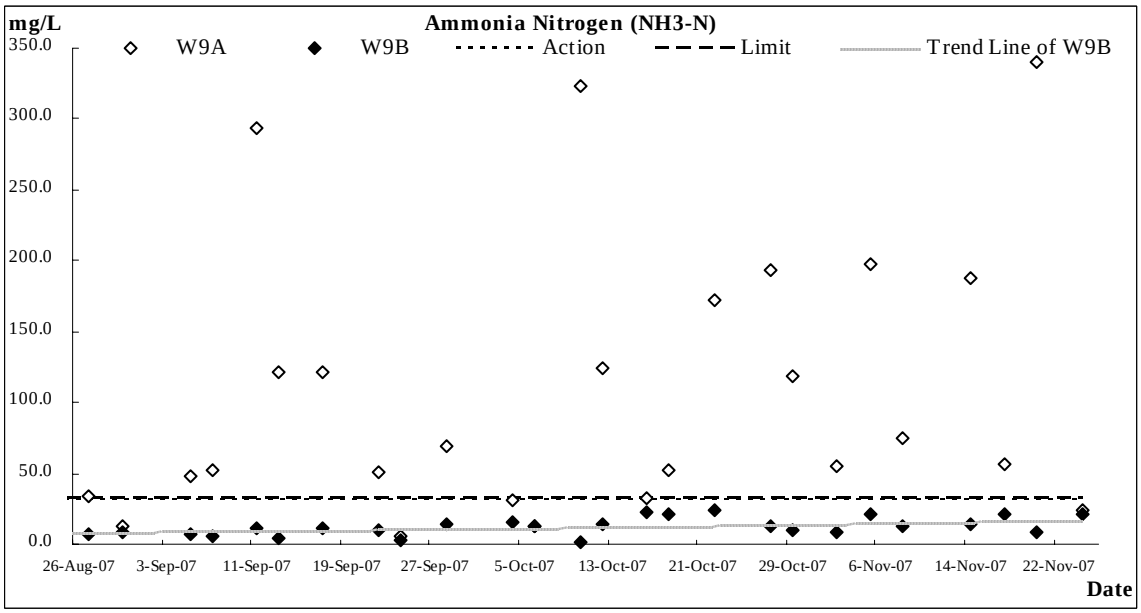
Stream Water Quality

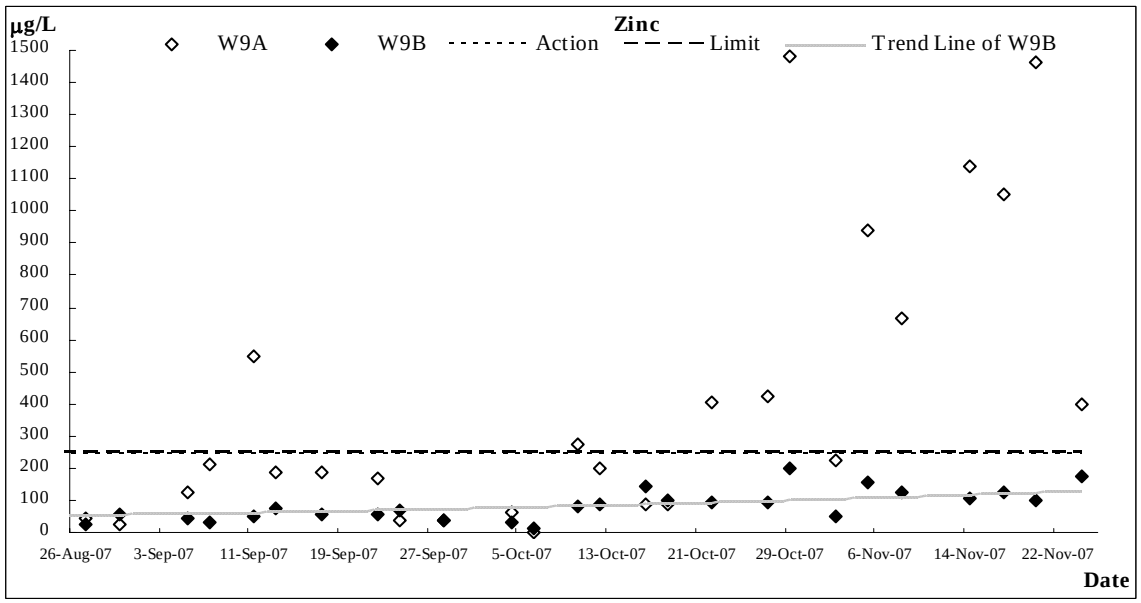







mg/L
Suspended Solids (SS)
W9A
W9B
Action
Limit
Trend Line of W9B
400
350
300
250
200
150
100
50
0
26-Aug-07
3-Sep-07
11-Sep-07
19-Sep-07
27-Sep-07
5-Oct-07
13-Oct-07
21-Oct-07
29-Oct-07
6-Nov-07
14-Nov-07
22-Nov-07
Date


mg/L
Ammonia Nitrogen (NH3-N)
W9A
W9B
Action
Limit
Trend Line of W9B
350.0
300.0
250.0
200.0
150.0
100.0
50.0
0.0
26-Aug-07
3-Sep-07
11-Sep-07
19-Sep-07
27-Sep-07
5-Oct-07
13-Oct-07
21-Oct-07
29-Oct-07
6-Nov-07
14-Nov-07
22-Nov-07
Date


µg/L
Zinc
W9A
W9B
Action
Limit
Trend Line of W9B
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
26-Aug-07
3-Sep-07
11-Sep-07
19-Sep-07
27-Sep-07
5-Oct-07
13-Oct-07
21-Oct-07
29-Oct-07
6-Nov-07
14-Nov-07
22-Nov-07
Date

Date	27-Oct-07																			
Location	**Time**	**Depth (m)**	**Temp (oC)**		**DO (mg/L)**		**DOS (%)**		**Turbidity (NTU)**		**Salinity**		**pH**		**SS**	**NH3-N**	**Zinc**
W9A	14:27	0.18	25.9	25.9	1.87	1.89	22.6	23.0	135.0	134.5	0	0.0	7.39	7.39	135.0	193.0	421.0
			25.9		1.9		23.3		134.0		0		7.39				
W9B	14:48	0.26	27.0	27.0	1.15	1.16	14.4	14.6	29.4	30.4	0	0.0	6.86	6.87	39.0	12.2	91.0
			27.0		1.17		14.8		31.3		0		6.87				

Date	29-Oct-07																			
Location	**Time**	**Depth (m)**	**Temp (oC)**		**DO (mg/L)**		**DOS (%)**		**Turbidity (NTU)**		**Salinity**		**pH**		**SS**	**NH3-N**	**Zinc**
W9A	15:28	0.13	25.0	25.0	1.56	1.58	18.7	19.0	243.0	246.0	0	0.0	8.69	8.70	365.0	118.0	1480.0
			25.0		1.59		19.3		249.0		0		8.70				
W9B	15:40	0.27	27.2	27.2	1.04	1.05	13.1	13.2	190.0	193.5	0	0.0	7.61	7.62	165.0	9.3	198.0
			27.2		1.05		13.3		197.0		0		7.62				

Date	2-Nov-07																			
Location	**Time**	**Depth (m)**	**Temp (oC)**		**DO (mg/L)**		**DOS (%)**		**Turbidity (NTU)**		**Salinity**		**pH**		**SS**	**NH3-N**	**Zinc**
W9A	14:55	0.14	23.1	23.1	1.85	1.86	21.8	21.9	101.0	101.5	0	0.0	7.93	7.94	131.0	55.3	224.0
			23.1		1.86		21.9		102.0		0		7.94				
W9B	15:15	0.26	21.9	21.9	1.05	1.06	11.7	11.9	19.0	19.6	0	0.0	7.68	7.68	22.0	8.8	52.0
			21.9		1.06		12.0		20.2		0		7.68				

Date	5-Nov-07																			
Location	**Time**	**Depth (m)**	**Temp (oC)**		**DO (mg/L)**		**DOS (%)**		**Turbidity (NTU)**		**Salinity**		**pH**		**SS**	**NH3-N**	**Zinc**
W9A	15:51	0.14	21.3	21.3	1.92	1.90	21.8	21.6	229.0	230.5	0	0.0	8.24	8.24	175.0	198.0	940.0
			21.3		1.88		21.3		232.0		0		8.24				
W9B	16:05	0.27	23.5	23.5	1.17	1.15	13.9	13.7	49.0	49.3	0	0.0	7.79	7.78	44.0	20.7	157.0
			23.5		1.13		13.4		49.6		0		7.76				

Date	8-Nov-07																			
Location	**Time**	**Depth (m)**	**Temp (oC)**		**DO (mg/L)**		**DOS (%)**		**Turbidity (NTU)**		**Salinity**		**pH**		**SS**	**NH3-N**	**Zinc**
W9A	16:25	0.17	20.9	20.9	2.86	2.88	31.9	32.2	152.0	152.5	0	0.0	8.08	8.09	164.0	74.7	663.0
			20.9		2.89		32.4		153.0		0		8.09				
W9B	16:34	0.33	21.1	21.1	1.55	1.54	17.9	17.8	23.4	23.6	0	0.0	7.74	7.74	38.0	13.1	127.0
			21.1		1.53		17.6		23.7		0		7.73				

Date	14-Nov-07																	
Location	**Time**	**Depth (m)**	**Temp (oC)**		**DO (mg/L)**		**DOS (%)**		**Turbidity (NTU)**		**Salinity**		**pH**		**SS**	**NH3-N**	**Zinc**
W9A	15:30	0.21	22.4	22.4	1.9	1.90	21.9	21.9	276.0	276.5	0	0.0	8.24	8.24	269.0	188.0	1140.0
			22.3		1.9		21.9		277.0		0		8.24				
W9B	15:40	0.27	25.1	25.1	0.94	0.95	11.4	11.6	33.5	33.8	0	0.0	7.75	7.75	40.0	13.5	103.0
			25.1		0.96		11.7		34.1		0		7.75				

Date	17-Nov-07																	
Location	**Time**	**Depth (m)**	**Temp (oC)**		**DO (mg/L)**		**DOS (%)**		**Turbidity (NTU)**		**Salinity**		**pH**		**SS**	**NH3-N**	**Zinc**
W9A	9:54	0.21	21.8	21.9	3.21	3.23	36.5	36.8	200.0	207.0	0	0.0	8.21	8.22	229.0	56.5	1050.0
			21.9		3.24		37.0		214.0		0		8.22				
W9B	10:16	0.36	24.2	24.2	1.52	1.51	17.8	17.5	49.1	48.7	0	0.0	7.91	7.92	48.0	21.2	123.0
			24.1		1.49		17.2		48.3		0		7.92				

Date	20-Nov-07																	
Location	**Time**	**Depth (m)**	**Temp (oC)**		**DO (mg/L)**		**DOS (%)**		**Turbidity (NTU)**		**Salinity**		**pH**		**SS**	**NH3-N**	**Zinc**
W9A	16:03	0.12	21.6	21.6	1.64	1.65	18.6	18.7	885.0	890.5	0	0.0	8.31	8.32	545.0	340.0	1460.0
			21.6		1.65		18.8		896.0		0		8.32				
W9B	16:18	0.48	23.2	23.2	1.36	1.37	15.9	15.9	28.5	29.3	0	0.0	7.65	7.65	38.0	7.9	97.0
			23.2		1.37		15.9		30.1		0		7.65				

Date	24-Nov-07																	
Location	**Time**	**Depth (m)**	**Temp (oC)**		**DO (mg/L)**		**DOS (%)**		**Turbidity (NTU)**		**Salinity**		**pH**		**SS**	**NH3-N**	**Zinc**
W9A	11:26	0.18	21.2	21.2	2.97	2.99	33.1	33.5	80.3	79.4	0	0.0	8.12	8.13	114.0	24.4	398.0
			21.2		3		33.8		78.5		0		8.13				
W9B	11:14	0.37	23.0	23.0	1.35	1.34	15.8	15.6	61.9	63.6	0	0.0	7.69	7.69	67.0	20.9	172.0
			23.0		1.32		15.4		65.2		0		7.69				

Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER

Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	Duplicate (DUP) Results				
				LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 523862)								
HK0715619-005	Anonymous	EA025: Suspended Solids (SS)	----	2	mg/L	<2	<2	0.0
HK0715652-005	Anonymous	EA025: Suspended Solids (SS)	----	2	mg/L	<2	2	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 524920)								
HK0715654-005	W9B - 1 & 2 MIX	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	12.2	11.0	10.3
HK0715667-001	Anonymous	EK055A: Ammonia as N	7664-41-7	0.1	mg/L	0.2	0.2	0.0
EG: Metals and Major Cations (QC Lot: 523843)								
HK0715654-002	W1B - 1 & 2 MIX	EG020: Zinc	7440-66-6	10	µg/L	73	74	0.0

Quality Control - Method Blank (MB), Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results

Matrix Type: WATER

Method: Analysis Description	CAS number	Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
		LOR	Units	Result	Concentration	SCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 523862)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	101	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QCLot: 524920)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	5.0 mg/L	95.0	----	85	115	----	----
EG: Metals and Major Cations (QCLot: 523843)											
EG020: Zinc	7440-66-6	10	µg/L	<10	100 µg/L	92.6	----	85	115	----	----

Quality Control - Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

Matrix Type: WATER

Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results						
				Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
				Concentration	MS	MSD	Low	High	Value	Control Limit
ED/EK: Inorganic Nonmetallic Parameters (QCLot: 524920)										
HK0715654-001	W1A - 1 & 2 MIX	EK055A: Ammonia as N	7664-41-7	0.5 mg/L	Not Determined	----	75	125	----	----
EG: Metals and Major Cations (QCLot: 523843)										
HK0715654-001	W1A - 1 & 2 MIX	EG020: Zinc	7440-66-6	100 µg/L	89.0	----	75	125	----	----

Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER				Duplicate (DUP) Results				
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 525906)								
HK0715695-001	Anonymous	EA025: Suspended Solids (SS)	----	2	mg/L	5	5	0.0
HK0715746-002	Anonymous	EA025: Suspended Solids (SS)	----	2	mg/L	4	4	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 526358)								
HK0715786-002	Anonymous	EK055A: Ammonia as N	7664-41-7	0.1	mg/L	0.2	0.2	0.0
HK0715756-002	Anonymous	EK055A: Ammonia as N	7664-41-7	0.1	mg/L	836	836	0.0
EG: Metals and Major Cations (QC Lot: 525910)								
HK0715736-002	W1B - 1 & 2 MIX	EG020: Zinc	7440-66-6	10	µg/L	213	207	2.5

Quality Control - Method Blank (MB), Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	SCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 525906)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	88.0	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QCLot: 526358)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	5.0 mg/L	99.3	----	85	115	----	----
EG: Metals and Major Cations (QCLot: 525910)											
EG020: Zinc	7440-66-6	10	µg/L	<10	100 µg/L	91.6	----	85	115	----	----

Quality Control - Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

Matrix Type: WATER				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results						
				Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	Concentration	MS	MSD	Low	High	Value	Control Limit
ED/EK: Inorganic Nonmetallic Parameters (QCLot: 526358)										
HK0715781-002	Anonymous	EK055A: Ammonia as N	7664-41-7	0.5 mg/L	104	----	75	125	----	----
EG: Metals and Major Cations (QCLot: 525910)										
HK0715736-001	W1A - 1 & 2 MIX	EG020: Zinc	7440-66-6	100 µg/L	88.4	----	75	125	----	----

Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER				Duplicate (DUP) Results				
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 527634)								
HK0715991-001	Anonymous	EA025: Suspended Solids (SS)	----	2	mg/L	<2	<2	0.0
HK0715992-002	W1B (1 & 2 MIX)	EA025: Suspended Solids (SS)	----	2	mg/L	86	84	2.2
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 528117)								
HK0715915-001	Anonymous	EK055A: Ammonia as N	7664-41-7	0.1	mg/L	12.1	11.0	9.9
HK0715943-002	Anonymous	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	37.4	38.0	1.6
EG: Metals and Major Cations (QC Lot: 527668)								
HK0715901-003	Anonymous	EG020: Zinc	7440-66-6	10	µg/L	<10	<10	0.0
HK0715992-002	W1B (1 & 2 MIX)	EG020: Zinc	7440-66-6	10	µg/L	52	54	3.0

Quality Control - Method Blank (MB), Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	SCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 527634)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	89.5	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QCLot: 528117)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	96.7	----	85	115	----	----
EG: Metals and Major Cations (QCLot: 527668)											
EG020: Zinc	7440-66-6	10	µg/L	<10	100 µg/L	94.1	----	85	115	----	----

Quality Control - Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

Matrix Type: WATER				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results						
				Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	Concentration	MS	MSD	Low	High	Value	Control Limit
ED/EK: Inorganic Nonmetallic Parameters (QCLot: 528117)										
HK0715943-001	Anonymous	EK055A: Ammonia as N	7664-41-7	0.5 mg/L	95.7	----	75	125	----	----
EG: Metals and Major Cations (QCLot: 527668)										
HK0715901-002	Anonymous	EG020: Zinc	7440-66-6	100 µg/L	87.1	----	75	125	----	----

Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER				Duplicate (DUP) Results				
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 529569)								
HK0716058-002	Anonymous	EA025: Suspended Solids (SS)	----	3	mg/L	55	59	7.1
HK0716091-006	Anonymous	EA025: Suspended Solids (SS)	----	3	mg/L	8480	8590	1.3
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 530063)								
HK0716121-001	W1A - 1 & 2 MIX	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	2.62	2.62	0.0
HK0716127-010	Anonymous	EK055A: Ammonia as N	7664-41-7	0.1	mg/L	1.2	1.2	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 530064)								
HK0716085-001	Anonymous	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	5.86	5.80	1.0
HK0716127-011	Anonymous	EK055A: Ammonia as N	7664-41-7	0.1	mg/L	1.2	1.2	0.0
EG: Metals and Major Cations (QC Lot: 529593)								
HK0716121-005	W1B - 1 & 2 MIX	EG020: Zinc	7440-66-6	10	µg/L	157	159	1.4
EG: Metals and Major Cations (QC Lot: 530205)								
HK0716127-014	Anonymous	EG020: Zinc	7440-66-6	10	µg/L	149	145	2.7

Quality Control - Method Blank (MB), Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	SCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 529569)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	94.5	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QCLot: 530063)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	5.0 mg/L	98.1	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QCLot: 530064)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	5.0 mg/L	99.0	----	85	115	----	----
EG: Metals and Major Cations (QCLot: 529593)											
EG020: Zinc	7440-66-6	10	µg/L	<10	100 µg/L	96.0	----	85	115	----	----
EG: Metals and Major Cations (QCLot: 530205)											
EG020: Zinc	7440-66-6	10	µg/L	<10	100 µg/L	90.7	----	85	115	----	----

Quality Control - Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

Matrix Type: WATER				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results						
				Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	Concentration	MS	MSD	Low	High	Value	Control Limit
ED/EK: Inorganic Nonmetallic Parameters (QCLot: 530063)										
HK0716012-001	Anonymous	EK055A: Ammonia as N	7664-41-7	0.5 mg/L	Not Determined	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QCLot: 530064)										

Matrix Type: WATER

				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results						
				Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	Concentration	MS	MSD	Low	High	Value	Control Limit
ED/EK: Inorganic Nonmetallic Parameters (QCLot: 530064) - continued										
HK0716127-010	Anonymous	EK055A: Ammonia as N	7664-41-7	5.0 mg/L	107	----	75	125	----	----
EG: Metals and Major Cations (QCLot: 529593)										
HK0716121-001	W1A - 1 & 2 MIX	EG020: Zinc	7440-66-6	100 µg/L	83.6	----	75	125	----	----
EG: Metals and Major Cations (QCLot: 530205)										
HK0716127-014	Anonymous	EG020: Zinc	7440-66-6	1000 µg/L	87.9	----	75	125	----	----

Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER				Duplicate (DUP) Results				
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 532718)								
HK0716381-009	Anonymous	EA025: Suspended Solids (SS)	----	2	mg/L	<2	<2	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 534214)								
HK0716385-005	W9B 1 & 2 MIX	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	13.1	12.8	2.3
HK0716429-001	Anonymous	EK055A: Ammonia as N	7664-41-7	0.1	mg/L	0.3	0.3	0.0
EG: Metals and Major Cations (QC Lot: 532753)								
HK0716286-001	Anonymous	EG020: Zinc	7440-66-6	10	µg/L	157	179	13.0

Quality Control - Method Blank (MB), Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	SCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 532718)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	88.0	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QCLot: 534214)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	5.0 mg/L	97.3	----	85	115	----	----
EG: Metals and Major Cations (QCLot: 532753)											
EG020: Zinc	7440-66-6	10	µg/L	<10	100 µg/L	91.8	----	85	115	----	----

Quality Control - Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

Matrix Type: WATER				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results						
				Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	Concentration	MS	MSD	Low	High	Value	Control Limit
ED/EK: Inorganic Nonmetallic Parameters (QCLot: 534214)										
HK0716385-001	W1A 1 & 2 MIX	EK055A: Ammonia as N	7664-41-7	0.5 mg/L	Not Determined	----	75	125	----	----
EG: Metals and Major Cations (QCLot: 532753)										
HK0716286-001	Anonymous	EG020: Zinc	7440-66-6	100 µg/L	92.7	----	75	125	----	----

Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER				Duplicate (DUP) Results				
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 535955)								
HK0716592-003	Anonymous	EA025: Suspended Solids (SS)	----	3	mg/L	24	26	6.0
HK0716596-002	Anonymous	EA025: Suspended Solids (SS)	----	3	mg/L	<3	<3	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 536588)								
HK0716575-002	Anonymous	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	29.9	30.7	2.6
HK0716595-002	Anonymous	EK055A: Ammonia as N	7664-41-7	0.1	mg/L	0.2	0.1	0.0
EG: Metals and Major Cations (QC Lot: 535943)								
HK0716599-002	W1B - 1 & 2 MIX	EG020: Zinc	7440-66-6	10	µg/L	82	82	0.0

Quality Control - Method Blank (MB), Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	SCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 535955)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	102	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QCLot: 536588)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	5.0 mg/L	105	----	85	115	----	----
EG: Metals and Major Cations (QCLot: 535943)											
EG020: Zinc	7440-66-6	10	µg/L	<10	100 µg/L	88.5	----	85	115	----	----

Quality Control - Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

Matrix Type: WATER				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results						
				Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	Concentration	MS	MSD	Low	High	Value	Control Limit
ED/EK: Inorganic Nonmetallic Parameters (QCLot: 536588)										
HK0716594-001	Anonymous	EK055A: Ammonia as N	7664-41-7	0.5 mg/L	Not Determined	----	75	125	----	----
EG: Metals and Major Cations (QCLot: 535943)										
HK0716599-001	W1A - 1 & 2 MIX	EG020: Zinc	7440-66-6	100 µg/L	93.8	----	75	125	----	----

Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER

Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	Duplicate (DUP) Results				
				LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 539131)								
HK0716805-001	Anonymous	EA025: Suspended Solids (SS)	----	3	mg/L	4	4	0.0
HK0716835-003	Anonymous	EA025: Suspended Solids (SS)	----	3	mg/L	4240	4370	3.1
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 539606)								
HK0716776-004	Anonymous	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	23.6	23.6	0.0
HK0716839-004	W9A - 1 & 2 MIX	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	56.5	59.3	4.8
EG: Metals and Major Cations (QC Lot: 539163)								
HK0716773-022	Anonymous	EG020: Zinc	7440-66-6	10	µg/L	<10	<10	0.0
HK0716773-031	Anonymous	EG020: Zinc	7440-66-6	10	µg/L	<10	<10	0.0
EG: Metals and Major Cations (QC Lot: 539173)								
HK0716839-003	W1C - 1 & 2 MIX	EG020: Zinc	7440-66-6	10	µg/L	34	38	9.5

Quality Control - Method Blank (MB), Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results

Matrix Type: WATER

Method: Analysis Description	CAS number	Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
		LOR	Units	Result	Concentration	SCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 539131)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	97.5	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QCLot: 539606)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	98.0	----	85	115	----	----
EG: Metals and Major Cations (QCLot: 539163)											
EG020: Zinc	7440-66-6	10	µg/L	<10	100 µg/L	87.6	----	85	115	----	----
EG: Metals and Major Cations (QCLot: 539173)											
EG020: Zinc	7440-66-6	10	µg/L	<10	100 µg/L	85.3	----	85	115	----	----

Quality Control - Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

Matrix Type: WATER

Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results						
				Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
				Concentration	MS	MSD	Low	High	Value	Control Limit
ED/EK: Inorganic Nonmetallic Parameters (QCLot: 539606)										
HK0716839-001	W1A - 1 & 2 MIX	EK055A: Ammonia as N	7664-41-7	0.5 mg/L	Not Determined	----	75	125	----	----
EG: Metals and Major Cations (QCLot: 539163)										
HK0716773-021	Anonymous	EG020: Zinc	7440-66-6	100 µg/L	76.5	----	75	125	----	----
EG: Metals and Major Cations (QCLot: 539173)										
HK0716839-002	W1B - 1 & 2 MIX	EG020: Zinc	7440-66-6	100 µg/L	87.3	----	75	125	----	----

Appendix I

Meteorological Data in the Reporting Period

Meteorological Data Extracted from HKO in the Reporting Period

Date		Weather		Lau Fau Shan Weather Station			
			Total Rainfall (mm)	Mean Air Temperature (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	Wind Direction
26-Oct-07	Fri	fine/dry/hazy/moderate	0	26.5	13	66	E
27-Oct-07	Sat	fine/dry/haze/moderate/fresh	0	25.6	10.5	66	E/SE
28-Oct-07	Sun	sunny intervals/moderate/fresh	0	24.8	9	72.5	W/SW
29-Oct-07	Mon	sunny periods/cloudy/moderate/fresh	0	25.2	12	68.1	E
30-Oct-07	Tue	cloudy/haze/rain/moderate	6.3	23.3	13	65.5	E
31-Oct-07	Wed	cloudy/rain/moderate	1.7	21.4	12	76.5	E/NE
1-Nov-07	Thu	cloudy/rain/fresh/strong	2.1	18.8	15.5	85.5	E/NE
2-Nov-07	Fri	cloudy/bright/fresh/strong	1.6	17.9	21	78	N/NE
3-Nov-07	Sat	sunny periods/dry/moderate/fresh	Trace	20.8	16	58	NE
4-Nov-07	Sun	fine/dry/moderate/fresh	0.2	21.8	8.7	51.7	E
5-Nov-07	Mon	fine/dry/moderate/fresh	0	21.3	10	58.7	E
6-Nov-07	Tue	fine/dry/moderate/fresh	0	22.7	14	49.2	N/NE
7-Nov-07	Wed	dry/sunny intervals/moderate/fresh/strong	Trace	21.2	16.5	54	N/NE
8-Nov-07	Thu	cloudy/rain/moderate/fresh	Trace	18.4	10.7	73	N/NE
9-Nov-07	Fri	fine/dry/moderate/fresh	0	23.9	11.2	65.5	N/NE
10-Nov-07	Sat	fine/dry/moderate	0	23.1	12.5	65.5	E/NE
11-Nov-07	Sun	fine/dry/moderate/fresh	0	21.5	8.5	63	E/SE
12-Nov-07	Mon	fine/dry/moderate/fresh	0	21.7	10.5	69.5	E
13-Nov-07	Tue	fine/dry/moderate/fresh	0	22.4	11	62.5	E/SE
14-Nov-07	Wed	fine/dry/moderate/fresh	0	22.7	10.5	62	E/SE
15-Nov-07	Thu	fine/dry/moderate/fresh	0	23.2	9	Maintenance	E
16-Nov-07	Fri	fine/dry/moderate/fresh	0	23.9	12.5	Maintenance	E/SE
17-Nov-07	Sat	fine/moderate/fresh	0	24.2	9	65.2	E
18-Nov-07	Sun	cloudy/dry/sunny intervals/moderate	0	22.3	19	61.5	E/NE
19-Nov-07	Mon	dry/sunny intervals/cloudy/moderate	Trace	20.5	15.2	65	N/NE
20-Nov-07	Tue	fine/dry/moderate/fresh	0	19	14.5	58.5	NE
21-Nov-07	Wed	fine/dry/moderate/fresh	Trace	21.2	9.7	57.5	E/NE
22-Nov-07	Thu	sunny periods/dry/moderate	0	21.7	9	65	E/NE
23-Nov-07	Fri	fine/dry/moderate	0	20.3	9	65	E/NE
24-Nov-07	Sat	dry/sunny periods/moderate/fresh	0	21.5	14.5	65	E/NE
25-Nov-07	Sun	dry/sunny periods/cloudy/fresh	0	22	13.5	53.5	N

Appendix J

Environmental Team Site Inspection Checklists

Environmental Site Inspection Checklist for KT15

AUES

Project:	**Contract No.: DC/2006/02 Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B – Cheung Chun San Tsuen and Kam Tsin Wai**	**Inspected by**	
		RE/RE's representative:	A.F. Ng / WL Chan
Inspection		**IEC/IEC's representative:**	
Date:	31 October 2007	**ETL/ ET's representative:**	Ben Tam
Time:	09:00	**Contractor's representative:**	M.K. Ng / K.M. Lui
		Checklist No.	KT15-311007

PART A: **GENERAL INFORMATION** **Environmental Permit No. EP-231/2005/A**

Weather:	☐ Sunny	☐ Fine	☑ Cloudy	☐ Rainy
Temperature:	23 ^{0}C			
Humidity:	☐ High	☑ Moderate	☐ Low	
Wind:	☐ Strong	☐ Breeze	☑ Light	☐ Calm

PART B: **SITE AUDIT**

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

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
1.22	Are the oil interceptors/grease traps maintained properly?	☐	☐	☐	☐	☑	
1.23	Is used bentonite recycled where appropriate?	☐	☐	☐	☐	☑	
1.24	Designated settlement area for runoff/wheel wash waste is provide and located at the streambed with 1-2m deep, 12m long and around 50m3 capacities for sedimentation.	☑	☐	☐	☐	☐	
1.25	No excavation is undertaken in the settlement area.	☐	☑	☐	☐	☐	
1.26	Concreting wastes water should be neutralized below the pH Action Levels before discharge.	☐	☐	☐	☐	☑	
1.27	Mobile toilets should provide on site and located away the KT15 stream course.	☐	☑	☐	☐	☐	
1.25	License collector should be employed for handling the sewage of mobile toilet.	☐	☑	☐	☐	☐	
1.26	Any stagnant water accumulated within the excavation trench or site working area.	☐	☑	☐	☐	☐	
Section 2: Air Quality							
2.01	Are there wheel washing facilities with high pressure jets provided at every vehicle exit point?	☐	☑	☐	☐	☐	
2.02	Are vehicles washed to remove any dusty materials from their bodies and wheels before leaving construction sites?	☐	☑	☐	☐	☐	
2.03	Are the excavated materials sprayed with water during handling?	☑	☐	☐	☐	☐	
2.04	Are stockpiles of dusty materials sprayed with water, covered or placed in sheltered areas?	☐	☑	☐	☐	☐	
2.05	Is the exposed earth properly treated within six months after the last construction activities?	☐	☐	☐	☐	☑	
2.06	Are the access roads sprayed with water to maintain the entire road surface wet or paved?	☐	☑	☐	☐	☐	
2.07	Is the surface where any drilling, cutting, polishing or breaking operation continuously sprayed with water?	☐	☐	☐	☐	☑	
2.08	Is the load on vehicles covered entirely by clean impervious sheeting?	☑	☐	☐	☐	☐	
2.09	Is the loading of materials to a level higher than the side and tail boards during transportation by vehicles avoided?	☑	☐	☐	☐	☐	
2.10	Is the road leading to the construction site within 30m of the vehicle entrance kept clear of dusty materials?	☐	☑	☐	☐	☐	
2.11	Is dark smoke emission from plant/equipment avoided?	☐	☑	☐	☐	☐	
2.12	Are de-bagging, batching and mixing processes carried out in sheltered areas during the use of bagged cement?	☐	☐	☐	☐	☑	
2.13	Are site vehicles travelling within the speed limit not more than 15km/hour?	☐	☑	☐	☐	☐	
2.14	Are hoardings of not less than 2.4m high provided along the site boundary, which adjoins areas accessible to the public?	☐	☑	☐	☐	☐	
2.15	Is open burning avoided?	☐	☑	☐	☐	☐	
2.16	Excavated materials from the stream must remove form site on the same day. The materials shall be stored in covered impermeable skips awaiting removal from site.	☐	☐	☐	☐	☑	
Section 3: Noise							
3.01	Are noisy equipment and activities positioned as far as practicable from the sensitive receivers?	☐	☑	☐	☐	☐	
3.02	Is silenced equipment adopted?	☑	☐	☐	☐	☐	
3.03	Is idle equipment turned off or throttled down?	☐	☑	☐	☐	☐	
3.04	Are all plant and equipment well maintained and in good condition?	☐	☑	☐	☐	☐	
3.05	Are noise barriers or enclosures provided at areas where construction activities cause noise impact on sensitive receivers?	☑	☐	☐	☐	☐	
3.06	Are hand held breakers fitted with valid noise emission labels during operation?	☐	☐	☐	☐	☑	

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

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
4.23	Contaminated sediments will managed according to WBTC No.12/2000 and EWTB TC(W) No. 34/2002.	☐	☐	☐	☐	☑	
Section 5: Landscape & Visual							
5.01	Are retained and transplanted trees in health condition?	☐	☑	☐	☐	☐	
5.02	Are retained and transplanted trees properly protected?	☐	☑	☐	☐	☐	
5.03	Are surgery works carried out for the damaged trees?	☑	☐	☐	☐	☐	
5.04	Is damage to trees outside site boundary due to construction activities avoided?	☐	☑	☐	☐	☐	
5.05	Is the night-time lighting controlled to minimize glare to sensitive receivers?	☑	☐	☐	☐	☐	
Section 6: Ecology							
6.01	Gabion banks and base had been provide for channel linings and banks for typical sections of KT15?	☐	☐	☐	☐	☑	
6.02	Prevent site effluent/runoff discharge to the seasonal wetlands at KT15?	☐	☑	☐	☐	☐	
6.03	Stockpiling or disposal of materials, and any dredging or construction activities at the seasonal wetlands at KT15 are prohibited?	☐	☑	☐	☐	☐	
Section 7: Others							
7.01	Are relevant Environmental Permits posted at all vehicle site entrances/exits?	☐	☑	☐	☐	☐	

Remarks

Last Site Inspection:

C&D wastes at CH471 were removed.

Findings of Site Inspection on 31 October 2007:
Site Inspection was covered the site area from CH230-290, CH471-670 and Portion 8.

Standing water accumulated on-site was found at CH290, the Contractor was reminded to clean more frequency after each the rainy day.

RE's representative	*IEC's representative*	*ET's representative*	*Contractor's representative*
( )	( )	(Ben Tam)	( )

Environmental Site Inspection Checklist for KT15

AUES

Project:	**Contract No.: DC/2006/02 Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B – Cheung Chun San Tsuen and Kam Tsin Wai**	**Inspected by**	
		RE/RE's representative:	-
Inspection		**IEC/IEC's representative:**	-
Date:	8 November 2007	**ETL/ ET's representative:**	Ben Tam
Time:	14:00	**Contractor's representative:**	K.M. Lui
		Checklist No.	KT15-081107

PART A: GENERAL INFORMATION **Environmental Permit No. EP-231/2005/A**

Weather: ☐ Sunny ☐ Fine ☑ Cloudy ☐ Rainy

Temperature: 24 ^{0}C

Humidity: ☐ High ☑ Moderate ☐ Low

Wind: ☐ Strong ☐ Breeze ☑ Light ☐ Calm

PART B: SITE AUDIT

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

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
1.22	Are the oil interceptors/grease traps maintained properly?	☐	☐	☐	☐	☑	
1.23	Is used bentonite recycled where appropriate?	☐	☐	☐	☐	☑	
1.24	Designated settlement area for runoff/wheel wash waste is provide and located at the streambed with 1-2m deep, 12m long and around 50m3 capacities for sedimentation.	☑	☐	☐	☐	☐	
1.25	No excavation is undertaken in the settlement area.	☐	☑	☐	☐	☐	
1.26	Concreting wastes water should be neutralized below the pH Action Levels before discharge.	☐	☐	☐	☐	☑	
1.27	Mobile toilets should provide on site and located away the KT15 stream course.	☐	☑	☐	☐	☐	
1.25	License collector should be employed for handling the sewage of mobile toilet.	☐	☑	☐	☐	☐	
1.26	Any stagnant water accumulated within the excavation trench or site working area.	☐	☑	☐	☐	☐	
Section 2: Air Quality							
2.01	Are there wheel washing facilities with high pressure jets provided at every vehicle exit point?	☐	☑	☐	☐	☐	
2.02	Are vehicles washed to remove any dusty materials from their bodies and wheels before leaving construction sites?	☐	☑	☐	☐	☐	
2.03	Are the excavated materials sprayed with water during handling?	☑	☐	☐	☐	☐	
2.04	Are stockpiles of dusty materials sprayed with water, covered or placed in sheltered areas?	☐	☑	☐	☐	☐	
2.05	Is the exposed earth properly treated within six months after the last construction activities?	☐	☐	☐	☐	☑	
2.06	Are the access roads sprayed with water to maintain the entire road surface wet or paved?	☐	☑	☐	☐	☐	
2.07	Is the surface where any drilling, cutting, polishing or breaking operation continuously sprayed with water?	☐	☐	☐	☐	☑	
2.08	Is the load on vehicles covered entirely by clean impervious sheeting?	☑	☐	☐	☐	☐	
2.09	Is the loading of materials to a level higher than the side and tail boards during transportation by vehicles avoided?	☑	☐	☐	☐	☐	
2.10	Is the road leading to the construction site within 30m of the vehicle entrance kept clear of dusty materials?	☐	☑	☐	☐	☐	
2.11	Is dark smoke emission from plant/equipment avoided?	☐	☑	☐	☐	☐	
2.12	Are de-bagging, batching and mixing processes carried out in sheltered areas during the use of bagged cement?	☐	☐	☐	☐	☑	
2.13	Are site vehicles travelling within the speed limit not more than 15km/hour?	☐	☑	☐	☐	☐	
2.14	Are hoardings of not less than 2.4m high provided along the site boundary, which adjoins areas accessible to the public?	☐	☑	☐	☐	☐	
2.15	Is open burning avoided?	☐	☑	☐	☐	☐	
2.16	Excavated materials from the stream must remove form site on the same day. The materials shall be stored in covered impermeable skips awaiting removal from site.	☐	☐	☐	☐	☑	
Section 3: Noise							
3.01	Are noisy equipment and activities positioned as far as practicable from the sensitive receivers?	☐	☑	☐	☐	☐	
3.02	Is silenced equipment adopted?	☑	☐	☐	☐	☐	
3.03	Is idle equipment turned off or throttled down?	☐	☑	☐	☐	☐	
3.04	Are all plant and equipment well maintained and in good condition?	☐	☑	☐	☐	☐	
3.05	Are noise barriers or enclosures provided at areas where construction activities cause noise impact on sensitive receivers?	☑	☐	☐	☐	☐	
3.06	Are hand held breakers fitted with valid noise emission labels during operation?	☐	☐	☐	☐	☑	

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

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
4.23	Contaminated sediments will managed according to WBTC No.12/2000 and EWTB TC(W) No. 34/2002.	☐	☐	☐	☐	☑	
Section 5: Landscape & Visual							
5.01	Are retained and transplanted trees in health condition?	☐	☑	☐	☐	☐	
5.02	Are retained and transplanted trees properly protected?	☐	☑	☐	☐	☐	
5.03	Are surgery works carried out for the damaged trees?	☑	☐	☐	☐	☐	
5.04	Is damage to trees outside site boundary due to construction activities avoided?	☐	☑	☐	☐	☐	
5.05	Is the night-time lighting controlled to minimize glare to sensitive receivers?	☑	☐	☐	☐	☐	
Section 6: Ecology							
6.01	Gabion banks and base had been provide for channel linings and banks for typical sections of KT15?	☐	☐	☐	☐	☑	
6.02	Prevent site effluent/runoff discharge to the seasonal wetlands at KT15?	☐	☑	☐	☐	☐	
6.03	Stockpiling or disposal of materials, and any dredging or construction activities at the seasonal wetlands at KT15 are prohibited?	☐	☑	☐	☐	☐	
Section 7: Others							
7.01	Are relevant Environmental Permits posted at all vehicle site entrances/exits?	☐	☑	☐	☐	☐	

Remarks

Last Site Inspection:

Standing water was cumulated at CH290 was cleaned

Findings of Site Inspection on 8 November 2007:
Site Inspection was covered the site area from CH230-290, CH471-670 and Portion 8.

Discharge water from the sedimentation tank directly hit on the exposed surface, the Contractor was reminded to provide the tarpaulin sheet to protect the exposed surface to prevent the any soil runoff from the discharge water into the stream.

RE's representative	IEC's representative	ET's representative	Contractor's representative
( )	( )	(Ben Tam)	( )

Environmental Site Inspection Checklist for KT15

AUES

Project:	**Contract No.: DC/2006/02 Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B – Cheung Chun San Tsuen and Kam Tsin Wai**	**Inspected by**	
		RE/RE's representative:	A.F. Ng / W.L. Chan
Inspection		**IEC/IEC's representative:**	Benny Liu
Date:	15 November 2007	**ETL/ ET's representative:**	Ken Wong
Time:	15:00	**Contractor's representative:**	K.M. Lui
		Checklist No.	KT15-151107

PART A: GENERAL INFORMATION **Environmental Permit No. EP-231/2005/A**

Weather: ☑ Sunny ☐ Fine ☐ Cloudy ☐ Rainy

Temperature: 21 ^{0}C

Humidity: ☐ High ☑ Moderate ☐ Low

Wind: ☐ Strong ☐ Breeze ☑ Light ☐ Calm

PART B: SITE AUDIT

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

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
1.22	Are the oil interceptors/grease traps maintained properly?	☐	☐	☐	☐	☑	
1.23	Is used bentonite recycled where appropriate?	☑	☐	☐	☐	☑	
1.24	Designated settlement area for runoff/wheel wash waste is provide and located at the streambed with 1-2m deep, 12m long and around 50m3 capacities for sedimentation.	☑	☐	☐	☐	☐	
1.25	No excavation is undertaken in the settlement area.	☐	☑	☐	☐	☐	
1.26	Concreting wastes water should be neutralized below the pH Action Levels before discharge.	☐	☐	☐	☐	☑	
1.27	Mobile toilets should provide on site and located away the KT15 stream course.	☐	☑	☐	☐	☐	
1.25	License collector should be employed for handling the sewage of mobile toilet.	☐	☑	☐	☐	☐	
1.26	Prevent stagnant water accumulated within the excavation trench or site working area.	☐	☑	☐	☐	☐	
Section 2: Air Quality							
2.01	Are there wheel washing facilities with high pressure jets provided at every vehicle exit point?	☐	☑	☐	☐	☐	
2.02	Are vehicles washed to remove any dusty materials from their bodies and wheels before leaving construction sites?	☐	☑	☐	☐	☐	
2.03	Are the excavated materials sprayed with water during handling?	☑	☐	☐	☐	☐	
2.04	Are stockpiles of dusty materials sprayed with water, covered or placed in sheltered areas?	☐	☑	☐	☐	☐	
2.05	Is the exposed earth properly treated within six months after the last construction activities?	☐	☐	☐	☐	☑	
2.06	Are the access roads sprayed with water to maintain the entire road surface wet or paved?	☐	☐	☐	☑	☐	
2.07	Is the surface where any drilling, cutting, polishing or breaking operation continuously sprayed with water?	☑	☐	☐	☐	☐	
2.08	Is the load on vehicles covered entirely by clean impervious sheeting?	☐	☑	☐	☐	☐	
2.09	Is the loading of materials to a level higher than the side and tail boards during transportation by vehicles avoided?	☐	☑	☐	☐	☐	
2.10	Is the road leading to the construction site within 30m of the vehicle entrance kept clear of dusty materials?	☐	☑	☐	☐	☐	
2.11	Is dark smoke emission from plant/equipment avoided?	☐	☑	☐	☐	☐	
2.12	Are de-bagging, batching and mixing processes carried out in sheltered areas during the use of bagged cement?	☐	☐	☐	☐	☑	
2.13	Are site vehicles travelling within the speed limit not more than 15km/hour?	☐	☑	☐	☐	☐	
2.14	Are hoardings of not less than 2.4m high provided along the site boundary, which adjoins areas accessible to the public?	☐	☑	☐	☐	☐	
2.15	Is open burning avoided?	☐	☑	☐	☐	☐	
2.16	Excavated materials from the stream must remove form site on the same day. The materials shall be stored in covered impermeable skips awaiting removal from site.	☐	☑	☐	☐	☐	
Section 3: Noise							
3.01	Are noisy equipment and activities positioned as far as practicable from the sensitive receivers?	☐	☑	☐	☐	☐	
3.02	Is silenced equipment adopted?	☑	☐	☐	☐	☐	
3.03	Is idle equipment turned off or throttled down?	☐	☑	☐	☐	☐	
3.04	Are all plant and equipment well maintained and in good condition?	☐	☑	☐	☐	☐	
3.05	Are noise barriers or enclosures provided at areas where construction activities cause noise impact on sensitive receivers?	☐	☑	☐	☐	☐	
3.06	Are hand held breakers fitted with valid noise emission labels during operation?	☐	☐	☐	☐	☑	

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

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
4.23	Contaminated sediments will managed according to WBTC No.12/2000 and EWTB TC(W) No. 34/2002.	☐	☑	☐	☐	☐	
Section 5: Landscape & Visual							
5.01	Are retained and transplanted trees in health condition?	☐	☑	☐	☐	☐	
5.02	Are retained and transplanted trees properly protected?	☐	☑	☐	☐	☐	
5.03	Are surgery works carried out for the damaged trees?	☑	☐	☐	☐	☐	
5.04	Is damage to trees outside site boundary due to construction activities avoided?	☐	☑	☐	☐	☐	
5.05	Is the night-time lighting controlled to minimize glare to sensitive receivers?	☑	☐	☐	☐	☐	
Section 6: Ecology							
6.01	Gabion banks and base had been provide for channel linings and banks for typical sections of KT15?	☐	☐	☐	☐	☑	
6.02	Prevent site effluent/runoff discharge to the seasonal wetlands at KT15?	☐	☑	☐	☐	☐	
6.03	Stockpiling or disposal of materials, and any dredging or construction activities at the seasonal wetlands at KT15 are prohibited?	☐	☑	☐	☐	☐	
Section 7: Others							
7.01	Are relevant Environmental Permits posted at all vehicle site entrances/exits?	☐	☐	☑	☐	☐	

Remarks

Last Site Inspection:

Tarpaulin sheet covered the exposed surface had been provide to prevent the soil runoff next to the sedimentation tank.

Findings of Site Inspection on 15 November 2007:
Site Inspection was covered the site area from CH000-800, Potion 7 and Portion 8.

Fugitive dusts emission from the dry haul road was observed at CH080-150. The Contractor was reminded to provide water spray more frequency on the dry and windy season.

Some C&D wastes accumulated on-site was found at CH 015-020. The Contractor was reminded to clean up and disposal the C&D wastes in regular basis.

Stagnant water accumulated on-site next to the wheel washing bay was observed. The Contractor was reminded to clean up in regular basis.

According to the EP Condition 1.5, full set copy of the EP should display at all vehicular site entrance/exit. The Contractor was reminded to display full set copy of EP at all vehicular site entrance.

RE's representative	*IEC's representative*	*ET's representative*	*Contractor's representative*
( )	( )	(Ken Wong)	( )

Environmental Site Inspection Checklist for KT15

Project: Contract No.: DC/2006/02
Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B – Cheung Chun San Tsuen and Kam Tsin Wai

Inspection Date: 15 November 2007

Time: 14:30

Inspected by

RE's representative: A. F Ng, W L Chan
IEC's representative: Benny Liu
ET's representative: Ken Wong
Contractor's representative: K M Lui
Checklist No. /

PART A: GENERAL INFORMATION Environmental Permit No. EP-231/2005/A

Weather:	☑ Sunny	☐ Fine	☐ Cloudy	☐ Rainy
Temperature:	21 °C			
Humidity:	☐ High	☑ Moderate	☐ Low	
Wind:	☐ Strong	☐ Breeze	☑ Light	☐ Calm

PART B: SITE AUDIT

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
Section 1: Water Quality							
1.01	Is an effluent discharge license obtained for the Project?	☐	☑	☐	☐	☐	(4)
1.02	Is the effluent discharged in accordance with the discharge licence?	☐	☑	☐	☐	☐	
1.03	Is the discharge of turbid water avoided?	☐	☑	☐	☐	☐	
1.04	Are there proper desilting facilities in the drainage systems to reduce SS levels in effluent?	☐	☑	☐	☐	☐	
1.05	Are there channels, sandbags or bunds to direct surface run-off to sedimentation tanks?	☑	☐	☐	☐	☐	
1.06	Are there any perimeter channels provided at site boundaries to intercept storm runoff from crossing the site?	☑	☐	☐	☐	☐	
1.07	Is drainage system well maintained?	☑	☐	☐	☐	☐	
1.08	As excavation proceeds, are temporary access roads protected by crushed stone or gravel?	☐	☑	☐	☐	☐	
1.09	Are temporary exposed slopes properly covered?	☐	☑	☐	☐	☐	
1.10	Are earthworks final surfaces well compacted or protected?	☐	☐	☐	☐	☑	
1.11	Are manholes adequately covered or temporarily sealed?	☐	☑	☐	☐	☐	
1.12	Are there any procedures and equipment for rainstorm protection?	☐	☑	☐	☐	☐	
1.13	Are wheel washing facilities well maintained?	☐	☑	☐	☐	☐	
1.14	Is runoff from wheel washing facilities avoided?	☐	☑	☐	☐	☐	
1.15	Are there toilets provided on site?	☐	☑	☐	☐	☐	
1.16	Are toilets properly maintained?	☐	☑	☐	☐	☐	
1.17	Are the vehicle and plant servicing areas paved and located within roofed areas?	☐	☐	☐	☐	☑	
1.18	Is the oil leakage or spillage avoided?	☐	☑	☐	☐	☐	
1.19	Are there any measures to prevent leaked oil from entering the drainage system?	☐	☑	☐	☐	☐	
1.20	Are there any measures to collect spilt cement and concrete washings during concreting works?	☐	☐	☐	☐	☑	
1.21	Are there any oil interceptors/grease traps in the drainage systems for vehicle and plant servicing areas, canteen kitchen, etc?	☐	☐	☐	☐	☑	
1.22	Are the oil interceptors/grease traps maintained properly?	☐	☐	☐	☐	☑	

Environmental Site Inspection Checklist for KT15

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
1.23	Is used bentonite recycled where appropriate?	☐	☐	☐	☐	☑	
1.24	Is designated settlement area for runoff / wheel wash water provided and located at the streambed with 1-2m deep, 12m long and around 50m^3 capacities for sedimentation?	☑	☐	☐	☐	☐	
1.25	Is excavation prohibited in the settlement area?	☐	☑	☐	☐	☐	
1.26	Is concreting wastes water neutralized below the pH Action Levels before discharge?	☐	☐	☐	☐	☑	
1.27	Are mobile toilets provided on site and located away from the KT15 stream course?	☐	☑	☐	☐	☐	
1.25	Is License collector employed for handling the sewage of mobile toilet?	☐	☑	☐	☐	☐	
Section 2: Air Quality							
2.01	Are there wheel washing facilities with high pressure jets provided at every vehicle exit point?	☐	☑	☐	☐	☐	
2.02	Are vehicles washed to remove any dusty materials from their bodies and wheels before leaving construction sites?	☐	☑	☐	☐	☐	
2.03	Are the excavated materials sprayed with water during handling?	☑	☐	☐	☐	☐	
2.04	Are stockpiles of dusty materials sprayed with water, covered or placed in sheltered areas?	☐	☑	☐	☐	☐	
2.05	Is the exposed earth properly treated within six months after the last construction activities?	☐	☐	☐	☐	☑	
2.06	Are the access roads sprayed with water to maintain the entire road surface wet or paved?	☐	☐	☐	☑	☐	(1)
2.07	Is the surface where any drilling, cutting, polishing or breaking operation continuously sprayed with water?	☑	☐	☐	☐	☐	
2.08	Is the load on vehicles covered entirely by clean impervious sheeting?	☐	☑	☐	☐	☐	
2.09	Is the loading of materials to a level higher than the side and tail boards during transportation by vehicles avoided?	☐	☑	☐	☐	☐	
2.10	Is the road leading to the construction site within 30m of the vehicle entrance kept clear of dusty materials?	☐	☑	☐	☐	☐	
2.11	Is dark smoke emission from plant/equipment avoided?	☐	☑	☐	☐	☐	
2.12	Are de-bagging, batching and mixing processes carried out in sheltered areas during the use of bagged cement?	☐	☐	☐	☐	☑	
2.13	Are site vehicles travelling within the speed limit not more than 15km/hour?	☐	☑	☐	☐	☐	
2.14	Are hoardings of not less than 2.4m high provided along the site boundary, which adjoins areas accessible to the public?	☐	☑	☐	☐	☐	
2.15	Is open burning avoided?	☐	☑	☐	☐	☐	
2.16	Are excavated materials from the stream removed form site on the same day and be stored in covered impermeable skips while awaiting removal from site?	☐	☑	☐	☐	☐	
Section 3: Noise							
3.01	Are noisy equipment and activities positioned as far as practicable from the sensitive receivers?	☐	☑	☐	☐	☐	
3.02	Is silenced equipment adopted?	☑	☐	☐	☐	☐	
3.03	Is idle equipment turned off or throttled down?	☐	☑	☐	☐	☐	
3.04	Are all plant and equipment well maintained and in good condition?	☐	☑	☐	☐	☐	
3.05	Are noise barriers or enclosures provided at areas where construction activities cause noise impact on sensitive receivers?	☐	☑	☐	☐	☐	
3.06	Are hand held breakers fitted with valid noise emission labels during operation?	☐	☐	☐	☐	☑	
3.07	Are air compressors fitted with valid noise emission labels during operation?	☐	☐	☐	☐	☑	
3.08	Are flaps and panels of mechanical equipment closed during operation?	☐	☑	☐	☐	☐	
3.09	Are Construction Noise Permit(s) applied for percussive piling works?	☐	☐	☐	☐	☑	

Environmental Site Inspection Checklist for KT15

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
3.10	Are Construction Noise Permit(s) applied for general construction works during restricted hours?	☐	☐	☐	☐	☑	
3.11	Are valid Construction Noise Permit(s) posted at site entrances?	☐	☐	☐	☐	☑	
3.12	Is quiet plant used on site to minimise the construction noise impact to the surrounding residences/dwellings (Level 1 mitigation measures)?	☑	☐	☐	☐	☐	
3.13	Are temporary / moveable noise barrier or site hoarding provided or erected at the site boundary to minimise the noise impact of the closest NSRs or stationary equipments be shielded by the noise barrier which cannot be visible from NSRs (Level 2 mitigation measure)?	☐	☑	☐	☐	☐	(5)
3.14	Are temporary / moveable noise barrier equal to or more than 3m height with 10kg/m^2 provided for noise mitigation measures (Level 2 mitigation measures)?	☐	☑	☐	☐	☐	(5)
	Section 4: Waste/Chemical Management						
4.01	Is the Waste Management Plan submitted to Engineer for approval?	☐	☑	☐	☐	☐	
4.02	Are receptacles available for general refuse collection?	☐	☑	☐	☐	☐	
4.03	Is general refuse sorting or recycling implemented?	☑	☐	☐	☐	☐	
4.04	Is general refuse disposed of properly and regularly?	☐	☑	☐	☐	☐	
4.05	Is the Contractor registered as a chemical waste producer?	☐	☑	☐	☐	☐	
4.06	Are the chemical waste containers properly labelled?	☐	☑	☐	☐	☐	
4.07	Are the chemical wastes stored in proper storage areas?	☐	☑	☐	☐	☐	
4.08	Is the chemical waste storage area properly labelled?	☐	☑	☐	☐	☐	
4.09	Is the chemical waste storage area used for storage of chemical waste only?	☐	☑	☐	☐	☐	
4.10	Are incompatible chemical wastes stored in different areas?	☐	☑	☐	☐	☐	
4.11	Are the chemical wastes disposed of by licensed collectors?	☐	☐	☐	☐	☑	
4.12	Are trip tickets for chemical wastes disposal available for inspection?	☐	☐	☐	☐	☑	
4.13	Are chemical/fuel storage areas bunded?	☐	☑	☐	☐	☐	
4.14	Are designated areas identified for storage and sorting of construction wastes?	☐	☑	☐	☐	☐	
4.15	Are construction wastes sorted (inert and non-inert) on site?	☐	☑	☐	☐	☐	
4.16	Are construction wastes reused?	☑	☐	☐	☐	☐	
4.17	Are construction wastes disposed of properly?	☐	☐	☑	☐	☐	(2)
4.18	Are site hoardings and signboards made of durable materials instead of timber?	☐	☑	☐	☐	☐	
4.19	Is trip ticket system implemented for the disposal of construction wastes and records available for inspection?	☐	☑	☐	☐	☐	
4.20	Are appropriate procedures followed if contaminated material exists?	☐	☑	☐	☐	☐	
4.21	Is relevant license/ permit for disposal of construction waste or excavated materials available for inspection?	☐	☑	☐	☐	☐	
4.22	Is site cleanliness and appropriate waste management training provided for the site workers?	☐	☑	☐	☐	☐	
4.23	Are contaminated sediments managed according to WBTC No.12/2000 and EWTB TC(W) No. 34/2002?	☐	☑	☐	☐	☐	
	Section 5: Landscape & Visual						
5.01	Are retained and transplanted trees in health condition?	☐	☑	☐	☐	☐	

Environmental Site Inspection Checklist for KT15

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
5.02	Are retained and transplanted trees properly protected?	☐	☑	☐	☐	☐	
5.03	Are surgery works carried out for the damaged trees?	☑	☐	☐	☐	☐	
5.04	Is damage to trees outside site boundary due to construction activities avoided?	☐	☑	☐	☐	☐	
5.05	Is the night-time lighting controlled to minimize glare to sensitive receivers?	☑	☐	☐	☐	☐	
Section 6: Ecology							
6.01	Are gabion banks and base provided for channel linings and banks for typical sections of KT15?	☐	☐	☐	☐	☑	
6.02	Is site effluent/runoff discharge to the seasonal wetlands at KT15 prevented?	☐	☑	☐	☐	☐	
6.03	Are stockpiling or disposal of materials, and any dredging or construction activities at the seasonal wetlands at KT15 prohibited?	☐	☑	☐	☐	☐	
Section 7: Others							
7.01	Are relevant Environmental Permits posted at all vehicle site entrances/exits?	☐	☑	☐	☐	☐	

Environmental Site Inspection Checklist for KT15

Remarks

Follow up from previous site inspection:

- Cover was provided for the gap between barge & pier to avoid spilling materials into the sea.
- Open stockpile at CH600 was removed.
- Concrete bare ground in front of wheel washing bay was still not repaired, but labour was deployed for clearing the mud at site entrance

Site inspection was covered at CH 0 - CH 700 & berthing area at Portion 7.

(1) The Contractor was reminded to review the frequency of haul road watering.

(2) Cat D waste was observed at U-channel at CH 15 - 20.

(3) Stagnant water was observed nearby wheel washing bay at CH 40.

Remarks:

(4) The Contractor was reminded to provide lab result for water discharge licence.

(5) The Contractor was reminded to check the noise barrier location according to Project Profile.

RE's representative	IEC's representative	ET's representative	Contractor's representative
(A.F. Ng)	(Benny Lin)	(Kenny Wong)	(M E Ng)

Environmental Site Inspection Checklist for KT15

AUES

Project:	**Contract No.: DC/2006/02 Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B – Cheung Chun San Tsuen and Kam Tsin Wai**	**Inspected by**	
		RE/RE's representative:	A.F. Ng / W.L. Chan
Inspection		**IEC/IEC's representative:**	-
Date:	22 November 2007	**ETL/ ET's representative:**	Ben Tam
Time:	14:00	**Contractor's representative:**	K.M. Lui
		Checklist No.	KT15-221107

PART A: GENERAL INFORMATION **Environmental Permit No. EP-231/2005/A**

Weather: ☑ Sunny ☐ Fine ☐ Cloudy ☐ Rainy

Temperature: 24 ^{0}C

Humidity: ☐ High ☑ Moderate ☐ Low

Wind: ☐ Strong ☐ Breeze ☑ Light ☐ Calm

PART B: SITE AUDIT

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

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
1.22	Are the oil interceptors/grease traps maintained properly?	☐	☐	☐	☐	☑	
1.23	Is used bentonite recycled where appropriate?	☑	☐	☐	☐	☑	
1.24	Designated settlement area for runoff/wheel wash waste is provide and located at the streambed with 1-2m deep, 12m long and around 50m3 capacities for sedimentation.	☑	☐	☐	☐	☐	
1.25	No excavation is undertaken in the settlement area.	☐	☑	☐	☐	☐	
1.26	Concreting wastes water should be neutralized below the pH Action Levels before discharge.	☐	☐	☐	☐	☑	
1.27	Mobile toilets should provide on site and located away the KT15 stream course.	☐	☑	☐	☐	☐	
1.25	License collector should be employed for handling the sewage of mobile toilet.	☐	☑	☐	☐	☐	
1.26	Prevent stagnant water accumulated within the excavation trench or site working area.	☐	☑	☐	☐	☐	
Section 2: Air Quality							
2.01	Are there wheel washing facilities with high pressure jets provided at every vehicle exit point?	☐	☑	☐	☐	☐	
2.02	Are vehicles washed to remove any dusty materials from their bodies and wheels before leaving construction sites?	☐	☑	☐	☐	☐	
2.03	Are the excavated materials sprayed with water during handling?	☑	☐	☐	☐	☐	
2.04	Are stockpiles of dusty materials sprayed with water, covered or placed in sheltered areas?	☐	☑	☐	☐	☐	
2.05	Is the exposed earth properly treated within six months after the last construction activities?	☐	☐	☐	☐	☑	
2.06	Are the access roads sprayed with water to maintain the entire road surface wet or paved?	☐	☐	☐	☑	☐	
2.07	Is the surface where any drilling, cutting, polishing or breaking operation continuously sprayed with water?	☑	☐	☐	☐	☐	
2.08	Is the load on vehicles covered entirely by clean impervious sheeting?	☐	☑	☐	☐	☐	
2.09	Is the loading of materials to a level higher than the side and tail boards during transportation by vehicles avoided?	☐	☑	☐	☐	☐	
2.10	Is the road leading to the construction site within 30m of the vehicle entrance kept clear of dusty materials?	☐	☑	☐	☐	☐	
2.11	Is dark smoke emission from plant/equipment avoided?	☐	☑	☐	☐	☐	
2.12	Are de-bagging, batching and mixing processes carried out in sheltered areas during the use of bagged cement?	☐	☐	☐	☐	☑	
2.13	Are site vehicles travelling within the speed limit not more than 15km/hour?	☐	☑	☐	☐	☐	
2.14	Are hoardings of not less than 2.4m high provided along the site boundary, which adjoins areas accessible to the public?	☐	☑	☐	☐	☐	
2.15	Is open burning avoided?	☐	☑	☐	☐	☐	
2.16	Excavated materials from the stream must remove form site on the same day. The materials shall be stored in covered impermeable skips awaiting removal from site.	☐	☑	☐	☐	☐	
Section 3: Noise							
3.01	Are noisy equipment and activities positioned as far as practicable from the sensitive receivers?	☐	☑	☐	☐	☐	
3.02	Is silenced equipment adopted?	☑	☐	☐	☐	☐	
3.03	Is idle equipment turned off or throttled down?	☐	☑	☐	☐	☐	
3.04	Are all plant and equipment well maintained and in good condition?	☐	☑	☐	☐	☐	
3.05	Are noise barriers or enclosures provided at areas where construction activities cause noise impact on sensitive receivers?	☐	☑	☐	☐	☐	
3.06	Are hand held breakers fitted with valid noise emission labels during operation?	☐	☐	☐	☐	☑	

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

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
4.23	Contaminated sediments will managed according to WBTC No.12/2000 and EWTB TC(W) No. 34/2002.	☐	☑	☐	☐	☐	
Section 5: Landscape & Visual							
5.01	Are retained and transplanted trees in health condition?	☐	☑	☐	☐	☐	
5.02	Are retained and transplanted trees properly protected?	☐	☑	☐	☐	☐	
5.03	Are surgery works carried out for the damaged trees?	☑	☐	☐	☐	☐	
5.04	Is damage to trees outside site boundary due to construction activities avoided?	☐	☑	☐	☐	☐	
5.05	Is the night-time lighting controlled to minimize glare to sensitive receivers?	☑	☐	☐	☐	☐	
Section 6: Ecology							
6.01	Gabion banks and base had been provide for channel linings and banks for typical sections of KT15?	☐	☐	☐	☐	☑	
6.02	Prevent site effluent/runoff discharge to the seasonal wetlands at KT15?	☐	☑	☐	☐	☐	
6.03	Stockpiling or disposal of materials, and any dredging or construction activities at the seasonal wetlands at KT15 are prohibited?	☐	☑	☐	☐	☐	
Section 7: Others							
7.01	Are relevant Environmental Permits posted at all vehicle site entrances/exits?	☐	☐	☑	☐	☐	

Remarks

Last Site Inspection:

Water spraying was observed at the haul road to minimize the dust generation.

Full set copy of the EP was displayed at all vehicular site entrance/exit.

C&D waste at CH 015-020 was removed and cleaned

Stagnant water next to the wheel washing bay was cleaned.

Findings of Site Inspection on 22 November 2007:
Site Inspection was covered the site area from CH230-290, CH471-670 and Portion 8.

Plastic tube connected to the sedimentation tank was broken; Contractor was reminded to repair immediately.

Waste skip was observed full at the site office, contractor was reminded to clean the general waste more frequency.

RE's representative	IEC's representative	ET's representative	Contractor's representative
(C F Cheng)	( )	(Ben Tam)	( )

Appendix K

Response to Comments

Contract No. DC/2006/02
Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B – Cheung Chun San Tsuen and Kam Tsin Wai
Response to IEC's comments on KT15 Monthly EM&A Report for November 2007 (Revision 0) [Received from e-mail on 04 Dec 2007 15:26]

No.	Section / Paragraph	Comments	Ref.	Response to Comments
1	Various	An NOE for ecology was received on 29 November 2007 (Ref: TCS00371/07/300/F0356), regarding exceedance for the wetland dependent bird species number, the investigation report is not yet received, please submit the report accordingly.	-	Investigation Report had been issued to relevant parties on 05 December 2007 (Our Ref.: TCS00371/07/300/F0369)