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REVISION No.: 3

**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 FEBRUARY
2009 (No. 20)**

PREPARED FOR

CHIT CHEUNG CONSTRUCTION COMPANY LIMITED

Quality Index

| Date | Reference No. | Prepared By | Certified By |
|---------------|-------------------------|--------------------|---------------------|
| 13 March 2009 | TCS00371/07/600/R1193r3 | - | Ken Wong |


Environmental Team Leader

| Rev. No. | Date | Remarks |
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| 1 | 02 Mar 2009 | First Submission |
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| | | |

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EXECUTIVE SUMMARY

- ES01. 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.
- ES02. 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).
- ES03. 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.
- ES04. This Monthly EM&A Report for **February 2009 (No. 20)** is present the environmental impact monitoring and audit (EM&A) results of the project EM&A program for the reporting month **February 2009** during the period from **26 January 2009 to 25 February 2009**.

BREACH OF ACTION AND LIMIT (A/L) LEVELS

- ES05. Dated and parameter of exceedance recorded in this reporting period are summaries in following table.

| Monitoring | Parameters | Action Level | Limit Level |
|--------------|------------------------------------|--------------|-------------|
| Air Quality | 1-Hour TSP | - | - |
| | 24-Hour TSP | - | - |
| Noise | Leq (30min) Daytime | - | - |
| Stream Water | Dissolve Oxygen (DO) | - | - |
| | Turbidity (NTU) | - | - |
| | pH | - | - |
| | Suspended Solids (SS) | - | - |
| | Ammonia Nitrogen | - | - |
| Ecology | Zinc | - | - |
| | Number of species of wetland birds | - | 24 Feb 09 |
| | Total number of wetland birds | - | - |

Note: According to the EM&A Manual S7.5.1(b), fauna monitoring only undertaken during wet seasons (April to July)

COMPLAINTS LOG

- ES06. No environmental complaint was received in this reporting period.

NOTIFICATIONS OF ANY SUMMONS AND SUCCESSFUL PROSECUTIONS

- ES07. There was no environmental summons or successful prosecution was recorded in this reporting period.

REPORTING CHANGES

ES08. There are no changes to be reported in this reporting period.

FUTURE KEY ISSUES

ES09. Construction activities to be undertaken in **March 2009** included construction and excavation works, stream diversion, tree protection and tree transplanting works, carrying out joined survey, utilities companies liaison, dumping activities and gabion installation. 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

ES10. A summary of the monitoring activities in this reporting period is listed below: -

| | |
|--------------------------|-----------|
| • 1-Hour TSP Monitoring | 18 Events |
| • 24-Hour TSP Monitoring | 5 Events |
| • Noise Monitoring | 5 Events |
| • Stream Water Quality | 20 Events |
| • Ecology (Fauna) | 1 Event |
| • Site Inspection Audit | 5 Times |

AIR QUALITY

ES11. No 1-Hour and 24-Hour TSP monitoring results trigger the Action or Limit Level was recorded in this reporting period.

CONSTRUCTION NOISE

ES12. No construction noise complaint (Action Level) was received and no construction noise monitoring exceeded the Limit Level was recorded in this reporting period.

STREAM WATER QUALITY

ES13. No stream water quality monitoring result trigger the Action or Limit Level was recorded in this reporting period.

ECOLOGY (FAUNA)

ES14. Non-compliance with the ecological criteria was found during the monitoring month on 24 February 2009. No intrusions of construction activities into the wetland areas nor adverse impact was observed. Based on the findings in the pervious monthly monitoring, the non-compliance in wetland dependent bird or fauna was not caused by the project.

SUMMARY OF MONITORING EXCEEDANCES

ES15. A summary of monitoring exceedances during the reporting period for air quality, construction noise, stream water quality and ecology (fauna) monitoring are presented below:-

| Monitoring | Parameters | Work-Related Exceedance % | Investigation & Corrective Actions |
|-------------------|------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------|
| Air Quality | 1-Hour TSP | 0 | Not Required for 0% Project Related Exceedance |
| | 24-Hour TSP | 0 | Not Required for 0% Project Related Exceedance |
| Noise | Leq (30min) Daytime | 0 | Not Required for 0% Project Related Exceedance |
| Stream Water | Dissolve Oxygen (DO) | 0 | Not Required for 0% Project Related Exceedance |
| | Turbidity (NTU) | 0 | Not Required for 0% Project Related Exceedance |
| | pH | 0 | Not Required for 0% Project Related Exceedance |
| | Suspended Solids (SS) | 0 | Not Required for 0% Project Related Exceedance |
| | Ammonia Nitrogen | 0 | Not Required for 0% Project Related Exceedance |
| | Zinc | 0 | Not Required for 0% Project Related Exceedance |
| Ecology | Decrease in number of species of wetland birds of conservation importance from baseline. | 0 | Not Required for 0% Project Related Exceedance |
| | Decrease in the total number of wetland birds of conservation importance from baseline. | 0 | Not Required for 0% Project Related Exceedance |

Note: According to the Project Profile Secondary Channels KT14 & KT15 Attachment 4 EM&A Manual Section 7.5.1 (b), fauna monitoring only undertaken in wet seasons (April to July) in monthly basis.

SITE INSPECTION BY EXTERNAL PARTIES

ES16. Water sampling was performed by Environmental Protection Department at the outlet of the stream of Bay 1 on 27 February 2009 and no major comment was received site inspection was undertaken by external parties in this reporting period.

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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. Location plan of the project site is presented in [Appendix A](#) and the 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 **February 2009** during the period from **26 January 2008 to 25 February 2009**.

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 and excavation works;
- Dumping activities;
- Sheet pile driving;
- Tree protection and tree transplanting works;
- Utilities companies liaison;
- Carrying out joined survey; and
- Gabion Installation.

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

| Items | 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 |

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 | W9A & W9B | |
| | | | • Dissolved Oxygen Concentration (mg/L); |
| | | | • Dissolved Oxygen Saturation (% Sat); |
| | | | • Turbidity (NTU); |
| | | | • pH; |
| | • Salinity (%); Water Depth (m) and | | |
| Laboratory Analysis | • Temperature (°C); | | |
| | • 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 L₁₀ and L₉₀ data will be collected for reference.
- 3.05 Stream water quality monitoring is conducted were undertaken at two locations (W9A and W9B) twice per week. Dissolved Oxygen (DO), pH and 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. Photographic record should be made at six month intervals.
- 3.07 A summary of the Action/Limit (A/L) Levels for air quality, construction noise, stream water quality and ecology monitoring are shown in [Tables 3-2, 3-3, 3-4 & 3-5](#).

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

| Monitoring Station | Action Level ($\mu\text{g}/\text{m}^3$) | | Limit Level ($\mu\text{g}/\text{m}^3$) | |
|--------------------|-------------------------------------------|-------------|------------------------------------------|-------------|
| | 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) | | |
| Action Level | NA | > 73.5* |
| Limit Level | NA | > 78.2** |
| pH | | |
| Action Level | NA | > 7.0* |
| Limit Level | NA | > 7.1** |
| Suspended Solids (mg/L) | | |
| Action Level | NA | > 148* |
| Limit Level | NA | > 159** |
| Ammonia Nitrogen (mg/L) | | |
| Action Level | NA | > 30.91* |
| Limit Level | NA | > 32.20** |
| Zinc ($\mu\text{g}/\text{L}$) | | |
| Action Level | NA | > 242* |
| Limit Level | NA | > 252** |

Note: # Act as Control Station for Impact Stream Water Quality Monitoring.
 * Alternative Action Level is 120% of upstream control station of same day.
 ** Alternative Limit Level is 130% of upstream control station of same day.

Table 3-5 Action and Limit Levels for Ecology Monitoring

| Parameters | Action Level | Limit Level |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------|
| Fauna: decrease in the total number of wetland dependant species or individuals of the surveyed faunal groups from baseline | 20 – 40% of individuals and species | > 40% of individuals and species |

- 3.08 The Event/Action Plan of air quality, construction noise, stream water quality and ecology monitoring 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 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 extracted 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 **5** monitoring events were carried out in this reporting period.

NOISE MONITORING

- 4.05 Impact noise monitoring was undertaken at location N10a once per week. Total of **5** 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 twice per week. Total of **20** 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. Photographic record should be made at six monthly intervals.

MONITORING EQUIPMENT

4.08 Monitoring equipment used by the ET in EM&A program is presented in **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 550A or YSI 85/10FT |
| DO | Thermometer & DO Meter | YSI 550A or YSI 85/10FT |
| pH | pH Meter | Hanna HI 98128 or 98107 |
| 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 The 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 m³/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 in²;
- 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 Measurement of 1-Hour TSP monitoring was taken by 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 extracted 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 (L_{eq}) 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 and associated acoustical calibrators in compliance with the International Electrotechnical Commission (IEC) Publication 651:1979 (Type 1) and 804:1985 (Type 1) specifications 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 (L_{eq}).
- 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°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.

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 20°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.

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.

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.

Salinity

- 4.24 A portable salinometer capable of measuring salinity in percentage (g/L) will be used for in-situ measure the salinity of stream 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 4°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°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 is 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 magnifications; 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 acoustical 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 acoustical 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 stream water quality monitoring instruments are calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme at 3 monthly intervals throughout all monitoring stages.
- 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 was 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 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 monitoring was carried out by the ET in compliance with the project specific EM&A Manual. The impact monitoring schedules are shown in [Appendix G](#) and the monitoring results are present in the following sub-sections.

AIR QUALITY

5.02 The 1-Hour and 24-Hour TSP impact monitoring data are summarized in [Tables 5-1](#) and [5-2](#). Graphical plots of the past four month monitoring results are shown in [Appendix H](#).

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

| Monitoring Date | Start Time | 1 st Result ($\mu\text{g}/\text{m}^3$) | 2 nd Result ($\mu\text{g}/\text{m}^3$) | 3 rd Result ($\mu\text{g}/\text{m}^3$) | Action Level ($\mu\text{g}/\text{m}^3$) | Limit Level ($\mu\text{g}/\text{m}^3$) |
|-----------------|------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-------------------------------------------|------------------------------------------|
| 29-Jan-09 | 09:15 | 138 | 127 | 107 | > 307 | > 500 |
| 31-Jan-09 | 09:30 | 82 | 85 | 81 | > 307 | > 500 |
| 6-Feb-09 | 09:26 | 106 | 108 | 109 | > 307 | > 500 |
| 12-Feb-09 | 09:25 | 135 | 138 | 137 | > 307 | > 500 |
| 18-Feb-09 | 09:28 | 82 | 85 | 84 | > 307 | > 500 |
| 24-Feb-09 | 09:23 | 46 | 48 | 46 | > 307 | > 500 |

Note: Bold and italic is exceed the Action Level.
 Bold and underline is exceed the Limit Level

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

| Monitoring Date | Monitoring Results ($\mu\text{g}/\text{m}^3$) | Action Level ($\mu\text{g}/\text{m}^3$) | Limit Level ($\mu\text{g}/\text{m}^3$) |
|-----------------|-------------------------------------------------|-------------------------------------------|------------------------------------------|
| 30-Jan-09 | 15 | > 165 | > 260 |
| 5-Feb-09 | 58 | > 165 | > 260 |
| 11-Feb-09 | 108 | > 165 | > 260 |
| 17-Feb-09 | 34 | > 165 | > 260 |
| 23-Feb-09 | 32 | > 165 | > 260 |

Note: Bold and italic is exceed the Action Level.
 Bold and underline is exceed the Limit Level

5.03 No 1-Hour and 24-Hour TSP monitoring results trigger the Action or Limit Level 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 past four month monitoring results are shown in [Appendix H](#).

Table 5-3 Summary of Noise Monitoring Results at N10a

| Date | Start Time | 1st Leq5 | 2nd Leq5 | 3 rd Leq5 | 4th Leq5 | 5th Leq5 | 6 th Leq5 | Leq30 |
|--------------------|------------|----------|----------|----------------------|----------|----------|----------------------|------------|
| 31-Jan-09 | 09:53 | 47.0 | 49.0 | 46.4 | 48.6 | 47.6 | 48.5 | 47.9 |
| 6-Feb-09 | 09:47 | 45.8 | 44.6 | 44.8 | 44.9 | 45.9 | 45.6 | 45.3 |
| 12-Feb-09 | 09:57 | 49.0 | 48.6 | 47.7 | 47.6 | 46.7 | 47.2 | 47.9 |
| 18-Feb-09 | 09:51 | 46.2 | 46.3 | 46.6 | 46.4 | 47.2 | 47.7 | 46.8 |
| 24-Feb-09 | 09:43 | 52.8 | 53.6 | 54.9 | 52.1 | 53.6 | 53.7 | 53.5 |
| Limit Level | | | | | | | | > 75 dB(A) |

5.06 No construction noise complaint (Action Level) was received and all noise level below the Limit Level in this reporting period.

STREAM WATER QUALITY

5.07 No stream water quality monitoring result trigger the Action or Limit Level was recorded in this reporting period. The impact monitoring schedules are shown in [Appendix G](#).

5.08 The stream water quality monitoring results are summarized in [Table 5-4](#) and graphical plots are presented in [Appendix H](#).

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 |
| 29-Jan-09 | 5.3 | 5.7 | 107.0 | 29.1 | 6.8 | 6.9 | 120 | 19 | 70.10 | 6.65 | 530 | 49 |
| 31-Jan-09 | 4.9 | 4.8 | 367.0 | 27.2 | 6.8 | 6.8 | 216 | 79 | 60.30 | 6.75 | 868 | 49 |
| 2-Feb-09 | 5.0 | 5.3 | 396.5 | 25.9 | 6.9 | 6.8 | 216 | 26 | 59.40 | 6.33 | 806 | 47 |
| 4-Feb-09 | 3.4 | 2.7 | 123.0 | 20.6 | 7.1 | 6.9 | 154 | 16 | 134.00 | 14.50 | 611 | 38 |
| 9-Feb-09 | 3.7 | 3.3 | 145.5 | 24.2 | 7.1 | 6.9 | 157 | 21 | 265.00 | 6.04 | 630 | 23 |
| 11-Feb-09 | 3.8 | 3.4 | 58.1 | 14.7 | 7.2 | 6.9 | 107 | 15 | 140.00 | 7.63 | 386 | 30 |
| 16-Feb-09 | 3.4 | 4.2 | 46.8 | 20.9 | 7.1 | 6.8 | 43 | 21 | 63.70 | 8.58 | 160 | 52 |
| 18-Feb-09 | 3.2 | 4.4 | 38.4 | 52.0 | 7.1 | 6.9 | 51 | 24 | 163.00 | 7.82 | 242 | 51 |
| 23-Feb-09 | 3.1 | 4.1 | 35.5 | 16.5 | 7.2 | 6.8 | 29 | 15 | 84.80 | 6.60 | 120 | 32 |
| 25-Feb-09 | 3.0 | 3.9 | 44.5 | 27.3 | 7.1 | 6.9 | 72 | 26 | 11.00 | 5.98 | 248 | 52 |
| 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.
 Bold and italic is exceed the Action Level.
 Bold and underline is exceed the Limit Level
 * Alternative Action Level is 120% of upstream control station of same day.
 ** Alternative Limit Level is 130% of upstream control station of same day.

ECOLOGY

- 5.09 50 individuals of birds from 19 species were recorded during the survey for the present monthly monitoring on 24 February 2009. Among the birds recorded, one individual from one wetland bird species with abundance from the baseline (i.e. Cattle Egret and Chinese Pond Heron) was recorded. 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 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 individual number of wetland dependent bird comply with the A/L 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 From the EM&A Manual Section 7.5.1(b), fauna survey is required during wet season (i.e. April to July) and thus no fauna undertaken in this reporting period.
- 5.12 Photographic records are scheduled in six-month intervals, and the last photographic record was undertaken at **December 2008**. Thus no photographic records need undertaken in this report period. The next photographic record is schedule at **June 2009**.

5.13 The ecology impact monitoring results are presented in **Table 5-5**.

Table 5-5 Summary of Ecology Impact Monitoring Surveys Bird Survey

| Scientific Name | Common Name | Abundance reported in the project profile | Abundance recorded in the present survey (24 Feb 09) |
|----------------------------------|---------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Birds | | | |
| <i>Bubulcus ibis</i> | Cattle Egret | 0.4 | |
| <i>Ardeola bacchus</i> | Chinese Pond Heron | 0.8 | 1 |
| <i>Amaurornis phoenicurus</i> | White-breasted Waterhen | Recorded only | |
| <i>Streptopelia chinensis</i> | Spotted Dove | Recorded only | 5 |
| <i>Hirundo rustica</i> | Barn Swallow | Recorded only | |
| <i>Motacilla alba</i> | White Wagtail | Recorded only | 3 |
| <i>Pycnonotus jocosus</i> | Red-whiskered Bulbul | Recorded only | 4 |
| <i>Pycnonotus sinensis</i> | Chinese Bulbul | Recorded only | 3 |
| <i>Lanius schach</i> | Long-tailed Shrike | Recorded only | 1 |
| <i>Copsychus saularis</i> | Oriental Magpie Robin | Recorded only | 3 |
| <i>Orthotomus sutorius</i> | Common Tailorbird | Recorded only | |
| <i>Lonchura striata</i> | White-rumped Munia | Recorded only | |
| <i>Passer montanus</i> | Eurasian Tree Sparrow | Recorded only | 5 |
| <i>Sturnus nigricollis</i> | Black-collared Starling | Recorded only | 3 |
| <i>Acridotheres cristatellus</i> | Crested Myna | Recorded only | 4 |
| <i>Prinia flaviventris</i> | Yellow-bellied Prinia | \ | 3 |
| <i>Eudynamis scolopacea</i> | Common Koel | \ | 1 |
| <i>Halcyon smyrnensis</i> | White-throated Kingfisher | \ | |
| <i>Garrulax perspicillatus</i> | Masked Laughingthrush | \ | 5 |
| <i>Zosterops japonica</i> | Japanese White Eye | \ | |
| <i>Lonchura punctulata</i> | Scaly-breasted Munia | \ | |
| <i>Egretta garzetta</i> | Little Egret | \ | |
| <i>Anthus hodgsoni</i> | Olive-backed Pipit | \ | 2 |
| <i>Phylloscopus subaffinis</i> | Dusky Warbler | \ | 2 |
| <i>Phylloscopus inornatus</i> | Yellow-Browed Warbler | \ | 1 |
| <i>Parus major</i> | Great Tit | \ | 1 |
| <i>Prinia inornata</i> | Plain Prinia | \ | 1 |
| <i>Sturnus sericeus</i> | Red-billied Starling | | |
| <i>Centropus bengalensis</i> | Lesser Coucal | \ | |
| <i>Centropus sinensis</i> | Greater Coucal | \ | |
| <i>Tringa glareola</i> | Wood Sandpiper | \ | |
| <i>Motacilla citreola</i> | Grey Wagtail | \ | 2 |
| Species Number | | 15 spp. recorded, (only 2 species of wetland birds with abundance) | 19 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) | 50 (1 from the wetland birds with abundance in the baseline) |

Note: * 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) | 0 | 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) | 0 | 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 | Location | Date | Total | Disposal Location |
|------------------------------------|----------|------|-------|-------------------------------|
| Type 1 Materials (m ³) | - | - | - | East Sha Chau (Pitch 4a & 4b) |
| Type 2 Materials (m ³) | - | - | - | East Sha Chau (Pitch 4c) |

7.0 SITE INSPECTION

- 7.01 According to the EM&A Manual Section 9.1.2, the environmental weekly site inspection should be formulation by ET Leader. ET had carried out the environmental weekly site inspection on **29 January, 04, 12, 18 and 24 February 2009** with the Representatives of the Engineer and the Contractor to evaluate the site environmental performance in this reporting period. The IEC monthly site audit was conducted on **18 February 2009** by IEC's representative with the Engineer's, the Contractor's and ET's representative. No non-compliance and **five** observations were noted.
- 7.02 The details of observation during the site inspections and monthly audit as follows:-
- C&D material scattered on site was observed at CH-230, the Contractor was reminded to improve the housekeeping;
 - C&D waste was observed at CH-240, the Contractor was reminded to improve the housekeeping and dispose more frequency;
 - Housekeeping at Chainage 230 should be properly maintained and regular disposed of accumulated C&D wastes on site should be carried out;
 - C&D waste mix with the excavated soil without segregation and coverage by the tarpaulin sheet was observed at CH230, the Contractor was reminded to cover the dusty material with tarpaulin sheet and implement the waste sorting on-site accordingly; and
 - Stagnant water accumulated in the constructed channel was found at CH489. The Contractor was reminded to divert the stagnant water into the sedimentation tank prior to discharge.
- 7.03 The ET weekly site inspection and IEC monthly site audit checklists are shown in **Appendix J**. In general, the construction area of KT15 was kept clean and tidy.
- 7.04 Water sampling was performed by Environmental Protection Department at the outlet of the stream of Bay 1 on 27 February 2009 and no major comment was received.

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. Statistical summaries environmental complaint, summon and prosecution are presented in [Tables 8-1, 8-2](#) and [8-3](#).

Table 8-1 Statistical Summary of Environmental Complaints

| Reporting Period | Environmental Complaint Statistics | | |
|-------------------------|------------------------------------|------------|------------------|
| | Frequency | Cumulative | Complaint Nature |
| July – December 2007 | 0 | 0 | NA |
| January – December 2008 | 0 | 0 | NA |
| January 2009 | 0 | 0 | NA |
| February 2009 | 0 | 0 | NA |

Table 8-2 Statistical Summary of Environmental Summons

| Reporting Period | Environmental Summons Statistics | | |
|-------------------------|----------------------------------|------------|--------|
| | Frequency | Cumulative | Nature |
| July – December 2007 | 0 | 0 | NA |
| January – December 2008 | 0 | 0 | NA |
| January 2009 | 0 | 0 | NA |
| February 2009 | 0 | 0 | NA |

Table 8-3 Statistical Summary of Environmental Prosecution

| Reporting Period | Environmental Prosecution Statistics | | |
|-------------------------|--------------------------------------|------------|--------|
| | Frequency | Cumulative | Nature |
| July – December 2007 | 0 | 0 | NA |
| January – December 2008 | 0 | 0 | NA |
| January 2009 | 0 | 0 | NA |
| February 2009 | 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 minimize 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 February 2009 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

| Monitoring | Parameters | Work-Related Exceedance % | Investigation & Corrective Actions |
|--------------|------------------------------------------------------------------------------------------|---------------------------|------------------------------------------------|
| Air Quality | 1-Hour TSP | 0 | Not Required for 0% Project Related Exceedance |
| | 24-Hour TSP | 0 | Not Required for 0% Project Related Exceedance |
| Noise | Leq (30min) Daytime | 0 | Not Required for 0% Project Related Exceedance |
| Stream Water | Dissolve Oxygen (DO) | 0 | Not Required for 0% Project Related Exceedance |
| | Turbidity (NTU) | 0 | Not Required for 0% Project Related Exceedance |
| | pH | 0 | Not Required for 0% Project Related Exceedance |
| | Suspended Solids (SS) | 0 | Not Required for 0% Project Related Exceedance |
| | Ammonia Nitrogen | 0 | Not Required for 0% Project Related Exceedance |
| | Zinc | 0 | Not Required for 0% Project Related Exceedance |
| Ecology | Decrease in number of species of wetland birds of conservation importance from baseline. | 0 | Not Required for 0% Project Related Exceedance |
| | Decrease in the total number of wetland birds of conservation importance from baseline. | 0 | Not Required for 0% Project Related Exceedance |

Note: According to the EM&A Manual S7.5.1(b), fauna monitoring only undertaken during wet seasons (April to July)

11.02 No 1-Hour and 24-Hour TSP monitoring results trigger the Action or Limit Level was recorded in this reporting period.

11.03 No construction noise complaint (Action Level) was received and no monitoring noise level above the Limit Level was recorded in this reporting period.

11.04 No stream water quality monitoring result trigger the Action or Limit Level was recorded in this reporting period.

11.05 Non-compliance with the ecological criteria was found during the monitoring on 24 February 2009. No intrusions of construction activities into the wetland areas nor adverse impact was observed. Based on the findings in the pervious monthly monitoring, the non-compliance in wetland dependent bird or fauna 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 environmental weekly site inspection and IEC monthly site audit records on **29 January, 04, 12, 18 and 24 February**, no non-compliance and **five** observations were recorded. Details of the observations as follows:-

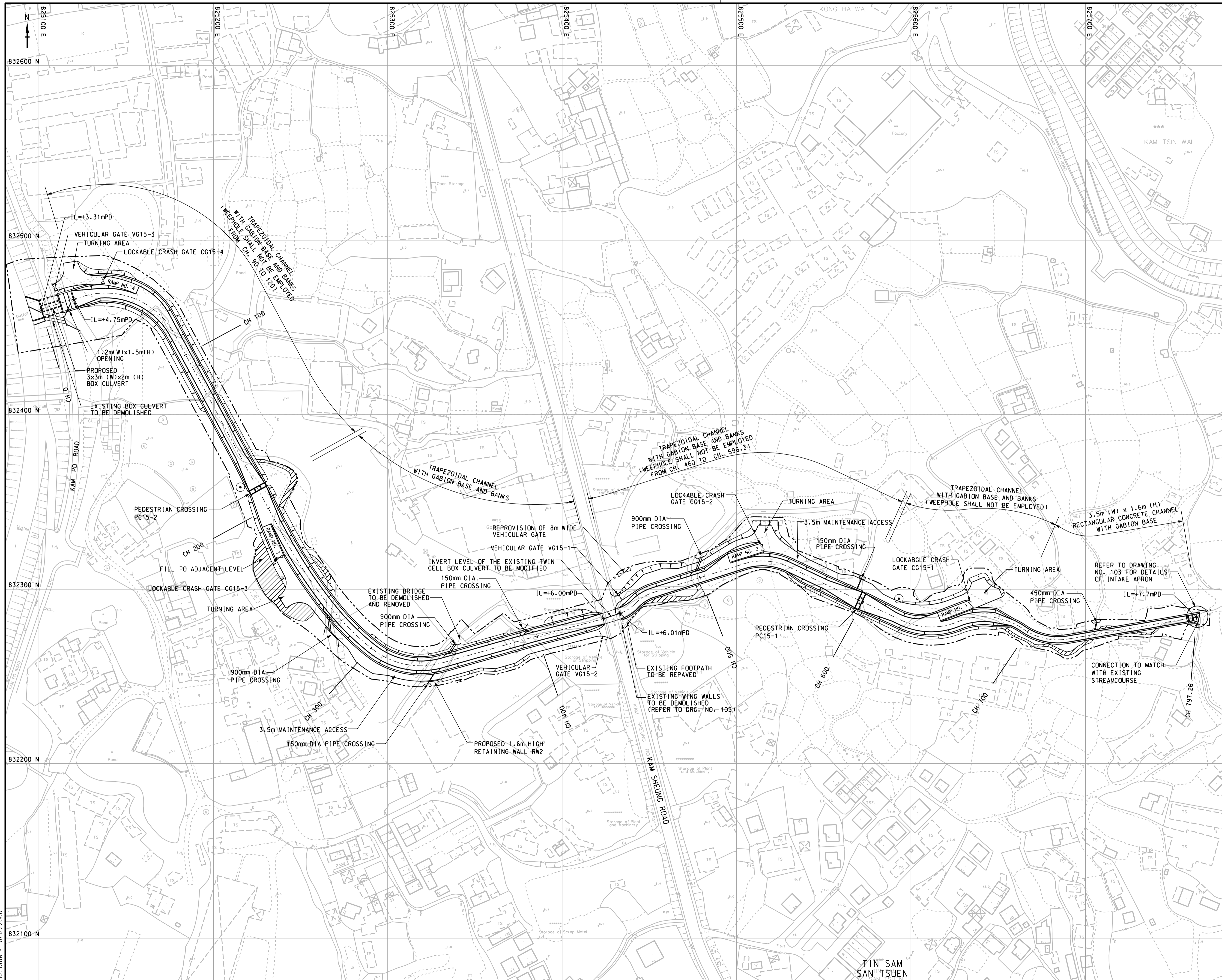
- C&D material scattered on site was observed at CH-230, the Contractor was reminded to improve the housekeeping;
- C&D waste was observed at CH-240, the Contractor was reminded to improve the housekeeping and dispose more frequently;
- Housekeeping at Chainage 230 should be properly maintained and regular disposal of accumulated C&D wastes on site should be carried out;
- C&D waste mixed with the excavated soil without segregation and coverage by the tarpaulin sheet was observed at CH230, the Contractor was reminded to cover the dusty material with tarpaulin sheet and implement the waste sorting on-site accordingly; and
- Stagnant water accumulated in the constructed channel was found at CH489. The Contractor was reminded to divert the stagnant water into the sedimentation tank prior to discharge.

11.08 Water sampling was performed by Environmental Protection Department at the outlet of the stream of Bay 1 on 27 February 2009 and no major comment was received.

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



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

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

Approved

CONTRACT NO. DG200602

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. | Scale |
| 021 | 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 : 6/12/2005

APPENDIX B

THREE-MONTH CONSTRUCTION PROGRAM

| ID | Task Name | Duration | Start | Finish | Predecessors | 2009 | | | |
|----|----------------------------------------------------------------------|-----------------|--------------------|---------------------|----------------|------|-----|-----|-----|
| | | | | | | Jan | Feb | Mar | Apr |
| 1 | Letter of Acceptance | 1 day | Wed 21/3/07 | Wed 21/3/07 | | | | | |
| 2 | Date for commencement of Works | 1 day | Fri 30/3/07 | Fri 30/3/07 | | | | | |
| 3 | Execution of Article of Agreement | 1 day | Tue 3/4/07 | Tue 3/4/07 | | | | | |
| 4 | | | | | | | | | |
| 5 | Master Programme of the Works | 902 days | Wed 21/3/07 | Mon 7/9/09 | | | | | |
| 6 | | | | | | | | | |
| 7 | Completion Dates | 893 days | Fri 30/3/07 | Mon 7/9/09 | | | | | |
| 8 | Section I - portions 1, 2 and 3 | 893 days | Fri 30/3/07 | Mon 7/9/09 | 2SS | | | | |
| 9 | Section II - portions 4, 5 and 5C | 893 days | Fri 30/3/07 | Mon 7/9/09 | 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 | | | | |
| 12 | Section V - preservation and protection of existing trees | 893 days | Fri 30/3/07 | Mon 7/9/09 | 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 | | | | |
| 16 | Portion 2 - channel KT2 | 61 days | Fri 30/3/07 | Tue 29/5/07 | 2SS | | | | |
| 17 | Portion 3 - channel KT2 | 91 days | Fri 30/3/07 | Thu 28/6/07 | 2SS | | | | |
| 18 | Portion 4 - channel KT15 | 1 day | Fri 30/3/07 | Fri 30/3/07 | 2SS | | | | |
| 19 | Portion 5 - channel KT15 | 91 days | Fri 30/3/07 | Thu 28/6/07 | 2SS | | | | |
| 20 | Portion 5A1 - channel KT15 | 91 days | Fri 30/3/07 | Thu 28/6/07 | 2SS | | | | |
| 21 | Portion 5A2 - channel KT15 | 91 days | Fri 30/3/07 | Thu 28/6/07 | 2SS | | | | |
| 22 | Portion 5B - channel KT15 | 20 days | Wed 26/9/07 | Mon 15/10/07 | 11 | | | | |
| 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 | | | | |
| 27 | | | | | | | | | |
| 28 | A. Preliminary Works | 902 days | Wed 21/3/07 | Mon 7/9/09 | | | | | |
| 29 | 1. Setting out of Works | 893 days | Fri 30/3/07 | Mon 7/9/09 | 2SS | | | | |
| 30 | 2. Environmental Monitoring and Audit | 893 days | Fri 30/3/07 | Mon 7/9/09 | | | | | |
| 31 | 2.1 Establishment of Environmental Team | 14 days | Fri 30/3/07 | Thu 12/4/07 | 8SS | | | | |
| 32 | 2.2 approval by the Engineer | 7 days | Fri 13/4/07 | Thu 19/4/07 | 31 | | | | |
| 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 | b. Approval by the Engineer | 7 days | Fri 27/4/07 | Thu 3/5/07 | 34 | | | | |
| 36 | c. Baseline monitoring | 63 days | Fri 4/5/07 | Thu 5/7/07 | 35 | | | | |
| 37 | 2.4 Environmental impact monitoring and audit | 777 days | Tue 24/7/07 | Mon 7/9/09 | 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 | 3.2 Comment from the Engineer | 7 days | Fri 20/4/07 | Thu 26/4/07 | 39 | | | | |
| 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 | | | | |
| 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 | approval | 7 days | Fri 13/4/07 | Thu 19/4/07 | 48 | | | | |
| 50 | installation | 21 days | Sun 22/4/07 | Sat 12/5/07 | 49,43FS-7 days | | | | |
| 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 | | | | |
| 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 | 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 | | | | |
| 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 | 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 | | | | |

| ID | Task Name | Duration | Start | Finish | Predecessors | 2009 | | | |
|-----|-----------------------------------------------------------------|-----------------|--------------------|--------------------|--------------|------|-----|-----|-----|
| | | | | | | Jan | Feb | Mar | Apr |
| 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 | 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 | | | | |
| 73 | b. Toilet facilities | 21 days | Mon 23/4/07 | Sun 13/5/07 | 72FF | | | | |
| 74 | c. Telephone service | 30 days | Sat 14/4/07 | Sun 13/5/07 | 72FF | | | | |
| 75 | d. Facsimile 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 | 6.2 comment & approval | 14 days | Fri 6/4/07 | Thu 19/4/07 | 80 | | | | |
| 82 | 6.3 delivery | 103 days | Fri 20/4/07 | Tue 31/7/07 | 81 | | | | |
| 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 | 7.2 comment, approval & instruction | 14 days | Fri 6/4/07 | Thu 19/4/07 | 85 | | | | |
| 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 | | | | |
| 91 | comment & approval | 90 days | Sun 29/4/07 | Fri 27/7/07 | 90SS+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 | | | | |
| 95 | comment & approval | 90 days | Sun 29/4/07 | Fri 27/7/07 | 94SS+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 | | | | |
| 100 | 10. Contractual general submissions | 902 days | Wed 21/3/07 | Mon 7/9/09 | | | | | |
| 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 | 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 | | | | |
| 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 | b. Comment & approval | 14 days | Fri 6/4/07 | Thu 19/4/07 | 129 | | | | |
| 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 | 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 | | | | | |

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

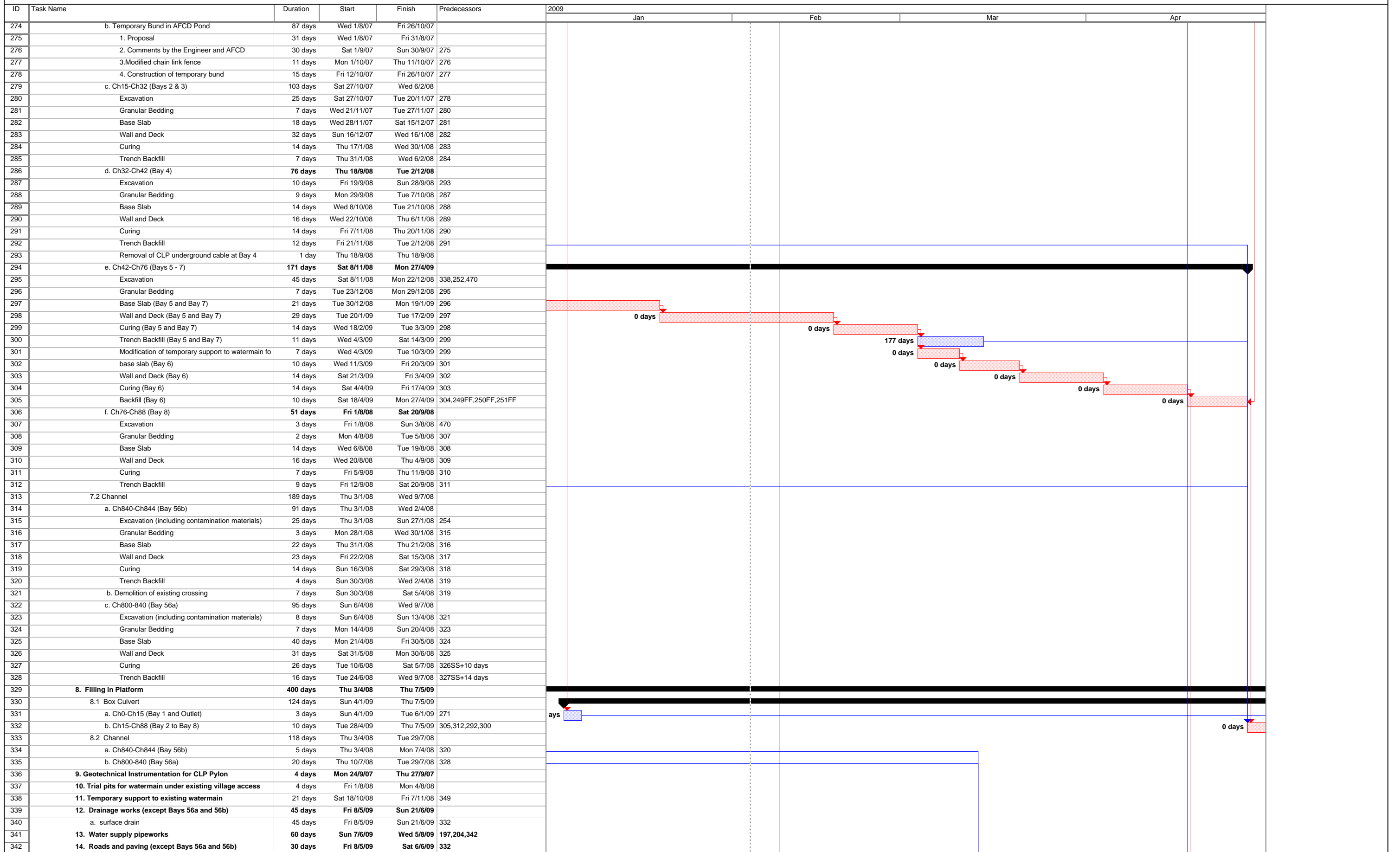
| ID | Task Name | Duration | Start | Finish | Predecessors | 2009 | | | |
|-----|----------------------------------------------------------------|----------|--------------|--------------|---------------|------|-----|-----|-----|
| | | | | | | Jan | Feb | Mar | Apr |
| 136 | a. Submission of site management plan | 45 days | Fri 30/3/07 | Sun 13/5/07 | 2SS | | | | |
| 137 | b. Comment & approval | 14 days | Mon 14/5/07 | Sun 27/5/07 | 136 | | | | |
| 138 | 10.9. Condition survey and structural monitoring | 893 days | Fri 30/3/07 | Mon 7/9/09 | | | | | |
| 139 | a. Submission of Independent Structural Engineer | 14 days | Fri 30/3/07 | Thu 12/4/07 | 2SS | | | | |
| 140 | b. Comment & approval | 7 days | Fri 13/4/07 | Thu 19/4/07 | 139 | | | | |
| 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 | | | | |
| 143 | Portion 2 | 30 days | Wed 30/5/07 | Thu 28/6/07 | 16 | | | | |
| 144 | Portion 3, 5 | 30 days | Fri 29/6/07 | Sat 28/7/07 | 17,19,20,21 | | | | |
| 145 | Portion 5A1, 5A2 and 5B | 30 days | Tue 16/10/07 | Wed 14/11/07 | 22 | | | | |
| 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 | | | | |
| 148 | Portion 2 | 14 days | Fri 29/6/07 | Thu 12/7/07 | 143 | | | | |
| 149 | Portion 3, 5 | 14 days | Sun 29/7/07 | Sat 11/8/07 | 144 | | | | |
| 150 | Portion 5A1, 5A2 and 5B | 14 days | Thu 15/11/07 | Wed 28/11/07 | 145 | | | | |
| 151 | e. Condition survey & structural monitoring | 828 days | Sun 3/6/07 | Mon 7/9/09 | | | | | |
| 152 | Portion 1, 4, 6, 7, 8 | 828 days | Sun 3/6/07 | Mon 7/9/09 | 147 | | | | |
| 153 | Portion 2 | 788 days | Fri 13/7/07 | Mon 7/9/09 | 148 | | | | |
| 154 | Portion 3, 5 | 758 days | Sun 12/8/07 | Mon 7/9/09 | 149 | | | | |
| 155 | Portion 5A1, 5A2 and 5B | 586 days | Thu 29/11/07 | Mon 6/7/09 | 150 | | | | |
| 156 | 10.10 Handling & disposal of Type 1 & 2 contaminated material: | 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 | 832SS-44 days | | | | |
| 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 | Comment & approval | 14 days | Wed 29/8/07 | Tue 11/9/07 | 161 | | | | |
| 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 | Comment & approval | 14 days | Wed 12/9/07 | Tue 25/9/07 | 164 | | | | |
| 166 | 10.11 Type 3 contaminated material | 290 days | Fri 30/3/07 | Sun 13/1/08 | | | | | |
| 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 | Comment & approval | 14 days | Sat 28/7/07 | Fri 10/8/07 | 168 | | | | |
| 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 | | | | |
| 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 | c. Setting up of Treatment Plant | 60 days | Thu 15/11/07 | Sun 13/1/08 | 174 | | | | |
| 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 | b. Comment by the Engineer | 7 days | Wed 4/4/07 | Tue 10/4/07 | 177 | | | | |
| 179 | c. Submission of Safety Plan | 14 days | Wed 11/4/07 | Tue 24/4/07 | 178 | | | | |
| 180 | 10.13 Sub-contractor Management Plan | 902 days | Wed 21/3/07 | Mon 7/9/09 | | | | | |
| 181 | a. Submission of SMP | 30 days | Wed 21/3/07 | Thu 19/4/07 | 1SS | | | | |
| 182 | b. For information & Comments | 14 days | Fri 20/4/07 | Thu 3/5/07 | 181 | | | | |
| 183 | c. Update SMP | 858 days | Fri 4/5/07 | Mon 7/9/09 | 182 | | | | |
| 184 | 10.14 proof of plant ownership | 893 days | Fri 30/3/07 | Mon 7/9/09 | | | | | |
| 185 | a. Submission of draft written undertaking | 14 days | Fri 30/3/07 | Thu 12/4/07 | 2SS | | | | |
| 186 | b. Comment by the Engineer / Employer | 14 days | Fri 13/4/07 | Thu 26/4/07 | 185 | | | | |
| 187 | c. Engineer's request | 865 days | Fri 27/4/07 | Mon 7/9/09 | 186 | | | | |
| 188 | 10.15 Contractor's Management Team | 893 days | Fri 30/3/07 | Mon 7/9/09 | | | | | |
| 189 | a. Submission of staff member details | 14 days | Fri 30/3/07 | Thu 12/4/07 | 2SS | | | | |
| 190 | b. Update management / site supervision team | 879 days | Fri 13/4/07 | Mon 7/9/09 | 189 | | | | |
| 191 | 10.16 Water supply pipeworks material | 651 days | Wed 21/3/07 | Tue 30/12/08 | | | | | |
| 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 | 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 | 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 | 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 | comment & approval | 14 days | Wed 4/4/07 | Tue 17/4/07 | 202 | | | | |

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

| ID | Task Name | Duration | Start | Finish | Predecessors | 2009 | | | |
|-----|------------------------------------------------------------------------|-----------------|--------------------|---------------------|------------------|------|-----|-----|-----|
| | | | | | | Jan | Feb | Mar | Apr |
| 205 | 10.17 Landscape softworks and establishment works | 28 days | Fri 30/3/07 | Thu 26/4/07 | | | | | |
| 206 | a. Submission of technical information | 14 days | Fri 30/3/07 | Thu 12/4/07 | 2SS | | | | |
| 207 | b. Comment & approval | 14 days | Fri 13/4/07 | Thu 26/4/07 | 206 | | | | |
| 208 | 10.18 Preservation and protection of existing trees | 59 days | Wed 21/3/07 | Fri 18/5/07 | | | | | |
| 209 | a. Specialist contractor (landscaping Class I) | 28 days | Fri 30/3/07 | Thu 26/4/07 | | | | | |
| 210 | Submission | 14 days | Fri 30/3/07 | Thu 12/4/07 | 2SS | | | | |
| 211 | Comment & approval | 14 days | Fri 13/4/07 | Thu 26/4/07 | 210 | | | | |
| 212 | b. Site supervisory staff | 59 days | Wed 21/3/07 | Fri 18/5/07 | | | | | |
| 213 | Submission | 45 days | Wed 21/3/07 | Fri 4/5/07 | 1SS | | | | |
| 214 | Comment & approval | 14 days | Sat 5/5/07 | Fri 18/5/07 | 213 | | | | |
| 215 | 10.19 Concrete (ready mix) | 28 days | Fri 30/3/07 | Thu 26/4/07 | | | | | |
| 216 | a. Submission of supplier & design mix | 21 days | Fri 30/3/07 | Thu 19/4/07 | 2SS | | | | |
| 217 | b. Comment & approval | 7 days | Fri 20/4/07 | Thu 26/4/07 | 216 | | | | |
| 218 | 10.20 Steel reinforcement | 35 days | Fri 30/3/07 | Thu 3/5/07 | | | | | |
| 219 | a. Submission of supplier | 28 days | Fri 30/3/07 | Thu 26/4/07 | 2SS | | | | |
| 220 | b. Comment & approval | 7 days | Fri 27/4/07 | Thu 3/5/07 | 219 | | | | |
| 221 | 10.21 Submissions of method statement / materials | 811 days | Tue 15/5/07 | Sun 2/8/09 | | | | | |
| 222 | a. Submission of materials | 811 days | Tue 15/5/07 | Sun 2/8/09 | 15FS+45 days | | | | |
| 223 | b. Submission of method statement | 811 days | Tue 15/5/07 | Sun 2/8/09 | 15FS+45 days | | | | |
| 224 | 11. Provision of wheel washing facilities | 180 days | Fri 30/3/07 | Tue 25/9/07 | | | | | |
| 225 | 11.1 Channel KT2 | 120 days | Fri 30/3/07 | Fri 27/7/07 | 2SS | | | | |
| 226 | 11.2 Channel KT15 | 90 days | Thu 28/6/07 | Tue 25/9/07 | 19FS-1 day | | | | |
| 227 | 11.3 Berthing area | 90 days | Fri 30/3/07 | Wed 27/6/07 | 2SS | | | | |
| 228 | 11.4 Portion 6 | 45 days | Fri 30/3/07 | Sun 13/5/07 | 2SS | | | | |
| 229 | 12. Setting up of traffic management liaison group | 30 days | Fri 30/3/07 | Sat 28/4/07 | 2SS | | | | |
| 230 | | | | | | | | | |
| 231 | B. Section I of the Works | 893 days | Fri 30/3/07 | Mon 7/9/09 | | | | | |
| 232 | B1. Portion 1 | 893 days | Fri 30/3/07 | Mon 7/9/09 | | | | | |
| 233 | 1. Site clearance | 30 days | Sat 28/7/07 | Sun 26/8/07 | | | | | |
| 234 | 1.1 General site clearance | 30 days | Sat 28/7/07 | Sun 26/8/07 | 36,225,1021,1019 | | | | |
| 235 | 2. Temporary Traffic Management Scheme | 59 days | Fri 30/3/07 | Sun 27/5/07 | | | | | |
| 236 | 2.1 TTMS Proposal (trial pits in Chi Ho Road for utilities) | 59 days | Fri 30/3/07 | Sun 27/5/07 | | | | | |
| 237 | a. Submission | 45 days | Fri 30/3/07 | Sun 13/5/07 | 2SS | | | | |
| 238 | b. comments & approvals by Engineer & TMLG | 14 days | Mon 14/5/07 | Sun 27/5/07 | 237 | | | | |
| 239 | 2.2 TTMS Proposal (for construction of box culvert) | 59 days | Fri 30/3/07 | Sun 27/5/07 | | | | | |
| 240 | a. Submission | 45 days | Fri 30/3/07 | Sun 13/5/07 | | | | | |
| 241 | b. comments & approvals by Engineer & TMLG | 14 days | Mon 14/5/07 | Sun 27/5/07 | 240 | | | | |
| 242 | 3. Excavation Permits | 507 days | Mon 28/5/07 | Wed 15/10/08 | | | | | |
| 243 | 3.1 application and issue of permit (trial pits in Chi Ho Road | 180 days | Mon 28/5/07 | Fri 23/11/07 | 238 | | | | |
| 244 | 3.2 application and issue of permits (for construction of box culvert) | 180 days | Sat 19/4/08 | Wed 15/10/08 | 241 | | | | |
| 245 | 4. Underground utilities detection | 253 days | Fri 30/3/07 | Fri 7/12/07 | | | | | |
| 246 | 4.1 utilities detection | 28 days | Fri 30/3/07 | Thu 26/4/07 | 2SS | | | | |
| 247 | 4.2 trial trench excavation & identification | 14 days | Sat 24/11/07 | Fri 7/12/07 | 246,243 | | | | |
| 248 | 5. Utilities temporary diversion / protection | 579 days | Thu 27/9/07 | Mon 27/4/09 | | | | | |
| 249 | a. WSD watermain along village vehicular access | 171 days | Sat 8/11/08 | Mon 27/4/09 | 338 | | | | |
| 250 | b. Street lighting along village vehicular access | 171 days | Sat 8/11/08 | Mon 27/4/09 | 295SS | | | | |
| 251 | c. PCCW along village vehicular access | 171 days | Sat 8/11/08 | Mon 27/4/09 | 295SS | | | | |
| 252 | d. CLP overhead cable at Bay 4 | 160 days | Thu 7/2/08 | Tue 15/7/08 | 285 | | | | |
| 253 | e. CH 816-CH841 underground cables (33kV) | 42 days | Thu 27/9/07 | Wed 7/11/07 | 260 | | | | |
| 254 | f. CH 816-CH841 underground cables (132kV) | 56 days | Thu 8/11/07 | Wed 2/1/08 | 253 | | | | |
| 255 | g. Street lighting at Chi Ho Road | 86 days | Thu 23/10/08 | Fri 16/1/09 | 266SS,247 | | | | |
| 256 | h. Irrigation pipe at Chi Ho Road | 86 days | Thu 23/10/08 | Fri 16/1/09 | 266SS | | | | |
| 257 | 6. Drainage Management Plan (Ch810 to Ch850) | 77 days | Thu 12/7/07 | Wed 26/9/07 | | | | | |
| 258 | 6.1 Submission of DMPs | 1 day | Thu 12/7/07 | Thu 12/7/07 | | | | | |
| 259 | 6.2 Comments by the Engineer | 14 days | Fri 13/7/07 | Thu 26/7/07 | 258 | | | | |
| 260 | 6.3 Implementation of DMP | 3 days | Mon 24/9/07 | Wed 26/9/07 | 259SF | | | | |
| 261 | 7. Box Culvert and Channel | 636 days | Wed 1/8/07 | Mon 27/4/09 | | | | | |
| 262 | 7.1 Box Culvert BC2-1 | 636 days | Wed 1/8/07 | Mon 27/4/09 | 78 | | | | |
| 263 | a. Ch0-Ch15 (Bay 1 and Outlet) | 167 days | Thu 16/10/08 | Thu 31/3/09 | | | | | |
| 264 | Construction of cofferdam | 7 days | Thu 16/10/08 | Wed 22/10/08 | 244 | | | | |
| 265 | Remove road pavement and expose existing utiliti | 7 days | Thu 16/10/08 | Wed 22/10/08 | 244 | | | | |
| 266 | Excavation | 9 days | Thu 23/10/08 | Fri 31/10/08 | 265,348,264 | | | | |
| 267 | Granular Bedding | 4 days | Sat 1/11/08 | Tue 4/11/08 | 266 | | | | |
| 268 | Base Slab | 21 days | Wed 5/11/08 | Tue 25/11/08 | 267 | | | | |
| 269 | Wall and Deck | 22 days | Wed 26/11/08 | Wed 17/12/08 | 268 | | | | |
| 270 | Curing | 10 days | Thu 18/12/08 | Sat 27/12/08 | 269 | | | | |
| 271 | Trench Backfill | 7 days | Sun 28/12/08 | Sat 3/1/09 | 270 | | | | |
| 272 | Reinstatement of Chi Ho Road | 13 days | Sun 4/1/09 | Fri 16/1/09 | 271,255FF,256FF | | | | |

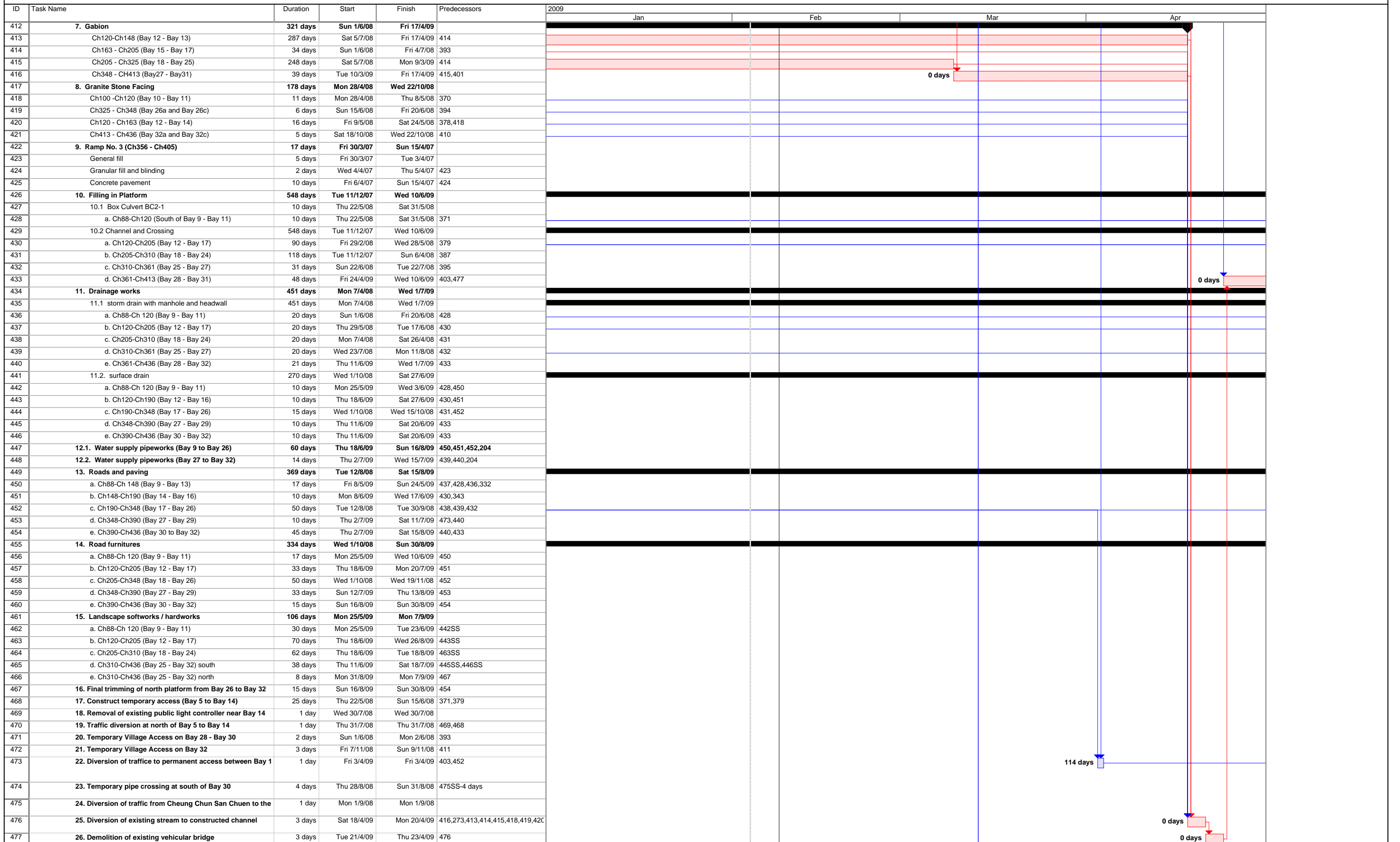
Legend for Gantt chart symbols:

- Task: Blue box
- Progress: Black bar
- Summary: Thick black bar
- Rolled Up Critical Task: Red box
- Rolled Up Progress: Thick black bar
- External Tasks: Grey box
- Group By Summary: Thick black bar
- Critical Task: Red box
- Milestone: Blue box
- Rolled Up Task: Blue box
- Rolled Up Milestone: Blue box
- Split: Dotted line
- Project Summary: Thick black bar
- Deadline: Thick black bar



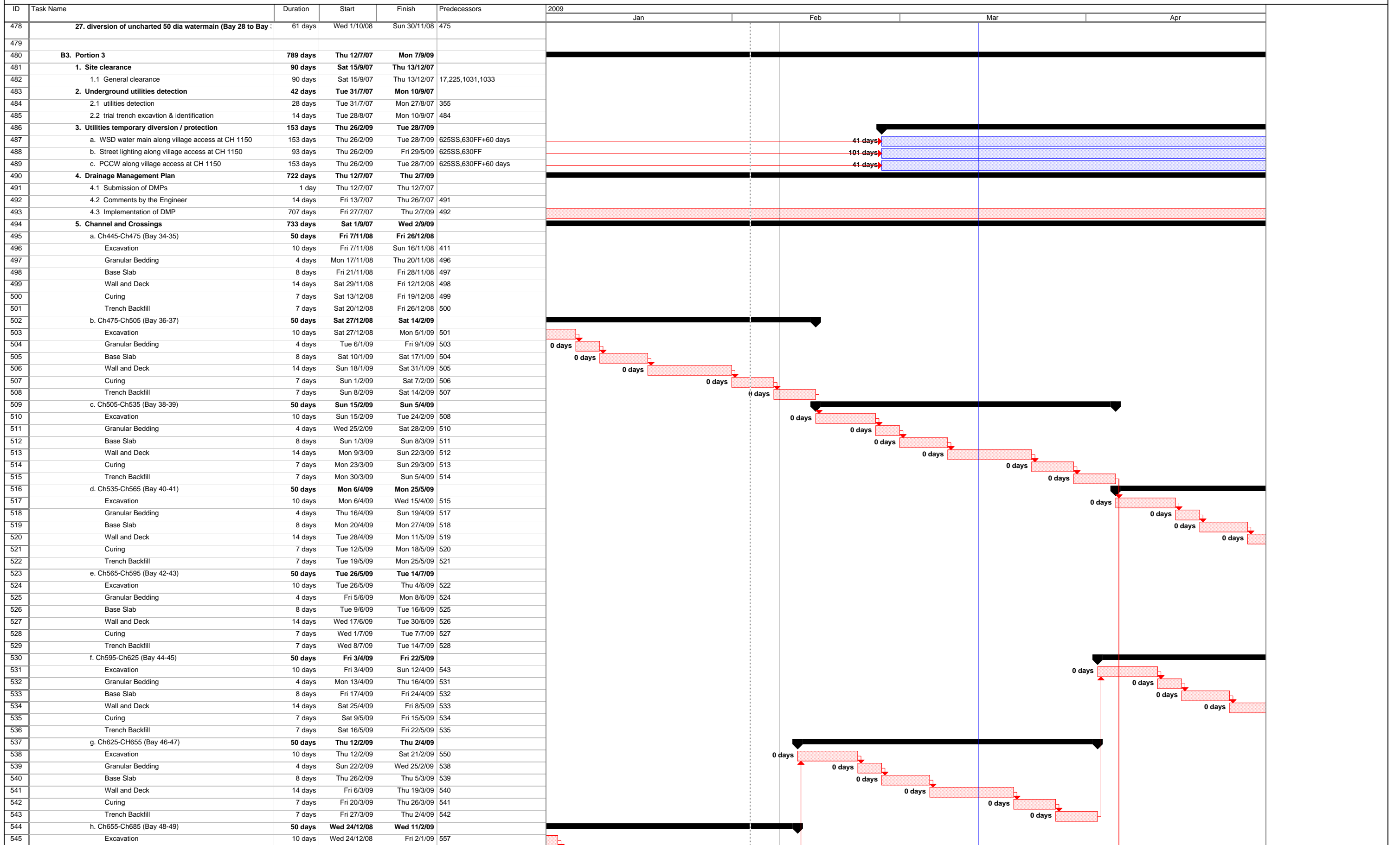
| ID | Task Name | Duration | Start | Finish | Predecessors | 2009 | | | |
|-----|--------------------------------------------------------------------|-----------------|--------------------|-------------------|---------------------|------|-----|-----|-----|
| | | | | | | Jan | Feb | Mar | Apr |
| 343 | 15. Diversion of traffic to permanent access from Bay 4 to B | 1 day | Sun 7/6/09 | Sun 7/6/09 | 342 | | | | |
| 344 | 16. Street furnitures / traffic sign / road marking (except Bay 4) | 16 days | Thu 6/8/09 | Fri 21/8/09 | 341 | | | | |
| 345 | 17. Landscape softworks / hardworks (except Bays 56a and 56b) | 63 days | Sun 7/6/09 | Sat 8/8/09 | 331,332,342 | | | | |
| 346 | 18. Road Diversion in Chi Ho Road | 5 days | Thu 16/10/08 | Mon 20/10/08 | | | | | |
| 347 | a. Construction of temporary footpath above Box Culvert | 4 days | Thu 16/10/08 | Sun 19/10/08 | 244 | | | | |
| 348 | b. Implementation of footpath diversion | 1 day | Mon 20/10/08 | Mon 20/10/08 | 347 | | | | |
| 349 | 19. Removal of Tree No. 501 | 2 days | Thu 16/10/08 | Fri 17/10/08 | | | | | |
| 350 | 20. Permanent footpath | 33 days | Thu 6/8/09 | Mon 7/9/09 | 341 | | | | |
| 351 | B2. Portion 2 | 893 days | Fri 30/3/07 | Mon 7/9/09 | | | | | |
| 352 | 1. Site clearance | 90 days | Tue 14/8/07 | Sun 11/11/07 | | | | | |
| 353 | 1.1 General clearance | 90 days | Tue 14/8/07 | Sun 11/11/07 | 36,1025,225,1027 | | | | |
| 354 | 2. Underground utilities detection | 42 days | Tue 3/7/07 | Mon 13/8/07 | | | | | |
| 355 | 2.1 utilities detection | 28 days | Tue 3/7/07 | Mon 30/7/07 | | | | | |
| 356 | 2.2 trial trench excavation & identification | 14 days | Tue 31/7/07 | Mon 13/8/07 | 355 | | | | |
| 357 | 3. Utilities temporary diversion / protection | 463 days | Fri 30/3/07 | Fri 4/7/08 | | | | | |
| 358 | a. WSD water main along village vehicular access | 90 days | Wed 10/10/07 | Mon 7/1/08 | 374SS | | | | |
| 359 | b. Street lighting along village vehicular access | 269 days | Wed 10/10/07 | Fri 4/7/08 | 374SS | | | | |
| 360 | c. PCCW along village vehicular access | 245 days | Wed 10/10/07 | Tue 10/6/08 | 374SS | | | | |
| 361 | d. CLP overhead cables / street lighting at CH 290 - CH 300 | 90 days | Fri 30/3/07 | Wed 27/6/07 | | | | | |
| 362 | 4. Geotechnical Instrumentation for AFCD | 6 days | Thu 27/9/07 | Tue 2/10/07 | | | | | |
| 363 | 5. Discussion with Pond Owner | 39 days | Wed 1/8/07 | Sat 8/9/07 | | | | | |
| 364 | 6. Box Culvert, Channel and Crossings | 572 days | Sun 9/9/07 | Thu 2/4/09 | | | | | |
| 365 | a. Ch88-Ch120 (Bays 9 - 11) | 83 days | Fri 29/2/08 | Wed 21/5/08 | | | | | |
| 366 | Excavation | 21 days | Fri 29/2/08 | Thu 20/3/08 | 336,362,379 | | | | |
| 367 | Granular Bedding | 15 days | Mon 10/3/08 | Mon 24/3/08 | 366SS+10 days | | | | |
| 368 | Base Slab | 15 days | Sun 16/3/08 | Sun 30/3/08 | 367SS+6 days | | | | |
| 369 | Wall and Deck | 22 days | Sun 23/3/08 | Sun 13/4/08 | 368SS+7 days | | | | |
| 370 | Curing | 25 days | Thu 3/4/08 | Sun 27/4/08 | 369SS+11 days | | | | |
| 371 | Trench Backfill | 35 days | Thu 17/4/08 | Wed 21/5/08 | 370SS+14 days | | | | |
| 372 | b. Ch120-Ch205 (Bay 12 - Bay 17) | 159 days | Sun 23/9/07 | Thu 28/2/08 | | | | | |
| 373 | Haul access | 16 days | Sun 23/9/07 | Mon 8/10/07 | 381 | | | | |
| 374 | Excavation | 46 days | Wed 10/10/07 | Sat 24/11/07 | 362,356,373 | | | | |
| 375 | Granular Bedding | 43 days | Sat 20/10/07 | Sat 1/12/07 | 374SS+10 days | | | | |
| 376 | Base Slab | 50 days | Fri 26/10/07 | Fri 14/12/07 | 375SS+6 days | | | | |
| 377 | Wall and Deck | 53 days | Tue 6/11/07 | Fri 28/12/07 | 376SS+11 days | | | | |
| 378 | Curing | 53 days | Tue 13/11/07 | Fri 4/1/08 | 377SS+7 days | | | | |
| 379 | Trench Backfill | 46 days | Mon 14/1/08 | Thu 28/2/08 | 378SS+62 days,358FF | | | | |
| 380 | c. Ch205-Ch310 (Bay 18 - Bay 24) | 93 days | Sun 9/9/07 | Mon 10/12/07 | | | | | |
| 381 | Haul access | 14 days | Sun 9/9/07 | Sat 22/9/07 | 363 | | | | |
| 382 | Excavation | 27 days | Sun 23/9/07 | Fri 19/10/07 | 361,381 | | | | |
| 383 | Granular Bedding | 23 days | Wed 3/10/07 | Thu 25/10/07 | 382SS+10 days,381 | | | | |
| 384 | Base Slab | 39 days | Tue 9/10/07 | Fri 16/11/07 | 383SS+6 days | | | | |
| 385 | Wall and Deck | 42 days | Sat 20/10/07 | Fri 30/11/07 | 384SS+11 days | | | | |
| 386 | Curing | 42 days | Sat 27/10/07 | Fri 7/12/07 | 385SS+7 days | | | | |
| 387 | Trench Backfill | 31 days | Sat 10/11/07 | Mon 10/12/07 | 386SS+14 days | | | | |
| 388 | d. Ch310-Ch361 (Bay 25 - Bay 27) | 273 days | Sun 23/9/07 | Sat 21/6/08 | | | | | |
| 389 | Haul access | 15 days | Sun 23/9/07 | Sun 7/10/07 | 381 | | | | |
| 390 | Excavation | 52 days | Tue 11/12/07 | Thu 31/1/08 | 389,387 | | | | |
| 391 | Granular Bedding | 85 days | Fri 1/2/08 | Fri 25/4/08 | 390 | | | | |
| 392 | Base Slab | 78 days | Sat 1/3/08 | Sat 17/5/08 | 391SS+29 days | | | | |
| 393 | Wall and Deck | 83 days | Mon 10/3/08 | Sat 31/5/08 | 392SS+9 days | | | | |
| 394 | Curing | 90 days | Mon 17/3/08 | Sat 14/6/08 | 393SS+7 days | | | | |
| 395 | Trench Backfill | 83 days | Mon 31/3/08 | Sat 21/6/08 | 394SS+14 days | | | | |
| 396 | e. Ch361-Ch413 (Bays 28 to Bay 31) | 543 days | Mon 8/10/07 | Thu 2/4/09 | | | | | |
| 397 | Haul access | 10 days | Mon 8/10/07 | Wed 17/10/07 | 389 | | | | |
| 398 | Excavation | 68 days | Mon 1/12/08 | Fri 6/2/09 | 472,397,395,478 | | | | |
| 399 | Granular Bedding | 65 days | Thu 11/12/08 | Fri 13/2/09 | 398SS+10 days | | | | |
| 400 | Base Slab | 65 days | Sun 21/12/08 | Mon 23/2/09 | 399SS+10 days | | | | |
| 401 | Wall and Deck | 65 days | Sun 4/1/09 | Mon 9/3/09 | 400SS+14 days | | | | |
| 402 | Curing | 72 days | Sun 11/1/09 | Mon 23/3/09 | 401SS+7 days | | | | |
| 403 | Trench Backfill | 68 days | Sun 25/1/09 | Thu 2/4/09 | 402SS+14 days | | | | |
| 404 | f. Ch413-Ch445 (Bay 32 and Bay 33) | 164 days | Tue 27/5/08 | Thu 6/11/08 | | | | | |
| 405 | Flow diversion | 7 days | Tue 27/5/08 | Mon 2/6/08 | 406SS-7 days | | | | |
| 406 | Excavation | 40 days | Tue 3/6/08 | Sat 12/7/08 | 471 | | | | |
| 407 | Granular Bedding | 5 days | Sun 13/7/08 | Thu 17/7/08 | 406 | | | | |
| 408 | Base Slab | 35 days | Fri 18/7/08 | Thu 21/8/08 | 407 | | | | |
| 409 | Wall and Deck | 43 days | Fri 22/8/08 | Fri 3/10/08 | 408 | | | | |
| 410 | Curing | 14 days | Sat 4/10/08 | Fri 17/10/08 | 409 | | | | |

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

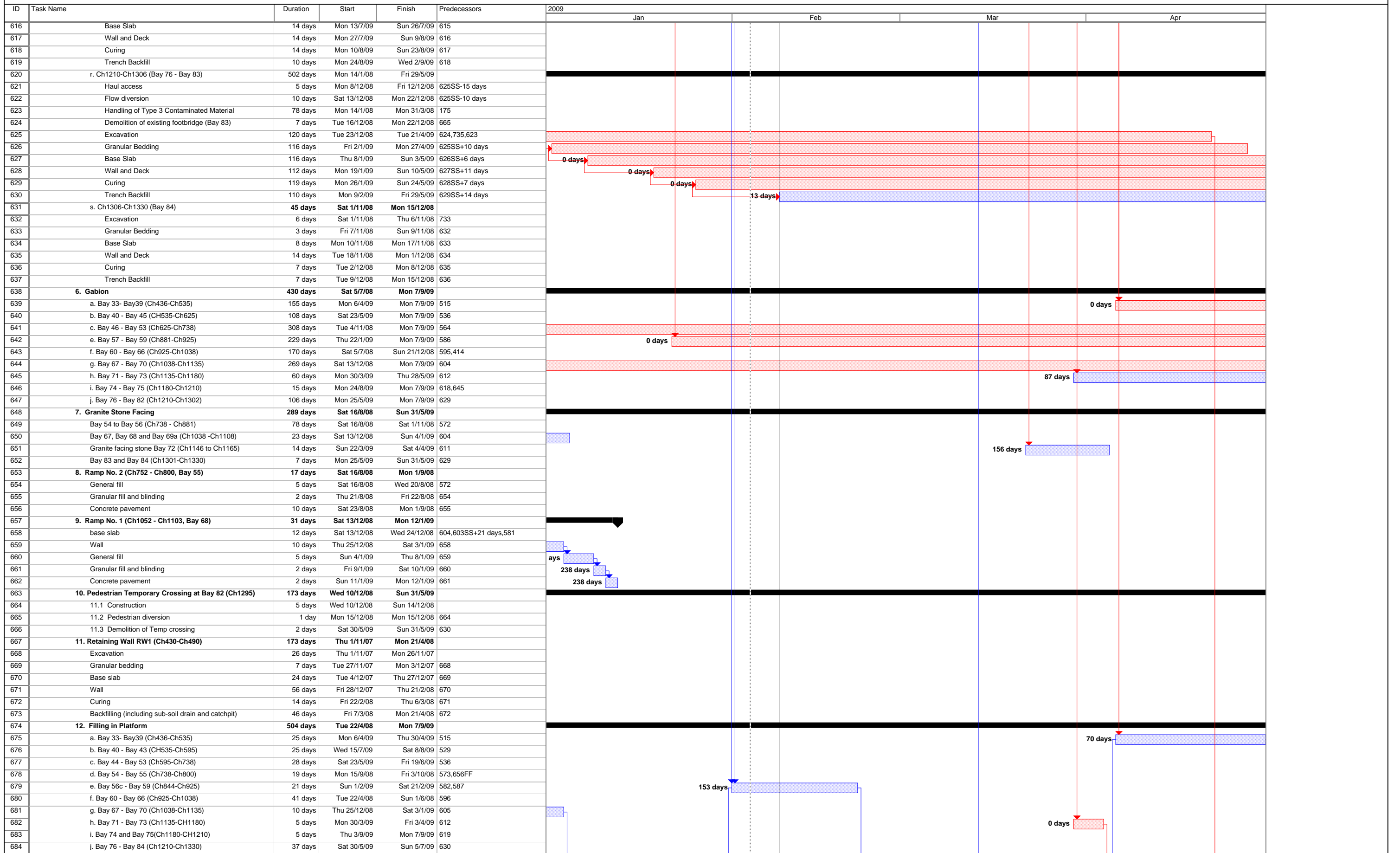


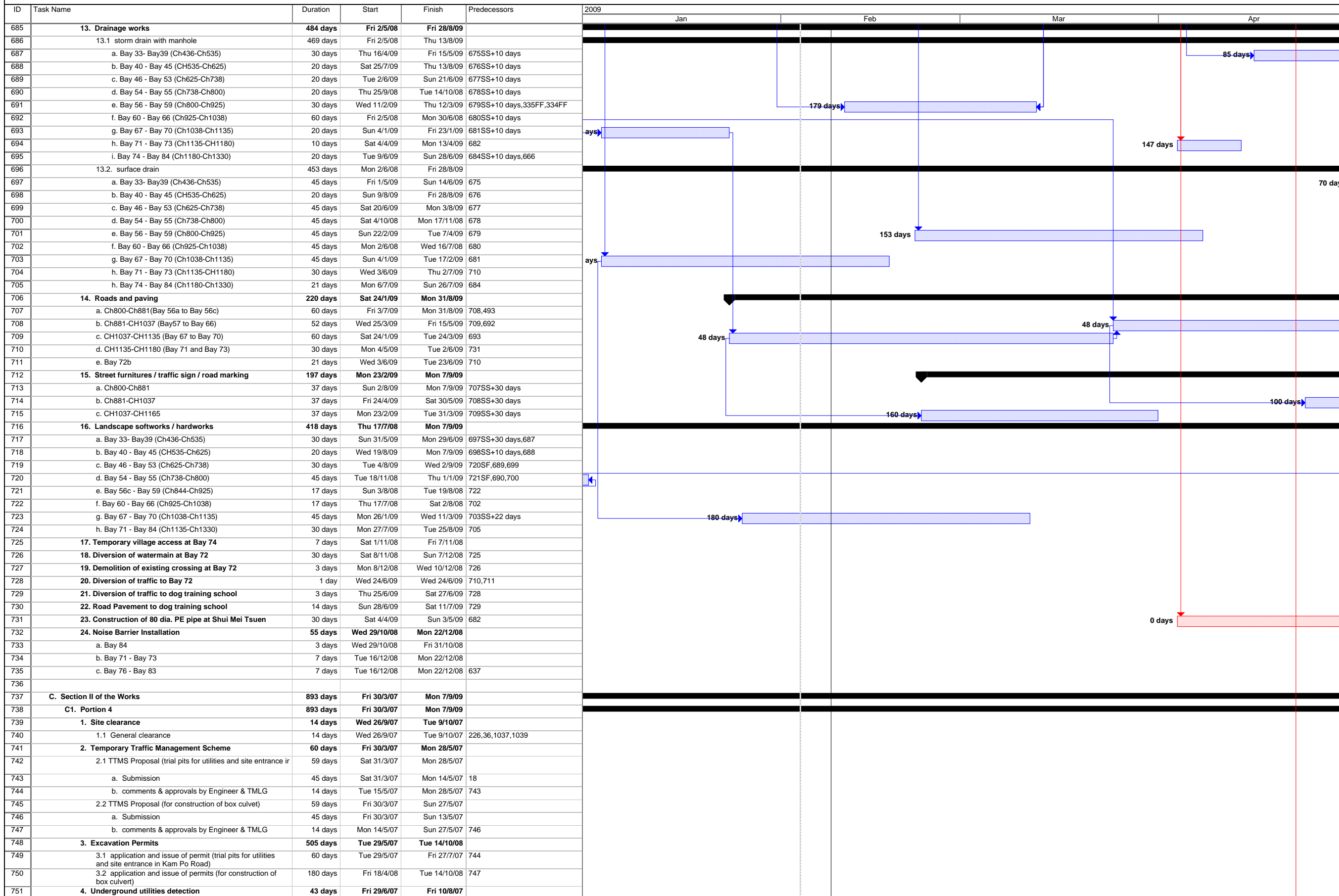
Legend for Gantt chart symbols:

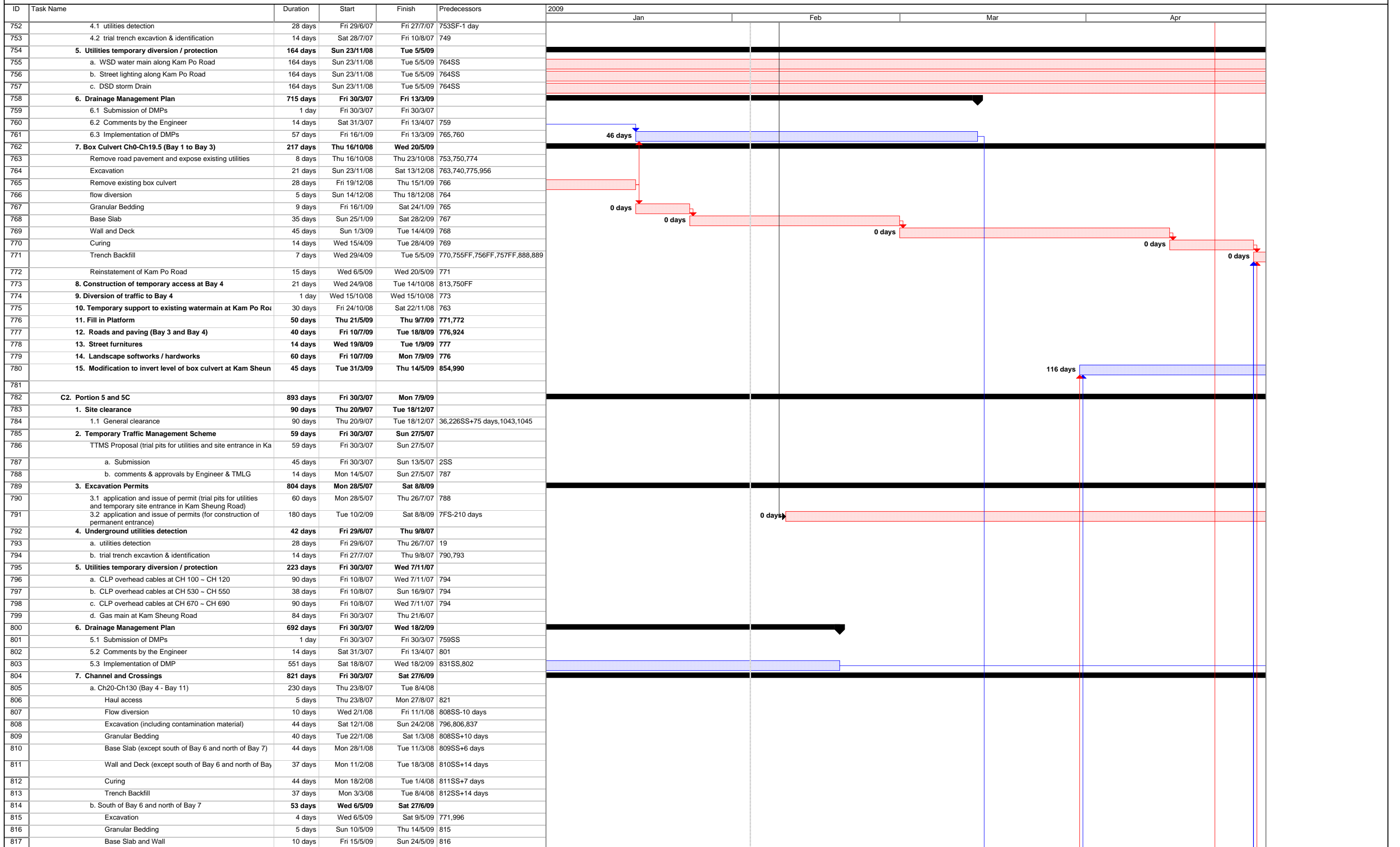
- Task: Blue box
- Progress: Black bar
- Summary: Thick black bar
- Rolled Up Critical Task: Red box
- Rolled Up Progress: Thick black bar
- External Tasks: Grey box
- Group By Summary: Thick black bar
- Critical Task: Red box
- Milestone: Blue box
- Rolled Up Task: Thick black bar
- Rolled Up Milestone: Blue box
- Split: Dotted line
- Project Summary: Thick black bar
- Deadline: Thick black bar

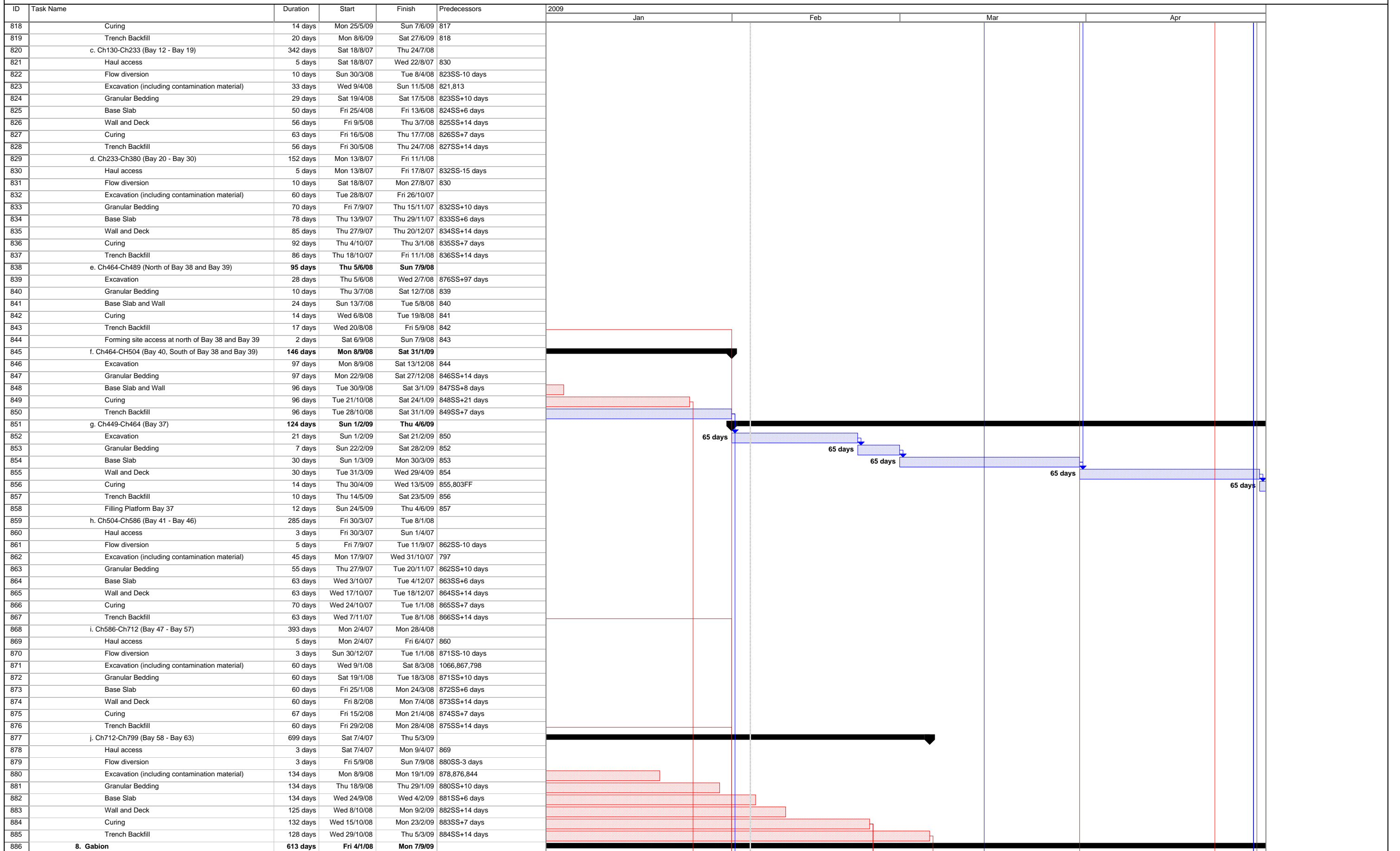


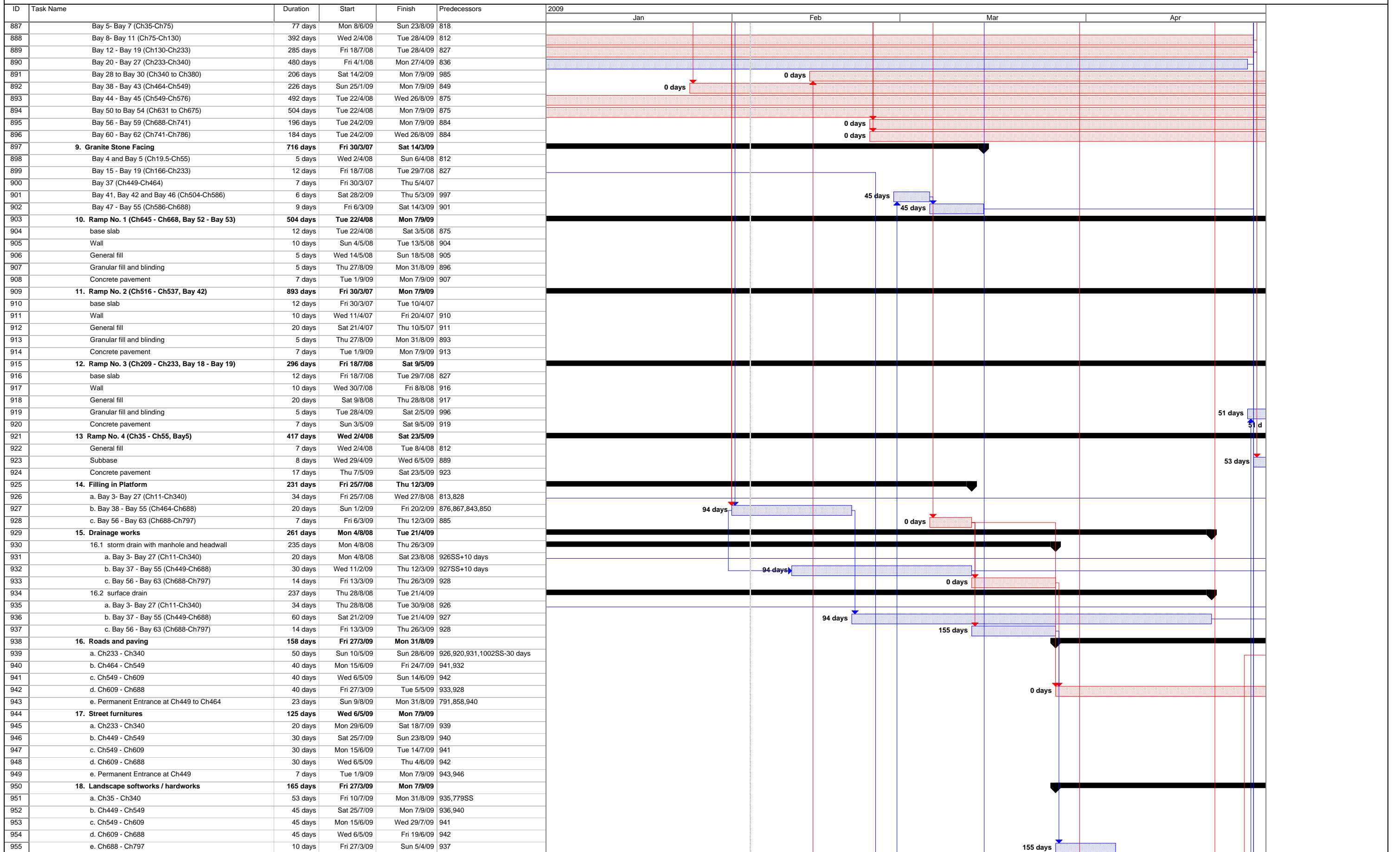


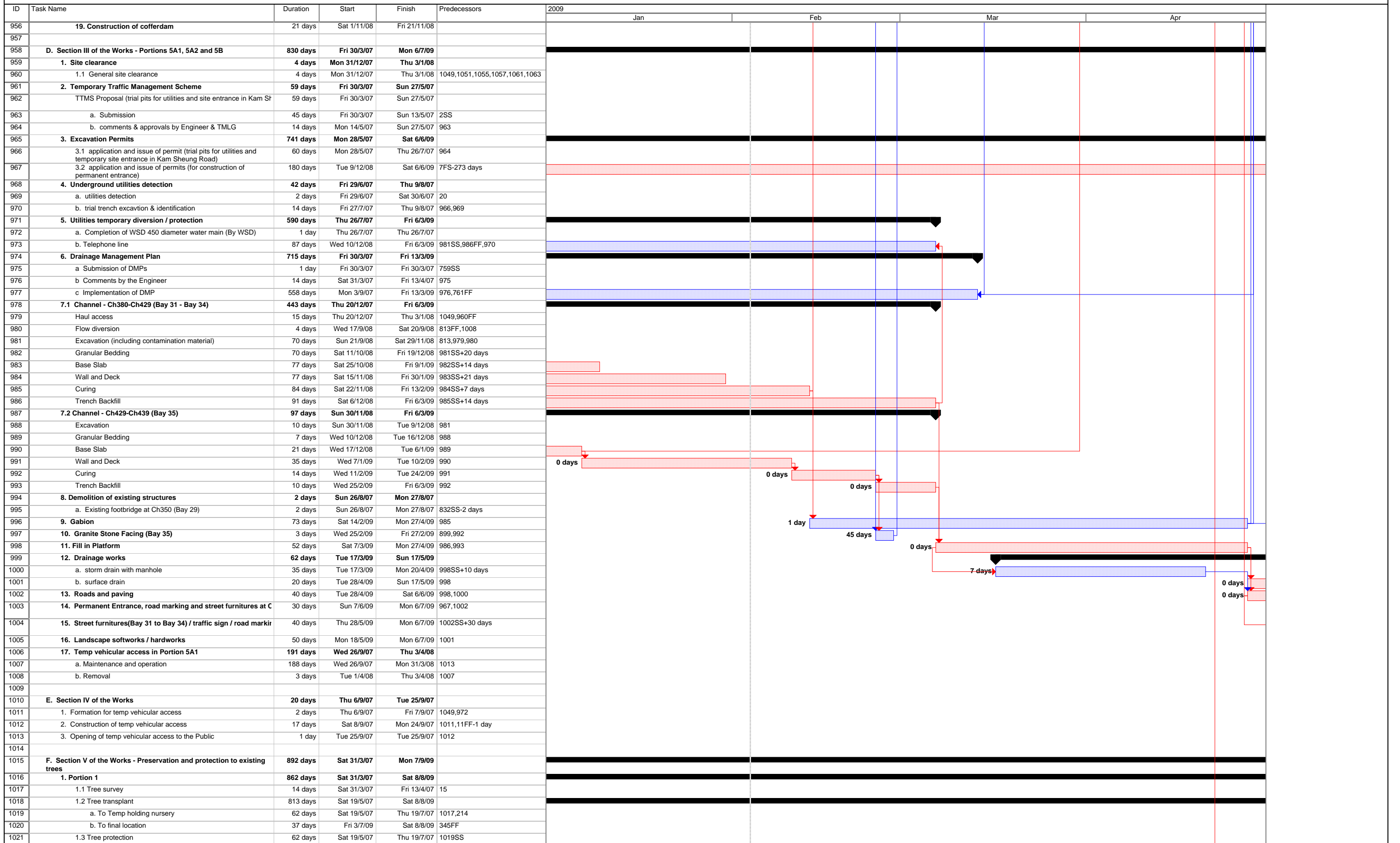












Task: Progress Summary Rolled Up Critical Task External Tasks Group By Summary

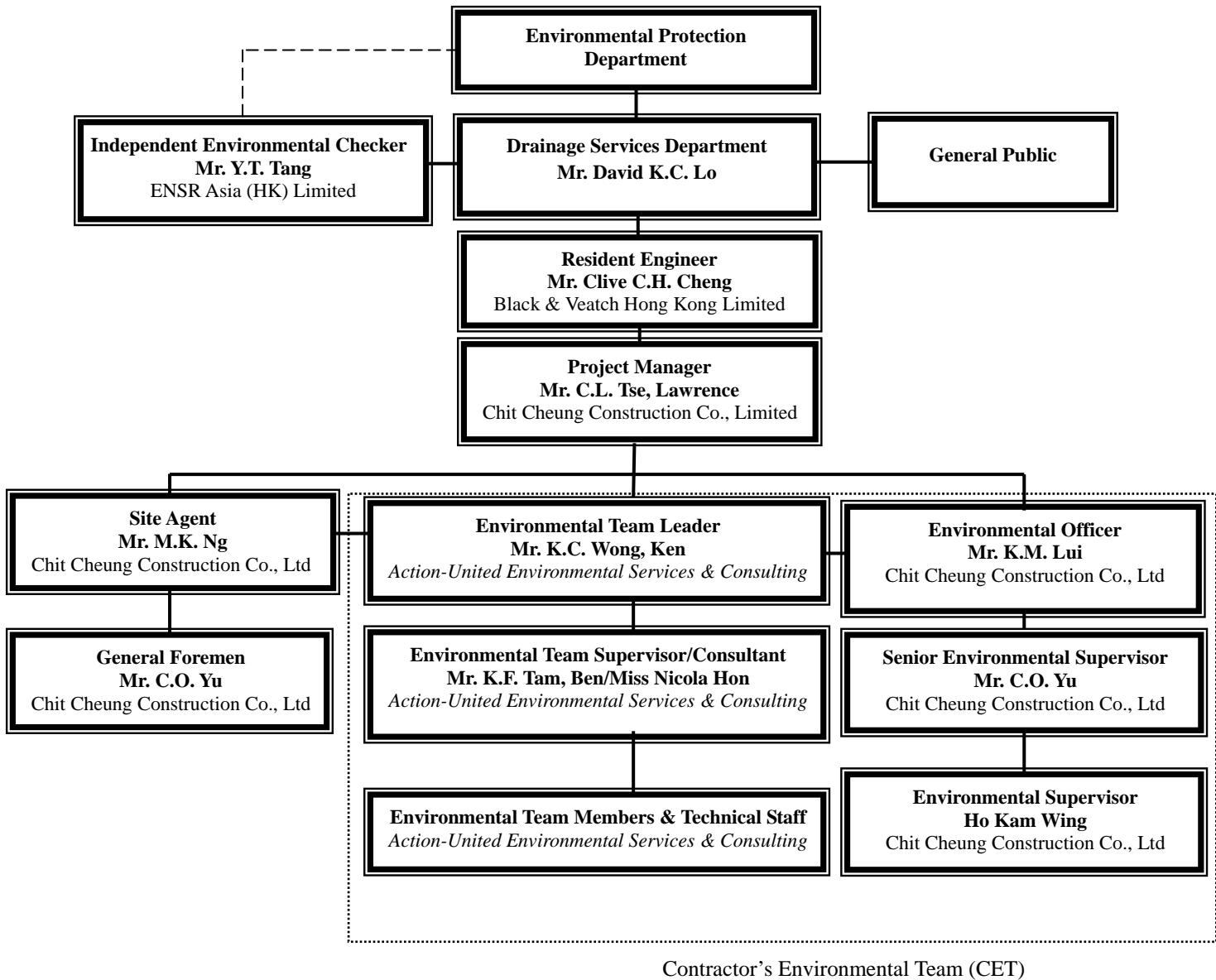
Critical Task: Milestone Rolled Up Task Rolled Up Milestone Split Project Summary Deadline

| ID | Task Name | Duration | Start | Finish | Predecessors | 2009 | | | |
|------|---------------------------------------|-----------------|---------------------|--------------------|--------------|------|--------|-----|----------|
| | | | | | | Jan | Feb | Mar | Apr |
| 1022 | 2. Portion 2 | 832 days | Wed 30/5/07 | Mon 7/9/09 | | | | | |
| 1023 | 2.1 Tree survey | 14 days | Wed 30/5/07 | Tue 12/6/07 | 16 | | | | |
| 1024 | 2.2 Tree transplant | 818 days | Wed 13/6/07 | Mon 7/9/09 | | | | | |
| 1025 | a. To Temp holding nursery | 62 days | Wed 13/6/07 | Mon 13/8/07 | 1023,214,228 | | | | |
| 1026 | b. To final location | 132 days | Wed 29/4/09 | Mon 7/9/09 | 461FF | | | | 0 days |
| 1027 | 2.3 Tree protection | 62 days | Wed 13/6/07 | Mon 13/8/07 | 1025SS | | | | |
| 1028 | 3. Portion 3 | 802 days | Fri 29/6/07 | Mon 7/9/09 | | | | | |
| 1029 | 3.1 Tree survey | 14 days | Fri 29/6/07 | Thu 12/7/07 | 17 | | | | |
| 1030 | 3.2 Tree transplant | 788 days | Fri 13/7/07 | Mon 7/9/09 | | | | | |
| 1031 | a. To Temp holding nursery | 64 days | Fri 13/7/07 | Fri 14/9/07 | 1029,214 | | | | |
| 1032 | b. To final location | 301 days | Tue 11/11/08 | Mon 7/9/09 | 716FF | | | | |
| 1033 | 3.3 Tree protection | 64 days | Fri 13/7/07 | Fri 14/9/07 | 1031SS | | | | |
| 1034 | 4. Portion 4 | 892 days | Sat 31/3/07 | Mon 7/9/09 | | | | | |
| 1035 | 4.1 Tree survey | 14 days | Sat 31/3/07 | Fri 13/4/07 | 18 | | | | |
| 1036 | 4.2 Tree transplant | 843 days | Sat 19/5/07 | Mon 7/9/09 | | | | | |
| 1037 | a. To Temp holding nursery | 62 days | Sat 19/5/07 | Thu 19/7/07 | 1035,214 | | | | |
| 1038 | b. To final location | 53 days | Fri 17/7/09 | Mon 7/9/09 | 779FF | | | | |
| 1039 | 4.3 Tree protection | 62 days | Sat 19/5/07 | Thu 19/7/07 | 1037SS | | | | |
| 1040 | 5. Portion 5 | 802 days | Fri 29/6/07 | Mon 7/9/09 | | | | | |
| 1041 | 5.1 Tree survey | 14 days | Fri 29/6/07 | Thu 12/7/07 | 19 | | | | |
| 1042 | 5.2 Tree transplant | 788 days | Fri 13/7/07 | Mon 7/9/09 | | | | | |
| 1043 | a. To Temp holding nursery | 69 days | Fri 13/7/07 | Wed 19/9/07 | 1041,214 | | | | |
| 1044 | b. To final location | 195 days | Wed 25/2/09 | Mon 7/9/09 | 950FF | | 0 days | | |
| 1045 | 5.3 Tree protection | 69 days | Fri 13/7/07 | Wed 19/9/07 | 1043SS | | | | |
| 1046 | 6. Portion 5A1 | 739 days | Fri 29/6/07 | Mon 6/7/09 | | | | | |
| 1047 | 6.1 Tree survey | 7 days | Fri 29/6/07 | Thu 5/7/07 | 20 | | | | |
| 1048 | 6.2 Tree transplant | 732 days | Fri 6/7/07 | Mon 6/7/09 | | | | | |
| 1049 | a. To Temp holding nursery | 62 days | Fri 6/7/07 | Wed 5/9/07 | 1047,214 | | | | |
| 1050 | b. To final location | 61 days | Thu 7/5/09 | Mon 6/7/09 | 1005FF | | | | |
| 1051 | 6.3 Tree protection | 62 days | Fri 6/7/07 | Wed 5/9/07 | 1049SS | | | | |
| 1052 | 7. Portion 5A2 | 739 days | Fri 29/6/07 | Mon 6/7/09 | | | | | |
| 1053 | 7.1 Tree survey | 14 days | Fri 29/6/07 | Thu 12/7/07 | 21 | | | | |
| 1054 | 7.2 Tree transplant | 725 days | Fri 13/7/07 | Mon 6/7/09 | | | | | |
| 1055 | a. To Temp holding nursery | 62 days | Fri 13/7/07 | Wed 12/9/07 | 1053,214 | | | | |
| 1056 | b. To final location | 61 days | Thu 7/5/09 | Mon 6/7/09 | 1005FF | | | | |
| 1057 | 7.3 Tree protection | 62 days | Fri 13/7/07 | Wed 12/9/07 | 1055SS | | | | |
| 1058 | 8. Portion 5B | 630 days | Tue 16/10/07 | Mon 6/7/09 | | | | | |
| 1059 | 8.1 Tree survey | 14 days | Tue 16/10/07 | Mon 29/10/07 | 22 | | | | |
| 1060 | 8.2 Tree transplant | 616 days | Tue 30/10/07 | Mon 6/7/09 | | | | | |
| 1061 | a. To Temp holding nursery | 62 days | Tue 30/10/07 | Sun 30/12/07 | 1059,214 | | | | |
| 1062 | b. To final location | 61 days | Thu 7/5/09 | Mon 6/7/09 | 1005FF | | | | |
| 1063 | 8.3 Tree protection | 62 days | Tue 30/10/07 | Sun 30/12/07 | 1061SS | | | | |
| 1064 | | | | | | | | | |
| 1065 | G. Berthing Area | 597 days | Wed 12/9/07 | Thu 30/4/09 | | | | | |
| 1066 | 1. Construction of Loading Facilities | 27 days | Wed 12/9/07 | Mon 8/10/07 | 162 | | | | |
| 1067 | 2. Removal of Loading Facilities | 2 days | Wed 22/4/09 | Thu 23/4/09 | 625 | | | | 130 days |
| 1068 | 3. Reinstatement of Berthing Area | 7 days | Fri 24/4/09 | Thu 30/4/09 | 1067 | | | | 130 days |

APPENDIX C

ENVIRONMENTAL ORGANIZATION STRUCTURE

Environmental Organization Structure



Contact Details of Key Personnel

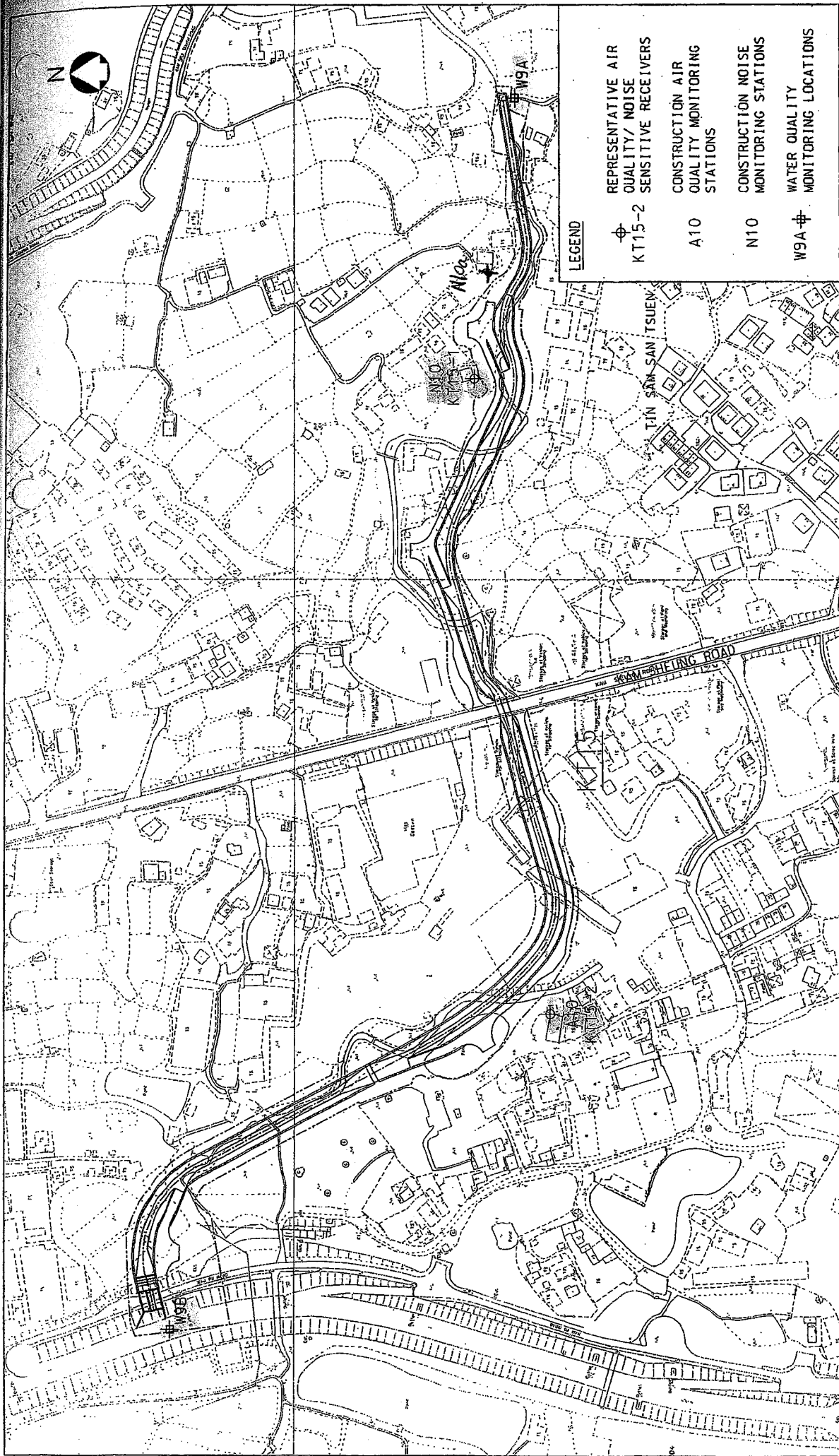
| Organization | Project Role | Name of Key Staff | Tel No. | Fax No. |
|--------------|-----------------------------------|----------------------|-----------|-----------|
| DSD | Employer | Mr. David K.C. LO | 2594-7254 | 2827-8526 |
| B&V | Engineer | Mr. Kelvin N.F. LAU | 2601-1000 | 2601-3988 |
| B&V | Engineer's Representative | Mr. Clive C.H. CHENG | 2478-9161 | 2478-9396 |
| 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 | Environmental Team Supervisor | Ben Tam | 2959-6059 | 2959-6079 |
| AUES | Environmental Consultant | Nicola Hon | 2959-6059 | 2959-6079 |
| AUES | Ecologist | Vincent Lai | 9406-9784 | 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




LEGEND

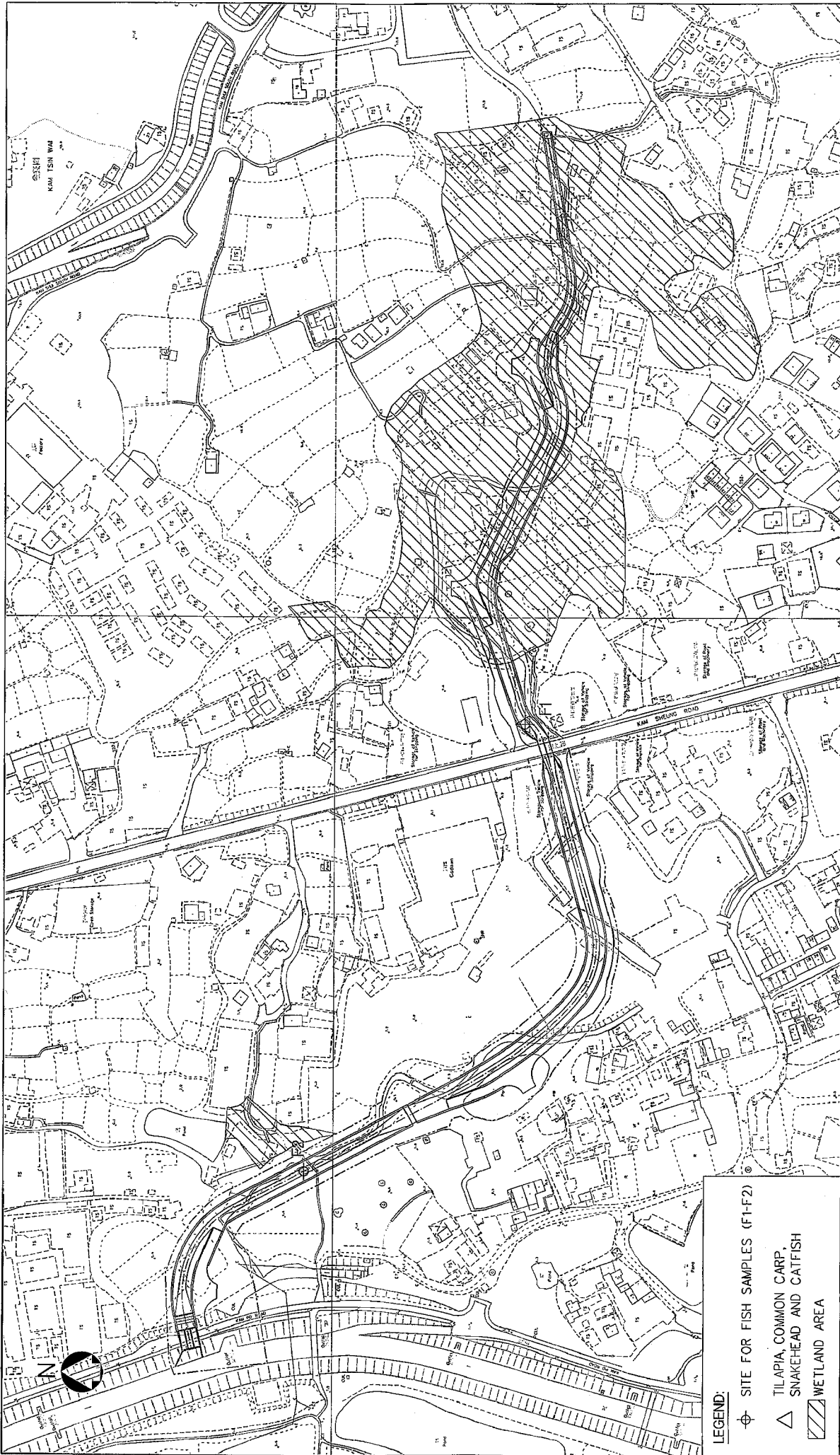
- ⊕ REPRESENTATIVE AIR QUALITY/ NOISE SENSITIVE RECEIVERS
KT15-2
- A10 CONSTRUCTION AIR QUALITY MONITORING STATIONS
- N10 CONSTRUCTION NOISE MONITORING STATIONS
- W9A ⊕ WATER QUALITY MONITORING LOCATIONS

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

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

YUEN LONG, KAM TIN
 NGAU TAM MEI AND TIN SHUI WAI
 DRAINAGE IMPROVEMENT, STAGE 1, PHASE 2B


BLACK & VEATCH HONG KONG LIMITED
 博風工程顧問有限公司



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


Title :

ECOLOGICAL MONITORING AREA KT15

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

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. Exceedance for one sample | <ol style="list-style-type: none"> Identify source Inform IEC and Engineer Repeat measurement to confirm finding Increase monitoring frequency to daily | <ol style="list-style-type: none"> Check monitoring data submitted by ET Check Contractor's working method | Notify Contractor | <ol style="list-style-type: none"> Rectify any unacceptable practice Amend working methods if appropriate |
| 2. Exceedance for two or more consecutive samples | <ol style="list-style-type: none"> Identify source Inform IEC and Engineer Repeat measurements to confirm findings Increase monitoring frequency to daily Discuss with IEC and Contractor on remedial actions required If exceedance continues, arrange meeting with IEC and Engineer If exceedance stops, cease additional monitoring | <ol style="list-style-type: none"> Check monitoring data submitted by ET Check Contractor's working method Discuss with ET and Contractor on possible remedial measures Advice Engineer on the effectiveness of the proposed remedial measures Supervise implementation of remedial measures | <ol style="list-style-type: none"> Confirm receipt of notification of failure in writing Notify Contractor Ensure remedial measures properly implemented | <ol style="list-style-type: none"> Submit proposals for remedial actions to IEC within 3 working days of notification Implement the agreed proposals Amend proposal if appropriate |
| LIMIT LEVEL | | | | |
| 1. Exceedance for one sample | <ol style="list-style-type: none"> Identify source Inform Engineer and EPD Repeat measurement to confirm finding Increase monitoring frequency to daily Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and Engineer informed of the results | <ol style="list-style-type: none"> Check monitoring data submitted by ET Check Contractor's working method Discuss with ET and Contractor on possible remedial measures Advice Engineer on the effectiveness of the proposed remedial measures Supervise implementation of remedial measures | <ol style="list-style-type: none"> Confirm receipt of notification of failure in writing Notify Contractor Ensure remedial measures properly implemented | <ol style="list-style-type: none"> Take immediate action to avoid further exceedance Submit proposals for remedial actions to IEC within 3 working days of notification Implement the agreed proposals Amend proposal if appropriate |
| 2. Exceedance for two or more consecutive samples | <ol style="list-style-type: none"> Notify IEC, Engineer and EPD Identify source Repeat measurement to confirm findings Increase monitoring frequency to daily Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented. Arrange meeting with IEC and Engineer to discuss the remedial actions to be taken Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and Engineer informed of the results If exceedance stops, cease additional monitoring | <ol style="list-style-type: none"> Discuss amongst Engineer, ET and Contractor on potential remedial actions Review Contractor's remedial actions whether necessary to assure their effectiveness and advice the Engineer accordingly Supervise implementation of remedial measures | <ol style="list-style-type: none"> Confirm receipt of notification of failure in writing Notify Contractor In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented Discuss amongst Environmental Team Leader and the Contractor potential remedial actions Ensure remedial measures properly implemented If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated | <ol style="list-style-type: none"> Take immediate action to avoid further exceedance Submit proposals for remedial actions to IEC within 3 working days of notification Implement the agreed proposals Resubmit proposals if problem still not under control Stop the relevant portion of works as determined by the Engineer until the exceedance is abated |

Event/Action Plan for Construction Noise

| EVENT | ACTION | | | |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | ET Leader | IEC | Engineer | Contractor |
| ACTION LEVEL | <ol style="list-style-type: none"> 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 | <ol style="list-style-type: none"> 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 | <ol style="list-style-type: none"> 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 | <ol style="list-style-type: none"> 1. Submit noise mitigation proposals for remedial actions to IEC 2. Implement the agreed proposals |
| LIMIT LEVEL | <ol style="list-style-type: none"> 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 | <ol style="list-style-type: none"> 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 | <ol style="list-style-type: none"> 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 | <ol style="list-style-type: none"> 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) | <ol style="list-style-type: none"> Repeat in-situ measurement to confirm findings Identify source(s) of impact Inform IEC and Contractor Check monitoring data, all plant, equipment and Contractor's working methods Discuss mitigation measures IEC and Contractor Repeat measurement on next day of exceedance | <ol style="list-style-type: none"> 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 | <ol style="list-style-type: none"> Discuss with IEC on the proposed mitigation measures Make agreement on the mitigation measures to be implemented | <ol style="list-style-type: none"> Inform Engineer and confirm notification of the non-compliance in writing Rectify unacceptable practice Check all plant and equipment Consider changes of working methods Discuss with ET and Contractor and propose mitigation measures to IEC and Engineer Implement the agreed mitigation measures |
| ACTION LEVEL (being exceeded by more than one sampling day) | <ol style="list-style-type: none"> Repeat in-situ measurement to confirm findings Identify source(s) of impact Inform IEC, Contractor and EPD Check monitoring data, all plant, equipment and Contractor's working methods Discuss mitigation measures IEC, Engineer and Contractor Repeat measurement on next day of exceedance Ensure mitigation measures are implemented Prepare to increase the monitoring frequency to daily Repeat measurement on next day of exceedance | <ol style="list-style-type: none"> 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 | <ol style="list-style-type: none"> Discuss with IEC on the proposed mitigation measures Make agreement on the mitigation measures to be implemented Assess the effectiveness of the implemented mitigation measures | <ol style="list-style-type: none"> Inform Engineer and confirm notification of the non-compliance in writing Rectify unacceptable practice Check all plant and equipment Consider changes of working methods Discuss with ET and IEC and propose mitigation measures to IEC and Engineer within 3 working days Implement the agreed mitigation measures |
| LIMIT LEVEL (being exceeded by one sampling days) | <ol style="list-style-type: none"> Repeat in-situ measurement to confirm findings Identify source(s) of impact Inform IEC, Contractor and EPD Check monitoring data, all plant, equipment and Contractor's working methods Discuss mitigation measures IEC, Engineer and Contractor Ensure mitigation measures are implemented Increase the monitoring frequency to daily until no exceedance of Limit level | <ol style="list-style-type: none"> 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 | <ol style="list-style-type: none"> Discuss with IEC, ET and Contractor on the proposed mitigation measures Request Contractor to critically review the working methods Make agreement on the mitigation measures to be implemented Assess the effectiveness of the implemented mitigation measures | <ol style="list-style-type: none"> Inform Engineer and confirm notification of the non-compliance in writing Rectify unacceptable practice Check all plant and equipment Consider changes of working methods Discuss with ET, IEC and Engineer and propose mitigation measures to IEC and Engineer within 3 working days Implement the agreed mitigation measures |
| LIMIT LEVEL (being exceeded by more than one sampling days) | <ol style="list-style-type: none"> Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform Contractor, Engineer, IEC and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, Engineer and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level | <ol style="list-style-type: none"> 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 | <ol style="list-style-type: none"> Discuss with IEC, ET and Contractor on the proposed mitigation measures Request Contractor to critically review the working methods Make agreement on the mitigation measures to be implemented Assess the effectiveness of the implemented mitigation measures 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 | <ol style="list-style-type: none"> Inform Engineer and confirm notification of the non-compliance in writing Rectify unacceptable practice Check all plant and equipment Consider changes of working methods Discuss with ET, IEC and Engineer and propose mitigation measures to IEC and Engineer within 3 working days Propose mitigation measures to Engineer within 3 working days Implement the agreed mitigation measures; 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 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Fauna</p> <p>The total number of species or individuals of the surveyed wetland dependent faunal groups is reduced by 20-40% from baseline</p> | <ul style="list-style-type: none"> • Notify IEC and Contractor; • Check the position and state of the current works to identify the causes; • Discuss mitigation measures with IEC and Contractor | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • Discuss with IEC on the proposed mitigation measures; • Reach agreement on the mitigation measures to be implemented | <ul style="list-style-type: none"> • 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

| Items | Aspect | Description of Equipment | Date of Calibration | Date of Next Calibration |
|-------|--------|---------------------------------------------------|---------------------|--------------------------|
| 1 | Air | Greasby Anderson GMWS2310 High Volume Sampler | 08 Jan 09 | 08 Mar 09 |
| 2 | | EQ094 - Sibata LD-3 Laser Dust Meter | 20 Jun 08 | 19 Jun 09 |
| 3 | | EQ096 - Sibata LD-3 Laser Dust Meter | 20 Jun 08 | 19 Jun 09 |
| 4 | Noise | Bruel & Kjaer 4231 Acoustical Calibrator | 22 Apr 08 | 22 Apr 09 |
| 5 | | Bruel & Kjaer 2238 Integrating Sound Level Meter | 22 Apr 08 | 22 Apr 09 |
| 6 | Water | YSI Multimeter YSI 550A (Serial No. 05F2063AZ) | 19 Jan 09 | 19 Apr 09 |
| 7 | | Hanna pH Meter HI98128 (Serial No. S229924) | 08 Dec 08 | 08 Mar 09 |
| 8 | | Turbidimeter HACH 2100p (Serial No. 950900008735) | 01 Dec 08 | 01 Mar 09 |
| 9 | | Hand refractometer ATAGO (Serial No. 289468) | 19 Jan 09 | 19 Apr 09 |

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

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-Jan-09 | Mon | | | | | |
| 27-Jan-09 | Tue | | | | | |
| 28-Jan-09 | Wed | | | | | |
| 29-Jan-09 | Thu | ✓ | | | ✓ | |
| 30-Jan-09 | Fri | | ✓ | | | |
| 31-Jan-09 | Sat | ✓ | | ✓ | ✓ | |
| 1-Feb-09 | Sun | | | | | |
| 2-Feb-09 | Mon | | | | ✓ | |
| 3-Feb-09 | Tue | | | | | |
| 4-Feb-09 | Wed | | | | ✓ | |
| 5-Feb-09 | Thu | | ✓ | | | |
| 6-Feb-09 | Fri | ✓ | | ✓ | | |
| 7-Feb-09 | Sat | | | | | |
| 8-Feb-09 | Sun | | | | | |
| 9-Feb-09 | Mon | | | | ✓ | |
| 10-Feb-09 | Tue | | | | | |
| 11-Feb-09 | Wed | | ✓ | | ✓ | |
| 12-Feb-09 | Thu | ✓ | | ✓ | | |
| 13-Feb-09 | Fri | | | | | |
| 14-Feb-09 | Sat | | | | | |
| 15-Feb-09 | Sun | | | | | |
| 16-Feb-09 | Mon | | | | ✓ | |
| 17-Feb-09 | Tue | | ✓ | | | |
| 18-Feb-09 | Wed | ✓ | | ✓ | ✓ | |
| 19-Feb-09 | Thu | | | | | |
| 20-Feb-09 | Fri | | | | | |
| 21-Feb-09 | Sat | | | | | |
| 22-Feb-09 | Sun | | | | | |
| 23-Feb-09 | Mon | | ✓ | | ✓ | |
| 24-Feb-09 | Tue | ✓ | | ✓ | | ✓ |
| 25-Feb-09 | Wed | | | | ✓ | |

| | |
|---|--------------------------|
| ✓ | Monitoring Day |
| | Sunday or Public Holiday |

Impact Monitoring Schedules in the Next Reporting Period

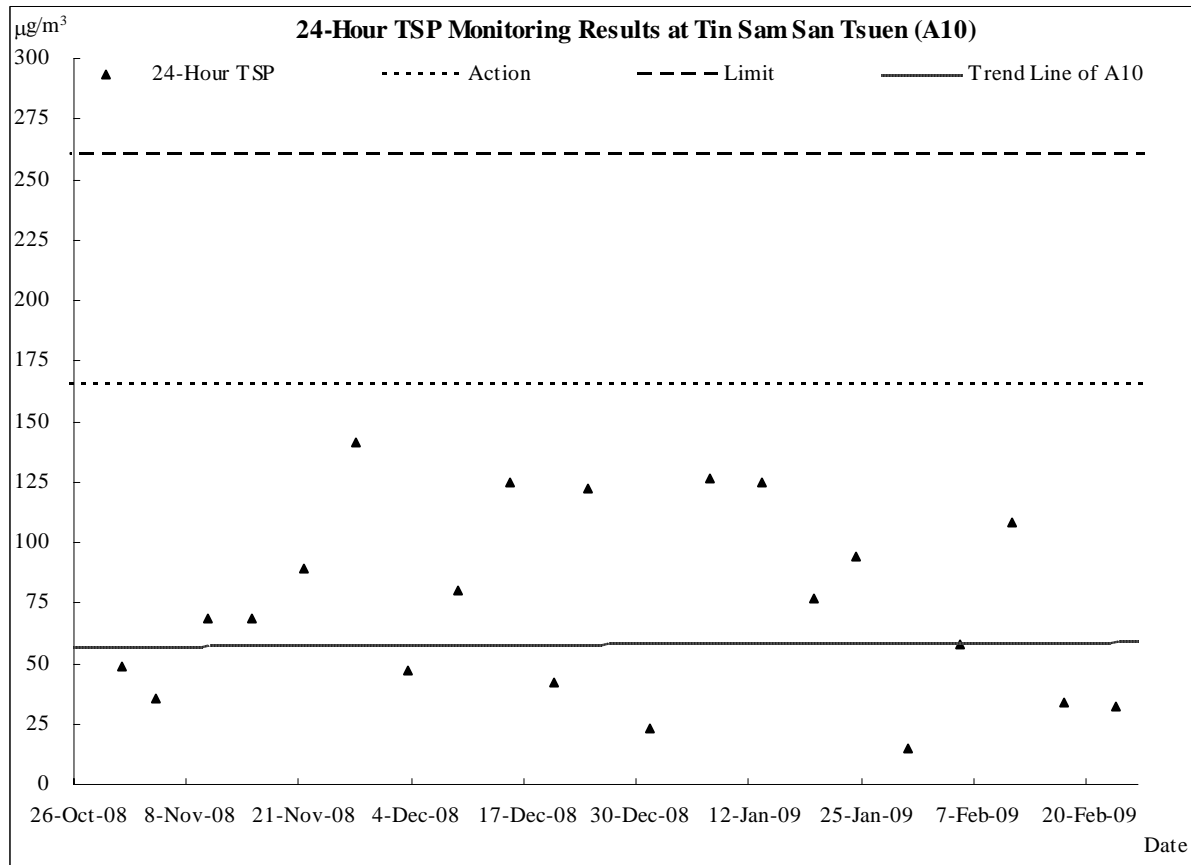
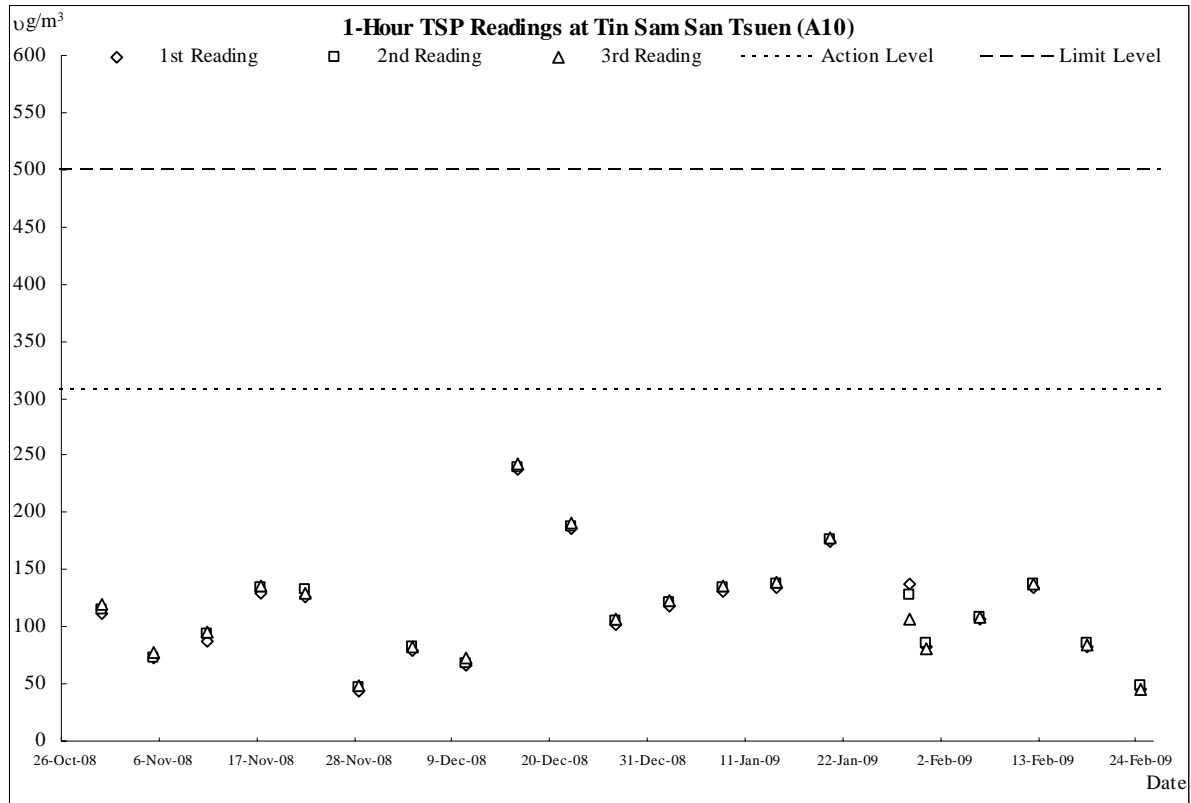
| Date | | Air Quality | | Noise Leq 30min | Stream Water Quality | Ecology Surveys |
|-----------|-----|-------------|-------------|-----------------|----------------------|-----------------|
| | | 1-Hour TSP | 24-Hour TSP | | | |
| 26-Feb-09 | Thu | | | | | |
| 27-Feb-09 | Fri | | | | | |
| 28-Feb-09 | Sat | | ✓ | | | |
| 1-Mar-09 | Sun | | | | | |
| 2-Mar-09 | Mon | ✓ | | ✓ | ✓ | |
| 3-Mar-09 | Tue | | | | | |
| 4-Mar-09 | Wed | | | | | |
| 5-Mar-09 | Thu | | | | ✓ | |
| 6-Mar-09 | Fri | | ✓ | | | |
| 7-Mar-09 | Sat | ✓ | | ✓ | | |
| 8-Mar-09 | Sun | | | | | |
| 9-Mar-09 | Mon | | | | ✓ | |
| 10-Mar-09 | Tue | | | | | |
| 11-Mar-09 | Wed | | | | | |
| 12-Mar-09 | Thu | | ✓ | | ✓ | |
| 13-Mar-09 | Fri | ✓ | | ✓ | | |
| 14-Mar-09 | Sat | | | | | ✓ |
| 15-Mar-09 | Sun | | | | | |
| 16-Mar-09 | Mon | | | | ✓ | |
| 17-Mar-09 | Tue | | | | | |
| 18-Mar-09 | Wed | | ✓ | | | |
| 19-Mar-09 | Thu | ✓ | | ✓ | ✓ | |
| 20-Mar-09 | Fri | | | | | |
| 21-Mar-09 | Sat | | | | | |
| 22-Mar-09 | Sun | | | | | |
| 23-Mar-09 | Mon | | | | ✓ | |
| 24-Mar-09 | Tue | | ✓ | | | |
| 25-Mar-09 | Wed | ✓ | | ✓ | | |

| | |
|---|--------------------------|
| ✓ | Monitoring Day |
| | Sunday or Public Holiday |

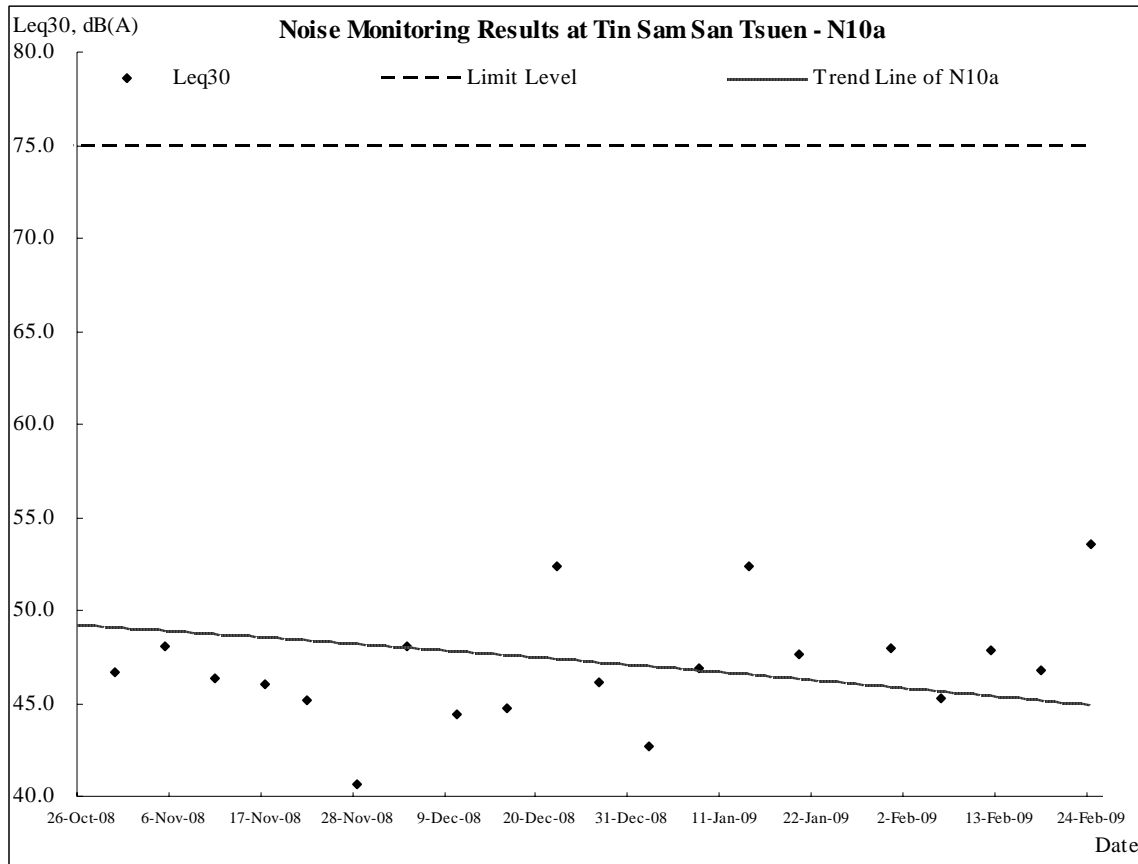
APPENDIX H

GRAPHICAL PLOTS OF AIR QUALITY, CONSTRUCTION NOISE AND STREAM WATER QUALITY MONITORING RESULTS

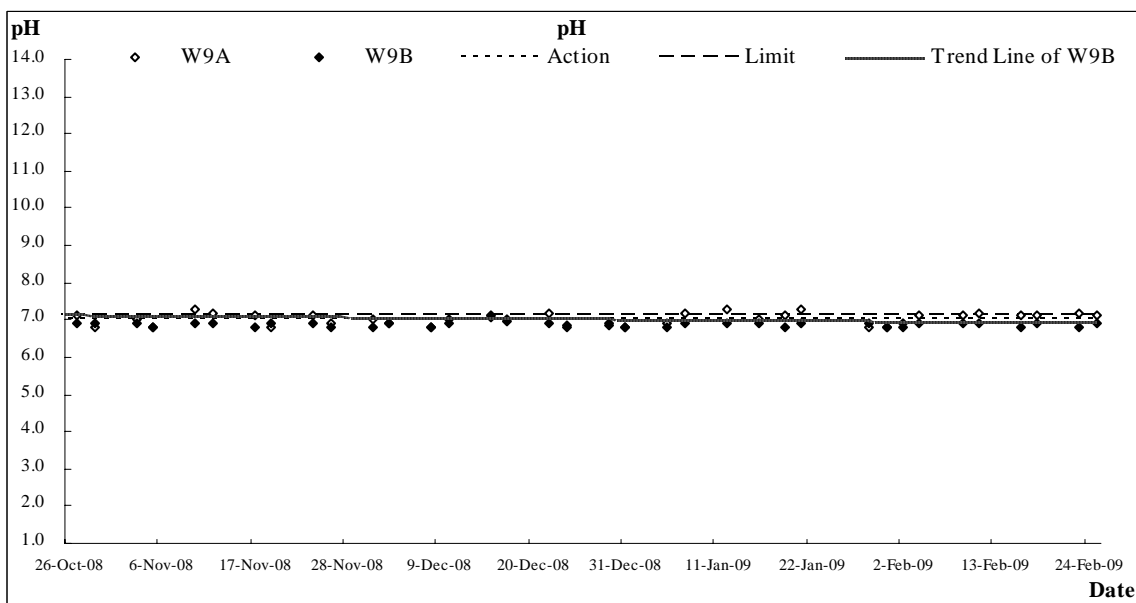
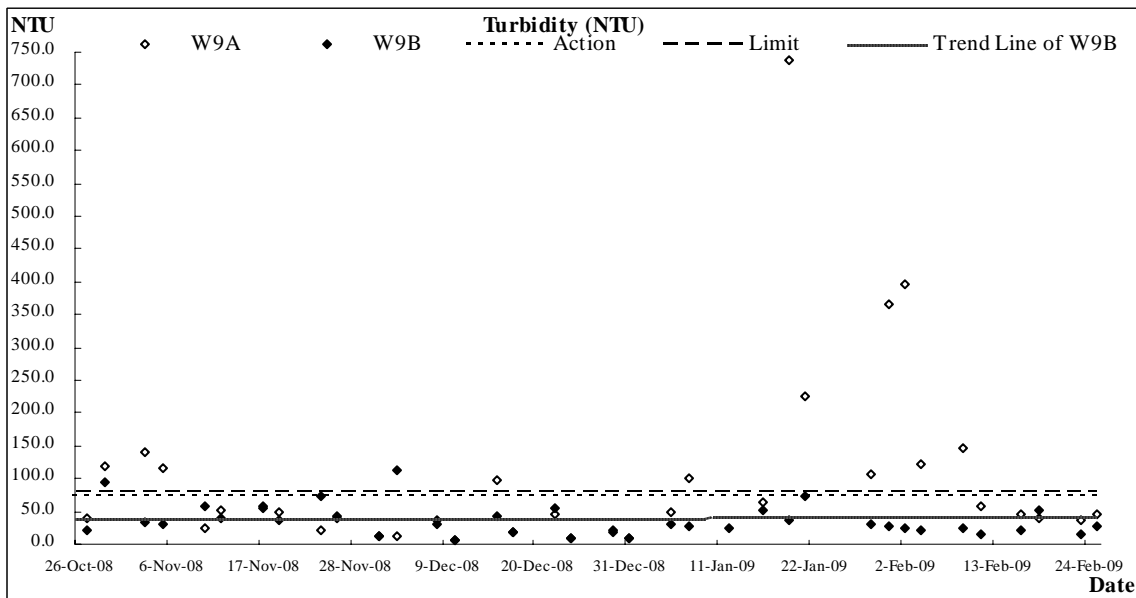
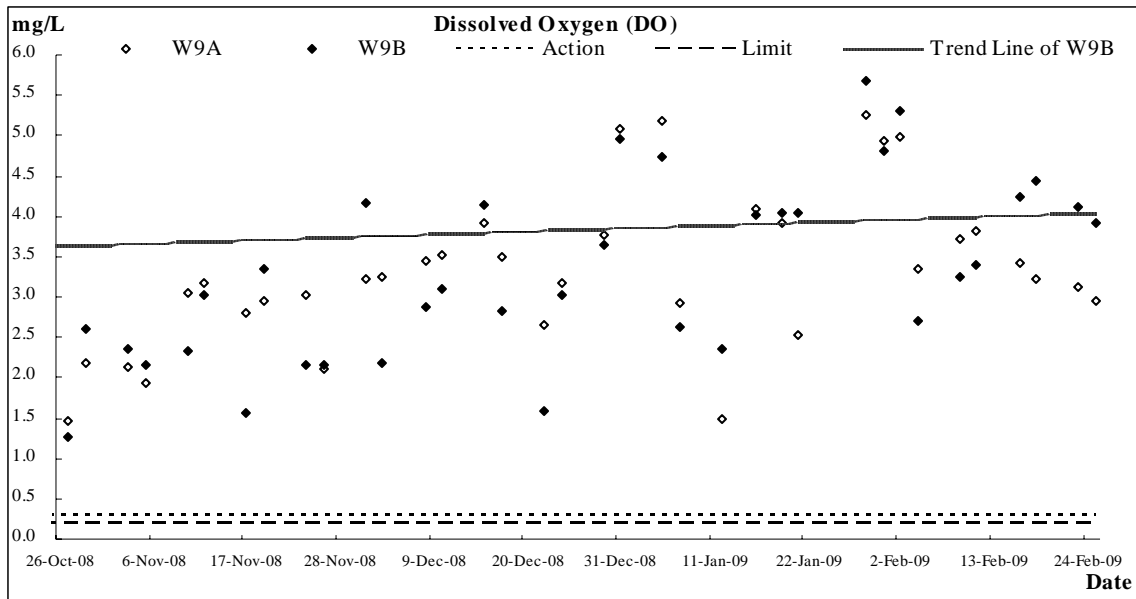
AIR QUALITY

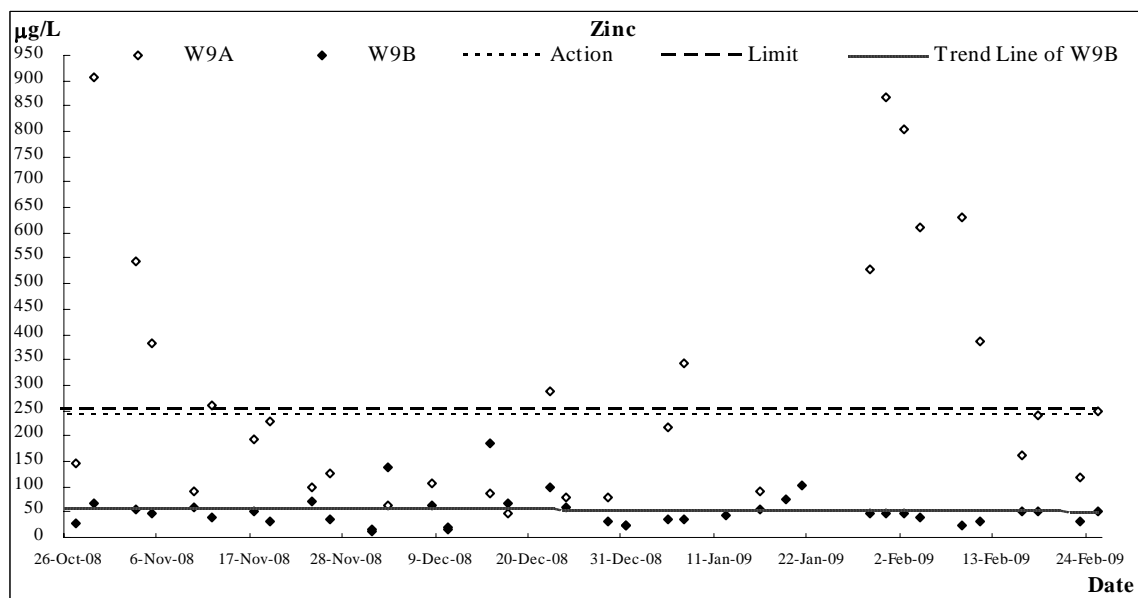
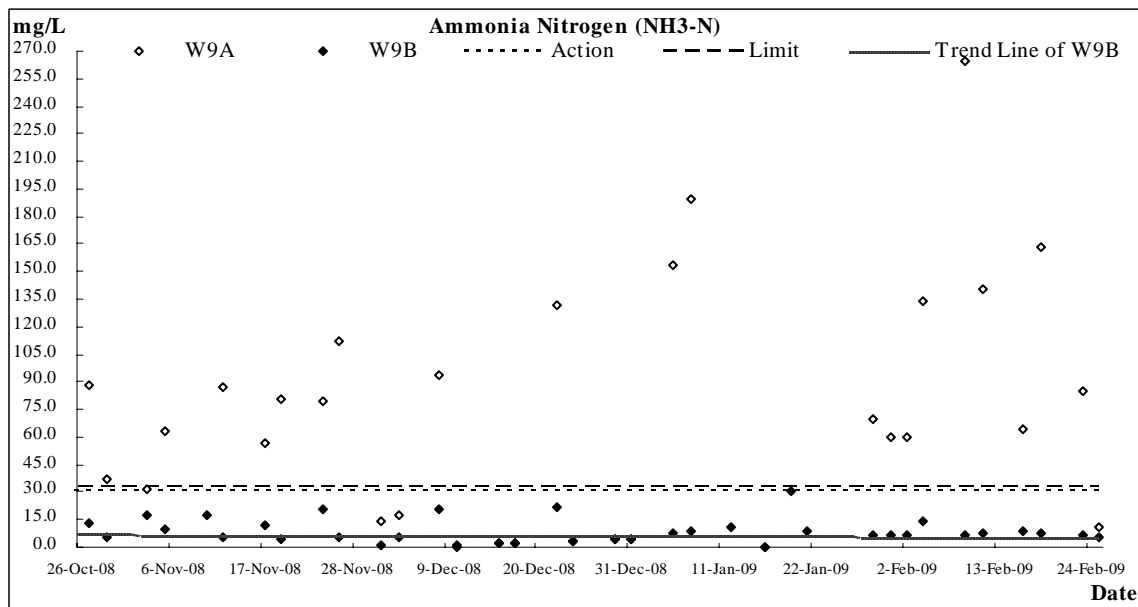
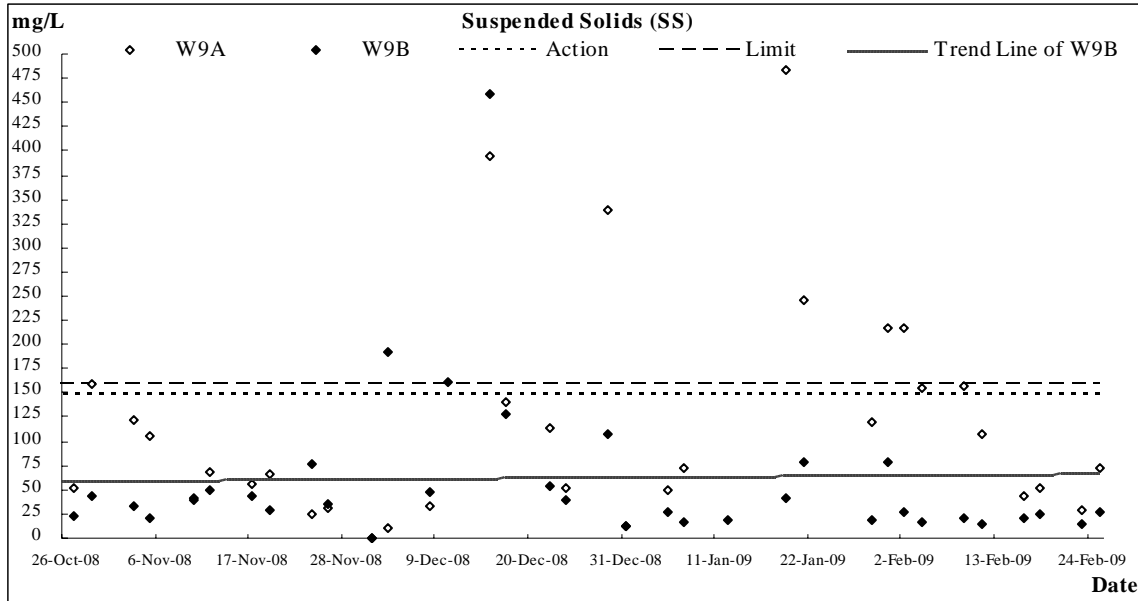


CONSTRUCTION NOISE



STREAM WATER QUALITY





| Date 29-Jan-09 | | | | | | | | | | | | | | | | | |
|----------------|-------|-----------|-----------|------|-----------|------|---------|------|-----------------|-------|----------|-----|------|------|-------|-------|-------|
| Location | Time | Depth (m) | Temp (oC) | | DO (mg/L) | | DOS (%) | | Turbidity (NTU) | | Salinity | | pH | | SS | NH3-N | Zinc |
| W9A | 10:45 | 0.16 | 17.3 | 17.3 | 5.21 | 5.25 | 56.3 | 56.7 | 108.0 | 107.0 | 0 | 0.0 | 6.80 | 6.80 | 120.0 | 70.1 | 530.0 |
| | | | 17.3 | | 5.29 | | 57.1 | | 106.0 | | 0 | | 6.80 | | | | |
| W9B | 10:55 | 0.22 | 18.3 | 18.3 | 5.71 | 5.68 | 60.2 | 59.8 | 29.5 | 29.1 | 0 | 0.0 | 6.90 | 6.90 | 19.0 | 6.7 | 49.0 |
| | | | 18.3 | | 5.64 | | 59.4 | | 28.7 | | 0 | | 6.90 | | | | |

| Date 31-Jan-09 | | | | | | | | | | | | | | | | | |
|----------------|-------|-----------|-----------|------|-----------|------|---------|------|-----------------|-------|----------|-----|------|------|-------|-------|-------|
| Location | Time | Depth (m) | Temp (oC) | | DO (mg/L) | | DOS (%) | | Turbidity (NTU) | | Salinity | | pH | | SS | NH3-N | Zinc |
| W9A | 09:10 | 0.16 | 19.1 | 19.1 | 4.97 | 4.94 | 51.7 | 51.1 | 366.0 | 367.0 | 0 | 0.0 | 6.80 | 6.80 | 216.0 | 60.3 | 868.0 |
| | | | 19.1 | | 4.9 | | 50.4 | | 368.0 | | 0 | | 6.80 | | | | |
| W9B | 09:20 | 0.21 | 19.5 | 19.5 | 4.84 | 4.82 | 48.6 | 48.4 | 26.9 | 27.2 | 0 | 0.0 | 6.80 | 6.80 | 79.0 | 6.8 | 49.0 |
| | | | 19.5 | | 4.8 | | 48.1 | | 27.5 | | 0 | | 6.80 | | | | |

| Date 2-Feb-09 | | | | | | | | | | | | | | | | | |
|---------------|-------|-----------|-----------|------|-----------|------|---------|------|-----------------|-------|----------|-----|------|------|-------|-------|-------|
| Location | Time | Depth (m) | Temp (oC) | | DO (mg/L) | | DOS (%) | | Turbidity (NTU) | | Salinity | | pH | | SS | NH3-N | Zinc |
| W9A | 09:45 | 0.14 | 19.6 | 19.6 | 5.02 | 4.99 | 52.1 | 51.6 | 398.0 | 396.5 | 0 | 0.0 | 6.90 | 6.90 | 216.0 | 59.4 | 806.0 |
| | | | 19.6 | | 4.95 | | 51.1 | | 395.0 | | 0 | | 6.90 | | | | |
| W9B | 09:55 | 0.23 | 20.0 | 20.0 | 5.26 | 5.30 | 54.9 | 55.3 | 25.1 | 25.9 | 0 | 0.0 | 6.80 | 6.80 | 26.0 | 6.3 | 47.0 |
| | | | 20.0 | | 5.33 | | 55.7 | | 26.7 | | 0 | | 6.80 | | | | |

| Date 4-Feb-09 | | | | | | | | | | | | | | | | | |
|---------------|-------|-----------|-----------|------|-----------|------|---------|------|-----------------|-------|----------|-----|------|------|-------|-------|-------|
| Location | Time | Depth (m) | Temp (oC) | | DO (mg/L) | | DOS (%) | | Turbidity (NTU) | | Salinity | | pH | | SS | NH3-N | Zinc |
| W9A | 10:15 | 0.17 | 18.1 | 18.1 | 3.37 | 3.36 | 36.3 | 36.1 | 124.0 | 123.0 | 0 | 0.0 | 7.10 | 7.10 | 154.0 | 134.0 | 611.0 |
| | | | 18.1 | | 3.34 | | 35.8 | | 122.0 | | 0 | | 7.10 | | | | |
| W9B | 10:00 | 0.26 | 18.3 | 18.3 | 2.68 | 2.71 | 28.5 | 28.8 | 20.2 | 20.6 | 0 | 0.0 | 6.90 | 6.90 | 16.0 | 14.5 | 38.0 |
| | | | 18.3 | | 2.73 | | 29.1 | | 20.9 | | 0 | | 6.90 | | | | |

| Date 9-Feb-09 | | | | | | | | | | | | | | | | | |
|---------------|-------|-----------|-----------|------|-----------|------|---------|------|-----------------|-------|----------|-----|------|------|-------|-------|-------|
| Location | Time | Depth (m) | Temp (oC) | | DO (mg/L) | | DOS (%) | | Turbidity (NTU) | | Salinity | | pH | | SS | NH3-N | Zinc |
| W9A | 11:40 | 0.16 | 20.0 | 20.0 | 3.7 | 3.73 | 40.5 | 40.9 | 146.0 | 145.5 | 0 | 0.0 | 7.10 | 7.10 | 157.0 | 265.0 | 630.0 |
| | | | 20.0 | | 3.76 | | 41.3 | | 145.0 | | 0 | | 7.10 | | | | |
| W9B | 11:30 | 0.23 | 22.0 | 22.0 | 3.26 | 3.25 | 37.4 | 37.3 | 24.0 | 24.2 | 0 | 0.0 | 6.90 | 6.90 | 21.0 | 6.0 | 23.0 |
| | | | 22.0 | | 3.24 | | 37.1 | | 24.3 | | 0 | | 6.90 | | | | |

| Date | | | | | | | | | | | | | | | | | |
|-----------|-------|-----------|-----------|------|-----------|------|---------|------|-----------------|------|----------|-----|------|------|-------|-------|-------|
| 11-Feb-09 | | | | | | | | | | | | | | | | | |
| Location | Time | Depth (m) | Temp (oC) | | DO (mg/L) | | DOS (%) | | Turbidity (NTU) | | Salinity | | pH | | SS | NH3-N | Zinc |
| W9A | 14:30 | 0.16 | 20.6 | 20.6 | 3.86 | 3.83 | 43.4 | 43.1 | 58.3 | 58.1 | 0 | 0.0 | 7.20 | 7.20 | 107.0 | 140.0 | 386.0 |
| | | | 20.6 | | 3.8 | | 42.7 | | 57.8 | | 0 | | 7.20 | | | | |
| W9B | 14:40 | 0.20 | 21.2 | 21.2 | 3.37 | 3.39 | 38.8 | 39.2 | 14.8 | 14.7 | 0 | 0.0 | 6.90 | 6.90 | 15.0 | 7.6 | 30.0 |
| | | | 21.2 | | 3.41 | | 39.5 | | 14.6 | | 0 | | 6.90 | | | | |

| Date | | | | | | | | | | | | | | | | | |
|-----------|-------|-----------|-----------|------|-----------|------|---------|------|-----------------|------|----------|-----|------|------|------|-------|-------|
| 16-Feb-09 | | | | | | | | | | | | | | | | | |
| Location | Time | Depth (m) | Temp (oC) | | DO (mg/L) | | DOS (%) | | Turbidity (NTU) | | Salinity | | pH | | SS | NH3-N | Zinc |
| W9A | 10:00 | 0.10 | 21.7 | 21.7 | 3.45 | 3.43 | 37.4 | 37.1 | 47.1 | 46.8 | 0 | 0.0 | 7.10 | 7.10 | 43.0 | 63.7 | 160.0 |
| | | | 21.7 | | 3.41 | | 36.8 | | 46.4 | | 0 | | 7.10 | | | | |
| W9B | 10:10 | 0.22 | 22.1 | 22.1 | 4.26 | 4.23 | 46.7 | 46.3 | 21.1 | 20.9 | 0 | 0.0 | 6.80 | 6.80 | 21.0 | 8.6 | 52.0 |
| | | | 22.1 | | 4.2 | | 45.9 | | 20.6 | | 0 | | 6.80 | | | | |

| Date | | | | | | | | | | | | | | | | | |
|-----------|-------|-----------|-----------|------|-----------|------|---------|------|-----------------|------|----------|-----|------|------|------|-------|-------|
| 18-Feb-09 | | | | | | | | | | | | | | | | | |
| Location | Time | Depth (m) | Temp (oC) | | DO (mg/L) | | DOS (%) | | Turbidity (NTU) | | Salinity | | pH | | SS | NH3-N | Zinc |
| W9A | 10:05 | 0.13 | 22.6 | 22.6 | 3.21 | 3.24 | 38.5 | 38.9 | 38.5 | 38.4 | 0 | 0.0 | 7.10 | 7.10 | 51.0 | 163.0 | 242.0 |
| | | | 22.6 | | 3.26 | | 39.2 | | 38.2 | | 0 | | 7.10 | | | | |
| W9B | 10:20 | 0.23 | 22.9 | 22.9 | 4.41 | 4.44 | 51.3 | 51.8 | 51.3 | 52.0 | 0 | 0.0 | 6.90 | 6.90 | 24.0 | 7.8 | 51 |
| | | | 22.9 | | 4.47 | | 52.2 | | 52.6 | | 0 | | 6.90 | | | | |

| Date | | | | | | | | | | | | | | | | | |
|-----------|-------|-----------|-----------|------|-----------|------|---------|------|-----------------|------|----------|-----|------|------|------|-------|-------|
| 23-Feb-09 | | | | | | | | | | | | | | | | | |
| Location | Time | Depth (m) | Temp (oC) | | DO (mg/L) | | DOS (%) | | Turbidity (NTU) | | Salinity | | pH | | SS | NH3-N | Zinc |
| W9A | 09:20 | 0.16 | 22.1 | 22.1 | 3.13 | 3.13 | 35.2 | 35.1 | 35.2 | 35.5 | 0 | 0.0 | 7.20 | 7.20 | 29.0 | 84.8 | 120.0 |
| | | | 22.1 | | 3.12 | | 35.0 | | 35.8 | | 0 | | 7.20 | | | | |
| W9B | 09:30 | 0.22 | 23.4 | 23.4 | 4.08 | 4.11 | 46.9 | 47.2 | 16.8 | 16.5 | 0 | 0.0 | 6.80 | 6.80 | 15.0 | 6.6 | 32.0 |
| | | | 23.4 | | 4.13 | | 47.5 | | 16.1 | | 0 | | 6.80 | | | | |

| Date | | | | | | | | | | | | | | | | | |
|-----------|-------|-----------|-----------|------|-----------|------|---------|------|-----------------|------|----------|-----|------|------|------|-------|-------|
| 25-Feb-09 | | | | | | | | | | | | | | | | | |
| Location | Time | Depth (m) | Temp (oC) | | DO (mg/L) | | DOS (%) | | Turbidity (NTU) | | Salinity | | pH | | SS | NH3-N | Zinc |
| W9A | 09:45 | 0.13 | 22.9 | 22.9 | 2.98 | 2.95 | 33.7 | 33.3 | 43.9 | 44.5 | 0 | 0.0 | 7.10 | 7.10 | 72.0 | 11.0 | 248.0 |
| | | | 22.9 | | 2.91 | | 32.9 | | 45.0 | | 0 | | 7.10 | | | | |
| W9B | 09:55 | 0.24 | 23.8 | 23.8 | 3.89 | 3.91 | 42.6 | 42.9 | 27.5 | 27.3 | 0 | 0.0 | 6.90 | 6.90 | 26.0 | 6.0 | 52.0 |
| | | | 23.8 | | 3.93 | | 43.2 | | 27.1 | | 0 | | 6.90 | | | | |

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-Jan-09 | Mon | Holiday | | | | | |
| 27-Jan-09 | Tue | Holiday | | | | | |
| 28-Jan-09 | Wed | Holiday | | | | | |
| 29-Jan-09 | Thu | cloudy/haze/sunny intervals/moderate | 0 | 14.9 | 12 | 72 | W/SW |
| 30-Jan-09 | Fri | fine/dry/moderate/fresh | 0 | 16.1 | 14.5 | 75.5 | W/NW |
| 31-Jan-09 | Sat | fine/cloudy/moderate/fresh | 0 | 17.4 | 18.5 | 58.5 | E/NE |
| 1-Feb-09 | Sun | sunny periods/moderate/fresh | Trace | 20.4 | 13.5 | 57.5 | E |
| 2-Feb-09 | Mon | fine/moderate | 0 | 20.5 | 10.5 | 58.7 | E/NE |
| 3-Feb-09 | Tue | fine/haze/light winds | 0 | 17.8 | 13 | 67.5 | E/SE |
| 4-Feb-09 | Wed | sunny periods/cloudy/moderate/fresh | 0 | 19.9 | 11.7 | 67.2 | E/SE |
| 5-Feb-09 | Thu | fine/haze/moderate | 0 | 18.3 | 13.2 | 68.7 | E/NE |
| 6-Feb-09 | Fri | fine/moderate/fresh | 0 | 19.5 | 11.2 | 73 | E/SE |
| 7-Feb-09 | Sat | fine/haze/moderate | 0 | 19.7 | 14.5 | 68 | E/SE |
| 8-Feb-09 | Sun | fine/haze/moderate | 0 | 22 | 10 | 61 | E/SE |
| 9-Feb-09 | Mon | fine/moderate/haze | 0 | 20.2 | 13.5 | 67.5 | E/NE |
| 10-Feb-09 | Tue | fine/hazy/moderate/fresh | 0 | 27.3 | 13.5 | 67 | E/SE |
| 11-Feb-09 | Wed | fine/hazy/light winds | 0 | 19.2 | 10.5 | 66 | E/SE |
| 12-Feb-09 | Thu | fine/misty/moderate | 0 | 22.2 | 15.5 | 70.5 | S/SE |
| 13-Feb-09 | Fri | cloudy/warm/sunny intervals/moderate | 0 | 23.9 | 15.5 | 68 | S/SE |
| 14-Feb-09 | Sat | cloudy/rain/fog/moderate | Trace | 24.5 | 16 | 79.5 | S/SE |
| 15-Feb-09 | Sun | cloudy/rain/mist/strong | 0.1 | 24.3 | 18 | 79 | E/NE |
| 16-Feb-09 | Mon | Cloudy/rain/mist/fresh/strong | 0.06 | 23.5 | 14.5 | 73.5 | E |
| 17-Feb-09 | Tue | sunny periods/fresh/strong | Trace | 20.2 | 15 | 68.5 | E/NE |
| 18-Feb-09 | Wed | sunny periods/cloudy/moderate | Trace | 21.5 | 10.5 | 63.5 | E/NE |
| 19-Feb-09 | Thu | cloudy/ain/moderate | 0.3 | 23 | 13 | 74.5 | E/NE |
| 20-Feb-09 | Fri | cloudy/bright/moderate/fresh | Trace | 20.9 | 19 | 73.5 | E/NE |
| 21-Feb-09 | Sat | sunny intervals/rain/fresh/strong | Trace | 22.6 | 12 | 64.5 | E/SE |
| 22-Feb-09 | Sun | fog/sunny periods/moderate | Trace | 24.6 | 26.5 | 67 | S/SE |
| 23-Feb-09 | Mon | cloudy/fog/sunny periods/moderate | 0 | 26 | 15 | 72.5 | S/SE |
| 24-Feb-09 | Tue | cloudy/sunny periods/mist/moderate | Trace | 26.7 | 17 | 71 | S/SE |
| 25-Feb-09 | Wed | sunny periods/cloudy/fog/moderate | Trace | 12 | 13.5 | 69.2 | S/SE |

APPENDIX J

ENVIRONMENTAL TEAM SITE INSPECTION CHECKLISTS

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 Tsui Wai

Inspected by _____
RE/RE's representative: Mr. A. F. Ng
IEC/IEC's representative: _____
ETL/ ET's representative: Ben Tam
Contractor's representative: M. K. Ng / K. M. Lui
Checklist No. KT15-290109

Inspection
Date: 29 January 2009
Time: 14:30

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

Weather: Sunny Fine Cloudy Rainy
 Temperature: 14.9 °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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 1.02 | Is the effluent discharged in accordance with the discharge licence? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 1.03 | Is the discharge of turbid water avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 1.04 | Are there proper desilting facilities in the drainage systems to reduce SS levels in effluent? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 1.05 | Are there channels, sandbags or bunds to direct surface run-off to sedimentation tanks? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 1.06 | Are there any perimeter channels provided at site boundaries to intercept storm runoff from crossing the site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 1.07 | Is drainage system well maintained? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 1.08 | As excavation proceeds, are temporary access roads protected by crushed stone or gravel? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 1.09 | Are temporary exposed slopes properly covered? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 1.10 | Are earthworks final surfaces well compacted or protected? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 1.11 | Are manholes adequately covered or temporarily sealed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 1.12 | Are there any procedures and equipment for rainstorm protection? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 1.13 | Are wheel washing facilities well maintained? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 1.14 | Is runoff from wheel washing facilities avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 1.15 | Are there toilets provided on site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 1.16 | Are toilets properly maintained? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 1.17 | Are the vehicle and plant servicing areas paved and located within roofed areas? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 1.18 | Is the oil leakage or spillage avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 1.19 | Are there any measures to prevent leaked oil from entering the drainage system? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 1.20 | Are there any measures to collect spilt cement and concrete washings during concreting works? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 1.21 | Are there any oil interceptors/grease traps in the drainage systems for vehicle and plant servicing areas, canteen kitchen, etc? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |

Environmental Site Inspection Checklist for KT15



| | Not Obs. | Yes | No | Follow up | N/A | Photo/Remarks |
|-------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|---------------|
| 1.22 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 1.23 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 1.24 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.25 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.26 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.27 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.28 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.29 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Section 2: Air Quality | | | | | | |
| 2.01 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.02 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.03 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.04 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.05 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.06 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.07 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.08 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.09 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.10 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.11 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.12 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.13 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.14 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.15 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.16 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Section 3: Noise | | | | | | |
| 3.01 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.02 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.03 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.04 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.05 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.06 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

Environmental Site Inspection Checklist for KT15

| | Not Obs. | Yes | No | Follow up | N/A | Photo/Remarks |
|---------------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|---------------|
| 3.07 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.08 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.09 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3.10 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3.11 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3.12 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.13 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.14 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Section 4: Waste/Chemical Management | | | | | | |
| 4.01 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.02 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.03 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.04 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.05 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.06 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.07 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.08 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.09 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.10 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.11 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.12 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.13 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.14 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.15 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.16 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.17 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.18 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.19 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.20 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.21 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.22 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

Environmental Site Inspection Checklist for KT15

| | 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. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Section 5: Landscape & Visual | | | | | | |
| 5.01 Are retained and transplanted trees in health condition? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 5.02 Are retained and transplanted trees properly protected? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 5.03 Are surgery works carried out for the damaged trees? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 5.04 Is damage to trees outside site boundary due to construction activities avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 5.05 Is the night-time lighting controlled to minimize glare to sensitive receivers? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Section 6: Ecology | | | | | | |
| 6.01 Gabion banks and base had been provide for channel linings and banks for typical sections of KT15? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 6.02 Prevent site effluent/runoff discharge to the seasonal wetlands at KT15? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 6.03 Stockpiling or disposal of materials, and any dredging or construction activities at the seasonal wetlands at KT15 are prohibited? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Section 7: Others | | | | | | |
| 7.01 Are relevant Environmental Permits posted at all vehicle site entrances/exits? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |




Remarks

Follow-Up of Last Site Inspection (21 January 2009):

Nil.

Finding of Site Inspection on 29 January 2009:

No environmental issue was observed during the site inspection.

| <i>RE's representative</i> | <i>IEC's representative</i> | <i>ET's representative</i> | <i>Contractor's representative</i> |
|----------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| () | () | ( Ben Tam) | () |

Environmental Site Inspection Checklist for KT15

| | | | |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------------|
| Project: | <u>Contract No.: DC/2006/02</u> <u>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</u> | Inspected by | |
| Inspection | | RE/RE's representative: | <u>Mr. A. F. Ng</u> |
| Date: | <u>04 February 2009</u> | IEC/IEC's representative: | <u></u> |
| Time: | <u>14:30</u> | ETL/ ET's representative: | <u>Ben Tam</u> |
| | | Contractor's representative: | <u>M. K. Ng / K. M. Lui</u> |
| | | Checklist No. | <u>KT15-040209</u> |

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

Weather: Sunny Fine Cloudy Rainy

Temperature: °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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.02 | Is the effluent discharged in accordance with the discharge licence? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.03 | Is the discharge of turbid water avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.04 | Are there proper desilting facilities in the drainage systems to reduce SS levels in effluent? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.05 | Are there channels, sandbags or bunds to direct surface run-off to sedimentation tanks? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.06 | Are there any perimeter channels provided at site boundaries to intercept storm runoff from crossing the site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.07 | Is drainage system well maintained? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.08 | As excavation proceeds, are temporary access roads protected by crushed stone or gravel? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.09 | Are temporary exposed slopes properly covered? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.10 | Are earthworks final surfaces well compacted or protected? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.11 | Are manholes adequately covered or temporarily sealed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.12 | Are there any procedures and equipment for rainstorm protection? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.13 | Are wheel washing facilities well maintained? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.14 | Is runoff from wheel washing facilities avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.15 | Are there toilets provided on site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.16 | Are toilets properly maintained? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.17 | Are the vehicle and plant servicing areas paved and located within roofed areas? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.18 | Is the oil leakage or spillage avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.19 | Are there any measures to prevent leaked oil from entering the drainage system? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.20 | Are there any measures to collect spilt cement and concrete washings during concreting works? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.21 | Are there any oil interceptors/grease traps in the drainage systems for vehicle and plant servicing areas, canteen kitchen, etc? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

Environmental Site Inspection Checklist for KT15

| | Not Obs. | Yes | No | Follow up | N/A | Photo/Remarks |
|-------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|---------------|
| 1.22 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 1.23 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 1.24 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.25 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.26 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.27 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.28 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.29 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Section 2: Air Quality | | | | | | |
| 2.01 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.02 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.03 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.04 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.05 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.06 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.07 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.08 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.09 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.10 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.11 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.12 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.13 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.14 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.15 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.16 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Section 3: Noise | | | | | | |
| 3.01 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.02 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.03 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.04 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.05 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.06 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

Environmental Site Inspection Checklist for KT15

| | Not Obs. | Yes | No | Follow up | N/A | Photo/Remarks |
|---------------------------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|---------------|
| 3.07 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.08 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.09 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3.10 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3.11 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3.12 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.13 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.14 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Section 4: Waste/Chemical Management | | | | | | |
| 4.01 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.02 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.03 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.04 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.05 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.06 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.07 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.08 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.09 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.10 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.11 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.12 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.13 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.14 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.15 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.16 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.17 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.18 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.19 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.20 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.21 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.22 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

Environmental Site Inspection Checklist for KT15

| | 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. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Section 5: Landscape & Visual | | | | | | |
| 5.01 Are retained and transplanted trees in health condition? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 5.02 Are retained and transplanted trees properly protected? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 5.03 Are surgery works carried out for the damaged trees? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 5.04 Is damage to trees outside site boundary due to construction activities avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 5.05 Is the night-time lighting controlled to minimize glare to sensitive receivers? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Section 6: Ecology | | | | | | |
| 6.01 Gabion banks and base had been provide for channel linings and banks for typical sections of KT15? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 6.02 Prevent site effluent/runoff discharge to the seasonal wetlands at KT15? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 6.03 Stockpiling or disposal of materials, and any dredging or construction activities at the seasonal wetlands at KT15 are prohibited? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Section 7: Others | | | | | | |
| 7.01 Are relevant Environmental Permits posted at all vehicle site entrances/exits? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |

Remarks

Follow-Up of Last Site Inspection (29 January 2009):

Nil.

Finding of Site Inspection on 04 February 2009:



1. C&D material scattered on site was observed at CH-230, the Contractor was reminded to improve the housekeeping.

RE's representative

()

IEC's representative

()

ET's representative

(
Ben Tam)

Contractor's representative

()

Environmental Site Inspection Checklist for KT15

| | | | |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------------|
| Project: | <u>Contract No.: DC/2006/02</u> <u>Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B – Cheung Chun San Tsuen and Kam Tsui Wai</u> | Inspected by | |
| Inspection | | RE/RE's representative: | <u>Mr. A. F. Ng</u> |
| Date: | <u>12 February 2009</u> | IEC/IEC's representative: | <u></u> |
| Time: | <u>14:30</u> | ETL/ ET's representative: | <u>Ben Tam</u> |
| | | Contractor's representative: | <u>M. K. Ng / K. M. Lui</u> |
| | | Checklist No. | <u>KT15-120209</u> |

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

Weather: Sunny Fine Cloudy Rainy

Temperature: °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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.02 | Is the effluent discharged in accordance with the discharge licence? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.03 | Is the discharge of turbid water avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.04 | Are there proper desilting facilities in the drainage systems to reduce SS levels in effluent? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.05 | Are there channels, sandbags or bunds to direct surface run-off to sedimentation tanks? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.06 | Are there any perimeter channels provided at site boundaries to intercept storm runoff from crossing the site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.07 | Is drainage system well maintained? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.08 | As excavation proceeds, are temporary access roads protected by crushed stone or gravel? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.09 | Are temporary exposed slopes properly covered? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.10 | Are earthworks final surfaces well compacted or protected? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.11 | Are manholes adequately covered or temporarily sealed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.12 | Are there any procedures and equipment for rainstorm protection? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.13 | Are wheel washing facilities well maintained? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
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| 1.15 | Are there toilets provided on site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.16 | Are toilets properly maintained? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.17 | Are the vehicle and plant servicing areas paved and located within roofed areas? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.18 | Is the oil leakage or spillage avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
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| 1.21 | Are there any oil interceptors/grease traps in the drainage systems for vehicle and plant servicing areas, canteen kitchen, etc? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

Environmental Site Inspection Checklist for KT15

| | Not Obs. | Yes | No | Follow up | N/A | Photo/Remarks |
|-------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|---------------|
| 1.22 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 1.23 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 1.24 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.25 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.26 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.27 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.28 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.29 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Section 2: Air Quality | | | | | | |
| 2.01 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.02 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.03 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.04 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.05 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.06 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.07 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.08 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.09 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.10 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.11 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.12 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.13 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.14 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.15 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.16 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Section 3: Noise | | | | | | |
| 3.01 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.02 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.03 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.04 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.05 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.06 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

Environmental Site Inspection Checklist for KT15

| | Not Obs. | Yes | No | Follow up | N/A | Photo/Remarks |
|---------------------------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|---------------|
| 3.07 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.08 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.09 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3.10 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3.11 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3.12 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.13 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.14 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Section 4: Waste/Chemical Management | | | | | | |
| 4.01 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.02 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.03 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.04 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.05 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.06 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.07 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.08 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.09 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.10 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.11 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.12 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.13 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.14 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.15 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.16 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.17 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Remarks 1 |
| 4.18 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.19 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.20 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.21 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.22 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

Environmental Site Inspection Checklist for KT15

| | 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. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Section 5: Landscape & Visual | | | | | | |
| 5.01 Are retained and transplanted trees in health condition? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 5.02 Are retained and transplanted trees properly protected? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 5.03 Are surgery works carried out for the damaged trees? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 5.04 Is damage to trees outside site boundary due to construction activities avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 5.05 Is the night-time lighting controlled to minimize glare to sensitive receivers? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Section 6: Ecology | | | | | | |
| 6.01 Gabion banks and base had been provide for channel linings and banks for typical sections of KT15? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 6.02 Prevent site effluent/runoff discharge to the seasonal wetlands at KT15? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 6.03 Stockpiling or disposal of materials, and any dredging or construction activities at the seasonal wetlands at KT15 are prohibited? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Section 7: Others | | | | | | |
| 7.01 Are relevant Environmental Permits posted at all vehicle site entrances/exits? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |

Remarks

Follow-Up of Last Site Inspection (04 February 2009):

C&D material at CH230 had been tidy up.

Finding of Site Inspection on 12 February 2009:



1. C&D waste was observed at CH-240, the Contractor was reminded to improve the housekeeping and dispose more frequency.

RE's representative

()

IEC's representative

()

ET's representative

(
Ben Tam)

Contractor's representative

()

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

Inspected by

Inspection

RE's representative:

Date:

IEC's representative:

Time:

ET's representative:

Contractor's representative:

Checklist No.

Joe Chan
Cyrus Lam
Ben Tam
K.M. Law

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

Weather: Sunny Fine Cloudy Rainy
Temperature: 22 °C
Humidity: High Moderate Low
Wind: Strong Breeze Light Calm

PART B: SITE AUDIT

Section 1: Water Quality

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

Environmental Site Inspection Checklist for KT15

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

Environmental Site Inspection Checklist for KT15

| | Not Obs. | Yes | No | Follow up | N/A | Photo/Remarks |
|---------------------------------------------|--------------------------|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|---------------|
| 3.10 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3.11 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3.12 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.13 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.14 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Section 4: Waste/Chemical Management | | | | | | |
| 4.01 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.02 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.03 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.04 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.05 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.06 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.07 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.08 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.09 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.10 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.11 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.12 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.13 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.14 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.15 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.16 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.17 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Remarks (3) |
| 4.18 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.19 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.20 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.21 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.22 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.23 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Section 5: Landscape & Visual | | | | | | |
| 5.01 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 5.03 Are surgery works carried out for the damaged trees? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 5.04 Is damage to trees outside site boundary due to construction activities avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 5.05 Is the night-time lighting controlled to minimize glare to sensitive receivers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Section 6: Ecology | | | | | | |
| 6.01 Are gabion banks and base provided for channel linings and banks for typical sections of KT15? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 6.02 Is site effluent/runoff discharge to the seasonal wetlands at KT15 prevented? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 6.03 Are stockpiling or disposal of materials, and any dredging or construction activities at the seasonal wetlands at KT15 prohibited? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Section 7: Others | | | | | | |
| 7.01 Are relevant Environmental Permits posted at all vehicle site entrances/exits? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

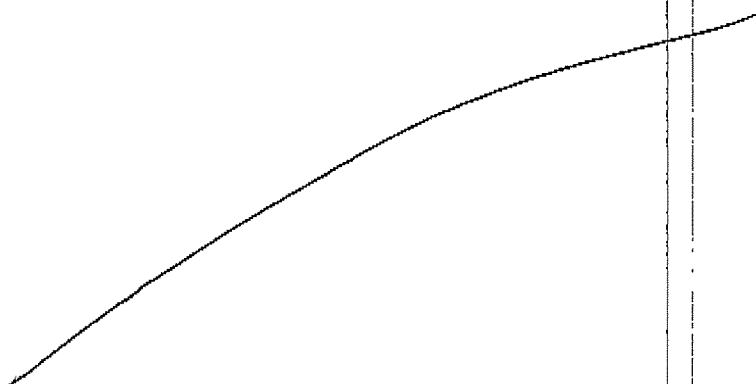
< Follow up observation >:

① Sedimentation tanks at WQB had been modified to increase the retention time of effluent. The water quality is acceptable. (closed)

② Regular water spraying by water trucks on haul roads had been implemented (closed).

< New observations >:

③ House keeping at Charnage 230 should be properly maintained & regular disposal of accumulated C & D wastes on site should be carried out.



Environmental Site Inspection Checklist for KT15

Remarks

[A large diagonal line is drawn across the main body of the page, likely indicating that the checklist items are not applicable or have been reviewed.]

RE's representative

IEC's representative

ET's representative

Contractor's representative

[Handwritten signature]

Joe Chan

[Handwritten signature]

Nyous Lam

[Handwritten signature]

Ben Tam

[Handwritten signature]

K.M.L. Ng

Environmental Site Inspection Checklist for KT15

| | | | |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------------|
| Project: | <u>Contract No.: DC/2006/02</u> <u>Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B – Cheung Chun San Tsuen and Kam Tsui Wai</u> | Inspected by | |
| Inspection | | RE/RE's representative: | <u>Joe Chan</u> |
| Date: | <u>18 February 2009</u> | IEC/IEC's representative: | <u>Cyrus Lau</u> |
| Time: | <u>09:30</u> | ETL/ ET's representative: | <u>Ben Tam</u> |
| | | Contractor's representative: | <u>M. K. Ng / K. M. Lui</u> |
| | | Checklist No. | <u>KT15-180209</u> |

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

Weather: Sunny Fine Cloudy Rainy

Temperature: °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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.02 | Is the effluent discharged in accordance with the discharge licence? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.03 | Is the discharge of turbid water avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.04 | Are there proper desilting facilities in the drainage systems to reduce SS levels in effluent? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.05 | Are there channels, sandbags or bunds to direct surface run-off to sedimentation tanks? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.06 | Are there any perimeter channels provided at site boundaries to intercept storm runoff from crossing the site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.07 | Is drainage system well maintained? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.08 | As excavation proceeds, are temporary access roads protected by crushed stone or gravel? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.09 | Are temporary exposed slopes properly covered? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.10 | Are earthworks final surfaces well compacted or protected? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.11 | Are manholes adequately covered or temporarily sealed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.12 | Are there any procedures and equipment for rainstorm protection? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.13 | Are wheel washing facilities well maintained? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.14 | Is runoff from wheel washing facilities avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.15 | Are there toilets provided on site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.16 | Are toilets properly maintained? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.17 | Are the vehicle and plant servicing areas paved and located within roofed areas? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.18 | Is the oil leakage or spillage avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.19 | Are there any measures to prevent leaked oil from entering the drainage system? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.20 | Are there any measures to collect spilt cement and concrete washings during concreting works? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.21 | Are there any oil interceptors/grease traps in the drainage systems for vehicle and plant servicing areas, canteen kitchen, etc? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

Environmental Site Inspection Checklist for KT15

| | Not Obs. | Yes | No | Follow up | N/A | Photo/Remarks |
|-------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|---------------|
| 1.22 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 1.23 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 1.24 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.25 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.26 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.27 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.28 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.29 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Section 2: Air Quality | | | | | | |
| 2.01 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.02 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.03 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.04 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.05 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.06 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.07 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.08 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.09 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.10 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.11 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.12 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.13 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.14 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.15 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.16 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Section 3: Noise | | | | | | |
| 3.01 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.02 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.03 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.04 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.05 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.06 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

Environmental Site Inspection Checklist for KT15

| | | Not Obs. | Yes | No | Follow up | N/A | Photo/Remarks |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|---------------|
| 3.07 | Are air compressors fitted with valid noise emission labels during operation? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.08 | Are flaps and panels of mechanical equipment closed during operation? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.09 | Are Construction Noise Permit(s) applied for percussive piling works? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3.10 | Are Construction Noise Permit(s) applied for general construction works during restricted hours? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3.11 | Are valid Construction Noise Permit(s) posted at site entrances? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 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). | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 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) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 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). | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Section 4: Waste/Chemical Management | | | | | | | |
| 4.01 | Waste Management Plan had been submit to Engineer for approval. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.02 | Are receptacles available for general refuse collection? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.03 | Is general refuse sorting or recycling implemented? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.04 | Is general refuse disposed of properly and regularly? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.05 | Is the Contractor registered as a chemical waste producer? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.06 | Are the chemical waste containers properly labelled? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.07 | Are the chemical wastes stored in proper storage areas? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.08 | Is the chemical waste storage area properly labelled? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.09 | Is the chemical waste storage area used for storage of chemical waste only? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.10 | Are incompatible chemical wastes stored in different areas? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.11 | Are the chemical wastes disposed of by licensed collectors? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.12 | Are trip tickets for chemical wastes disposal available for inspection? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.13 | Are chemical/fuel storage areas bunded? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.14 | Are designated areas identified for storage and sorting of construction wastes? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.15 | Are construction wastes sorted (inert and non-inert) on site? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.16 | Are construction wastes reused? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.17 | Are construction wastes disposed of properly? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.18 | Are site hoardings and signboards made of durable materials instead of timber? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.19 | Is trip ticket system implemented for the disposal of construction wastes and records available for inspection? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.20 | Are appropriate procedures followed if contaminated material exists? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.21 | Is relevant license/ permit for disposal of construction waste or excavated materials available for inspection? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.22 | Site cleanliness and appropriate waste management training had provided for the site workers. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

Environmental Site Inspection Checklist for KT15

| | 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. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Section 5: Landscape & Visual | | | | | | |
| 5.01 Are retained and transplanted trees in health condition? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 5.02 Are retained and transplanted trees properly protected? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 5.03 Are surgery works carried out for the damaged trees? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 5.04 Is damage to trees outside site boundary due to construction activities avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 5.05 Is the night-time lighting controlled to minimize glare to sensitive receivers? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Section 6: Ecology | | | | | | |
| 6.01 Gabion banks and base had been provide for channel linings and banks for typical sections of KT15? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 6.02 Prevent site effluent/runoff discharge to the seasonal wetlands at KT15? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 6.03 Stockpiling or disposal of materials, and any dredging or construction activities at the seasonal wetlands at KT15 are prohibited? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Section 7: Others | | | | | | |
| 7.01 Are relevant Environmental Permits posted at all vehicle site entrances/exits? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |





Remarks

Follow-Up of Last Site Inspection (12 February 2009):
 C&D wastes accumulated at CH-240 had been clean up.

Finding of Site Inspection on 18 February 2009:



1. C&D waste mix with the excavated soil without segregation and coverage by the tarpaulin sheet was observed at CH230, the Contractor was reminded to cover the dusty material with tarpaulin sheet and implement the waste sorting on-site accordingly.

| RE's representative | IEC's representative | ET's representative | Contractor's representative |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
|  (Joe Chan) |  (Kyus Lam) |  (Ben Tam) |  (K.M. LUZ) |

Environmental Site Inspection Checklist for KT15

| | | | |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------------|
| Project: | <u>Contract No.: DC/2006/02</u> <u>Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B – Cheung Chun San Tsuen and Kam Tsui Wai</u> | Inspected by | |
| Inspection | | RE/RE's representative: | <u>Mr. A. F. Ng</u> |
| Date: | <u>24 February 2009</u> | IEC/IEC's representative: | <u></u> |
| Time: | <u>09:45</u> | ETL/ ET's representative: | <u>Ken Wong</u> |
| | | Contractor's representative: | <u>M. K. Ng / K. M. Lui</u> |
| | | Checklist No. | <u>KT15-240209</u> |

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

Weather: Sunny Fine Cloudy Rainy

Temperature: °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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.02 | Is the effluent discharged in accordance with the discharge licence? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.03 | Is the discharge of turbid water avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.04 | Are there proper desilting facilities in the drainage systems to reduce SS levels in effluent? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.05 | Are there channels, sandbags or bunds to direct surface run-off to sedimentation tanks? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.06 | Are there any perimeter channels provided at site boundaries to intercept storm runoff from crossing the site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.07 | Is drainage system well maintained? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.08 | As excavation proceeds, are temporary access roads protected by crushed stone or gravel? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.09 | Are temporary exposed slopes properly covered? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.10 | Are earthworks final surfaces well compacted or protected? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.11 | Are manholes adequately covered or temporarily sealed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.12 | Are there any procedures and equipment for rainstorm protection? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
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| 1.14 | Is runoff from wheel washing facilities avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.15 | Are there toilets provided on site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.16 | Are toilets properly maintained? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.17 | Are the vehicle and plant servicing areas paved and located within roofed areas? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.18 | Is the oil leakage or spillage avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.19 | Are there any measures to prevent leaked oil from entering the drainage system? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.20 | Are there any measures to collect spilt cement and concrete washings during concreting works? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.21 | Are there any oil interceptors/grease traps in the drainage systems for vehicle and plant servicing areas, canteen kitchen, etc? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

Environmental Site Inspection Checklist for KT15

| | Not Obs. | Yes | No | Follow up | N/A | Photo/Remarks |
|-------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|---------------|
| 1.22 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 1.23 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 1.24 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.25 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.26 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.27 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.28 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.29 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Section 2: Air Quality | | | | | | |
| 2.01 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.02 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.03 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.04 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.05 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.06 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.07 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.08 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.09 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.10 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.11 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.12 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.13 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.14 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.15 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.16 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Section 3: Noise | | | | | | |
| 3.01 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.02 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.03 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.04 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.05 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.06 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

Environmental Site Inspection Checklist for KT15

| | Not Obs. | Yes | No | Follow up | N/A | Photo/Remarks |
|---------------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|---------------|
| 3.07 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.08 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.09 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3.10 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3.11 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3.12 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.13 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.14 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Section 4: Waste/Chemical Management | | | | | | |
| 4.01 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.02 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.03 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.04 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.05 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.06 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.07 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.08 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.09 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.10 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.11 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.12 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.13 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.14 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.15 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.16 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.17 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.18 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.19 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.20 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.21 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.22 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

Environmental Site Inspection Checklist for KT15

| | 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. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Section 5: Landscape & Visual | | | | | | |
| 5.01 Are retained and transplanted trees in health condition? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 5.02 Are retained and transplanted trees properly protected? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 5.03 Are surgery works carried out for the damaged trees? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 5.04 Is damage to trees outside site boundary due to construction activities avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 5.05 Is the night-time lighting controlled to minimize glare to sensitive receivers? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Section 6: Ecology | | | | | | |
| 6.01 Gabion banks and base had been provide for channel linings and banks for typical sections of KT15? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 6.02 Prevent site effluent/runoff discharge to the seasonal wetlands at KT15? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| 6.03 Stockpiling or disposal of materials, and any dredging or construction activities at the seasonal wetlands at KT15 are prohibited? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Section 7: Others | | | | | | |
| 7.01 Are relevant Environmental Permits posted at all vehicle site entrances/exits? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |

Remarks

Follow-Up of Last Site Inspection (18 February 2009):



C&D waste segregation was implemented and fence off the sorting area (CH230), captioned area (CH230) had been tidy up.

Finding of Site Inspection on 24 February 2009:



Stagnant water accumulated in the constructed channel was found at CH489. The Contractor was reminded to divert the stagnant water into the sedimentation tank prior to discharge.

RE's representative

IEC's representative


ET's representative

Contractor's representative

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(
Ken Wong)

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APPENDIX K

RESPONSE TO COMMENT

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 Summary Report for February 2009 (R1193 Revision 1) submit on 02 March 2009

Response to IEC's comments [Received from e-mail on 06 March 2009]

| Items | Section / Paragraph | Comments | Response to Comments |
|-------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | ES10./4.03 | There should be 18 1-Hour TSP monitoring in total in the reporting period. | Amended |
| 2 | Table 5.1/ Appendix G | As per the monitoring schedule listed in Appendix G, the data set for 29-Jan-09 is missing. Please revise and update the captioned table. | Table 5-1 and Appendix G had been updated. |
| 3 | Table 5.4/ Appendix H | According to the data set listed in Appendix H, 1. Measured zinc level at W9A and W9B on 23-Feb-09 should be 1,450µg/L and 104µg/L. 2. The measured D.O. value at W9A on 25-Feb-09 should be rounded off as 3.0. Please revise and update the captioned table. | Table 5.4 had been amended. |
| 4 | 7.02/11.07 | There are some typos at item no. 4. It is advised to rewrite the sentence as “C&D waste mix...without segregation and coverage by the tarpaulin sheet..., the Contractor was reminded to cover the dusty material with tarpaulin sheet and implement the waste sorting on-site according; ” | Section 7.02 and 11.07 had been amended. |
| 5 | Appendix G | The tentative monitoring schedule for 1-Hour and 24-Hour TSP on 17, 18, 24, 25 March 2009 should be revised in order to keep in a 6-day monitoring schedule for the captioned parameter. | Appendix G had been amended. |
| 6 | Appendix H | 1. Measured value of 1-Hour TSP recorded on 29-Jan-09 is missing in the graph. Please revise and update the graph. 2. Measured values of Dissolved Oxygen, Turbidity, and pH recorded on 25-Feb-09 are missing in the corresponding graphs. Please revise and update the graphs. 3. Measured value of Ammonia-Nitrogen recorded on 29-Jan-09 is missing in the graph. Please revise and update the graph. 4. The “Note” under the graph of Zinc should be updated. Dissolved oxygen at W9B on 29-Jan-09 and Ammonia-Nitrogen at W9A on 4, 9, 11, 18 Jan 2009 are out of the reporting range. 5. The recorded value of zinc on 21-Feb-09 in the graph is incorrect. Please revise and update the graph. | Appendix H had been updated. Appendix H had been updated. Appendix H had been updated. Note under the graph of Zinc had been deleted. Appendix H had been revised. |
| 7 | Appendix J | 1. All checklists should be recorded in Year 2009. Please revise the checklists accordingly. 2. In site inspection checklist on 29-Jan-09, the temperature recorded is unreasonably high. Please check and revise accordingly. 3. In site inspection checklist on 12-Feb-09, it is advised to add the exact location of C&D materials cleared in the follow-up observation. 4. In site inspection checklist on 18-Feb-09, it is advised to revise the text in the finding as “C&D waste mix...without segregation and coverage by the tarpaulin sheet..., the Contractor was reminded to cover the dusty material with tarpaulin sheet and implement the waste sorting on-site according; ”. | Noted. Checklist on 29-Jan-09 had been amended. Checklist on 12-Feb-09 had been amended. Checklist on 18-Feb-09 had been amended. |

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 Summary Report for **February 2009 (R1193 Revision 2)** submit on **12 March 2009**

Response to IEC’s comments [Received from e-mail on 13 March 2009]

| Items | Section / Paragraph | Comments | Response to Comments |
|-------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| 1 | Appendix H | <ol style="list-style-type: none"> Recorded values in 1-Hour TSP reading at Tin Sam San Tsuen (A10) graph in the reporting period (i.e. 26 Jan to 25 Feb 2009) are not correctly match with the axis value. Please check and update the graph. It is advised to add back the “Note” to report the points which are out of the reporting range, e.g. dissolved oxygen at W9B on 29-Jan-09 and Ammonia-Nitrogen at W9A on 4, 9, 11, 18 Feb 2009 are out of the reporting range. | <p>Amended</p> <p>Graphical plot of DO and NH3-N had been revised.</p> |
| 2 | Appendix J | The date of the checklists recorded on 4-Feb-2009 and 24-Feb-2009 should be recorded in Year 2009. Please revise the checklists accordingly. | Relevant checklists had been updated. |
| 3 | Appendix K | “Response to Comments” of Item 6 1st row should be wrote as “Appendix H had been updated”. Please refer to the attached page as for reference. | Noted. |