





Maeda - CREC - SELI Joint Venture

Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel

Monthly EM&A Report (July 2009)



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Report No

EB000364R0252

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Monthly EM&A Report (July 2009)

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# **Executive Summary**

- 1. Drainage Services Department (DSD) has awarded the contract for the Design and Construction of Tsuen Wan Drainage Tunnel (hereafter referred to as the "Project") to Maeda-CREC-SELI Joint Venture (MCSJV). MCSJV has appointed Hyder Consulting Limited (HCL) as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) works in accordance with the Environmental Monitoring and Audit Manual (EM&A Manual) and Environmental Permit (EP). Commencement of the construction work had been notified to the Environmental Protection Department (EPD) in January 2008. This Monthly EM&A Report summarises the EM&A works undertaken in July 2009.
- 2. According to the EM&A Manual, there are four designated air quality monitoring locations, five designated noise monitoring locations and four water quality monitoring locations during the construction phase: (i) Sik Sik Yuen Ho Fung College (ASR 1, NSR 1 and Intake I-1); (ii) Hong Hoi Chee Hong Temple (ASR 3, NSR 3 and Intake I-2); (iii) Squatters (NSR 6 and Intake I-3); (iv) Beach Tower (Long Beach Gardens) (ASR 8, NSR 8 and Outfall O-1); and (v) Greenview Terrace (Block 1) (ASR 9, NSR 9 and Outfall O-1).
- 3. During the non restricted hours, major construction activities undertaken by the Contractor at TWDT included site cleaning and tidying and tree transplanting at I-1, I-2, I-3 and Outfall; drilling rig at Outfall; soil nailing at I-1, I-3 and Outfall; breaking up exiting boulder at I-1, I-2, I-3 and Outfall; formation of access road at I-3 and Outfall; erosion control mat and green wire mesh at Outfall; Excavation and Lateral Support (ELS) at I-1; construction of skin wall at I-3; and construction of steel platform at I-2. No construction activities were carried out during restricted hours.
- 4. No exceedance has been recorded for air quality and noise monitoring during the reporting month.
- 5. No water quality monitoring was done on 4 and 27 July due to thunderstorm warning. Exceedances for water quality monitoring are summarized in the following table:

| Parameter | Action Level Exceedance                      | Limit Level Exceedance                                       |
|-----------|--|--|
| DO        | Nil  | Nil  |
| Turbidity | One recorded at I-3 on 20 July               | One recorded at I-2 on 24 July                               |
| SS        | Two recorded at I-1 and I-3 on 6 and 20 July | Six recorded at I-1, I-2 and I-3 on 6, 8, 10, 13 and 24 July |

- 6. The exceedances were considered not to be project-related as no direct disturbance was observed contributed by the project construction activities. Detail interpretation could be referred to Section 4.3 of this report.
- 7. The status of waste generation in the reporting month are:
  - A total of 3,219 m³ C&D material was disposed of to public fill at Tuen Mun and 3, 615 m³ inert C&D materials were reused in other Contracts. Detail information could be referred to Section 5.1.1 of this report.



- About 9.6 m³ general waste was disposed of to NENT Landfill;
- About 400 kg of paper/cardboard packaging was recycled;
- Metals was not generated in the reporting month; and
- No plastic waste and chemical waste were disposed of in the reporting month
- 8. In this reporting month, two site inspections and one monthly site audit were carried out by ET and Independent Environmental Checker (IEC) respectively, to ensure proper implementation of environmental mitigation measures specified in the EM&A Manual and compliance with environmental legislation. All observations, which were recorded on the inspection checklists, were passed to the Contractor together with the ET's recommendations.
- 9. As advised by the Contractor and verified by ET:
  - No non-compliance regarding the site inspection was received in the reporting month;
  - One environmental complaint was received during the reporting month; and
  - No summons and prosecution was received in this reporting month.
- 10. The major construction works for the upcoming three months will be:
  - Site cleaning and tidying at I-1, I-2, I-3 and Outfall;
  - Tree transplanting at I-1, I-2, I-3 and Outfall;
  - Drilling rig at Outfall;
  - Soil nailing at I-1, I-3 and Outfall;
  - Breaking up exiting boulder at I-1, I-2, I-3, and Outfall;
  - Formation of access road at I-3 and Outfall;
  - · Erosion control mat and green wire mesh at Outfall;
  - Excavation and Lateral Support (ELS) at I-1;
  - Construction of skin wall at I-3;
  - Formation of steel platform at I-2
  - · Formation of shaft at I-2; and
  - Launching chamber at Outfall.



#### 1 INTRODUCTION

- 1.1.1 The Drainage Services Department (DSD) proposed to construct a tunnel with an internal diameter of 6.5m and a length of 5.13km, with the purpose to alleviate the flooding risk in Tsuen Wan and Kwai Chung.
- 1.1.2 This project is a Designated Project under Schedule 2 Part I Category Q, of the Environmental Impact Assessment Ordinance (EIAO) as part of the proposed Tsuen Wan Drainage Tunnel (TWDT) passes underneath the existing Tai Mo Shan Country Park. An Environmental Impact Assessment (EIA) Study has therefore been undertaken to provide information on the nature and extent of environmental impacts arising from the construction and operation of the proposed designed project and related activities taking place concurrently. From the EIA the recommendations for monitoring contained herein, are made.
- 1.1.3 The Maeda-CREC-SELI Joint Venture (MCSJV) was awarded by DSD with the Contract Design and Construction of Tsuen Wan Drainage Tunnel.
- 1.1.4 Hyder was commissioned by the MCSJV as the Environmental Team (ET) to implement an EM&A program in accordance with the EM&A Manual. The proposed tunnel section flows from the junction of Shing Mun Road and Wo Yi Hop Road and discharges to south of Yau Kom Tau underneath Castle Peak Road as shown in *Appendix A*.
- 1.1.5 The construction works of the Project was commenced in January 2008. This is the sixteenth monthly EM&A report summarising the impact monitoring results and audit findings of the EM&A program in July 2009.



#### 2 PROJECT INFORMATION

#### 2.1 Project Organization and Management Structure

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

#### 2.2 Construction Progress

- 2.2.1 The overall project programme from the detail design to completion of all civil works shall take approximately 54 months. The construction programme is presented in *Appendix C*.
- 2.2.2 The major construction activities undertaken in the reporting month were:
  - Site cleaning and tidying at I-1, I-2, I-3 and Outfall;
  - Tree transplanting at I-1, I-2, I-3 and Outfall;
  - Drilling rig at Outfall;
  - Soil nailing at I-1, I-3 and Outfall;
  - Breaking up exiting boulder at I-1, I-2, I-3 and Outfall;
  - Formation of access road at I-3 and Outfall;
  - Erosion control mat and green wire mesh at Outfall;
  - Excavation and Lateral Support (ELS) at I-1;
  - · Construction of skin wall at I-3; and
  - Formation of steel platform at I-2.
- 2.2.3 No construction activities were undertaken for TWDT during the restricted hours.

#### 2.3 Mitigation Measures

**2.3.1** The implemented environmental mitigation measures and their statuses are given in **Appendix D.** 

#### 2.4 Status of License and Permit

2.4.1 A summary of relevant permits and licences for the Project is given in Appendix E.



# 3 Summary of EM&A Requirement

#### 3.1 Air Quality

#### Air Quality Parameters

3.1.1 1-hour Total Suspended Particulates (TSP) levels are measured at the designated air monitoring locations in accordance with the EM&A Manual. Information such as date of monitoring, duration, weather condition, equipment used and monitoring results were recorded on the field data sheet developed for the Project. The monitoring results are presented in **Section 4**.

#### Monitoring Methodology

- 3.1.2 1-hour TSP monitoring is carried out under typical weather conditions (with no adverse weather such as typhoon signal or rain storm warning) three times every six days using High Volume Air Samplers (HVASs). Monitoring should be conducted in accordance with the standard sampling method as set out in High Volume Method for Total Suspended Particulates, Part 50 Chapter 1 Appendix B, Title 40 of the Code of Federal Regulations of the USEPA.
- 3.1.3 After each sampling, the filter paper loaded with dust is kept in a clean and tightly sealed plastic bag. The filter paper is then re-conditioned in desiccators for 24 hours before obtaining the weight under laboratory conditions.
- 3.1.4 The average concentrations of the TSP are calculated based on the following information obtained from monitoring:
  - Flow rate;
  - Weight of the filter paper before and after sampling; and
  - Sampling period indicated by the elapsed-time meter.
- 3.1.5 All samples should be kept in good condition (i.e. stored in sealed plastic bags, with brief description of the monitoring dates and locations) for a period of 6 months before disposal. Sample analysis is carried out by ALS Technichem (HK) Pty Limited (HOKLAS Registration Number 066).

#### Monitoring Equipment and Calibration

- 3.1.6 High Volume Air Samplers (HVASs) are used for 1-hour TSP monitoring to comply with the USEPA specifications in Appendix B Part 5 Reference Method for the Determination of Suspended Particulate matter in the Atmosphere (High-Volume Method) of the Code of Federal Regulation dated June 1, 1991.
- 3.1.7 All HVASs are calibrated before commencement of monitoring using standard orifice 5-points calibration method with orifice calibrator to determine the actual flow rate of each HVAS. This shall be used for the calculation of the TSP level. Calibration Kit Model TE5025A is used for calibration of the HVAS. Recalibration of the HVAS shall be carried out after motor maintenance, at least once every six months, which is about the



expected life of carbon brush. The air quality monitoring equipment used during the reporting month is shown in *Table 3-1* below. The calibration certificates are included in Appendix F.

| Equipment Type | Model    | Serial Number | Calibration Orifice<br>Number | Location |
|----------------|----------|---------------|-------------------------------|----------|
| HVAS           | BM2000HX | 4994          | 1559                          | ASR 1    |
| HVAS           | BM2000HX | 5875          | 1559                          | ASR 3    |
| HVAS           | TE5005X  | 0390          | 1559                          | ASR 8    |
| HVAS           | TE5005X  | 0646          | 1559                          | ASR 9    |

Table 3-1 Air Quality Monitoring Equipment

# **Monitoring Location**

3.1.8 Four designated air quality-monitoring locations were identified in the contract specific EM&A manual. They are listed in *Table 3-2* below and shown in *Appendix G*.

| Monitoring Station ID | Name of Premises                 | Floor Level |
|-----------------------|----------------------------------|-------------|
| ASR1                  | Sik Sik Yuen Ho Fung College     | G/F         |
| ASR3                  | Hong Hoi Chee Hong Temple        | Podium      |
| ASR8                  | Beach Tower (Long Beach Gardens) | G/F         |
| ASR9                  | Greenview Terrace (Block 1)      | G/F         |

Table 3-2 Air Quality Monitoring Locations

#### **Action and Limit Levels**

3.1.9 The Action and Limit Levels for the 1-hour TSP monitoring is shown in *Table 3-3*. In case exceedances of Action and/or Limit levels for air quality occur, Event Contingency Plans (ECPs) would be implemented. The ECPs for Action and Limit levels exceedances are shown in *Table 3-4*.

| 1-hr TSP Level in μg/m³ |                   |  |
|-------------------------|-------------------|--|
| Action Level            | Limit Level       |  |
| 307                     | 500               |  |
| 327                     | 500               |  |
| 337                     | 500               |  |
| 329                     | 500               |  |
|                         | 307<br>327<br>337 |  |

Table 3-3 Action & Limit Levels for Air Quality



| EVENT  | ACTION   |  |   |  |
|--|--|--|---|--|
| EVENI  | ET   | IEC  | SOR   | CONTRACTOR   |
| ACTION LEVEL                                   |  |  |   |  |
| Exceedance for one sample                      | <ul> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform IEC and SOR;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily.</li> </ul> | <ul> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method.</li> </ul>   | Notify Contractor.  | <ul> <li>Rectify any unacceptable practice;</li> <li>Amend working methods if appropriate.</li> </ul>  |
| Exceedance for two or more consecutive samples | <ul> <li>Inform IEC and SOR;</li> <li>Advise SOR on the effectiveness of the proposed remedial measures;</li> <li>Repeat measurements to confirm findings;</li> </ul>  | <ul> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ET on the effectiveness of the proposed remedial measures;</li> <li>Supervise Implementation of remedial measures.</li> </ul> | Confirm receipt of notification of exceedance in writing;     Notify Contractor;     Ensure remedial measures properly implemented. | <ul> <li>Submit proposals for remedial to SOR within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ul> |
| Exceedance for cosample                        | one • Identify source,<br>investigate the<br>causes of<br>exceedance and<br>propose remedial<br>measures;  | <ul> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and</li> </ul>  | Confirm receipt of notification of exceedance in writing;     Notify Contractor;     Ensure remedial                                | <ul> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working</li> </ul>                                    |



| EVENT  | ACTION  |   |  |  |  |
|--|---|---|--|--|--|
| EVENT  | ET  | IEC   | SOR  | CONTRACTOR   |  |
|  | <ul> <li>Inform IEC, SOR,<br/>Contractor and EPD;</li> <li>Repeat<br/>measurement to<br/>confirm finding;</li> <li>Increase monitoring<br/>frequency to daily;</li> <li>Assess effectiveness<br/>of Contractor's<br/>remedial actions and<br/>keep IEC, EPD and<br/>SOR informed of the<br/>results.</li> </ul> | Contractor on possible remedial measures;  • Advise SOR on the effectiveness of the proposed remedial measures;  • Supervise implementation of remedial measures.   | measures properly implemented.   | days of notification;  Implement the agreed proposals;  Amend proposal if appropriate.   |  |
| Exceedance for two or more consecutive samples | <ul> <li>Contractor and EPD;</li> <li>Identify source;</li> <li>Repeat measurement to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Carry out analysis of Contractor's working procedures to determine possible</li> </ul>  | <ul> <li>Discuss amongst<br/>SOR, ET, and<br/>Contractor on the<br/>potential remedial<br/>actions;</li> <li>Review Contractor's<br/>remedial actions<br/>whenever necessary<br/>to assure their<br/>effectiveness and<br/>advise SOR<br/>accordingly;</li> <li>Supervise the<br/>implementation of<br/>remedial measures.</li> </ul> | Confirm receipt of notification of exceedance in writing; Notify Contractor; In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. | <ul> <li>agreed proposals;</li> <li>Resubmit proposals if problem still not under control;</li> <li>Stop the relevant portion of works as determined by SOR until the exceedance is abated.</li> </ul> |  |

Table 3-4 Event/Action Plan for Air Quality



#### 3.2 Noise

#### Noise Parameters

- 3.2.1 The construction noise level is measured in terms of equivalent A-weighted sound pressure level ( $L_{eq}$ ) measured in decibels (dB(A)). Monitoring of  $L_{eq(30 \text{ min})}$  is carried out at the noise monitoring locations on a weekly basis during normal construction working hours (0700-1900 hours from Monday to Saturday except public holidays). For all other time periods (i.e. restricted hours),  $L_{eq(5 \text{ min})}$  would be employed for comparison with the Noise Control Ordinance (NCO) criteria if necessary.
- 3.2.2 The two statistical sound levels  $L_{10}$  and  $L_{90}$ : the level exceeded for 10 and 90 percent of the time respectively, are also recorded during monitoring. Major noise sources observed, both on-site and off-site, are recorded on the field data sheet. All measurements are recorded to the nearest 0.1 dB(A) and presented in round numbers in this report. Results are presented in **Section 4**.

#### Monitoring Methodology

- 3.2.3 Sound level meters, which comply with the International Electrotechnical Commission Publication 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications as referred to the Technical Memorandum (TM) issued under the Noise Control Ordinance, are used. Noise levels for the A-weighted levels  $L_{eq(30min)}$ ,  $L_{10}$  and  $L_{90}$  are measured throughout the impact monitoring. Average, by sound power, of six consecutive 5 minutes readings is used to provide  $L_{eq(30\ min)}$  for non-restricted hours (07:00-19:00 hours from Monday to Saturday except public holidays). A facade correction of 3dB(A) is applied to the measurements that are carried out under free field conditions.
- 3.2.4 During the impact monitoring, parameters such as dates, weather condition, equipment used, measurement results and major noise sources are recorded on the field data record sheet. Monitoring would not be carried out in the presence of fog, rain or strong wind with a steady speed exceeding 5 m/s. In relation to the monitored noise levels, other noise sources such as road traffic might make a significant contribution to the overall noise environment. Therefore, noise monitoring activities would take into account such influencing factors, which were not present during the baseline monitoring period.

#### Monitoring Equipment and Calibration

- 3.2.5 Bruel & Kjaer (B&K) Precision Integrating Sound Level Meter of Type 2238 as well as Rion Precision Sound Level Meters of Type NA-27 and Type NL-18 in compliance with the International Electrotechnical Commission Publication 651: 1979 (Type 1) and 804: 1985 (Type 1) Specifications, stated in the Technical Memorandum (TM) issued under the NCO, are used for noise monitoring in this reporting month.
- 3.2.6 Prior to and following each noise measurement, the accuracy of the sound level meters is checked using an acoustic calibrator (B&K Type 4231(S/N 1770806), Rion Type NC-73 (S/N 10786708) or Rion Type NC-73 (S/N 10997142)) generating a known sound pressure level at a known frequency. Measurements are considered as valid only if the calibration levels from before and after the noise measurement agrees to within 1.0



dB(A). The sound level meters and the calibrator are calibrated annually to ensure they perform to the same level of accuracy as stated in the manufacturer's specifications. The noise monitoring equipment used during the reporting month is shown in *Table 3-5* below. The calibration certificates are included in *Appendix F*.

| Equipment Type         | Manufacturer  | Type Number | Serial Number | Location                      |  |
|------------------------|---------------|-------------|---------------|-------------------------------|--|
| Sound Level Meter      | Bruel & Kjaer | 2238        | 2285726       | NSR1, NSR3,<br>NSR6, NSR8 and |  |
| Sound Level Meter      | Rion          | NA-27       | 00201194      | NSR9                          |  |
| Sound Level Meter      | Rion          | NL-18       | 00360030      | -                             |  |
| Sound Level Calibrator | Bruel & Kjaer | 4231        | 1770806       | NSR1, NSR3,<br>NSR6, NSR8 and |  |
| Sound Level Calibrator | Rion          | NC-73       | 10786708      | NSR9                          |  |
| Sound Level Calibrator | Rion          | NC-73       | 10997142      |                               |  |

Table 3-5 Noise Monitoring Equipment

#### **Monitoring Location**

3.2.7 Five designated noise monitoring locations were identified in the contract specific EM&A manual. They are listed in *Table 3-6* below and shown in *Appendix G*. All the locations below are in façade measurement.

| Monitoring Station ID | Name of Premises                 | Floor Level               |
|-----------------------|----------------------------------|---------------------------|
| NSR1                  | Sik Sik Yuen Ho Fung College     | G/F                       |
| NSR3                  | Hong Hoi Chee Hong Temple        | Podium                    |
| NSR6                  | Squatters                        | G/F                       |
| NSR8                  | Beach Tower (Long Beach Gardens) | G/F                       |
| NSR9                  | Craeniew Terraes (Black 1)       | Podium (up to 6 July2009) |
|                       | Greenview Terrace (Block 1)      | Roof* (from 16 July 2009) |

<sup>\*</sup> The noise monitoring location of NSR9 had been adjusted at roof top from 16 July 2009.

Table 3-6 Noise Monitoring Locations

#### Construction Groundborne Noise

3.2.8 Prediction of construction groundborne noise indicates the criteria will be achieved at most NSRs except exceedances are predicted at Hong Hoi Chee Hong Temple (NSR3) and Squatters (NSR6). It is recommended to restrict the TBM operation in non-restricted period (i.e. 0700 - 1900) at these NSRs. In order to ensure proper control of groundborne noise is executed by the contractor, a monitoring requirement is



recommended at the Hong Hoi Chee Hong Temple at Intake 2 and Squatters at Intake 3 for compliance checking. According to the monitoring schedule, TBM operation will be carried out for about 3 months in the vicinity of Hong Hoi Chee Hong Temple at Intake 2 and Squatters at Intake 3. If groundborne noise criterion is exceeded, the monitoring shall continue daily until acceptance has been restored against the criterion. Otherwise the monitoring can be discontinued.

3.2.9 The criteria including Technical Memorandum for the Assessment of Noise from Places other than Domestic Premises, Public Places or Construction Sites (TM-Places) under the NCO stipulates that noise transmitted primarily through the structural elements of building, or buildings, shall be 10 dB(A) less than the relevant ANLs. Daytime groundborne construction noise criterion of 60 dB(A) therefore applies with reference to TM-EIAO 70 dB(A) criterion for schools and taking account of the minus 10 dB(A) requirement under the NCO TM-Places. Following the same principle for groundborne noise criteria, groundborne construction noise levels inside domestic premises relying on opened window for ventilation will be limited to 65 dB(A), with reference to the daytime airborne noise criterion of 75 dB(A) in accordance with TM-EIAO.

#### **Action and Limit Levels**

3.2.10 The Action and Limit levels for construction noise are defined in *Table 3-7*. If non-compliance of the criteria occurs, actions in accordance with the Action Plan in *Table 3-8* would be carried out.

| Time Period                        | Action                                    | Limit     |
|------------------------------------|---|-----------|
| 0700 – 1900 hrs on normal weekdays | When one documented complaint is received | 75 dB(A)* |

For educational establishments the limit level shall be 70dB(A) and reduced to 65dB(A) during examination periods between 0700-1900 hrs on normal weekdays.

Table 3-7 Action & Limit Levels for Noise

| Event        | Action   |   |  |   |  |
|--------------|--|---|--|---|--|
|              | ET Leader  | IEC   | SOR  | Contractor                              |  |
| Action Level | <ul> <li>Notify IEC and the Contractor.</li> <li>Carry out investigation.</li> <li>Report the results of investigation to IEC and the Contractor.</li> <li>Discuss with the Contractor and formulate remedial measures.</li> <li>Increase monitoring frequency to check</li> </ul> | <ul> <li>Review with analysed results submitted by ET.</li> <li>Review the proposed remedial measures by the Contractor and advise SOR accordingly.</li> <li>Supervise the implement of remedial measures.</li> </ul> | notification of exceedance in writing  Notify the Contractor.  Require the Contractor to propose remedial measures for the analysed noise problem. | • Implement noise mitigation proposals. |  |



| Frank       | Action  |   |   |  |  |
|-------------|---|---|---|--|--|
| Event       | ET Leader   | IEC   | SOR   | Contractor   |  |
|             | mitigation measures.  |   |   |  |  |
| Limit Level | <ul> <li>Identify the source.</li> <li>Notify IEC, SOR, EPD and the Contractor.</li> <li>Repeat measurement to confirm findings.</li> <li>Increase monitoring frequency.</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented.</li> <li>Inform IEC, SOR, and EPD the causes &amp; actions taken for the exceedances.</li> <li>Assess effectiveness of the Contractor's remedial actions and keep IEC, EPD and SOR informed of the results.</li> <li>If exceedance stops, cease additional monitoring.</li> </ul> | <ul> <li>Discuss amongst SOR, ET Leader and the Contractor on the potential remedial actions.</li> <li>Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise SOR accordingly.</li> <li>Supervise the implementation of remedial measures.</li> </ul> | <ul> <li>Confirm receipt of notification of exceedance in writing.</li> <li>Notify the Contractor.</li> <li>Require the Contracto to propose remedial measures for the analysed noise problem.</li> <li>Ensure remedial measures are properly implemented.</li> <li>If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated.</li> </ul> | <ul> <li>Submit proposals for remedial actions to IEC within 3 working days of notification.</li> <li>Implement the agreed proposals.</li> <li>Resubmit proposals if problem still not under control.</li> <li>Stop the relevant activity of works as determined by the SOR until the exceedance is abated.</li> </ul> |  |

#### Table 3-8 Event/Action Plan for Noise

# 3.3 Water Quality

3.3.1 The water quality impact would be insignificant with the protection measures recommended in Section 5.6 of the EIA report. However in view of the sensitive nature of the rivers/streams and bathing beaches in the Study Area, it is suggested that a programme of monitoring should be established to confirm the mitigation measures are protecting these water bodies.

#### Water Quality Parameters

3.3.2 Monitoring for Dissolved Oxygen (DO), temperature, turbidity, pH and suspended solids (SS) should be undertaken at designated monitoring locations. It should be noted that DO, temperature, turbidity and pH should be measured in-situ whereas SS is assayed in a laboratory.

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3.3.3 In association with the water quality parameters, other relevant data should also be measured, such as monitoring location/position, time, weather conditions, and any special phenomena and description of work underway at the construction site etc.

#### Monitoring Methodology

- 3.3.4 In accordance with the EM&A Manual, the water quality monitoring for all specified parameters shall be measured at all designated monitoring locations including control points at an interval of 3 days per week. DO, temperature, turbidity, pH and SS shall be undertaken at designated monitoring locations.
- 3.3.5 It should be noted that water samples for all monitoring parameters should be collected, stored, preserved and analysis according to Standard Methods, APHA 17 ed. and/or methods agreed by the Director of Environmental Protection.
- 3.3.6 Each sample shall be analysed in accordance with the APHA Standard Methods for the Examination of Water and Wastewater, 18th edition, or an equivalent method approved by the EPD. If an in-house or non-standard method is proposed, details of the method verification may require to be submitted to the EPD. In any circumstance, the sample testing should comply with a comprehensive quality assurance and quality control programme. The laboratory should be prepared to demonstrate the quality programmes to the EPD when requested.

#### Monitoring Equipment and Calibration

3.3.7 All the water samples collected should be transferred to clearly labelled and pre-cleaned sample containers with necessary preservatives immediately after collection. The sample containers should be provided by a HOKLAS accredited laboratory. Sufficient quantity of samples should be collected for all laboratory analyses. Following sampling, samples should be stored in a cool box at temperature of between 0 and 4°C, and transported to the laboratory within the sample retention time as advised by the laboratory under proper chain-of-custody system. The water quality monitoring equipment used during the reporting month is shown in *Table 3-9* below.

| Equipment Type                       | Manufacturer | Model       | Quantity |  |
|--------------------------------------|--------------|-------------|----------|--|
| pH Meter / DO / Temperature<br>Meter | WTW          | PH/Oxi 340i | 1        |  |
| Tuibidimeter                         | EUTECH       | TN-100      | 1        |  |

Table 3-9 Water Quality Monitoring Equipment

3.3.8 All pH meters, DO meters and turbidimeters shall be checked and calibrated prior to use. DO meters and turbidimeters shall be calibrated by a laboratory accredited under HOKLAS or any other international accreditation scheme, and subsequently recalibrated at 3 monthly intervals throughout all stages of the water quality monitoring. Responses of sensors and electrodes shall be checked with certified standard solutions before each use. Wet bulb calibrations for all DO meters shall be carried out before measurement at each monitoring location. For the on site calibration of field equipment,



BS 127:1993, "Guide to field and on-site test methods for the analysis of waters" should be observed. The calibration certificates are included in *Appendix F*.

#### Monitoring Location

3.3.9 Four designated monitoring locations were identified in the contract specific EM&A Manual for water quality monitoring. While the construction of the outfall basin at the seashore has not been started, monitoring of water quality is only required during which the rip rap is placed at the seashore area. These four monitoring stations are listed in *Table 3-10* below and shown in *Appendix G*.

| Monitoring Station ID | Name of Premises                         |  |
|-----------------------|--|--|
| I-1                   | Intake I-1                               |  |
| I-1-C                 | Control of Intake I-1                    |  |
| I-2                   | Intake I-2                               |  |
| I-2-C                 | Control of Intake I-2                    |  |
| I-3                   | Intake I-3                               |  |
| I-3-C*                | Control of Intake I-3                    |  |
| O-1 (FT)              | Outfall 1During Flood Tide               |  |
| O-1 (ET)              | Outfall 1During Ebb Tide                 |  |
| O-1-C (FT)            | Control of Outfall O-1 During Flood Tide |  |
| O-1-C (ET)            | Control of Outfall O-1 During Ebb Tide   |  |

<sup>\*</sup>The upper stream location (I-3-C\*) had been relocated from end of February 2009 due to coarse stone blockage.

#### Table 3-10 Water Quality Monitoring Locations

3.3.10 Note that there are two control stations for Outfall O-1, one for sampling during flood tide and one for sampling during ebb tide. Only one of those control stations for Outfall O-1 shall be sampled during each sampling. Control station to be sampled will be determined based on the tidal information provided by the Hong Kong Observatory.

#### **Action and Limit Levels**

3.3.11 The Action and Limit levels for water quality monitoring parameters are defined in *Table*3-11. In case of any exceedance, appropriate actions will be undertaken in accordance with the Event and Action Plan as described in *Table 3-12*.



| Parameters                             | Action  | Limit   |
|--|---|---|
| DO in mg/l                             | Surface & Middle  | Surface & Middle  |
| (Surface, Middle & Bottom)             | 5%-ile of baseline data for surface an middle layer.  | d4mg/l except 5mg/l for FCZ or  1%-ile of baseline data for surface and   |
|  |   | middle layer  |
|  | <u>Bottom</u>   | <u>Bottom</u>   |
|  | 5%-ile of baseline data for bottom layer.   | 2mg/l or 1%-ile of baseline data for bottom layer   |
| SS in mg/l                             | 95%-ile of baseline data or 120% of   | 99%-ile of baseline or 130% of  |
| (depth-averaged)                       | upstream control station's SS at the same tide of the same day  | upstream control station's SS at the same tide of the same day and specific sensitive receiver water quality requirements (e.g. required suspended solids levels for concerned sea water intakes) |
| Turbidity (Tby) in NT (depth-averaged) | U 95%-ile of baseline data or 120% of upstream control station's Tby at the same tide of the same day | 99%-ile of baseline or 130% of upstream control station's Tby at the same tide of the same day  |

#### Notes:

- For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- For SS and Tby, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
- All the figures given in the table are used for reference only and the EPD may amend the figures whenever it is considered as necessary.

Table 3-11 Action/Limit Levels for Water Quality



| Event   | ET Leader   | IEC   | SOR   | Contractor  |
|---|---|---|---|---|
| Action Level being exceeded by one sampling day                       | <ul> <li>Repeat in-situ measurement to confirm finding;</li> <li>Identify source(s) of impact;</li> <li>Inform IEC and Contractor;</li> <li>Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>Discuss mitigation measures with IEC and Contractor; and</li> <li>Repeat measurement on next day of exceedance.</li> </ul>   | Contractor on the mitigation measures  Review proposals on mitigation measures submitted by Contractor and advise the SOR accordingly; and  Assess the  | <ul> <li>Make agreement on the mitigation measures to be implemented.</li> </ul>  | confirm notification<br>; of the non-<br>compliance in  |
| Action Level being exceeded by more than one consecutive sampling day | <ul> <li>Repeat in-situ measurement to confirm finding;</li> <li>Identify source(s) of impact;</li> <li>Inform IEC and Contractor;</li> <li>Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>Discuss mitigation measures with IEC and Contractor;</li> <li>Ensure mitigation measures are implemented;</li> <li>Prepare to increase the monitoring frequency to daily; and</li> <li>Repeat</li> </ul> | Discuss with ET and Contractor on the mitigation measures;     Review proposals on mitigation measures submitted by Contractor and advise the SOR accordingly; and     Assess the effectiveness of the implemented mitigation measures. | Discuss with IEC on the proposed mitigation measures;      Make agreement on the mitigation measures to be implemented; and      Assess the effectiveness of the implemented mitigation measures. | <ul> <li>Inform the         Engineer and         confirm notification         of the non-         compliance in         writing;</li> <li>Rectify         unacceptable         practice;</li> <li>Check all plant and         equipment;</li> <li>Consider changes         of working         methods;</li> <li>Discuss with ET         and IEC and         propose mitigation         measures to IEC         and SOR within 3         working days; and</li> <li>Implement the         agreed mitigation         measures.</li> </ul> |



| Event  | ET Leader   | IEC   | SOR   | Contractor  |
|--|---|---|---|---|
|  | measurement on next day of exceedance.  |   |   |   |
| Limit Level being exceeded by one sampling day                       | <ul> <li>Repeat in-situ measurement to confirm finding;</li> <li>Identify source(s) of impact;</li> <li>Inform IEC, Contractor and EPD;</li> <li>Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>Discuss mitigation measures with IEC, SOR and Contractor;</li> <li>Ensure mitigation measures are implemented; and</li> <li>Increase the monitoring frequency to daily until no exceedance of Limit level.</li> </ul> | Discuss with ET and Contractor on the mitigation measures;     Review proposals on mitigation measures submitted by Contractor and advise the SOR accordingly; and     Assess the effectiveness of the implemented mitigation measures.                     | Discuss with IEC, ET and Contractor on the proposed mitigation measures; and     Request Contractor to critically review the working methods;     Make agreement on the mitigation measures to be implemented; and     Assess the effectiveness of the implemented mitigation measures.                                       | <ul> <li>Inform the         Engineer and         confirm notification         of the non-         compliance in         writing;</li> <li>Rectify         unacceptable         practice;</li> <li>Check all plant and         equipment;</li> <li>Consider changes         of working         methods;</li> <li>Discuss with ET         and IEC and SOR         and propose         mitigation         measures to IEC         and SOR within 3         working days; and</li> <li>Implement the         agreed mitigation         measures.</li> </ul> |
| Limit Level being exceeded by more than one consecutive sampling day | <ul> <li>Repeat in-situ measurement to confirm finding;</li> <li>Identify source(s) of impact;</li> <li>Inform IEC, Contractor and EPD;</li> <li>Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>Discuss mitigation measures with</li> </ul>   | <ul> <li>Discuss with ET and Contractor on the mitigation measures;</li> <li>Review proposals on mitigation measures submitted by Contractor and advise the SOR accordingly; and</li> <li>Assess the effectiveness of the implemented mitigation</li> </ul> | <ul> <li>Discuss with IEC,<br/>ET and Contractor<br/>on the proposed<br/>mitigation<br/>measures; and</li> <li>Request<br/>Contractor to<br/>critically review the<br/>working methods;</li> <li>Make agreement<br/>on the mitigation<br/>measures to be<br/>implemented;</li> <li>Assess the<br/>effectiveness of</li> </ul> | <ul> <li>Inform the SOR and confirm notification of the non-compliance in writing;</li> <li>Rectify unacceptable practice;</li> <li>Check all plant and equipment;</li> <li>Consider changes of working methods;</li> <li>Discuss with ET and IEC and SOR</li> </ul>  |



| Event | ET Leader   | IEC | SOR  | Contractor |
|-------|---|-----|--|------------|
|       | IEC, SOR and Contractor;  • Ensure mitigation measures are implemented; and  • 7. Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. |     | the implemented mitigation measures; and  Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit Level. | 3 3        |

Table 3-12 Event/Action Plan for Water Quality

## 4 MONITORING RESULT

# 4.1 Air Quality

4.1.1 The air quality monitoring schedule of the reporting period is given in *Appendix H*.

## 1-hr TSP Monitoring

4.1.2 Results of 1-hours TSP level are shown in *Table 4-1*. All measurements were recorded to the nearest 0.1μg/m³ and presented in round numbers in this report. Detail results including weather conditions, and graphical presentations are presented in *Appendix I*.

| Station | Monitoring Date | Monitoring Result (μg/m3) | Action/Limit Levels (μg/m3) |
|---------|-----------------|---------------------------|-----------------------------|
| ASR 1   |                 | 110.4                     | 307/500                     |
|         | 06-Jul-09       | 112.7                     |                             |
|         |                 | 42.1                      |                             |
|         |                 | 141.2                     |                             |
|         | 10-Jul-09       | 92.2                      |                             |
|         |                 | 209.5                     |                             |
|         |                 | 89.9                      |                             |
|         | 16-Jul-09       | 163.9                     |                             |
|         |                 | 44.4                      |                             |
|         |                 |                           |                             |



| Station | Monitoring Date | Monitoring Result<br>(μg/m3) | Action/Limit Levels (μg/m3) |
|---------|-----------------|------------------------------|-----------------------------|
|         |                 | 120.7                        |                             |
|         | 22-Jul-09       | 82.0                         |                             |
|         |                 | 69.4                         |                             |
|         |                 | 93.3                         |                             |
|         | 28-Jul-09       | 96.8                         |                             |
|         |                 | 88.8                         |                             |
|         |                 | 46.5                         |                             |
|         | 06-Jul-09       | 27.2                         |                             |
|         |                 | 22.7                         |                             |
|         |                 | 71.5                         |                             |
|         | 10-Jul-09       | 194.1                        |                             |
|         |                 | 132.8                        |                             |
|         |                 | 119.2                        |                             |
| ASR 3   | 16-Jul-09       | 35.2                         | 327/500                     |
|         |                 | 40.9                         |                             |
|         |                 | 86.2                         |                             |
|         | 22-Jul-09       | 84.0                         |                             |
|         |                 | 102.1                        |                             |
|         |                 | 197.5                        |                             |
|         | 28-Jul-09       | 67.0                         |                             |
|         |                 | 49.9                         |                             |
| ASR 8   |                 | 83.7                         | 337/500                     |
|         | 06-Jul-09       | 52.3                         |                             |
|         |                 | 51.0                         |                             |
|         |                 | 73.2                         |                             |
|         | 10-Jul-09       | 116.3                        |                             |
|         |                 | 158.2                        |                             |
|         |                 | 53.6                         |                             |
|         | 16-Jul-09       | 69.3                         |                             |
|         |                 | 56.2                         |                             |
|         | 22-Jul-09       | 116.3                        |                             |



| Station | Monitoring Date | Monitoring Result (μg/m3) | Action/Limit Levels (μg/m3) |
|---------|-----------------|---------------------------|-----------------------------|
|         |                 | 107.2                     | _                           |
|         |                 | 86.3                      | _                           |
|         |                 | 137.2                     | _                           |
|         | 28-Jul-09       | 87.6                      | _                           |
|         |                 | 90.2                      |                             |
|         |                 | 89.0                      | _                           |
|         | 06-Jul-09       | 46.7                      | _                           |
|         |                 | 46.7                      | _                           |
|         |                 | 66.7                      | _                           |
|         | 10-Jul-09       | 78.9                      |                             |
|         |                 | 159.0                     | _                           |
|         |                 | 112.3                     | _                           |
| ASR 9   | 16-Jul-09       | 41.1                      | 329/500                     |
|         |                 | 45.6                      | _                           |
|         |                 | 195.7                     | _                           |
|         | 22-Jul-09       | 151.2                     | _                           |
|         |                 | 91.2                      |                             |
|         |                 | 184.6                     | _                           |
|         | 28-Jul-09       | 94.5                      | _                           |
|         |                 | 82.3                      |                             |

Note: Italic indicates the occurrence of exceedance of Action level

Bold indicates the occurrence of exceedance of Limit Level

Table 4-1 Air Quality Monitoring Results

4.1.3 No project related exceedance was recorded in the reporting month.

#### 4.2 Noise

4.2.1 The noise monitoring schedule of the reporting period is given in *Appendix H*. Results of measured noise level, in terms of Leq (30min), during the construction are shown in *Table 4-2*. All measurements including L10 and L90 are recorded to the nearest 0.1 dB(A) and presented in round numbers in this report. Detail results including weather conditions and graphical presentation are presented in *Appendix I*.



| Station | Monitoring Date | L <sub>eq (30 min)</sub> dB(A) | Limit Levels dB(A) |
|---------|-----------------|--------------------------------|--------------------|
|         | 06-Jul-09       | 66.3                           |                    |
|         | 16-Jul-09       | 67.5                           | <del></del> 70     |
| NSR 1   | 22-Jul-09       | 66.5                           |                    |
|         | 28-Jul-09       | 65.4                           |                    |
|         | 06-Jul-09       | 72.4                           |                    |
| NSR 3   | 16-Jul-09       | 69.9                           |                    |
| Non 3   | 22-Jul-09       | 71.0                           |                    |
|         | 28-Jul-09       | 71.5                           |                    |
|         | 06-Jul-09       | 57.4                           |                    |
| NSR 6   | 16-Jul-09       | 52.4                           |                    |
| Non o   | 22-Jul-09       | 55.4                           |                    |
|         | 28-Jul-09       | 55.1                           | 7F                 |
|         | 06-Jul-09       | 62.7                           | 75<br>             |
| NCD 0   | 16-Jul-09       | 63.5                           |                    |
| NSR 8   | 22-Jul-09       | 65.4                           |                    |
|         | 28-Jul-09       | 64.0                           |                    |
|         | 06-Jul-09       | 72.4                           |                    |
| NCD 0   | 16-Jul-09       | 71.4                           |                    |
| NSR 9   | 22-Jul-09       | 72.7                           |                    |
|         | 28-Jul-09       | 71.4                           |                    |
|         |                 |                                |                    |

Table 4-2 Noise Monitoring Results

4.2.2 No exceedances of Action / Limit Levels were recorded during the reporting month.

## 4.3 Water Quality Monitoring

4.3.1 The water quality monitoring schedule of the reporting period is given in Appendix H. Summaries of exceedances for water quality monitoring are provided in *Table 4-3* to *Table 4-5*.

| Parameter | Action Level Exceedance | Limit Level Exceedance   |
|-----------|-------------------------|--------------------------|
| DO        | Nil                     | Nil                      |
| Turbidity | Nil                     | Nil                      |
| SS        | One recorded on 20 July | One recorded on 10 July. |
|           | ·                       | ·                        |



| Parameter | Action Level Exceedance        | Limit Level Exceedance                |
|-----------|--------------------------------|---------------------------------------|
| Total     | One                            | One                                   |
| Table 4-3 | Summary of Exceedances for I-1 |                                       |
| Parameter | Action Level Exceedance        | Limit Level Exceedance                |
| DO        | Nil                            | Nil                                   |
| Turbidity | Nil                            | One recoded on 24 July                |
| SS        | Nil                            | Four recorded on 6, 8, 13 and 24 July |
| Total     | Nil                            | Five                                  |
| Table 4-4 | Summary of Exceedances for I-2 |                                       |
| Parameter | Action Level Exceedance        | Limit Level Exceedance                |
| DO        | Nil                            | Nil                                   |
| Turbidity | One recorded on 20 July        | Nil                                   |
| SS        | One recorded on 6 July         | One recorded on 10 July               |
| Total     | Two                            | One                                   |
|           |                                |                                       |

Table 4-5 Summary of Exceedances for I-3

- 4.3.2 Results of measured water quality parameters during the reporting month are shown in *Table 4-6* and detailed results including weather conditions and graphical presentations are enclosed in *Appendix I*.
- 4.3.3 No water quality monitoring was done on 4 and 27 July due to thunderstorm warning.
- 4.3.4 The exceedance of Control Limit Level of SS (130% higher than I-1-C) recorded on 10 July and exceedance of Control Action Level of SS (120% higher than I-1-C) recorded on 20 July at I-1 were below baseline Action / Limit Level and were within the range of baseline SS concentration. Site cleanliness and tidiness, shotcrete to skin wall, excavation and breaking up of rock strata, installation of noise barrier, excavation and breaking up the rock were carried out during the measurements. No direct disturbance was observed from the site. The exceedance was considered to be contributed by natural variation and no action was therefore required.
- 4.3.5 The exceedances of Control Limit Level of SS (130% higher than I-2-C) recorded at I-2 on 6, 8, and 13 July were below baseline Action / Limit Level and were within the range of baseline SS concentration. Site tidiness & cleanliness, installation of safety net and noise barrier, demolition of piling platform, disposal of C&D materials, installation of temporary bund wall, erecting formwork to protect existing water main, installation of temporary steel decking were undertaken during the measurements. No direct disturbance was observed from the site. The exceedances were considered to be contributed by natural variation and no action was therefore required.



- 4.3.6 The exceedance of Baseline Limit Level of turbidity recorded at I-2 on 24 July was below the turbidity level at 1-2-C. The exceedance of Baseline Limit Level of SS recorded on 24 July at I-2 was slightly above the SS level at I-2-C and still complied within the Action and Limit levels at control station (I-2-C). Site tidiness & cleanliness, installation of safety net and noise barrier, preparation of grout curtain and installation of steel platform for drop shaft were undertaken during the measurements. No direct disturbance was observed from the site. The exceedances were considered to be contributed by other sources at upstream and no action was therefore required.
- 4.3.7 The exceedance of Control Action Level of SS (120% higher than I-3-C) recorded on 6 July and exceedance of Control Limit Level of SS (130% higher than 1-3-C) recorded on 10 July at I-3 were below both baseline Action and Limit Levels and were within the range of baseline SS concentration. Site cleanliness and tidiness, backfilled and compacted road embankment, backfilling of skin wall toe, and disposal of C&D materials were undertaken during the measurements. No direct disturbance was observed from the site. The exceedances were considered to be contributed by natural variation and no action was therefore required.
- 4.3.8 The exceedance of Baseline Action Level of turbidity recorded on 20 July at I-3 was below the turbidity level at 1-3-C and no exceedance of SS level was recorded for this monitoring. Site cleanliness and tidiness, disposal of C&D materials erecting working platform for soil nail and breaking up the boulder were undertaken during the measurements. No direct disturbance was observed from the site. The exceedances were considered to be contributed by natural variation and no action was therefore required.
- 4.3.9 The above mentioned exceedances were considered as non project related, however, proper mitigation measures had been implemented during measurements. Details of the above mentioned investigations could be referred to the notifications of exceedances as enclosed in *Appendix J*, which have been provided to the IEC for review.



| Station | Date      | Temperature | DO (mg/L) | Action/Limit<br>Level for DO<br>(mg/L) | рН   | Turbidity (NTU | ) Action/Limit<br>Level for<br>Turbidity (NTU | SS (mg/L) | Action/Limit<br>Level for SS<br>(mg/L) |
|---------|-----------|-------------|-----------|--|------|----------------|---|-----------|--|
| I-1     | 02-Jul-09 | 28.50       | 6.74      | 3.42 / 3.34                            | 6.42 | 2.87           | 9.75 / 12.47                                  | 2.0       | 8.85 / 10.17                           |
|         | 04-Jul-09 | -           | -         |  | -    | -              | _   | -         |  |
|         | 06-Jul-09 | 27.55       | 6.47      |  | 7.76 | 4.02           |   | 2.0       |  |
|         | 08-Jul-09 | 27.05       | 6.01      |  | 7.75 | 3.71           |   | 2.0       |  |
|         | 10-Jul-09 | 26.95       | 5.73      |  | 7.57 | 2.34           |   | 3.1       |  |
|         | 13-Jul-09 | 26.15       | 6.72      |  | 7.38 | 3.68           |   | 2.0       |  |
|         | 15-Jul-09 | 26.00       | 6.60      |  | 7.62 | 3.64           |   | 2.8       |  |
|         | 17-Jul-09 | 25.70       | 6.05      |  | 7.19 | 3.76           |   | 2.0       |  |
|         | 20-Jul-09 | 28.50       | 5.96      |  | 7.14 | 3.13           | _   | 2.5       |  |
|         | 22-Jul-09 | 26.95       | 6.40      |  | 7.02 | 2.21           | _   | 2.0       |  |
|         | 24-Jul-09 | 27.30       | 6.10      |  | 7.67 | 3.12           | _   | 2.0       |  |
|         | 27-Jul-09 | -           | -         |  | -    | -              | _   | -         |  |
|         | 29-Jul-09 | 26.95       | 7.13      |  | 5.32 | 2.82           | _   | 2.0       |  |
|         | 31-Jul-09 | 27.05       | 6.35      |  | 5.70 | 2.93           | _   | 2.0       |  |



| Station | Date      | Temperature | DO (mg/L) | Action/Limit<br>Level for DO<br>(mg/L) | рН   | Turbidity (NT | J)Action/Limit<br>Level for<br>Turbidity (NTU |     | Action/Limit Level for SS (mg/L) |
|---------|-----------|-------------|-----------|--|------|---------------|---|-----|----------------------------------|
| I-1-C   | 02-Jul-09 | 28.50       | 6.72      | - / -                                  | 6.54 | 3.26          | - / -   | 2.0 | -/-                              |
|         | 04-Jul-09 | -           | -         |  | -    | -             | _   | -   |                                  |
|         | 06-Jul-09 | 27.75       | 5.73      |  | 7.46 | 3.87          |   | 2.0 |                                  |
|         | 08-Jul-09 | 26.85       | 6.29      |  | 7.59 | 3.49          |   | 2.9 |                                  |
|         | 10-Jul-09 | 27.00       | 6.00      |  | 7.60 | 2.66          |   | 2.2 |                                  |
|         | 13-Jul-09 | 26.00       | 6.31      |  | 7.21 | 3.52          |   | 2.4 |                                  |
|         | 15-Jul-09 | 25.80       | 6.09      |  | 7.53 | 3.71          | _   | 3.3 |                                  |
|         | 17-Jul-09 | 25.25       | 6.26      |  | 7.24 | 3.83          | _   | 2.4 |                                  |
|         | 20-Jul-09 | 28.70       | 6.41      |  | 6.94 | 3.02          | _   | 2.0 |                                  |
|         | 22-Jul-09 | 27.10       | 6.56      |  | 6.95 | 2.33          | _   | 2.0 |                                  |
|         | 24-Jul-09 | 27.30       | 6.42      |  | 7.72 | 3.07          | _   | 2.0 |                                  |
|         | 27-Jul-09 | -           | -         |  | -    | -             | _   | -   |                                  |
|         | 29-Jul-09 | 27.45       | 6.96      |  | 5.28 | 2.93          | _   | 2.0 |                                  |
|         | 31-Jul-09 | 27.10       | 6.58      |  | 5.46 | 3.15          |   | 2.0 |                                  |



| Station | Date      | Temperature | DO (mg/L) | Action/Limit<br>Level for DO<br>(mg/L) | рН   | Turbidity (NT | U)Action/Limit<br>Level for<br>Turbidity (NTI |      | Action/Limit<br>Level for SS<br>(mg/L) |
|---------|-----------|-------------|-----------|--|------|---------------|---|------|--|
| I-2     | 02-Jul-09 | 28.40       | 7.18      | 3.66 / 3.63                            | 6.53 | 4.86          | 6.63 / 6.99                                   | 4.9  | 7.68 / 8.34                            |
|         | 04-Jul-09 | -           | -         |  | -    | -             |   | -    |  |
|         | 06-Jul-09 | 28.30       | 6.54      |  | 7.28 | 5.09          |   | 4.1  |  |
|         | 08-Jul-09 | 27.10       | 6.14      |  | 7.62 | 4.61          |   | 3.7  |  |
|         | 10-Jul-09 | 27.00       | 5.50      |  | 7.16 | 2.42          |   | 2.0  |  |
|         | 13-Jul-09 | 26.55       | 5.67      |  | 7.81 | 2.74          |   | 5.8  |  |
|         | 15-Jul-09 | 26.45       | 5.93      |  | 7.20 | 3.08          |   | 2.2  |  |
|         | 17-Jul-09 | 25.15       | 6.26      |  | 7.26 | 2.34          |   | 2.2  |  |
|         | 20-Jul-09 | 28.70       | 6.05      |  | 7.03 | 2.63          |   | 2.8  |  |
|         | 22-Jul-09 | 26.90       | 5.93      |  | 7.26 | 2.09          |   | 2.0  |  |
|         | 24-Jul-09 | 27.05       | 6.04      |  | 7.60 | 40.40         |   | 59.5 |  |
|         | 27-Jul-09 | -           | -         |  | -    | -             | _   | -    |  |
|         | 29-Jul-09 | 27.70       | 6.89      |  | 5.41 | 2.80          | _   | 2.0  |  |
|         | 31-Jul-09 | 27.15       | 5.86      |  | 5.47 | 2.50          |   | 2.0  |  |



| Station | Date      | Temperature | DO (mg/L) | Action/Limit<br>Level for DO<br>(mg/L) | рН   | Turbidity (N | TU)Action/Limit<br>Level for<br>Turbidity (NTI |      | Action/Limit<br>Level for SS<br>(mg/L) |
|---------|-----------|-------------|-----------|--|------|--------------|--|------|--|
| I-2-C   | 02-Jul-09 | 28.50       | 7.26      | - / -                                  | 6.43 | 4.93         | - / -  | 6.2  | - / -                                  |
|         | 04-Jul-09 | -           | -         |  | -    | -            |  | -    |  |
|         | 06-Jul-09 | 28.10       | 6.64      |  | 7.41 | 4.53         |  | 2.2  |  |
|         | 08-Jul-09 | 27.00       | 5.81      |  | 7.63 | 3.94         |  | 2.6  |  |
|         | 10-Jul-09 | 26.75       | 6.31      |  | 7.61 | 2.61         |  | 3.0  |  |
|         | 13-Jul-09 | 25.75       | 5.80      |  | 7.32 | 2.29         |  | 2.2  |  |
|         | 15-Jul-09 | 26.20       | 5.49      |  | 7.26 | 2.69         |  | 2.5  |  |
|         | 17-Jul-09 | 26.00       | 6.45      |  | 7.33 | 2.18         |  | 2.5  |  |
|         | 20-Jul-09 | 28.70       | 6.33      |  | 7.01 | 2.87         |  | 3.9  |  |
|         | 22-Jul-09 | 26.75       | 5.82      |  | 7.23 | 2.21         |  | 2.0  |  |
|         | 24-Jul-09 | 27.05       | 5.98      |  | 7.62 | 41.45        |  | 58.9 |  |
|         | 27-Jul-09 | -           | -         |  | -    | -            |  | -    |  |
|         | 29-Jul-09 | 28.10       | 6.50      |  | 5.55 | 3.23         |  | 2.0  |  |
|         | 31-Jul-09 | 27.30       | 6.33      |  | 5.50 | 2.56         |  | 2.0  |  |



| Station | Date      | Temperature | DO (mg/L) | Action/Limit<br>Level for DO<br>(mg/L) | рН   | Turbidity (NT | U)Action/Limit<br>Level for<br>Turbidity (NT |     | Action/Limit<br>Level for SS<br>(mg/L) |
|---------|-----------|-------------|-----------|--|------|---------------|--|-----|--|
| I-3     | 02-Jul-09 | 28.35       | 6.58      | 3.65 / 3.51                            | 7.00 | 3.46          | 3.99 / 4.18                                  | 2.0 | 6.13 / 7.23                            |
|         | 04-Jul-09 | -           | -         |  | -    | -             | _  | -   |  |
|         | 06-Jul-09 | 28.55       | 6.54      |  | 7.22 | 3.41          | _  | 2.8 |  |
|         | 08-Jul-09 | 27.00       | 5.55      |  | 7.66 | 3.24          |  | 2.4 |  |
|         | 10-Jul-09 | 26.60       | 6.09      |  | 7.66 | 3.04          |  | 4.1 |  |
|         | 13-Jul-09 | 25.80       | 5.98      |  | 7.54 | 2.28          |  | 2.4 |  |
|         | 15-Jul-09 | 26.05       | 5.96      |  | 7.64 | 2.29          |  | 2.0 |  |
|         | 17-Jul-09 | 25.95       | 5.88      |  | 7.30 | 3.17          |  | 2.0 |  |
|         | 20-Jul-09 | 28.40       | 5.93      |  | 7.18 | 4.00          |  | 2.7 |  |
|         | 22-Jul-09 | 27.00       | 5.58      |  | 7.16 | 2.33          |  | 2.0 |  |
|         | 24-Jul-09 | 27.55       | 5.95      |  | 7.58 | 2.09          | _  | 2.0 |  |
|         | 27-Jul-09 | -           | -         |  | -    | -             |  | -   |  |
|         | 29-Jul-09 | 28.10       | 7.02      |  | 5.41 | 2.96          |  | 2.0 |  |
|         | 31-Jul-09 | 26.90       | 6.08      |  | 5.41 | 2.22          |  | 2.0 |  |



| Station | Date      | Temperature | DO (mg/L) | Action/Limit<br>Level for DO<br>(mg/L) | рН   | Turbidity (NT | U)Action/Limit<br>Level for<br>Turbidity (NTU) | SS (mg/L) | Action/Limit<br>Level for SS<br>(mg/L) |
|---------|-----------|-------------|-----------|--|------|---------------|--|-----------|--|
| I-3-C   | 02-Jul-09 | 28.50       | 6.55      | - / -                                  | 6.89 | 3.89          | - / -  | 2.0       | - / -                                  |
|         | 04-Jul-09 | -           | -         |  | -    | -             |  | -         |  |
|         | 06-Jul-09 | 28.45       | 6.71      |  | 7.25 | 3.18          |  | 2.3       |  |
|         | 08-Jul-09 | 27.00       | 6.01      |  | 7.71 | 3.61          | _  | 2.1       | _                                      |
|         | 10-Jul-09 | 26.45       | 6.55      |  | 7.62 | 3.11          | _  | 2.0       | _                                      |
|         | 13-Jul-09 | 25.65       | 6.03      |  | 7.66 | 2.36          | _  | 2.3       | _                                      |
|         | 15-Jul-09 | 26.00       | 6.13      |  | 7.70 | 2.41          | _  | 2.0       | _                                      |
|         | 17-Jul-09 | 26.00       | 6.09      |  | 7.35 | 3.25          | _  | 2.0       | _                                      |
|         | 20-Jul-09 | 28.55       | 5.63      |  | 7.19 | 4.38          | _  | 2.9       | _                                      |
|         | 22-Jul-09 | 27.10       | 5.65      |  | 7.18 | 2.49          | _  | 2.0       | _                                      |
|         | 24-Jul-09 | 27.70       | 6.37      |  | 7.61 | 2.14          | _  | 2.0       | _                                      |
|         | 27-Jul-09 | -           | -         |  | -    | -             |  | -         |  |
|         | 29-Jul-09 | 28.30       | 7.08      |  | 5.39 | 3.32          | _  | 2.0       | _                                      |
|         | 31-Jul-09 | 26.95       | 6.25      |  | 5.38 | 2.32          |  | 2.0       |  |

**Note:** *Italic* indicates the occurrence of exceedance of *Action level*.

**Bold** indicates the occurrence of exceedance of **Limit level**.

Table 4-6 Water Quality Monitoring Results

#### 4.4 Summary of Project-Related Exceedances

4.4.1 **Table 4-7**summarises the project-related exceedance results recorded in July 2009. Note that exceedances that are considered not related to the construction activities are not included in this table.

| Environmental<br>Monitoring | Total No. of<br>Measurement | Action Level Exceedance | % of Action<br>Level<br>Exceedance | Limit Level<br>Exceedance | % of Limit Level<br>Exceedance |
|-----------------------------|-----------------------------|-------------------------|------------------------------------|---------------------------|--------------------------------|
| Air Quality                 | 60                          | 0                       | 0                                  | 0                         | 0                              |
| Noise                       | 20                          | 0                       | 0                                  | 0                         | 0                              |
| Water                       | 72                          | 0                       | 0                                  | 0                         | 0                              |

Note: Exceedances that are considered not related to the construction activities are not included in this table.

Table 4-7 Summary of Project-Related Exceedances

#### 5 WASTE MANAGEMENT

5.1.1 The status of waste management is summarized in *Table 5-1* below.

| Status of waste management                                     | Quantity |
|--|----------|
| Inert C&D Material Disposed of to Public Fill at Tuen Mun (m³) | 3,219.0  |
| Inert C&D Material Reused in other Contracts* (m³)             | 3,615.0  |
| Metals Generated (kg)  | Nil      |
| Paper / Cardboard Packaging (kg)                               | 400.0    |
| Plastics (kg)  | Nil      |
| Chemical Waste (kg)  | Nil      |
| General Waste Disposed of to NENT Landfill (m³)                | 9.6      |

<sup>\*</sup> Other Contracts include Proposed Rural Theme Park-Yuen Long, Tai Tong Lychee Garden, DC/2007/17, DC/2007/06, DC/2008/12, HY/2007/09 and Ocean Park.

Table 5-1 Waste Generated in July 2009

#### 6 NON-COMPLIANCE AND DEFICIENCY

#### 6.1 Site Audit by ET

6.1.1 ET has carried out two site inspections in the reporting month. All observations together with the appropriate recommended mitigation measures where necessary were recorded in the audit checklists that were passed to the Contractor. Major environmental deficiencies observed during site inspection/audits and recommendation, which were made by the ET, are summarised in *Table 6-1* below. No non-compliance was observed.

| Inspection Date | Observation  | Recommendation  | Status  |
|-----------------|--|---|---|
| Follow-up       | Silts were observed settled<br>in the discharge point at<br>Outfall.   | dThe Contractor was requested to regularly remove the settled silts to ensure the quality of discharge.   | During the site inspection on<br>31 July, the said silts were<br>removed by using sludge<br>tanker. (Closed)  |
| 2 Jul 09        | <ol> <li>Dust generation from rock drilling activity was observed at Outfall.</li> <li>Dust generation from soil nailing activity was observed at Outfall.</li> <li>Sludge was observed in the outlet area at Outfall.</li> <li>Sandbags were not observed between the excavation area and the river area at I-2.</li> <li>Noise barrier was not observed at I-2.</li> </ol> | <ol> <li>The Contractor was reminded to implement air quality mitigation measures for rock drilling activity (e.g. Covering with tarpaulin) to avoid dust dispersion</li> <li>The Contractor was reminded to increase the frequency of water spraying during the soil nailing activity.</li> <li>The Contractor was reminded to clear away the sludge.</li> <li>The Contractor was reminded to place sandbags between the excavation area and river area.</li> <li>The Contractor was reminded to enhance the implementation of noise mitigation measures.</li> </ol> | quality mitigation measures were implemented. (Closed)  2. During site inspection on 31 July 09, water spraying was frequently provided on site. (Closed)  3. During site inspection on 31 July 09, the said sludge was removed by using sludge tanker. (Closed)                      |
| 31 Jul 09       | <ol> <li>Chemical container<br/>without warning label<br/>was observed at I-2.</li> <li>The site was observed<br/>to be dirty and untidy<br/>at I-1.</li> </ol>  | <ol> <li>The Contractor was reminded to display warning label on the chemical container.</li> <li>The Contractor was reminded to maintain site cleanliness and tidiness regularly.</li> </ol>   | <ol> <li>During the site inspection on 6 August 09, the warning label was displayed on the chemical container. (Closed)</li> <li>During the site inspection on 6 August 09, the site cleanliness and tidiness was maintained and would be continuously inspected. (Closed)</li> </ol> |

Table 6-1 Site Inspection by ET

#### 7 COMPLAINT

- 7.1.1 A complaint hotline at <u>9850 3241</u> of the Contractor has been established for the Project.
- 7.1.2 One complaint was received during the reporting month.
- 7.1.3 The environmental complaint was received by EPD on 10 July 2009 regarding construction dust from the Outfall Construction Site. EPD together with the Contractor had carried out site inspection on 10 July 2009. In accordance with the 1-hr TSP monitoring 10 July 2009 at the podium level of Greenview Terrace facing to the construction site, ASR 9, all TSP monitoring results were below the established Action and Limit Levels and no exceedance was recorded. In addition, air quality mitigation measures as recommended in EIA had been implemented in order to control and minimise the air quality impact and nuisance arising from the construction activities. As such, the complaint was considered not justifiable since no action & limit level exceedance on construction dust were identified. The investigation report had been submitted on 23 Jul 2009. Detail of the complaint investigation can be referred to Appendix K
- 7.1.4 Cumulative statistics of environmental complaints are shown in *Table 7-1*.

Complaints Received in the Reporting Month

Cumulative Number of Complaints

1 4

Table 7-1 Cumulative Statistic of Environmental Complaint

# 8 SUMMARY OF NOTIFICATION OF SUMMONS, SUCCESSFUL PROSECUTIONS AND CORRECTIVE ACTIONS

- 8.1.1 No summons and successful prosecution was received during the reporting month.
- 8.1.2 Cumulative statistics of Notification of Summons, Successful Prosecutions and Convictions are shown in *Table 8-1*.

| Notification of | Summons    | Successful Pro | secution   |  |
|-----------------|------------|----------------|------------|--|
| July 09         | Cumulative | July 09        | Cumulative |  |
| 0               | 0          | 0              | 0          |  |

Table 8-1 Cumulative Statistics of Notification of Summons and Successful Prosecutions

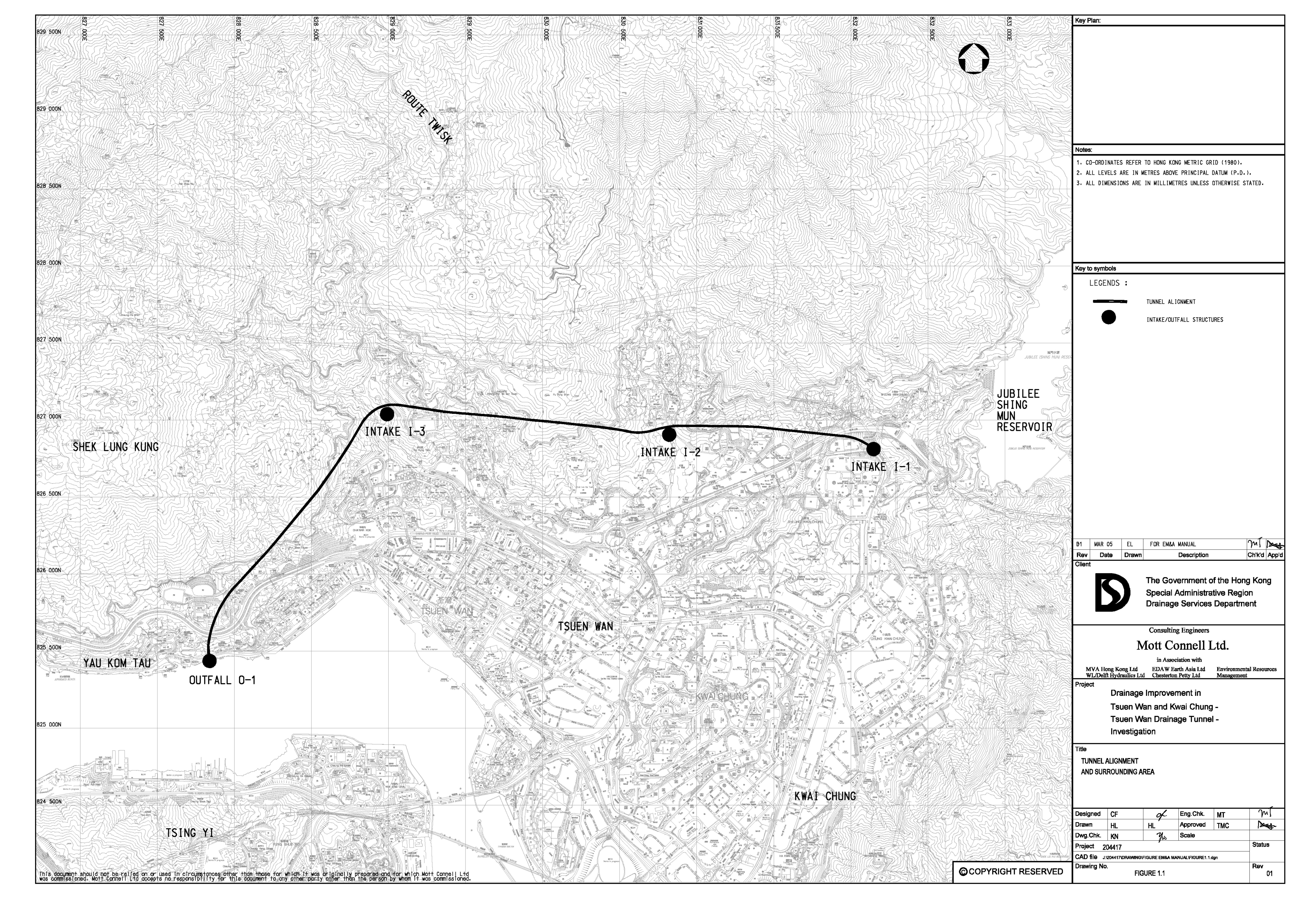
#### 9 FUTURE KEY ISSUE

- 9.1.1 The forecast of construction works for the upcoming three months are:
  - Site cleaning and tidying at I-1, I-2, I-3 and Outfall;
  - Tree transplanting at I-1, I-2, I-3 and Outfall;
  - Drilling rig at Outfall;

- Soil nailing at I-1, I-3 and Outfall;
- Breaking up exiting boulder at I-1, I-2, I-3, and Outfall;
- Formation of access road at I-3 and Outfall;
- Erosion control mat and green wire mesh at Outfall;
- Excavation and lateral support (ELS) at I-1;
- Construction of skin wall at I-3;
- Formation of steel platform at I-2;
- Formation of shaft at I-2; and
- Launching chamber at Outfall.

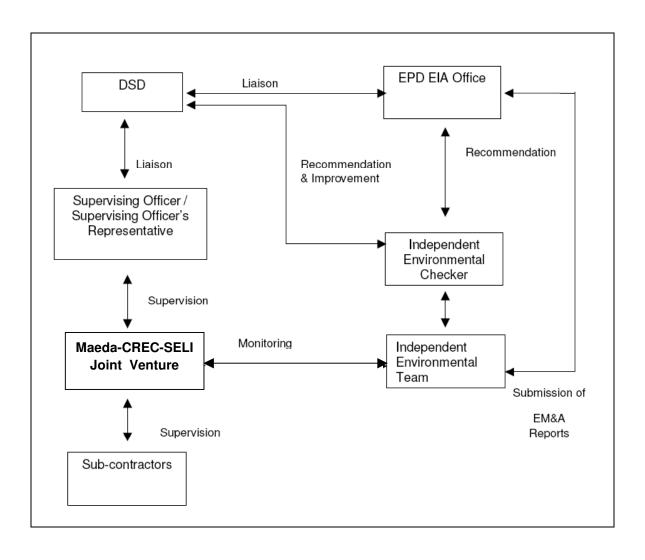


## Site Map and Works Area



Appendix B

## **Organization Chart**



#### Appendix C

## **Construction Programme**

| ID          | Activity Description                        | Cal             | Target<br>Dur | Orig | Target<br>Start | Target<br>Finish | Early<br>Start              | Early<br>Finish | %<br>Comp          | Total        | 2008 2009                    | 2010               | 2011           | 2012                |
|-------------|---|-----------------|---------------|------|-----------------|------------------|-----------------------------|-----------------|--------------------|--------------|------------------------------|--------------------|----------------|---------------------|
| Preliminar  |   | (II)            | Dur           | Dur  | Start           | FINISH           | Start                       | Finish          | Comp               | Float        |                              |                    | 1.104.514.61   | 1 1 1 1 1 1 1 1 1 1 |
| Project Dat |   |                 | •             |      |                 |                  |                             |                 | -                  |              |                              |                    |                |                     |
| Toject Dai  | ies   |                 | •             |      |                 |                  |                             |                 | -                  |              |                              |                    |                |                     |
| 01R0000002  | Tender Issue Date                           | 2               | 0             | 0    | 26JUN07A        |                  | 26JUN07A                    |                 | 100                |              |                              |                    |                |                     |
| 01R0000004  | Tender Closing Date                         | 2               | 0             | 0    | 05OCT07A        |                  | 05OCT07A                    |                 | 100                |              |                              |                    |                |                     |
| 01R0000006  | Letter of Acceptance Issued Date            | 2               | 0             | 0    | 14DEC07         |                  | 14DEC07A                    |                 | 100                |              |                              |                    |                |                     |
| 01R0000008  | Contract Commencement Date                  | 2               | 0             | 0    | 28DEC07         | 1                | 28DEC07A                    |                 | 100                |              | 14 days after LOA            |                    |                |                     |
| 01R0000010  | Completion of Section 1 of the Works        | 2               | 0             | 0    |                 | 27JUL11*         |                             | 01DEC11         | 0                  | -127         |                              |                    | • •            |                     |
| 01R0000012  | Completion of Section 2 of the Works        | 2               | 0             | 0    |                 | 27JUL11*         | T:                          | 27JUL11         | 0                  | 0            |                              |                    | •              |                     |
| 01R0000014  | Completion of Section 3 of the Works        | 2               | 0             | 0    |                 | 27JUL11*         |                             | 27SEP11         | 0                  | -62          |                              |                    | • •            |                     |
| 01R0000016  | Completion of Section 4 of the Works        | 2               | 0             | 0    |                 | 27JUL11*         |                             | 27JUL11         | 0                  | 0            |                              |                    | •              |                     |
| 01R0000018  | Completion of Section 5 of the Works        | 2               | 0             | 0    |                 | 27JUL11*         |                             | 01DEC11         | 0                  | -127         |                              |                    | . •            |                     |
| 01R0000020  | Completion of Section 6 of the Works        | 2               | 0             | 0    |                 | 27JUL11*         |                             | 27JUL11         | 0                  | 0            |                              |                    | •              |                     |
| 01R0000022  | Completion of Section 7 of the Works        | 2               | 0             | 0    |                 | 26JUL12*         |                             | 30NOV12         | 0                  | -127         |                              |                    |                |                     |
| Possession  | n of Area                                   |                 | 1             |      | 11111           |                  |                             |                 |                    |              |                              |                    |                |                     |
|             |   |                 |               |      |                 |                  |                             |                 |                    |              |                              |                    |                |                     |
| 01R00A0102  | Possession Portion A - 90d of DOC           | 2               | 0             | 0    | 26MAR08         |                  | 27FEB08A                    |                 | 100                |              | Permanent land allocation    | n area was posse   | essed on 19/03 | 3/08                |
| 01R00A0104  | Handover of Section 1 of Works at Portion A | 2               | 0             | 0    |                 | 13MAY11          |                             | 23JUL11         | 0                  | 4            |                              |                    | • •            |                     |
| 01R00B0102  | Possession of Portion B - 90d of DOC        | 2               | 0             | 0    | 26MAR08         |                  | 07MAR08A                    |                 | 100                |              | •                            |                    |                |                     |
| 01R00B0104  | Handover of Portion B                       | 2               | 0             | 0    |                 | 16JUL11          |                             | 27SEP11         | 0                  | -62          |                              |                    | • •            |                     |
| 01R00C0102  | Possession of Portion C - 90d of DOC        | 2               | 0             | 0    | 26MAR08         |                  | 26MAR08A                    |                 | 100                |              | •                            |                    |                |                     |
| 01R00C0104  | Handover of Portion C                       | 2               | 0             | 0    |                 | 05MAY11          |                             | 02JUL11         | 0                  | 25           |                              |                    | • •            |                     |
| 01R00D0102  | Possession of Portion D on DOC              | 2               | 0             | 0    | 28DEC07         |                  | 28DEC07A                    |                 | 100                |              | <b>•</b>                     |                    |                |                     |
| 01R00D0104  | Handover of Portion D                       | 2               | 0             | 0    |                 | 17JUN11          |                             | 01DEC11         | 0                  | -127         |                              |                    | • •            |                     |
| 01R00E0102  | Possession of Portion E - 650d of DOC       | 2               | 0             | 0    | 07OCT09         |                  | 07OCT09                     |                 | 0                  | 0            | •                            |                    |                |                     |
| 01R00E0104  | Handover of Portion E                       | 2               | 0             | 0    |                 | 17JUN11          |                             | 01DEC11         | 0                  | -127         |                              |                    | • •            |                     |
| 01R00F0102  | Possession of Portion F on DOC              | 2               | 0             | 0    | 28DEC07         |                  | 28DEC07A                    |                 | 100                |              | •                            |                    |                |                     |
| 01R00F0104  | Handover of Portion F                       | 2               | 0             | 0    |                 | 28JAN11          |                             | 13AUG11         | 0                  | -17          |                              |                    | •              |                     |
| 01R00G0102  | Possession of Portion G - 700d of DOC       | 2               | 0             | 0    | 26NOV09         |                  | 26NOV09                     |                 | 0                  | 0            |                              |                    |                |                     |
| 01R00G0104  | Handover of Portion G                       | 2               | 0             | 0    |                 | 02JUN11          |                             | 02JUN11         | 0                  | 55           |                              |                    | •              |                     |
| 01R00l0102  | Possession of Portion I on DOC              | 2               | 0             | 0    | 28DEC07         |                  | 28DEC07A                    |                 | 100                |              | •                            |                    |                |                     |
| 01R00l0104  | Handover of Portion I                       | 2               | 0             | 0    |                 | 27JUL11          |                             | 04NOV08         | 0                  | 0            | •                            |                    |                |                     |
| 01R00J0102  | Possession of Portion J                     | 2               | 0             | 0    | 01DEC08*        |                  | 16MAR09                     |                 | 0                  |              |                              | t date to be agree |                |                     |
| 01R00J0104  | Handover of Portion J                       | 2               | 0             | 0    |                 | 12JUN09*         |                             | 17MAR10         | 0                  | 0)           | allows 50 days from the date | of WSD Tunne       | el Shutdown    |                     |
| 01R0H10102  | Possession of Portion H1 on DOC             | 2               | 0             | 0    | 28DEC07         |                  | 28DEC07A                    |                 | 100                |              |                              |                    |                |                     |
| art Date    | 29JUN07                                     | Early Bar       | W             | P00  |                 | aeda-CREC-       |                             | Sheet 1 of      |                    |              |                              | P TO 28 Aug 2008   |                |                     |
| nish Date   | 30DEC12                                     |                 |               |      |                 |                  | DC/2007/12                  |                 |                    | Date<br>EB08 | Draft Works Programme Rev 1  |                    | Checked        | Approve             |
| ata Date    | 28AUG08                                     | Target Bar      |               |      |                 |                  | struction of<br>nage Tunnel |                 | \$ recent and com- | EP08         | Works Programme Rev. 0       |                    |                |                     |
| un Date     | 30SEP08 15:51                               | Progress Ba     |               |      |                 | Norks Prog       |                             |                 | -                  |              |                              |                    |                |                     |
| © Primave   | era Systems, Inc.                           | Critical Active | vity          |      |                 |                  |                             |                 |                    |              |                              |                    |                |                     |

| ID         | Activity  | Cal  | Target | Orig  | Target   | Target  | Early       | Early     | % To     |      | 2008 2009               | 2010              | 2011            | 2012     |
|------------|---|------|--------|-------|----------|---------|-------------|-----------|----------|------|-------------------------|-------------------|-----------------|----------|
| 2122112121 | Description   | ID   | Dur    | Dur   | Start    | Finish  | Start       | Finish    | Comp Flo |      |                         |                   |                 |          |
| 01R0H10104 | Handover of Portion H1                                  | 2    | 0      | 0     | 00000700 | 24SEP12 | 00000000    | 30DEC12   | 0        | 0    |                         |                   |                 | 180      |
| 01R0H20102 |   | 2    | 0      | 0     | 22OCT08  | 0405040 | 22OCT08     | 0005040   | 0        | 0    | Y                       |                   |                 |          |
| 01R0H20104 |   | 2    | 0      | 0     |          | 24SEP12 |             | 30DEC12   | 0        | 0    |                         |                   |                 |          |
| Section of | Works - DOP to Completion                               |      |        |       |          |         |             |           |          |      |                         |                   |                 |          |
| 01R1000202 | S1-Works in Portions A to F except works in S2-7        | 2    | 1,308  | 1,308 | 28DEC07  | 27JUL11 | 28DEC07A    | 01DEC11   | 19 -1    | 27   |                         |                   |                 |          |
| 01R1000204 | S1-Maintenance Period (365 days)                        | 2    | 365    | 365   | 28JUL11  | 26JUL12 | 02DEC11     | 30NOV12   | 0 -1     | 27   |                         |                   |                 |          |
| 01R20A0206 | S2-Slope Stabilization works within Portion A           | 2    | 1,218  | 1,247 | 26MAR08  | 26JUL11 | 27FEB08A    | 27JUL11   | 15       | 0    |                         |                   |                 |          |
| 01R20A0208 | S2-Maintenance Period (365 days)                        | 2    | 365    | 365   | 27JUL11  | 25JUL12 | 28JUL11     | 26JUL12   | 0        | 0    |                         |                   |                 |          |
| 01R30B0210 | S3-Slope Stabilization works within Portion B           | 2    | 1,218  | 1,238 | 26MAR08  | 26JUL11 | 07MAR08A    | 27SEP11   | 14 -     | 62   |                         |                   |                 |          |
| 01R30B0212 | S3-Maintenance Period (365 days)                        | 2    | 365    | 365   | 27JUL11  | 25JUL12 | 28SEP11     | 26SEP12   | 0 -      | 62   |                         |                   |                 | -        |
| 01R40C0214 | S4-Slope Stabilization works within Portion C           | 2    | 1,218  | 1,219 | 26MAR08  | 26JUL11 | 26MAR08A    | 27JUL11   | 13       | 0    |                         |                   |                 |          |
| 01R40C0216 | S4-Maintenance Period (365 days)                        | 2    | 365    | 365   | 27JUL11  | 25JUL12 | 28JUL11     | 26JUL12   | 0        | 0    |                         |                   |                 |          |
| 01R50D0218 | S5-Slope Stabilization works within Portion D           | 2    | 1,308  | 1,308 | 28DEC07  | 27JUL11 | 28DEC07A    | 01DEC11   | 19 -1    | 27 = |                         |                   |                 |          |
| 01R50D0220 | S5-Maintenance Period (365 days)                        | 2    | 365    | 365   | 28JUL11  | 26JUL12 | 02DEC11     | 30NOV12   | 0 -1     | 27   |                         |                   |                 |          |
| 01R60G0222 | S6-Works within Portion G                               | 2    | 608    | 609   | 26NOV09  | 26JUL11 | 26NOV09     | 27JUL11   | 0        | 0    |                         |                   |                 |          |
| 01R60G0224 | S6-Maintenance Period (365 days)                        | 2    | 365    | 365   | 27JUL11  | 25JUL12 | 28JUL11     | 26JUL12   | 0        | 0    |                         |                   |                 |          |
| 01R7000226 | S7-Ladscape softworks & establishment works             | 2    | 1,673  | 1,673 | 28DEC07  | 26JUL12 | 28DEC07A    | 30NOV12   | 15 -1    | 27 = |                         |                   |                 | <u> </u> |
| 01R7000228 | S7-Maintenance Period (30 days)                         | 2    | 30     | 30    | 27JUL12  | 25AUG12 | 01DEC12     | 30DEC12   | 0 -1     | 27   |                         |                   |                 |          |
| 01R0000302 | or the SO as per ER 12  Provide temporary accommodation | 2    | 7      | 7     | 28DEC07  | 03JAN08 | 28DEC07A    | 15.JAN08A | 100      | tc   | the salisfaction of the | SO ER 12.3.1 r    | efers           |          |
| 01R0000304 | Design the SO's principle office                        | 2    | 30     | 95    | 28DEC07  | 26JAN08 | 28DEC07A    | -         | W-200    | 53   |                         |                   |                 |          |
| 01R0000305 | Erect Hoarding/Signboard/Gate/Fencing                   | 1    | 35     | 35    | 28JAN08  | 11MAR08 | 28MAR08A    |           | 60       | 0    | at Potions H            | & 1               |                 |          |
| 01R0000306 | Erect SO's principle office in Portion H1/H2            | 1    | 60     | 100   | 28JAN08  | 14APR08 | 19MAY08A    |           | 85       | 0 -  | to the satisfact        | 4                 |                 |          |
| 01R0000308 | Provide secondary offices, directed by SO               | 2    | 64     | 64    | 14MAR08  | 16MAY08 | 14SEP08     | 16NOV08   | 0        | 0    |                         | in 2 months after | the instruction |          |
| 01R0000310 | Provide transport for the SO as per App. ER,M           | 2    | 90     | 90    | 28DEC07  | 26MAR08 |             | 02MAY08A  | 100      | Di=  | ER 2.4; 3 nos. veh      |                   |                 |          |
| 01R0000311 | Provide survey equipments as per App. ER,M              | 2    | 30     | 30    | 28DEC07  | 26JAN08 |             | 19AUG08A  | 100      | В    | within 1 month o        |                   |                 |          |
| 01R0000314 | Maintain & Service the Principle Office                 | 2    | 1,594  | 1,539 | 15APR08  | 25AUG12 | 14SEP08     | 30NOV12   | 0        | 0    |                         |                   |                 |          |
| 01R0000316 | Maintain & Service the Secondary Office                 | 2    | 1,585  | 1,504 | 24APR08  | 25AUG12 | 19OCT08     | 30NOV12   | 0        | 0    |                         |                   |                 |          |
| 01R0000318 | Maintain & Service the transportation                   | 2    | 1,688  | 1,785 | 12JAN08  | 25AUG12 | 12JAN08A    | 30NOV12   | 8        | 0 =  |                         |                   |                 |          |
| 01R0000319 | Maintain & Service the survey equipments                | 2    | 1,673  | 1,748 | 27JAN08  | 25AUG12 | 18FEB08A    | 30NOV12   | 6        | 0 9  |                         |                   |                 |          |
| 01R0000372 |   | 2    | 0      | 30    |          |         | 01DEC12     | 30DEC12   | 0        | 0    |                         |                   |                 |          |
| Contractor | r's Accommodation as per ER.B                           |      | 1      |       |          |         |             |           |          |      |                         |                   |                 |          |
|            |   |      |        |       |          |         | _           |           |          |      |                         |                   |                 |          |
| 01R0001402 | Design Contractor's main office                         | 2    | 30     | 30    | 28DEC07  | 26JAN08 |             | 19MAY08A  |          | - 1  | to the satisfaction o   | f SO              |                 |          |
| 01R0001406 | Maintain & service Contractor's office                  | 2    | 1,594  |       | 15APR08  | 25AUG12 | 18JUL08A    |           | 0        | 0    |                         |                   | 1               |          |
| 01R0001408 | Demolish & removal of Contractor's main office          | 2    | 30     |       | 26AUG12  | 24SEP12 | 01DEC12     | 30DEC12   | 0        | 0    |                         |                   |                 |          |
|            |   |      | 0      | 50*   | 1        |         | 101/10 V080 | 17JUL08A  | 100      |      | the satisfaction        | of the SO         | 1 1 1           |          |
| 01R000141  | Erect Contractor's main office in Portion H1            | 1_1_ |        | 10    |          | 4       |             | 30MAY08A  |          |      | unio ine satistaction   | TOT THE SO        |                 | 1.       |

| ID           | Activity Description                             | Cal | Target<br>Dur | Orig<br>Dur | Target<br>Start | Target<br>Finish   | Early<br>Start               | Early<br>Finish  | %<br>Comp | Total | 2008   | 2009            | 2010           | 2011 | 2012     |
|--------------|--|-----|---------------|-------------|-----------------|--|------------------------------|--|-----------|-------|--|-----------------|----------------|------|----------|
| 01R0001413   | Install steel frames                             | 1   | 0             | 12          | Othic           | Fillion  | 31MAY08A                     | 1  | -         | rioat |  |                 |                |      |          |
| 01R0001414   | Install wall/roof panels, windows etc            | 1   | 0             | 6           |                 |  |                              | 30JUN08A   |           |       |  |                 |                |      |          |
| 01R0001415   | Install & E& M/ceiling/floor panels              | 1   | 0             | 8           |                 | +  | 02JUL08A                     |  | 100       |       |  |                 |                |      |          |
| 01R0001416   | Site clearance                                   | 1   | 0             | 1           |                 |  |                              | 17JUL08A   | 100       |       |  |                 |                |      |          |
| 01R0001417   | Install furnitures/internet & move in            | 1   | 0             | 2           |                 |  |                              | 17JUL08A   | 100       |       |  |                 |                |      |          |
| 5.va         | gramme & Monthly Report as per SCC               | 27  |               |             |                 |  | 11002007                     | 170020071  | 100       |       |  |                 |                |      |          |
| TO CHILD THE | gramme a monany responsas per soc                |     |               |             |                 |  |                              |  | _         |       |  |                 |                |      |          |
| 01R0000502   | Prepare/Submit draft Works Programme             | 2   | 7             | 7           | 14DEC07         | 20DEC07  | 14DEC07A                     | 21DEC07A   | 100       |       | ě  |                 |                |      |          |
| 01R0000504   | SO's review/comment on draft Works Programme     | 2   | 14            | 14          | 21DEC07         | 03JAN08  | 22DEC07A                     | 23JAN08A   | 100       |       | 售  |                 |                |      |          |
| 01R0000505   | Prepare/Submit draft Works Programme Rev. 1      | 2   | 0             | 28          |                 |  | 24JAN08A                     | 15FEB08A   | 100       |       | 8  |                 |                |      |          |
| 01R0000506   | Prepare/Submit 1st 3-Month Rolling Programme     | 2   | 14            | 14          | 14DEC07         | 27DEC07  | 14DEC07A                     | 03JAN08A   | 100       |       | 9  |                 |                |      |          |
| 01R0000507   | SO's approval on draft Works Programme           | 2   | . 0           | 14          |                 |  | 16FEB08A                     | 28MAR08A   | 100       |       |  |                 |                |      |          |
| 01R0000508   | Submit Detailed Works Programme                  | 2   | 7             | 7           | 04JAN08         | 10JAN08  | 28AUG08                      | 03SEP08  | 0         | 172   | 1  |                 |                |      |          |
| 01R0000510   | SO's Approval of Works Programme                 | 2   | 7             | 7           | 11JAN08         | 17JAN08  | 04SEP08                      | 10SEP08  | 0         | 172   | a  |                 |                |      |          |
| 01R0000512   | Monthly Update for all Programme                 | 2   | 1,682         | 1,779       | 18JAN08         | 25AUG12  | 18JAN08A                     | 30NOV12  | 13        | 30    |  |                 |                |      |          |
| 01R0000514   | Contractor's Monthly Progress Report             | 2   | 1,678         | 1,775       | 22JAN08         | 25AUG12  | 22JAN08A                     | 30NOV12  | 12        | 30    |  |                 |                |      |          |
| Safety Plan  | n as per SCC 35                                  |     |               |             |                 |  |                              |  |           |       |  |                 |                |      |          |
|              |  |     |               |             |                 |  |                              |  | ,         |       |  |                 |                |      |          |
| 01R0000602   | Submit draft Safety Plan                         | 2   | 14            | 14          | 14DEC07         | 27DEC07  | 14DEC07A                     |  |           |       | within 14 da   |                 |                |      |          |
| 01R0000604   | Hold an ad hoc meeting with RE on Safety Plan    | 2   | 7             | 7           | 28DEC07         | 03JAN08  | 31DEC07A                     |  | 100       |       | within 7 day   | s from the sub  | mission of DSP |      |          |
| 01R0000606   | Submit 6 copies of the Safety Plan               | 2   | 35            | 35          | 14DEC07         | 17JAN08  | 14DEC07A                     |  | 100       |       | within 35  | days of LOA     |                |      |          |
| 01R0000608   | Submit updated safety orgainiza. chart monthly   | 2   | 1,682         | 1,747       | 18JAN08         | 25AUG12  | 20MAR08A                     | 30DEC12  | 9         | .535  |  |                 |                |      | _        |
| 17R0000602   | Fulfill all relevant safety obligation           | 2   | 1,703         | 1,830       | 28DEC07         | 25AUG12  | 28DEC07A                     | 30DEC12  | 7         | 0     |  |                 |                |      |          |
| Contractor   | r's All Insurances                               |     |               |             |                 |  |                              |  |           |       |  | ,               |                |      |          |
| 01R0000704   | Submit documents for all insurances are effected | 2   | 21            | 21          | 14DEC07         | 03JAN08  | 14DEC07A                     | 0285008  | 71        | 0     | 30   | per SCC9, SC    | C10 & SCC45    |      |          |
|              |  |     |               | 21          | 14DECO1         | 00071100   | TADECOTA                     | 023LF 00   |           | -     | as   | i per 0003, 00  | 010 & 30043    |      |          |
| Quanty Sys   | stem as per ER 9.3                               |     |               |             |                 |  |                              |  |           |       |  |                 |                |      |          |
| 01R0000802   | Appoint a Quality Manager                        | 2   | 14            | 14          | 28DEC07         | 10JAN08  | 28DEC07A                     | 02.JAN08A  | 100       |       | as per SCC   | 74 within 14 da | eys of DOC     |      |          |
| 01R0000804   | Submit proposed Quality System for SO's consent  | 2   | 28            | 28          | 14DEC07         | 10JAN08  | 14DEC07A                     |  | 100       |       | within 28 da   | PPH 1- 1        | ,, 0.00        |      |          |
| 01R0000806   | Submit QSSP for approval of the SO               | 2   | 28            | 28          | 28DEC07         | 24JAN08  | 28DEC07A                     |  | 200000    |       | 7  | days of DOC     |                |      |          |
| 01R0000808   | Maintain & update Quality System                 | 2   |               | 2000        | 25JAN08         | 25AUG12  | 25JAN08A                     | The second by the second   | 13        | 0     | THE STATE OF THE S | 3,000           |                |      | <u> </u> |
| Environme    |  |     | 1,070         | 1,002       | 200711100       | 20/10012   | 2007 (11007)                 | 0002012  | 10        |       |  |                 |                |      |          |
|              |  |     |               |             |                 |  |                              |  |           |       |  |                 |                |      |          |
| 01R0000902   | Nominate Environmental Officer                   | 2   | 14            | 14          | 14DEC07         | 27DEC07  | 14DEC07A                     | 21DEC07A   | 100       |       | as per ER B.   | 1 Clause 1.74/  | A1(2)          |      |          |
| 01R0000903   | Establish a billing account for disposal         | 2   | 21            | 21          | 14DEC07         | 03JAN08  | 14DEC07A                     | 02JAN08A   | 100       |       | per Notes to   | Tenderer (AA)   |                |      |          |
| 01R0000904   | Submit draft EMP                                 | 2   | 21            | 21          | 14DEC07         | 03JAN08  | 14DEC07A                     |  | 100       |       | SCC69, with  | in 21 days of L | OA             |      |          |
| 01R0000906   | Revise draft EMP within 7 days of SO's notice    | 2   | 14            | 14          | 04JAN08         | 17JAN08  | 04JAN08A                     | 21FEB08A   | 100       |       | ≅as per SC   | C69             |                |      |          |
|              |  | 2   | 45            | 45          | 14DEC07         | The second secon | I have a server and a server | The second secon |           |       | 107  | C69, within 45  | .4 . 1         | 1 I  |          |

| ID                                | Activity   | Cal | Target | Orig  | Target  | Target    | Early      | Early                | %       | Total | 2008 2009 2010 2011 2012   |
|-----------------------------------|--|-----|--------|-------|---------|-----------|------------|----------------------|---------|-------|--|
|                                   | Description  | ID  | Dur    | Dur   | Start   | Finish    | Start      | Finish               | Comp    | -     | the state of the s |
| 01R0000910                        | Review/update/submit EMP monthly                             | 2   | 1,642  | 1,769 | 28JAN08 | 26JUL12   |            | 30NOV12              | 5       | _     |  |
| 01R0000912                        | Employ IET   | 2   | 21     | 21    | 14DEC07 | 03JAN08   |            | 02JAN08A             | 100     |       | to the approval of the SO  |
| 01R0000914                        | Submit Baseline Monitoring Plan                              | 2   | 21     | 21    | 28DEC07 | 17JAN08   |            | 18JAN08A             | 100     |       | for approval of the SO & EPD   |
| 01R0000915                        | Seek for EPD's Agreement on WQML & schedule                  | . 2 | 21     | 21    | 18JAN08 | 07FEB08   |            | 31JAN08A             | 100     |       | 0  |
| 01R0000916                        | Carry out baseline monitoring                                | 2   | 37     | 37    | 31JAN08 | 07MAR08   | 11FEB08A   | 20MAR08A             | 100     |       |  |
| 01R0000918                        | Prepare/submit reports for baseline monitoring               | 2   | 20     | 20    | 27FEB08 | 17MAR08   | 21MAR08A   | 28MAR08A             | 100     |       | □for approval of the SO  |
| 01R0000920                        | Impact monitoring & reporting                                | 2   | 1,592  | 1,705 | 18MAR08 | 26JUL12   | 01APR08A   | 30NOV12              | 2       |       |  |
| 17R0000902                        | Fulfill all relevant environmental obligation                | 2   | 1,673  | 1,800 | 28DEC07 | 26JUL12   | 28DEC07A   | 30NOV12              | 5       | 30    |  |
| Excavation                        | n Permit/Utilities per SCC 54 & SCC 83                       |     |        |       |         |           |            |                      |         |       |  |
| 01.0001.002                       | Nominate IIUMS co-ordinator                                  | 2   | 7      | 7     | 14DEC07 | 20DEC07   | 14DEC07A   | 15JAN08A             | 100     |       | ■as per SCC83; within 7 days of LOA  |
| 01R0001002                        |  | 2   |        |       | 21DEC07 | 03JAN08   |            | 29FEB08A             | -       |       | as per 30003, within 7 days of 20A   |
| 01R0001004                        | SO approve IIUMS co-ordinator                                |     | 14     | 14    | +       | 03JAN08   |            |                      |         | -     | ■as per €R.B1 1.59; within 7 days of DOC   |
| 01R0001006                        | Submit brand name of UGS detection equipment                 | 2   | 7      |       | 28DEC07 | 24JAN08   |            | 18FEB08A<br>05APR08A | 0.650   | 1     | as per ER By 1.59, Willim 7 days of DOC  |
| 01R0001008                        | Utilities detection & report to the SO                       | 2   | 21     |       | 04JAN08 | 24JAN08   |            | 29FEB08A             | 100     | -     |  |
| 01R0001010                        | Liaison with UUs   | 2   | 21     |       | 04JAN08 |           |            |                      | _       | -     |  |
| 01R0001012                        | Apply XP for site entrance construction                      | 2   | 7      | 7     | 25JAN08 | 31JAN08   |            | 08MAR08A             |         | -     | + 1  |
| 01R0001014                        | HyD process XP for site entrance construction                | 2   | 20     | 20    | 01FEB08 | 20FEB08   | TUMARUSA   | 28MAY08A             |         |       | ices ER B1 1.18A3(1); not less than 17 working days  |
| 01R0001016                        | HyD issue XP for site entrance construction                  | 2   | 0      | 0     |         | 20FEB08   | 00400004   | 28MAY08A             |         | +     |  |
| 01R0001018                        | Apply XP for GI works at I-1 & I-2                           | 2   | 0      | 1     | -       |           |            | 20MAY08A             |         |       |  |
| 01R0001020                        | HyD process XP for GI works at I-1 & I-2                     | 2   | 0      | 30    |         | -         | 23APR08A   |                      | -       | 137   |  |
| 01R0001022                        | HyD issue XP for GI works at I-1 & I-2                       | 1   | 0      | 0     |         | -         | 00400004   | 26SEP08              | 0       | -     |  |
| 01R0001024                        | Apply XP for trial grout at Fault F1                         | 2   | 0.     | 1     |         |           |            | 20MAY08A             | 0,640   |       |  |
| 01R0001026                        | HyD process XP for trial grout at Fault F1                   | 2   | 0      | 30    |         | -         | 23APR08A   |                      | 100     |       |  |
| 01R0001028                        |  | 1   | 0      | 0     |         |           |            | 22JUL08A             | 100     |       |  |
|                                   | ruction Condition Survey                                     |     |        |       |         |           |            |                      |         |       |  |
| <b>Preliminarie</b><br>01R0001102 |  | 2   | 30     | 30    | 28DEC07 | 26JAN08   | 28DEC074   | 19MAR08A             | 100     | r     | as per ER. B1 1.61;  |
|                                   | Submit nos. & extent of the affected EBS                     | 2   | 30     |       | 28DEC07 | 26JAN08   |            | 19MAR08A             | 7077400 |       | ≥ as per ER. B1 1.61; within 30 days of DOC  |
|                                   |  |     | 30     | -00   | ZODEOO  | 200711100 | ZODEOUTA   | 10141/41/00/4        | 100     |       | as por Living manner of days of Dog  |
| 01R0001118                        | 1 between I-1 & I-2<br>Carry out stg 1 PCS between I-1 & I-2 | 2   | 0      | 6     |         |           | 22ADD08A   | 23APR08A             | 100     |       |  |
|                                   |  | 2   | 0      | 60    |         | -         | 24APR08A   |                      | 55      |       |  |
| 01R0001120                        | Prepare/submit reports for stg 1 PCS bet I-1&I-2             | 2   | 0      |       |         | -         | 31MAY08A   |                      |         | 138   |  |
| 01R0001122                        |  |     | 0      | 00    |         | -         | STIVIATORA | 0700106              | 11      | 130   |  |
|                                   | 1 between I-2 & I-3  |     |        | _     |         |           | OEMADOCA   | 20400004             | 400     |       |  |
|                                   | Carry out stg 1 PCS between I-2 & I-3                        | 2   | 0      | _     |         |           |            | 30APR08A             |         | _     |  |
| 01R0001132                        |  | 2   | 0      |       |         |           | 24APR08A   |                      | 55      | _     | 1  |
| 1R0001134                         |  | 2   | 0      | 60    |         |           | 24MAY08A   | 0700108              |         | -50   |  |
|                                   | 1 between I-3 & O-1  |     |        |       |         |           | 0-14-1-1   | 001117000            |         | _     |  |
| 01R0001142                        |  | 2   | 0      |       | ļ       |           |            | 26MAR08A             |         |       |  |
| 01R0001144                        | Prepare/submit reports for stg 1 PCS bet I-3&O-1             | 2   | 0      |       |         |           | 26MAR08A   |                      |         | 180   |  |
| 01R0001146                        | Review/accept reports for stg 1 PCS bet I-3&O-1              | 2   | 0      | 60    |         | 1         | 31MAY08A   | 25SEP08              | 77      | 180   |  |

| ID                                | Activity   | Cal                      | Target | 91000000 | Target  | Target  | Early  | Early  |          | Total      | 2008     | 2009 | 2010 | 2011 | 2012 |
|-----------------------------------|--|--------------------------|--------|----------|---------|---------|--|--|----------|------------|----------|------|------|------|------|
|                                   | Description                                      | ID                       | Dur    | Dur      | Start   | Finish  | Start  | Finish   | Comp     | Float      |          |      |      |      |      |
| PCS Stage 1                       | at vicinity of O-1                               |                          |        |          |         |         |  |  |          |            |          |      |      |      |      |
| 01R0001106                        | Carry out stg 1 PCS at vicinity of O-1           | 2                        | 72     | 5        | 28JAN08 | 28APR08 | 25MAR08A   |  | 100      |            | -        |      |      |      |      |
| 01 <b>R0001108</b>                | Prepare/submit reports for stg 1 PCS at O-1      | 2                        | 72     |          | 05FEB08 | 07MAY08 | 31MAR08A   |  | 77       | 23874      |          |      |      |      |      |
| 01 <b>R0001110</b>                | Review/accept reports for stg 1 PCS at O-1       | 2                        | 0      | 60       |         |         | 27MAY08A   | 24SEP08  | 77       | -54        |          |      |      |      |      |
| PCS Stage 2                       | 2 between I-1 & I-2                              |                          |        |          |         |         |  |  |          |            |          |      |      |      |      |
| 01R0001124                        | Carry out stg 2 PCS between I-1 & I-2            | 2                        | 0      | 5        |         |         | 22APR08A   | 02JUN08A   | 100      |            | =        |      |      |      |      |
| 01R0001126                        | Prepare/submit reports for stg 2 PCS bet I-1&I-2 | 2                        | 0      | 60       |         |         | 24APR08A   | 23SEP08  | 55       | 138        |          |      |      |      |      |
| 01R0001128                        | Review/accept reports for stg 2 PCS bet I-1&I-2  | 2                        | 0      | 60       |         |         | 11JUN08A   | 07OCT08  | 77       | 138        |          | ē    |      |      |      |
| PCS Stage 2                       | 2 between I-2 & I-3                              |                          |        |          |         |         |  |  |          |            |          |      |      |      |      |
| 01R0001136                        | Carry out stg 2 PCS between I-2 & I-3            | 2                        | 0      | 5        |         |         | 30APR08A   | 07JUN08A   | 100      |            | <b>E</b> |      |      |      |      |
| 01R0001138                        | Prepare/submit reports for stg 2 PCS bet I-2&I-3 | 2                        | 0      | 60       |         |         | 02MAY08A   | 23SEP08  | 55       | -50        |          |      |      |      |      |
| 01R0001140                        | Review/accept reports for stg 2 PCS bet I-2&I-3  | 2                        | 0      | 60       |         |         | 13JUN08A   | 07OCT08  | 77       | -50        |          | •    |      |      |      |
| PCS Stage 2                       | 2 between I-3 & O-1                              |                          |        |          |         |         |  |  |          |            |          |      |      |      |      |
| 01R0001148                        | Carry out stg 2 PCS between I-3 & O-1            | 2                        | 0      | 5        |         |         | 09MAY08A   | 13JUN08A   | 100      |            | =        |      |      |      |      |
| 01R0001150                        | Prepare/submit reports for stg 2 PCS bet I-3&O-1 | 2                        | 0      | 60       |         |         | 04JUN08A   | 11SEP08  | 75       | 207        |          |      |      |      |      |
| 01R0001152                        | Review/accept reports for stg 2 PCS bet I-3&O-1  | 2                        | 0      | 60       |         |         | 19JUN08A   | 25SEP08  | 77       | 207        |          |      |      |      |      |
| PCS Stage 2                       | 2 at Vicinity of O-1                             |                          |        |          |         |         | -  |  |          |            |          |      |      |      |      |
| 01R0001112                        |  | 2                        | 0      | 12       |         |         | 01APR08A   | 06JUN08A   | 100      |            |          |      |      |      |      |
| 01R0001114                        | Prepare/submit reports for stg 2 PCS at O-1      | 2                        | 0      | 60       |         |         | 02JUN08A   |  | 77       | 1947       |          |      |      |      |      |
| 01R0001116                        | Review/accept reports for stg 2 PCS at O-1       | 2                        | 0      | - 33     |         |         | 17JUN08A   | and the street of the street o |          | -54        |          |      |      |      |      |
|                                   | ondition construction survey; I-1                | - II - <del>- 3</del> /- | 50     |          |         |         | 1 100 200  | -10-47   |          |            |          |      |      |      |      |
| 01R0001154                        | Prepare/submit reports for EBS at I-1            | 2                        | 0      | 28       | 1       |         | 28AUG08  | 24SEP08  | 0        | 161        |          |      |      |      |      |
| 01R0001156                        | Review/accept reports for EBS at I-1             | 2                        | 0      |          |         |         | To the state of th | 22OCT08  |          | 186        |          | 0    |      |      |      |
|                                   | - Charles - Charles                              |                          | -      | 20       |         | -       | 20021 00   | 2200100  | -        | 100        |          |      |      |      |      |
| <b>Pre-const. c</b><br>01R0001158 | Prepare/submit reports for EBS at I-2            | 2                        | 0      | 28       |         |         | 28AUG08  | 24SEP08  | 0        | -27        |          |      |      |      |      |
|                                   | Review/accept reports for EBS at I-2             | 2                        | 0      |          |         |         | 25SEP08  |  | 0        |            | ľ        |      |      |      |      |
| 01R0001160                        |  |                          | U      | 20       |         | 4       | 253EF06  | 2200100  | U        | -2         |          |      |      |      | -    |
|                                   | condition construction survey; I-3               |                          |        | 00       |         | 1       | 20411000   | 0405000  | 0        | 240        |          |      |      |      |      |
| 01R0001162                        | Prepare/submit reports for EBS at I-3            | 2                        | 0      | 536.     | -       |         | 28AUG08  | 24SEP08  |          | 218<br>243 | r        |      |      |      |      |
| 01R0001164                        | Review/accept reports for EBS at I-3             | 2                        | 0      | 20       | 1       |         | 25SEP08  | 22OCT08  | 0        | 243        |          | -    |      |      |      |
|                                   | ondition construction survey; O-1                |                          |        | 920      |         | -       |  |  |          | 000        | l L      |      |      |      |      |
| 01R0001166                        | Prepare/submit reports for EBS at O-1            | 2                        | 0      |          |         |         | 28AUG08  | 24SEP08  | 0        |            | ľ        |      |      |      |      |
| 01R0001168                        | Review/accept reports for EBS at O-1             | 2                        | 0      | 28       |         | 4       | 25SEP08  | 22OCT08  | 0        | 16         |          |      |      |      |      |
|                                   | ondition construction survey; Tunnel             |                          |        |          |         |         |  |  |          |            |          |      |      |      |      |
|                                   | Prepare/submit reports for EBS along Tunnel alig | 2                        |        | 28       |         |         | 28AUG08  | Section Add December   | 0        | - 0.0      | ľ        |      |      |      |      |
| raffic                            | Review/accept reports for EBS along Tunnel align | 2                        | 0      | 28       |         |         | 25SEP08  | 22OCT08  | 0        | 16         |          | Щ    |      |      | 1+   |
|                                   |  |                          |        |          | Luca    |         | 1  | P TO  | To state |            |          |      |      |      |      |
| 01R0001202                        | Appoint Traffic Consultant/Traffic Engineer      | 2                        | 14     |          | 14DEC07 | 27DEC07 | 14DEC07A   |  |          |            |          |      |      |      |      |
| 01R0001204                        | Eng's Approval of Traffic Consultant             | 2                        | 7      | 21/22    | 28DEC07 | 03JAN08 | 28DEC07A   |  |          | -          |          | 7    |      |      |      |
| 01R0001206                        | Prepare/submit TTA Schemes (ingress & egress)    | 2                        | 14     | 14       | 04JAN08 | 17JAN08 | 04JAN08A   | 31JAN08A   | 100      |            | 2        |      |      |      |      |

| ID         | Activity Description                             | Cal | Target<br>Dur | Orig<br>Dur | Target<br>Start | Target<br>Finish | Early<br>Start | Early<br>Finish | %<br>Comp | Total<br>Float |   |
|------------|--|-----|---------------|-------------|-----------------|------------------|----------------|-----------------|-----------|----------------|---|
| 01R0001216 | Obtain endorsement of TTA schemes from TMLG      | 2   | 21            | 21          | 18JAN08         | 07FEB08          |                | 01APR08A        | 100       |                | =1nd TMLG scheduled on 11/03/081st TMLG was held on 12/02/0 |
| 01R0001234 | Approval of TTA schemes by the Authorities       | 2   | 28            | 14          | 08FEB08         | 06MAR08          | 02APR08A       | 19APR08A        | 100       |                | BHyD & Police ER.B1 1.15 (9) refers                         |
| 01R0001236 | Approval of TTA schemes by the Authorities       | 2   | 0             | 14          |                 |                  | 02APR08A       | 19APR08A        | 100       |                | BHyD & Police ER.B1 1.15 (9) refers                         |
|            | ent of Sub-contractors as per SCC 44             |     | 1             |             |                 |                  |                |                 |           |                |   |
| 01R0001302 | Submit a Sub-contractor Management Plan          | 2   | 30            | 30          | 14DEC07         | 12JAN08          | 14DEC07A       | 12JAN08A        | 100       |                | ≣within 30 days of LOA                                      |
| 01R0001304 | Submit Quarterly the Updated SMP                 | 2   | 1,597         | 1,642       | 12APR08         | 25AUG12          | 03JUL08A       | 30DEC12         | 3         | 0              |   |
| rees       |  |     |               |             |                 |                  |                |                 |           |                |   |
| Siu Ho Wan | as a New Tree Transplanting Area                 |     |               |             |                 |                  |                |                 |           |                |   |
| VO028-02   | Receive VO28 for new tree transplanting area     | 1   | 0             | 0           |                 |                  |                | 16AUG08A        | 100       |                | Area Within Sui Ho Wan Sewage Treatment Works               |
| VO028-04   | Preparation works for new T.T. area              | 2   | 0             | 20          |                 |                  | 18AUG08A       | 07SEP08         | 45        | -115           |   |
|            |  |     |               |             |                 |                  |                |                 |           |                |   |
| 01R0001502 | Appoint Landscape Specialist Contractor          | 2   | 14            | 14          | 14DEC07         | 27DEC07          | 14DEC07A       | 14JAN08A        | 100       |                |   |
| 01R0001504 | SO's Approval of Landscape Contractor            | 2   | 7             | 7           | 28DEC07         | 03JAN08          | 15JAN08A       | 28FEB08A        | 100       |                |   |
| 01R0001506 | Nominate competent person to oversee tree works  | 2   | 45            | 45          | 14DEC07         | 27JAN08          | 14DEC07A       | 29JAN08A        | 100       |                | ERB 26 02A; within 45 dyas of LOA                           |
| 01R0001510 | Obtain Tree Removal Permit by Others             | 2   | 90            | 90          | 28DEC07         | 26MAR08          | 28DEC07A       | 06MAR08A        | 100       |                | =ER 1.5 3 (2); within 3 mths from DOC                       |
| 01R0001512 | Remove / Transplant Trees start                  | 2   | 0             | 0           | 27MAR08         |                  | 08SEP08        |                 | 0         | -115           | ► ER 1.5[3(2) within 3 months from DOC                      |
| Survey     |  | l,  | 1             |             |                 |                  |                |                 |           |                |   |
| 01R0001602 | Appoint Surveyors                                | 2   | 14            | 14          | 28DEC07         | 10JAN08          | 28DEC07A       | 10JAN08A        | 100       |                |   |
| 01R0001604 | SO's Approval of Surveyor                        | 2   | 7             | 7           | 11JAN08         | 17JAN08          | 11JAN08A       | 16APR08A        | 100       |                |   |
| 01R0001608 | Initial Survey                                   | 1   | 28            | 28          | 18JAN08         | 22FEB08          | 18JAN08A       | 10MAR08A        | 100       |                |   |
| 01R0001610 | Maintain & carry out survey works                | 2   | 1,000         | 1,378       | 23FEB08         | 11JUL11          | 23FEB08A       | 01DEC11         | 8         | 0              |   |
| Smart Care | d System as per ER B.30                          |     | 1             |             |                 |                  |                |                 |           |                |   |
| 01R0001802 | Submit Smart Card Sys for SO's Approval          | 2   | 7             | 7           | 28DEC07         | 03JAN08          | 28DEC07A       | 15JAN08A        | 100       |                | As per ER.B30 30,06(2)SOR.s approval obtained on 13/02/08   |
| 01R0001804 | Install & start Operating Smart-Card System      | 2   | 60            | 60          | 28DEC07         | 25FEB08          | 28DEC07A       | 23FEB08A        | 100       |                |   |
| 01R0001806 | Operate & Maintain Smart-Card System             | 2   | 1,643         | 1,771       | 26FEB08         | 25AUG12          | 25FEB08A       | 30DEC12         | 4         | 0              |   |
| rocureme   | ent of Sub-contractor                            |     |               |             |                 |                  |                |                 |           |                |   |
| 01R0001904 | Spoil Disposal                                   | 2   | 60            | 60          | 14DEC07         | 11FEB08          | 28AUG08        | 26OCT08         | 0         | 184            | <u>-</u>  |
| 01R0001906 | Earthwork for Outfall O-1                        | 2   | 60            | 60          | 14DEC07         | 11FEB08          | 14DEC07A       | 05JUN08A        | 100       |                | awarded to Kin Lee  |
| 1R0001910  | Re-bar Supply                                    | 2   | 90            | 90          | 14DEC07         | 12MAR08          | 14DEC07A       | 30MAY08A        | 100       |                | awarded to VSC Steel Co. Ltd by PR                          |
| 01R0001912 | Soil Nailing                                     | 2   | 60            | 60          | 28DEC07         | 25FEB08          | 28DEC07A       | 02APR08A        | 100       |                | Geotech Eng Ltd   |
| 01R0001914 | H-piling Works                                   | 2   | 90            | 90          | 14DEC07         | 12MAR08          | 14DEC07A       | 09MAY08A        | 100       |                | awarded to Kin Wing   |
| 1R0001916  | Fabrication of Pre-cast Lining                   | 2   | 80            | 80          | 14DEC07         | 02MAR08          | 02JUN08A       | 26SEP08         | 63        | 9              |   |
| 1R0001920  | Drainage/Road Works for Access Road at I-3       | 2   | 90            | 60          | 14DEC07         | 12MAR08          | 08AUG08A       | 06OCT08         | 56        | 742            | <del></del>   |
| 01R0001922 | Temp. steel decking over Shing Mun Nullah at I-1 | 2   | 90            | 90          | 14DEC07         | 08APR08          | 14DEC07A       | 25APR08A        | 100       |                | awarded to Long Faith                                       |
| 01R0001924 | Design/Install Communication System              | 2   | 45            | 94          | 17MAY08         | 30JUN08          | 28JUN08A       | 29SEP08         | 45        | 545            | awarded to Shun Hing  |

| ID         | Activity   | Cal | - Problems | Orig    | Target  | Target  | Early                   | Early          | %    | Total | 2008 2009                   | 2010 | 2011 | 2012 |
|------------|--|-----|------------|---------|---------|---------|-------------------------|----------------|------|-------|-----------------------------|------|------|------|
|            | Description                                      | ID  | Dur        | Dur     | Start   | Finish  | Start                   | Finish         | Comp |       |                             |      |      |      |
| 01R0001925 | Design/install Flow Monitoring Devices           | 2   | 45         | 78      | 17MAY08 | 30JUN08 | 14JUL08A                | The same state |      | 703   | awarded to Soldata          |      |      |      |
| 01R0001936 | Procurement & delivery of Communication System   | 2   | 180        | 180     | 03JAN09 | 01JUL09 | 09MAR09                 | 04SEP09        | 0    |       |                             |      |      |      |
| 01R0001938 | Procurement/delivery of Flow Measurement Devices | 2   | 120        | 120     | 30OCT08 | 26FEB09 | 09MAR09                 | 06JUL09        | 0    | 0.000 |                             |      |      |      |
| 01R0018A02 | Supply TBM/Main Tunnel Construction              | 2   | 0          | 7       |         |         | I was the second of the | 21DEC07A       | 100  |       | awaded to Seli              |      |      |      |
| 01R0018A04 | Security   | 2   | 0          | 17      |         |         | 17DEC07A                | 02JAN08A       | 100  | )     |                             |      |      |      |
| 01R0018A06 | Progress Photo/Vedio                             | 2   | 0          | 25      |         |         | 29DEC07A                | 22JAN08A       | 100  | )     |                             |      |      |      |
| 01R0018A08 | Webpage/Physical Model/3D Animation              | 2   | 0          | 48      |         |         | 14DEC07A                | 14FEB08A       | 100  | )     | awarded to Intelibuild      |      |      |      |
| 01R0018A10 | Hoarding/Fencing Erection                        | 2   | 0          | 60      |         |         | 04JAN08A                | 03MAR08A       | 100  | )     | ■awarded to Chi Yau         |      | 1    |      |
| 01R0018A12 | Erection of Contractor's Office                  | 2   | 0          | 67      |         |         | 28DEC07A                | 03MAR08A       | 100  | )     | awarded to Ming Kee         |      |      |      |
| 01R0018A14 | Remote Control CCTV                              | 2   | 0          | 60      |         |         | 04JAN08A                | 03MAR08A       | 100  | ì     | awarded to Pilot Electronic |      |      |      |
| 01R0018A16 | Concrete Supply                                  | 2   | 0          | 45      |         |         | 14DEC07A                | 11MAR08A       | 100  | )     | Anderson                    |      |      |      |
| 01R0018A18 | Geotechnical Instrumentation                     | 2   | 0          | 60      |         |         | 15JAN08A                | 14MAR08A       | 100  | )     | awarded to Soldata          |      |      |      |
| 01R0018A20 | Drilling/Grouting for Geotchnical Instrumentat.  | 2   | 0          | 60      |         |         | 16JAN08A                | 15MAR08A       | 100  | )     | ■awarded to Lam             |      |      |      |
| 01R0018A22 | Site Clearance                                   | 2   | 0          | 60      |         |         | 26JAN08A                | 25MAR08A       | 100  | )     | awarded to King Shing       |      |      |      |
| 01R0018A24 | Erection of SOR's Office                         | 2   | 0          | 95      |         |         | 02JAN08A                | 05APR08A       | 100  | )     | awarded to Long Faith       |      |      |      |
| 01R0018A26 | Carry out Grout Trial at Fault F1                | 2   | 0          | 90      |         |         | 02APR08A                | 30JUN08A       | 100  | )     | avarded to Dril Tech        |      |      |      |
| 01R0018A28 | Design/Fabricate Segmental Lining Mould          | 2   | 0          | 90      |         |         | 23APR08A                | 21JUL08A       | 100  | )     | awarded to Korea Mould      |      |      |      |
| 01R0018A30 | Construction of Skin Walls                       | 2   | 0          | 90      |         |         | 21JUL08A                | 26SEP08        | 67   | 179   | 中                           |      |      |      |
| 01R0018A32 | Design/Fabricate/Supply/Install Conveyor Belt    | 2   | 0          | 90      |         |         | 14JUL08A                | 11OCT08        | 50   | 250   |                             |      |      |      |
| 01R0018A34 | Supply of Locomotive                             | 2   | 0          | 90      |         |         | 14JUL08A                | 11OCT08        | 50   | 199   |                             |      |      |      |
| 01R0018A36 | Excavation Works at I-1                          | 2   | 0          | 60      |         |         | 28AUG08                 | 26OCT08        | 0    | 182   |                             |      |      |      |
| 01R0018A38 | Construction of Steel Platform at O-1            | 2   | 0          | 50      |         |         | 28AUG08                 | 16OCT08        | 0    | 115   |                             |      |      |      |
| 01R0018A40 | Construction of Steel Platform at I-2            | 2   | 0          | 50      |         |         | 28AUG08                 | 16OCT08        | 0    | 59    |                             |      |      |      |
| 01R0018A42 | Pre-excavation Grouting for Shaft Excavation     | 2   | 0          | 60      |         |         | 28AUG08                 | 26OCT08        | 0    | -37   |                             |      |      |      |
| 01R0018A44 | Strengthening Works for WSD Tunnel No. 3         | 2   | 0          | 60      |         |         | 28AUG08                 | 26OCT08        | 0    | 98    |                             |      |      |      |
| 01R0018A46 | Excavation/Construction of TBM Launching Chamber | 2   | 0          | 70      |         |         | 28AUG08                 | 05NOV08        | 0    | 2     |                             |      |      |      |
| 01R0018A48 | Construction of Subgrade Structure at I-1        | 2   | 0          | 90      |         |         | 28AUG08                 | 25NOV08        | 0    | 465   |                             |      |      |      |
| 01R0018A50 | Shaft Excavation by RCD at I-2                   | 2   | 0          | 90      |         |         | 28AUG08                 | 25NOV08        | 0    | -43   | <b></b>                     |      |      |      |
| 01R0018A52 | Excavation/Construction of Shafts/Adits/Chambers | 2   | 0          | 90      |         |         | 28AUG08                 | 25NOV08        | 0    | 127   |                             |      |      |      |
| 01R0018A54 | Construction of Hopper at O-1                    | 2   | 0          | 90      |         |         | 28AUG08                 | 25NOV08        | 0    | 205   | <u> </u>                    |      |      |      |
| 01R0018A56 | Suttering of Spiral Ramp                         | 2   | 0          | 90      |         |         | 28AUG08                 | 25NOV08        | 0    | 542   |                             |      |      |      |
| 01R0018A58 | Open Cut Excavation & Construction at I-3        | 2   | 0          | 90      |         |         | 28AUG08                 | 25NOV08        | .0   | 219   |                             |      |      |      |
| 01R0018A60 | Lining Formworks for Underground Structures      | 2   | 0          | 90      |         |         | 28AUG08                 | 25NOV08        | 0    | 787   |                             |      |      |      |
| 01R0018A61 | Tunnel Data Management System (TDMS)             | 2   | 0          | 90      |         |         | 28AUG08                 | 25NOV08        | 0    | 58    |                             |      |      |      |
| 01R0018A62 | Supply of Rail Track                             | 2   | 0          | 90      |         |         | 28AUG08                 | 25NOV08        | 0    | 110   |                             |      |      |      |
| 01R0018A64 | Supply of Aggregate                              | 2   | 0          | 120     |         |         | 28AUG08                 | 25DEC08        | 0    | 124   |                             | 1    |      |      |
| 01R0018A66 | Marine Works at O-1                              | 2   | 0          | 200     |         |         | 28AUG08                 | 15MAR09        | 0    | 575   |                             |      |      |      |
| 01R0018A68 | Construct Box Culvert/Cascade/Spiral Ramp at O-1 | 2   | 0          | TO 1500 |         |         | 28AUG08                 | 15MAR09        | 0    | 372   |                             |      |      |      |
| 01R0018A70 | Metal Works                                      | 2   | 0          | 200     |         |         | 28AUG08                 | 15MAR09        | 0    | 792   |                             |      |      |      |
| 1R0018A72  | Pipe Jacking Works at Lo Wai                     | 2   | 0          | 250     |         |         | 28AUG08                 | 04MAY09        | 0    | -     |                             |      |      | 1 1  |
|            | Finishing Works                                  | 2   | 0          | 250     |         |         |                         | 04MAY09        | 0    | 764   |                             |      |      | i I  |

| ID          | Activity Description                            | Cal | Target<br>Dur | Orig<br>Dur | Target<br>Start | Target<br>Finish | Early<br>Start | Early<br>Finish | %<br>Comp | Total<br>Float | 2008 2009                            | 2010 201        | 11 2012    |
|-------------|---|-----|---------------|-------------|-----------------|------------------|----------------|-----------------|-----------|----------------|--------------------------------------|-----------------|------------|
| Others      |   |     |               |             |                 |                  |                |                 |           |                |                                      |                 |            |
|             |   |     |               |             |                 |                  |                |                 |           |                |                                      |                 |            |
| 01R0001928  | Submit Contractor's Management Team             | 2   | 0             | 0           |                 | 10JAN08          |                | 10JAN08A        | 100       |                | ♦Per SCC 74                          |                 |            |
| 01R0001930  | Submit Photographer for Monthly Progress Photo  | 2   | 0             | 0           | 27JAN08         |                  | 28JAN08A       |                 | 100       |                | ♦Per ER10.7                          |                 |            |
| 01R0001932  | Install Project Signboards at Potions A,B,C & D | 2   | 120           | 30          | 28DEC07         | 25APR08          | 28AUG08        | 26SEP08         | 0         | 0              | <b>—</b>                             |                 |            |
| 01R0001934  | Presentation of TDMS to SOR/ Employer; ER 4.4.6 | 2   | 60            | 6           | 22JUN08         | 20AUG08          | 26NOV08        | 01DEC08         | 0         | 58             | nel excavation/presentation of the T | DMS to the SO & | DSD before |
| 01R0001940  | Prepare/submit Operation & Maintenance Manual   | 2   | 90            | 90          | 02AUG11         | 30OCT11          | 07DEC11        | 05MAR12         | 0         | 300            |                                      | as per ER4      | 1-1-11     |
| 01R0001942  | Prepare/submit As-built Drawings                | 2   | 90            | 90          | 28JUL11         | 25OCT11          | 02DEC11        | 29FEB12         | 0         | 305            |                                      | as per ER4      | 1.1.12     |
| 01R0001944  | Produce 2 documentary video for tunnel          | 2   | 30            | 30          | 28JUL11         | 26AUG11          | 02DEC11        | 31DEC11         | 0         | 365            |                                      |                 | ER 4.4.13  |
| Constructi  | on Risk Assessment (CRA) as per ER 7            |     |               |             |                 |                  |                |                 |           |                |                                      |                 |            |
| PCRA for Wo | orks at Portion A (I-1)                         |     |               |             |                 |                  |                |                 |           |                |                                      |                 |            |
|             | Prepare/submit PCRA for works at I-1            | 2   | 0             | 21          |                 |                  | 07APR08A       | 20AUG08A        | 100       |                | AIP submission                       |                 |            |
| 01R00PCRA4  | DC review & certify PCRA for works at I-1       | 2   | 0             | 60          |                 |                  | 22MAY08A       | 26SEP08         | 50        | 128            |                                      |                 |            |
| 01R00PCRA6  | SOR review & accept PCRA at works at I-1        | 2   | 0             | 60          |                 |                  | 12MAY08A       | 24OCT08         | 50        | 128            |                                      |                 |            |
| 1R00PCRA8   | GEO review/agree DCRA                           | 2   | 0             | 28          |                 |                  | 27SEP08        | 24OCT08         | 0         | 128            | ER Cl. 7.6.4                         |                 |            |
| PCRA for Wo | orks at Portion B (I-2)                         |     |               |             |                 |                  |                |                 |           |                |                                      |                 |            |
|             | Prepare/submit PCRA for works at I-2            | 2   | 0             | 21          |                 |                  | 14APR08A       | 20AUG08A        | 100       |                | AIP submission                       |                 |            |
| 1R00PCRB4   | DC review & certify PCRA for works at I-2       | 2   | 0             | 60          |                 |                  | 22MAY08A       | 26SEP08         | 50        | -62            |                                      |                 |            |
| 01R00PCRB6  | SOR review & accept PCRA at works at I-2        | 2   | 0             | 60          |                 |                  | 22MAY08A       | 24OCT08         | 50        | -62            |                                      |                 |            |
| 01R00PCRB8  | GEO review/agree DCRA                           | 2   | 0             | 28          |                 |                  | 27SEP08        | 24OCT08         | 0         | -62            | ■ER Cl. 7.6.4                        |                 |            |
| PCRA for Wo | orks at Portion C (I-3)                         |     |               |             |                 |                  |                |                 |           |                |                                      |                 |            |
|             | Prepare/submit PCRA for works at I-3            | 2   | 0             | 21          |                 |                  | 01APR08A       | 20AUG08A        | 100       |                | AIP submission                       |                 |            |
| 01R00PCRC4  | DC review & certify PCRA for works at I-3       | 2   | 0             | 60          |                 |                  | 21MAY08A       | 26SEP08         | 50        | 181            | <b>—</b>                             |                 |            |
| 01R00PCRC6  | SOR review & accept PCRA at works at 1-3        | 2   | 0             | 60          |                 |                  | 21MAY08A       | 24OCT08         | 50        | 181            |                                      |                 |            |
| 01R00PCRC8  | GEO review/agree DCRA                           | 2   | 0             | 28          |                 |                  | 27SEP08        | 24OCT08         | 0         | 181            | WER CI. 7.6.4                        |                 |            |
| PCRA for Wo | orks at Portion D/E (O-1)                       | .1  |               |             |                 |                  |                |                 |           |                |                                      |                 |            |
|             | Prepare/submit PCRA for works at O-1            | 2   | 0             | 21          |                 |                  | 01APR08A       | 20AUG08A        | 100       |                | AIP submission                       |                 |            |
| 1R00PCRD4   | DC review & certify PCRA for works at O-1       | 2   | 0             | 60          |                 |                  | 21MAY08A       | 26SEP08         | 50        | -77            |                                      |                 |            |
| 01R00PCRD6  | SOR review & accept PCRA at works at O-1        | 2   | 0             | 60          |                 |                  | 12MAY08A       | 24OCT08         | 50        | -77            |                                      |                 |            |
| 01R00PCRD8  | GEO review/agree DCRA                           | 2   | 0             | 28          |                 |                  | 27SEP08        | 24OCT08         | 0         | -77            | ■ER Cl. 7.6.4                        |                 |            |
| PCRA for Wo | orks at Portion F/J (Main Tunnel)               |     |               |             |                 |                  |                |                 |           |                |                                      |                 |            |
| 01R00PCRF2  | Prepare/submit PCRA for main tunnel works       | 2   | 0             | 21          |                 |                  | 09JUN08A       | 07SEP08         | 50        | -53            | AIP submission                       |                 |            |
| 01R00PCRF4  | DC review & certify PCRA for main tunnel works  | 2   | 0             | 60          |                 |                  | 14JUL08A       | 07OCT08         | 50        | -53            | <b>+</b>                             |                 |            |
| 01R00PCRF6  | SOR review & accept PCRA for main tunnel works  | 2   | 0             | 60          |                 |                  | 16JUL08A       | 04NOV08         | 50        | -53            | <del>     </del>                     |                 |            |
| 01R00PCRF8  | GEO review/agree DCRA                           | 2   | 0             | 28          |                 |                  | 08OCT08        | 04NOV08         | 0         | -53            | ■ER Cl. 7.6.4                        |                 |            |
| DCRA for Wo | orks at Portion A (I-1)                         |     |               |             |                 |                  |                |                 |           |                |                                      |                 |            |
|             | Prepare/submit DCRA for works at I-1            | 2   | 0             | 14          |                 |                  | 18OCT08        | 31OCT08         | 0         | 128            | DDA submission                       |                 |            |
| 1R00DCRA4   | DC review & certify DCRA for works at I-1       | 2   | 0             | 21          |                 |                  | 01NOV08        | 21NOV08         | 0         | 128            | p                                    |                 |            |
| 01R00DCRA6  | SOR review & accept DCRA at works at I-1        | 2   | 0             | 49          |                 |                  | 01NOV08        | 19DEC08         | 0         | 128            |                                      |                 |            |
| 01R00DCRA8  | GEO review/agree DCRA                           | 2   | 0             | 28          |                 |                  | 22NOV08        | 19DEC08         | 0         | 128            | ■ER Cl. 7.6.4                        |                 |            |

| ID          | Activity  | Cal | Target | 130 00000 | Target  | Target  | Early    | Early    |      | Total | 2008           | 3 2009 2010                                      | 2011              | 2012  |
|-------------|---|-----|--------|-----------|---------|---------|----------|----------|------|-------|----------------|--|-------------------|-------|
|             | Description                                     | ID  | Dur    | Dur       | Start   | Finish  | Start    | Finish   | Comp | Float |                |  |                   |       |
|             | orks at Portion B (I-2)                         | -   | 0      | 4.4       |         |         | 400CT00  | 24.OCT00 | 0    | 60    |                | DDA submission                                   |                   |       |
|             | Prepare/submit DCRA for works at I-2            | 2   | 0      | 14        |         |         | 18OCT08  | 31OCT08  | 0    |       |                | DDA Submission                                   |                   |       |
|             | DC review & certify DCRA for works at I-2       | 2   | 0      | 21        |         |         |          | 21NOV08  | 0    |       |                | L l  |                   |       |
|             | SOR review & accept DCRA at works at I-2        | 2   | 0      | 49        | -       | _       | 01NOV08  | 19DEC08  | 0    |       |                | #ED 01 7.0.4                                     |                   |       |
|             | GEO review/agree DCRA                           | 2   | 0      | 28        |         |         | 22NOV08  | 19DEC08  | 0    | -60   |                | ■ER Cl. 7.6.4                                    |                   | -     |
|             | orks at Portion C (I-3)                         |     |        |           |         |         |          |          |      |       |                |  |                   |       |
|             | Prepare/submit DCRA for works at I-3            | 2   | 0      | 14        |         |         | 18OCT08  | 31OCT08  |      | 185   |                | DDA submission                                   |                   |       |
|             | DC review & certify DCRA for works at I-3       | 2   | 0      | 21        |         |         | 01NOV08  | 21NOV08  | 0    |       |                | <u>u</u>   |                   |       |
|             | SOR review & accept DCRA at works at I-3        | 2   | 0      |           |         |         | 01NOV08  | 19DEC08  | 0    |       |                |  |                   |       |
| 1R00DCRC8   | GEO review/agree DCRA                           | 2   | 0      | 28        |         |         | 22NOV08  | 19DEC08  | 0    | 185   |                | ©ER Cl. 7.6.4                                    |                   |       |
| OCRA for Wo | orks at Portion D/E (O-1)                       |     |        |           |         |         |          |          |      |       |                |  |                   |       |
| 1R00DCRD2   | Prepare/submit DCRA for works at O-1            | 2   | 0      | 14        |         |         | 18OCT08  | 31OCT08  | 0    | -77   |                | IDDA submission                                  |                   |       |
| 1R00DCRD4   | DC review & certify DCRA for works at O-1       | 2   | 0      | 21        |         |         | 01NOV08  | 21NOV08  | 0    | -42   |                | #  |                   |       |
| 1R00DCRD6   | SOR review & accept DCRA at works at 0-1        | 2   | 0      | 49        |         |         | 01NOV08  | 19DEC08  | 0    | -42   |                | <b>■</b>   |                   |       |
| 1R00DCRD8   | GEO review/agree DCRA                           | 2   | 0      | 28        |         |         | 22NOV08  | 19DEC08  | 0    | -42   |                | ■ER Cl. 7.6.4                                    |                   |       |
| OCRA for We | orks at Portion F/J (Main Tunnel)               |     |        |           |         |         |          |          |      |       |                |  |                   |       |
| 1R00DCRF2   | Prepare/submit DCRA for main tunnel works       | 2   | 0      | 21        |         |         | 22OCT08  | 11NOV08  | 0    | -53   |                | DDA submission                                   |                   |       |
| 1R00DCRF4   | DC review & certify DCRA for main tunnel works  | 2   | 0      | 21        |         |         | 12NOV08  | 02DEC08  | 0    | -53   |                | H  |                   |       |
| 1R00DCRF6   | SOR review & accept DCRA for main tunnel works  | 2   | 0      | 49        |         |         | 12NOV08  | 30DEC08  | 0    | -53   |                |  |                   |       |
| 1R00DCRF8   | GEO review/agree DCRA                           | 2   | 0      | 28        |         |         | 03DEC08  | 30DEC08  | 0    | -53   |                | ■ER Cl. 7.6.4                                    | . J [             |       |
| Physical M  | lodels & Other Material Display                 |     |        |           |         |         |          |          |      |       |                |  |                   |       |
|             |   |     |        |           |         |         |          |          |      |       |                |  |                   |       |
| 1R0002302   | Prepare/submit a physical model as per ER 4.4.8 | 2   | 90     | 255       | 14DEC07 | 12MAR08 | 15FEB08A | 26OCT08  | 73   | 0     | C              | to the acceptance of the SO                      |                   |       |
| 1R0002304   | Prepare/submit a 3-D animation model            | 2   | 90     | 255       | 14DEC07 | 12MAR08 | 15FEB08A | 26OCT08  | 73   | 0     | -5             | to the acceptance of the SOa                     | s per ER's Note 4 | 1.4.9 |
| nternet We  | ebsite as per ER 4.4.7                          |     |        |           |         |         |          |          |      |       |                |  |                   |       |
|             |   |     |        |           |         |         |          |          |      |       |                |  |                   |       |
| 1R0002402   | Propose the design of web page                  | 2   | 30:    | 30        | 28DEC07 | 26JAN08 | 28DEC07A | 09FEB08A | 100  |       | within!        | month from DOC                                   |                   |       |
| 1R0002404   | Produce the web page for approval of SO         | 2   | 30     | 211       | 27JAN08 | 25FEB08 | 10MAR08A | 06OCT08  | 81   | 0     |                | within 2 months from DOC                         |                   |       |
| 1R0002406   | SO's approval of web page                       | 2   | 30     | 30        | 26FEB08 | 26MAR08 | 07OCT08  | 05NOV08  | 0    | 0     | -              | #  |                   |       |
| 1R0002408   | Submit updated web pages monthly                | 2   | 1,613  | 1,500     | 27MAR08 | 25AUG12 | 06NOV08  | 30DEC12  | 0    | 0     |                | <del>                                     </del> |                   |       |
| chedule d   | of Milestones for Cost Centre No. 1R            |     | 1      |           |         |         |          |          |      |       |                |  |                   |       |
|             |   |     |        |           |         |         |          |          |      |       |                | W 22 1091  | (glass            |       |
| 1R0002501   | 1R 1; On provision of SO's Accommodation        | 2   | 0      | 0         |         | 14APR08 |          | 13SEP08  |      | 1,569 |                | accommodation for accupation                     | the street of the | M     |
| 1R0002502   | 1R 2; On providing documents of effected CWI    | 2   | 0      | 0         |         | 03JAN08 |          | 03JAN08A | 100  |       | care of        | the works insurance has been ef                  | ected             |       |
| 1R0002503   | 1R 3; On providing documents of effected TPI    | 2   | 0      | 0         |         | 03JAN08 |          | 03JAN08A | 100  |       | 3rd par        | insurance has been effected                      |                   |       |
| 1R0002504   | 1R 4; On Pproviding documents of effected PII   | 2   | 0      | 0         |         | 03JAN08 |          | 03JAN08A | 100  |       | P. I. Ins      | rance has been effected.                         |                   |       |
| 1R0002505   | 1R 5; On delivery of all Land Transport for SO  | 2   | 0      | 0         |         | 26MAR08 |          | 02MAY08A | 100  |       | • <b>♦</b> lar | d transpoert delivered for use of                | the SO            |       |
| 1R0002506   | 1R 6; On install, of computer facilities for SO | 2   | 0      | 0         |         | 14APR08 |          | 13SEP08  | 0    | 1,569 | •              | computer facilities for use of t                 | ne SO             |       |
| 1R0002507   | 1R 7; On accept. of detailed CRA incl. PCS      | 2   | 0      | 0         |         | 25SEP09 |          | 31OCT08  | 0    | 1,521 |                | detailed CRA incl. pre-condi                     | ion survey        |       |
| 1R0002508   | 1R 8; On acceptance of Physical Model by the SO | 2   | 0      | 0         |         | 12MAR08 |          | 26OCT08  | 0    | 1,526 | *              | physical model completed a                       | per ER 4.4.8      |       |

| ID                       | Activity Description                             | Cal<br>ID | Target<br>Dur | Orig<br>Dur | Target<br>Start | Target<br>Finish   | Early<br>Start | Early<br>Finish    | % Total        | 2008              | 2009              | 2010              | 2011              | 2012         |
|--------------------------|--|-----------|---------------|-------------|-----------------|--------------------|----------------|--------------------|----------------|-------------------|-------------------|-------------------|-------------------|--------------|
| 01R0002509               | 1R 9; On acceptance of 3-D Animation Model       | 2         | 0             |             |                 | 12MAR08            |                | 26OCT08            | 0 1,526        | ·   •3            | B-D animation i   | nodel complete    | ed as per ER 4.4  | 1.9          |
| 01R0002510               | 1R 10; On satisf. operation of CCTV for 3 mth    | 2         | 0             | 0           |                 | 31JUL08            | 35000          | 05FEB09            | 0 1,424        | s per ER 4.4.1    | ofor 3 mths       | of the remote C   | CTV intalled in   | Alest A      |
| 01R0002511               | 1R 11; On acceptance of O&MM                     | 2         | 0             | 0           |                 | 30OCT11            |                | 05MAR12            | 0 300          |                   | 180               | MM completed      | as per ER 4.4.1   | 1 💠          |
| 01R0002512               | 1R 12; On acceptance of as-built drwgs.          | 2         | 0             | 0           |                 | 25OCT11            |                | 29FEB12            | 0 305          |                   | built drwg        | gs. completed a   | s per ER 4.4.12   | 2.           |
| 01R0002513               | 1R 13; On acceptance of T.R/Video/Brouchure      | 2         | 0             | 0           |                 | 26AUG11            |                | 31DEC11            | 0 365          |                   |                   | I                 | ER 4.4.13         | tunnel repo  |
| 01R0002514               | 1R 14; On complete all wks for 3 mth frm DOC     | 2         | 0             | 0           |                 | 27MAR08            |                | 27MAR08A           | 100            | of all oblig      | ations by this    | C.S. 3-mths fro   | II                |              |
| 01R0002515               | 1R 15; On complete all wks for 6 mth frm DOC     | 2         | 0             | 0           |                 | 26JUN08            |                | 27JUN08A           | 100            | of all            | obligations by    | this CS 6 mths    | from DOC          |              |
| 01R0002516               | 1R 16; On complete all wks for 9 mth frm DOC     | 2         | 0             | 0           |                 | 25SEP08            |                | 25SEP08            | 0 1,400        | of                | all obligations   | by this CS 9 m    | ths from DOC      |              |
| 01R0002517               | 1R 17; On complete all wks for 12 mth frm DOC    | 2         | 0             | 0           |                 | 26DEC08            |                | 26DEC08            | 0 1,308        |                   | of all obligati   | on by this CS 1   | 2 mths frm DO     | 3            |
| 01R0002518               | 1R 18; On complete all wks for 15 mth frm DOC    | 2         | 0             | 0           |                 | 27MAR09            |                | 27MAR09            | 0 1,217        |                   | of all obli       | gations by this   | CS 15 mths frm    | DOC          |
| 01R0002519               | 1R 19; On complete all wks for 18 mth frm DOC    | 2         | 0             | 0           |                 | 26JUN09            |                | 26JUN09            | 0 1,126        | 1 1 1             | of all            | obligations by t  | his CS 18 mths    | frm DOC      |
| 01R0002520               | 1R 20; On complete all wks for 21 mth frm DOC    | 2         | 0             | 0           |                 | 25SEP09            |                | 25SEP09            | 0 1,035        |                   | <b>◆</b> of       | all obligations   | by this CS 21 m   | iths frm DOC |
| 01R0002521               | 1R 21; On complete all wks for 24 mth frm DOC    | 2         | 0             | 0           |                 | 26DEC09            |                | 26DEC09            | 0 943          |                   |                   | of all obligation | ons by this CS 2  | 4 mths frm [ |
| 01R0002522               | 1R 22; On complete all wks for 27 mth frm DOC    | 2         | 0             | 0           |                 | 27MAR10            |                | 27MAR10            | 0 852          |                   |                   | of all obli       | gations by this   | CS 27 mths f |
| 01R0002523               | 1R 23; On complete all wks for 30 mth frm DOC    | 2         | 0             | 0           |                 | 26JUN10            |                | 26JUN10            | 0 761          |                   |                   | of all            | obligations by th | is CS 30 mtl |
| 01R0002524               | 1R 24; On complete all wks for 33 mth frm DOC    | 2         | 0             | 0           |                 | 25SEP10            |                | 25SEP10            | 0 670          |                   |                   | <b>♦</b> of       | all obligations b | y this CS 33 |
| 01R0002525               | 1R 25; On complete all wks for 36 mth frm DOC    | 2         | 0             | 0           |                 | 26DEC10            |                | 26DEC10            | 0 578          |                   |                   |                   | of all obligation | ns by this C |
| 01R0002526               | 1R 26; On complete all wks for 39 mth frm DOC    | 2         | 0             | 0           |                 | 27MAR11            |                | 27MAR11            | 0 487          | of all obligation | ons by this CS    | 39 mths frm Do    | OC.               |              |
| 01R0002527               | 1R 27; On complete all wks for 42 mth frm DOC    | 2         | 0             | 0           |                 | 26JUN11            |                | 26JUN11            | 0 396          | of all oblig      | gations by this   | CS 42 mths frm    | DOC.              |              |
| 01R0002528               | 1R 28; On complete all wks for 45 mth frm DOC    | 2         | 0             | 0           |                 | 25SEP11            |                | 25SEP11            | 0 305          | o all o           | obligations by t  | his CS 45 mths    | frm DOC           |              |
| 01R0002529               | 1R 29; On issuance of completion certificates    | 2         | 0             | 0           |                 | 13AUG11            |                | 29DEC11            | 0 367          |                   | of                | completion ex     | ept Section 7     | <b>×</b>     |
| 01R0002530               | 1R 30; On complete all wks for 3 mth frm CMP     | 2         | 0             | 0           |                 | 26OCT11            |                | 01MAR12            | 0 304          |                   | of all obligation | ns 3 mths frm D   | OM excl. Sec.     | 7 🔷          |
| 01R0002531               | 1R 31; On complete all wks for 6 mth frm CMP     | 2         | 0             | 0           |                 | 25JAN12            |                | 31MAY12            | 0 213          |                   | of all obliga     | tions 6 mths fr   | m DOM excl. Se    | ac. 7🄷       |
| 01R0002532               | 1R 32; On complete all wks for 9 mth frm CMP     | 2         | 0             | 0           |                 | 25APR12            |                | 30AUG12            | 0 122          |                   | of all of         | ligations 9 mth   | s frm DOM excl    | . Sec. 7 🔷   |
| 01R0002533               | 1R 33; On issuance of maintenance certificate    | 2         | 0             | 0           |                 | 25AUG12            |                | 30DEC12            | 0 0            |                   |                   |                   |                   | certificate  |
| Schedule o               | of Milestones for Cost Centre No. 16R            |           |               |             |                 |                    |                |                    |                |                   |                   |                   |                   |              |
| 400700004                | 188 1. On completion of landance when Radion A   | -         | 0             | 0           |                 | 101111111          |                | 40 11 11 44        | 0 500          |                   |                   |                   |                   |              |
| 16R7003001               | 16R 1; On completion of landscape wks; Portion A | 2         | 0             |             |                 | 13MAY11            |                | 16JUL11            | 0 533          |                   |                   |                   |                   |              |
| 16R7003002               | 16R 2; On completion of landscape wks; Portion B | 2         |               | 0           |                 | 16JUL11            |                | 27SEP11            | 0 460          |                   |                   |                   |                   |              |
| 16R7003003               | 16R 3; On completion of landscape wks; Portion C | 2         | 0             | 0           |                 | 05MAY11<br>17JUN11 |                | 02JUL11            | 0 547<br>0 395 |                   |                   |                   |                   |              |
| 16R7003004<br>16R7003005 | 16R 4; On completion of landscape wks; Portion D | 2         | 0             | 0           |                 | 1730N11<br>12MAY12 |                | 01DEC11<br>15JUL12 | 0 168          |                   |                   | -                 |                   |              |
| 16R7003005               | 16R 5; On completion of establish wks; Portion A | 2         | 0             | 0           |                 | 15JUL12            |                | 26SEP12            | 30 (1):3101    |                   |                   |                   |                   | T X          |
| 16R7003006               | 16R 6; On completion of establish wks; Portion B | 2         | 0             | 0           |                 | 04MAY12            |                | 01JUL12            | 0 95<br>0 182  |                   |                   |                   |                   | 100          |
| 16R7003007               | 16R 7; On completion of establish wks; Portion C | 2         | 0             | 0           |                 | 16JUN12            |                | 30NOV12            | 0 182          |                   |                   |                   |                   |              |
| E 100   30   6           | of Milestones for Cost Centre No. 17R            | 2         | 0             | U           | _               | 16JUN12            |                | 30140712           | 0 30           |                   |                   |                   |                   |              |
|                          | TOTAL BY HE                                      |           |               |             |                 |                    |                |                    |                |                   |                   |                   |                   |              |
| 17R0003101               | 17R 1; On complet of all wks for 3 mth frm DOC   | 2         | 0             | 0           |                 | 27MAR08            |                | 27MAR08A           | 100            | of all safe       | ty & env. oblig   | ations 3 mths f   | rm DOC            |              |
| 17R0003102               | 17R 2; On complet of all wks for 6 mth frm DOC   | 2         | 0             | 0           |                 | 26JUN08            |                | 27JUN08A           | 100            | of all            | safety & env. o   | bligations 6 mt   | hs frm DOC        |              |
| 17R0003103               | 17R 3; On complet of all wks for 9 mth frm DOC   | 2         | 0             | 0           |                 | 26SEP08            |                | 26SEP08            | 0 1,556        | of                | all safey & env   | . obligations 9   | mths frm DOC      |              |

| ID   | Activity   |   | Target  | A CONTRACTOR OF THE PARTY OF TH | Target  | Target  | Early  | Early  | % Tota  |                    | 2009            | 2010                 | 2011               | 2012            |
|--|--|---|---|--|---|---|--|--|---|--------------------|-----------------|----------------------|--------------------|-----------------|
|  | Description  | ID  | Dur   | Dur  | Start   | Finish  | Start  | Finish   | Comp Floa   |                    |                 |                      |                    |                 |
| 17R0003104   | 17R 4; On complet of all wks for 12 mth frm DOC  | 2   | 0   | -  |   | 26DEC08   |  | 26DEC08  | 0 1,465   |                    | F.721 3         | fety & env. obligat  | MODE ON THE        | 334545          |
| 7R0003105  | 17R 5; On complet of all wks for 15 mth frm DOC  | 2   | 0   | 0  |   | 27MAR09   |  | 27MAR09  | 0 1,374   | -11                |                 | I safety & env. obl  | Andrew Court       |                 |
| 17R0003106   | 17R 6; On complet of all wks for 18 mth frm DOC  | 2   | 0   | 0.86   |   | 27JUN09   |  | 27JUN09  | 0 1,282   |                    | •               | of all safety & env. | obligations 18 m   | ths frm DOC     |
| 7R0003107  | 17R 7; On complet of all wks for 21 mth frm DOC  | 2   | 0   | 0  |   | 26SEP09   |  | 26SEP09  | 0 1,191   |                    |                 | of all safety & e    | nv. obligations 2  | 1 mths frm Do   |
| 17R0003108   | 17R 8; On complet of all wks for 24 mth frm DOC  | 2   | 0   | 0  |   | 26DEC09   |  | 26DEC09  | 0 1,100   |                    |                 | of all safety        | & env. obligation  | s 24 mths frn   |
| 7R0003109  | 17R 9; On complet of all wks for 27 mth frm DOC  | 2   | 0   | 0  |   | 28MAR10   |  | 28MAR10  | 0 1,008   |                    |                 | of all sa            | fety & env. obliga | itions 27 mth   |
| 7R0003110  | 17R 10; On complet all wks for 30 mth frm DOC  | 2   | 0   | 0  |   | 27JUN10   |  | 27JUN10  | 0 917   |                    |                 | ◆of al               | I satety & env. ol | oligations 30 r |
| 7R0003111  | 17R 11; On complet all wks for 33 mth frm DOC  | 2   | 0   | 0  |   | 26SEP10   |  | 26SEP10  | 0 826   | 1                  |                 | •                    | of all safety & en | . obligations   |
| 7R0003112  | 17R 12; On complet all wks for 36 mth frm DOC  | 2   | 0   | 0  |   | 26DEC10   |  | 26DEC10  | 0 735   |                    | 1               |                      | of all safety &    | env. obligati   |
| 7R0003113  | 17R 13; On complet all wks for 39 mth frm DOC  | 2   | 0   | 0  |   | 28MAR11   |  | 28MAR11  | 0 643   |                    |                 |                      | of all safe        | y & env. obli   |
| 7R0003114  | 17R 14; On complet all wks for 42 mth frm DOC  | 2   | 0   | 0  |   | 27JUN11   |  | 27JUN11  | 0 552   | of all sa          | ety & env. ob   | ligations 42 mths f  | m DOC              |                 |
| 7R0003115  | 17R 15; On complet all wks for 45 mth frm DOC  | 2   | 0   | 0  |   | 26SEP11   |  | 26SEP11  | 0 461   | of a               | safety & env.   | obligations 45 mti   | ns frm DOC         |                 |
| 7R0003116  | 17R 16; On complet all wks for 48 mth frm DOC  | 2   | 0   | 0  |   | 26DEC11   |  | 26DEC11  | 0 370   |                    | of all safety & | env. obligations 48  | mths frm DOC       |                 |
| 7R0003117  | 17R 17; On complet of all wks for 3 mth frm CMP  | 2   | 0   | 0  |   | 26OCT11   |  | 01MAR12  | 0 304   |                    |                 |                      | excl. Section      | 7♦of all safe   |
| 7R0003118  | 17R 18; On complet of all wks for 6 mth frm CMP  | 2   | 0   | 0  |   | 25JAN12   |  | 31MAY12  | 0 213   | 1                  |                 |                      | excluding Sect     | on 7 of all     |
| 7R0003119  | 17R 19; On complet of all wks for 9 mth frm CMP  | 2   | 0   | 0  |   | 26APR12   |  | 31AUG12  | 0 121   | of all safe        | ty & env. oblig | ations 9 mths frm    | DOMexcluding S     | ection 7        |
| 7R0003120  | 17R 20; On issuance of maintenance certificate   | 2   | 0   | 0  |   | 25AUG12   |  | 30DEC12  | 0 0   | 1                  |                 |                      |                    | certifi€ate     |
| 02L10D0102   |  | 2   | 7   | 7  | 14DEC07   | 20DEC07   | 14DEC07A   | 20DEC07A   | 100   | 5                  |                 |                      |                    |                 |
| Project Desi   | ign Plan (PDP)   |   |   |  |   |   |  |  |   |                    |                 |                      | 1 1                |                 |
| -  | Employ Independent Designer  |   |   |  | 14DEC07   | 20DEC07   | 14DEC07A   |  | 100   |                    |                 |                      |                    |                 |
| 2L10D0104  | Prepare & submit Project Design Plan (PDP)   | 2   | 28  |  | 14DEC07   | 10JAN08   | 14DEC07A   |  | 100   | per ER             | 5.4.1, within 2 | 8 days of LOA        |                    |                 |
| 02L10D0106   | SO's review & comment on PDP   | 2   | 28  | 28   | 11JAN08   | 07FEB08   | 27FEB08A   | 18MAR08A   | 100   | Service Market Co. |                 |                      |                    |                 |
| 2L10D0108  | Provide further information of (PDP)   |   | I I   |  |   |   |  |  | 1755 E.B.   |                    |                 |                      |                    |                 |
|  | Provide further information of (PDP)   | 2   | 14  | 28   | 08FEB08   | 21FEB08   | 19MAR08A   | 21AUG08A   | 100   | 0                  |                 |                      |                    |                 |
|  | SO approves PDP  | 2   | 14  | 14   | 22FEB08   | 06MAR08   | 19MAR08A<br>14MAY08A   | 21AUG08A<br>04SEP08  | 100<br>93 (   | •                  |                 |                      |                    |                 |
| 02L10D0112   | SO approves PDP<br>Employ Independent Design Checker   | 2 2   | 14<br>14  | 14<br>14   | 22FEB08<br>28DEC07  | 06MAR08<br>10JAN08  | 19MAR08A<br>14MAY08A<br>28DEC07A   | 21AUG08A<br>04SEP08<br>01FEB08A  | 100<br>93 0<br>100  | •                  |                 |                      |                    |                 |
| 02L10D0112<br>02L10D0114   | SO approves PDP Employ Independent Design Checker Approval of Design Checker by the SO   | 2   | 14  | 14   | 22FEB08   | 06MAR08   | 19MAR08A<br>14MAY08A   | 21AUG08A<br>04SEP08<br>01FEB08A  | 100<br>93 (   |                    |                 |                      |                    |                 |
| 02L10D0112<br>02L10D0114<br><b>Design for C</b>  | SO approves PDP Employ Independent Design Checker Approval of Design Checker by the SO Communication System  | 2 2 2   | 14<br>14  | 14<br>14   | 22FEB08<br>28DEC07<br>11JAN08   | 06MAR08<br>10JAN08  | 19MAR08A<br>14MAY08A<br>28DEC07A<br>02FEB08A   | 21AUG08A<br>04SEP08<br>01FEB08A  | 100<br>93 0<br>100  |                    |                 |                      |                    |                 |
| 02L10D0112<br>02L10D0114<br><b>Design for C</b><br>02L1FE0102  | SO approves PDP Employ Independent Design Checker Approval of Design Checker by the SO   | 2 2   | 14<br>14<br>28  | 14<br>14   | 22FEB08<br>28DEC07  | 06MAR08<br>10JAN08  | 19MAR08A<br>14MAY08A<br>28DEC07A   | 21AUG08A<br>04SEP08<br>01FEB08A  | 100<br>93 0<br>100  |                    | 11              |                      |                    |                 |
| 02L10D0112<br>02L10D0114<br><b>Design for C</b><br>02L1FE0102  | SO approves PDP Employ Independent Design Checker Approval of Design Checker by the SO Communication System  | 2 2 2   | 14<br>14<br>28  | 14<br>14<br>28<br>15<br>1  | 22FEB08<br>28DEC07<br>11JAN08   | 06MAR08<br>10JAN08<br>07FEB08   | 19MAR08A<br>14MAY08A<br>28DEC07A<br>02FEB08A   | 21AUG08A<br>04SEP08<br>01FEB08A<br>28FEB08A  | 100<br>93 C<br>100<br>100   |                    | 1               |                      |                    |                 |
| 02L10D0112<br>02L10D0114<br><b>Design for C</b><br>02L1FE0102<br>02L1FE0103  | SO approves PDP Employ Independent Design Checker Approval of Design Checker by the SO Communication System Design preparation for the AIP submission  | 2 2 2   | 14<br>14<br>28  | 14<br>14<br>28   | 22FEB08<br>28DEC07<br>11JAN08   | 06MAR08<br>10JAN08<br>07FEB08   | 19MAR08A<br>14MAY08A<br>28DEC07A<br>02FEB08A<br>30SEP08  | 21AUG08A<br>04SEP08<br>01FEB08A<br>28FEB08A<br>14OCT08   | 100<br>93 C<br>100<br>100   |                    | 1               |                      |                    |                 |
| 02L10D0112<br>02L10D0114<br><b>Design for C</b><br>02L1FE0102<br>02L1FE0103<br>02L1FE0104  | SO approves PDP Employ Independent Design Checker Approval of Design Checker by the SO Communication System Design preparation for the AIP submission Design (AIP) submission for the DC's approval  | 2 2 2 1   | 14<br>14<br>28<br>15<br>0                                       | 14<br>14<br>28<br>15<br>1  | 22FEB08<br>28DEC07<br>11JAN08   | 06MAR08<br>10JAN08<br>07FEB08<br>15JUL08<br>30JUL08<br>31JUL08  | 19MAR08A<br>14MAY08A<br>28DEC07A<br>02FEB08A<br>30SEP08<br>15OCT08   | 21AUG08A<br>04SEP08<br>01FEB08A<br>28FEB08A<br>14OCT08<br>15OCT08  | 100<br>93 C<br>100<br>100<br>0 545<br>0 440   |                    |                 |                      |                    |                 |
| 2L10D0112<br>2L10D0114<br>Design for C<br>2L1FE0102<br>2L1FE0103<br>2L1FE0104<br>2L1FE0106   | SO approves PDP Employ Independent Design Checker Approval of Design Checker by the SO Communication System Design preparation for the AIP submission Design (AIP) submission for the DC's approval Design (AIP) certification by the Design Checker   | 2 2 1 2   | 14<br>14<br>28<br>15<br>0<br>15                                 | 14<br>14<br>28<br>15<br>1<br>28  | 22FEB08<br>28DEC07<br>11JAN08<br>01JUL08  | 06MAR08<br>10JAN08<br>07FEB08<br>15JUL08<br>30JUL08   | 19MAR08A<br>14MAY08A<br>28DEC07A<br>02FEB08A<br>30SEP08<br>15OCT08<br>16OCT08  | 21AUG08A<br>04SEP08<br>01FEB08A<br>28FEB08A<br>14OCT08<br>15OCT08<br>12NOV08   | 100<br>93 C<br>100<br>100<br>0 545<br>0 440<br>0 545  |                    |                 |                      |                    |                 |
| 2L10D0112<br>12L10D0114<br>Design for C<br>12L1FE0102<br>12L1FE0103<br>12L1FE0104<br>12L1FE0106<br>12L1FE0108  | SO approves PDP Employ Independent Design Checker Approval of Design Checker by the SO Communication System Design preparation for the AIP submission Design (AIP) submission for the DC's approval Design (AIP) certification by the Design Checker Design (AIP) submission for the SO's approval   | 2<br>2<br>2<br>1<br>2                               | 14<br>14<br>28<br>15<br>0<br>15                                 | 14<br>14<br>28<br>15<br>1<br>28<br>1   | 22FEB08<br>28DEC07<br>11JAN08<br>01JUL08<br>16JUL08<br>31JUL08                                  | 06MAR08<br>10JAN08<br>07FEB08<br>15JUL08<br>30JUL08<br>31JUL08  | 19MAR08A<br>14MAY08A<br>28DEC07A<br>02FEB08A<br>30SEP08<br>15OCT08<br>16OCT08<br>15OCT08   | 21AUG08A<br>04SEP08<br>01FEB08A<br>28FEB08A<br>14OCT08<br>15OCT08<br>12NOV08<br>15OCT08  | 100<br>93 C<br>100<br>100<br>0 545<br>0 440<br>0 545  |                    |                 |                      |                    |                 |
| 02L10D0112<br>02L10D0114<br>0esign for 0<br>02L1FE0102<br>02L1FE0103<br>02L1FE0104<br>02L1FE0106<br>02L1FE0108   | SO approves PDP Employ Independent Design Checker Approval of Design Checker by the SO Communication System Design preparation for the AIP submission Design (AIP) submission for the DC's approval Design (AIP) certification by the Design Checker Design (AIP) submission for the SO's approval Design (AIP) review by the SO   | 2<br>2<br>2<br>1<br>2<br>1<br>2                     | 14<br>14<br>28<br>15<br>0<br>15<br>1<br>1<br>30                 | 14<br>14<br>28<br>15<br>1<br>28<br>1<br>60   | 22FEB08<br>28DEC07<br>11JAN08<br>01JUL08<br>16JUL08<br>31JUL08                                  | 06MAR08<br>10JAN08<br>07FEB08<br>15JUL08<br>30JUL08<br>31JUL08<br>30AUG08   | 19MAR08A<br>14MAY08A<br>28DEC07A<br>02FEB08A<br>30SEP08<br>15OCT08<br>16OCT08<br>15OCT08<br>23OCT08                                  | 21AUG08A<br>04SEP08<br>01FEB08A<br>28FEB08A<br>14OCT08<br>15OCT08<br>12NOV08<br>15OCT08<br>21DEC08   | 100<br>93 C<br>100<br>100<br>0 545<br>0 446<br>0 545<br>0 545                                     |                    |                 |                      |                    |                 |
| 02L10D0112<br>02L10D0114<br><b>Design for C</b><br>02L1FE0102<br>02L1FE0103<br>02L1FE0104<br>02L1FE0108<br>02L1FE0110<br>02L1FE0110  | SO approves PDP Employ Independent Design Checker Approval of Design Checker by the SO Communication System Design preparation for the AIP submission Design (AIP) submission for the DC's approval Design (AIP) certification by the Design Checker Design (AIP) submission for the SO's approval Design (AIP) review by the SO AIP submission for rel. authorities' approval   | 2<br>2<br>2<br>1<br>2<br>1<br>2<br>1                | 14<br>14<br>28<br>15<br>0<br>15<br>1<br>30                      | 14<br>14<br>28<br>15<br>1<br>28<br>1<br>60<br>1  | 22FEB08<br>28DEC07<br>11JAN08<br>01JUL08<br>16JUL08<br>31JUL08<br>01AUG08                       | 06MAR08<br>10JAN08<br>07FEB08<br>15JUL08<br>30JUL08<br>31JUL08<br>30AUG08<br>30AUG08                                  | 19MAR08A<br>14MAY08A<br>28DEC07A<br>02FEB08A<br>30SEP08<br>15OCT08<br>16OCT08<br>15OCT08<br>23OCT08<br>15OCT08                       | 21AUG08A<br>04SEP08<br>01FEB08A<br>28FEB08A<br>14OCT08<br>15OCT08<br>12NOV08<br>15OCT08<br>21DEC08<br>15OCT08                                  | 100<br>93 C<br>100<br>100<br>0 545<br>0 446<br>0 545<br>0 471                                     |                    |                 |                      |                    |                 |
| 02L10D0112<br>02L10D0114<br>Design for C<br>02L1FE0102<br>02L1FE0103<br>02L1FE0104<br>02L1FE0106<br>02L1FE0110<br>02L1FE0110   | SO approves PDP Employ Independent Design Checker Approval of Design Checker by the SO Communication System Design preparation for the AIP submission Design (AIP) submission for the DC's approval Design (AIP) certification by the Design Checker Design (AIP) submission for the SO's approval Design (AIP) review by the SO AIP submission for rel. authorities' approval Design (AIP) review by the rel. authorities   | 2<br>2<br>2<br>1<br>2<br>1<br>2<br>1<br>2           | 14<br>14<br>28<br>15<br>0<br>15<br>1<br>30<br>0                 | 14<br>14<br>28<br>15<br>1<br>28<br>1<br>60<br>1<br>28  | 22FEB08<br>28DEC07<br>11JAN08<br>01JUL08<br>16JUL08<br>31JUL08<br>01AUG08                       | 10JAN08<br>10JAN08<br>07FEB08<br>15JUL08<br>30JUL08<br>31JUL08<br>30AUG08<br>30AUG08<br>01SEP08                       | 19MAR08A<br>14MAY08A<br>28DEC07A<br>02FEB08A<br>30SEP08<br>15OCT08<br>15OCT08<br>23OCT08<br>23OCT08                                  | 21AUG08A<br>04SEP08<br>01FEB08A<br>28FEB08A<br>14OCT08<br>15OCT08<br>12NOV08<br>15OCT08<br>21DEC08<br>15OCT08<br>19NOV08                       | 100<br>93 C<br>100<br>100<br>0 545<br>0 440<br>0 545<br>0 471<br>0 575                            |                    |                 |                      |                    |                 |
| 02L10D0112<br>02L10D0114<br>Design for C<br>02L1FE0102<br>02L1FE0104<br>02L1FE0106<br>02L1FE0110<br>02L1FE0110<br>02L1FE01112<br>02L1FE0114<br>02L1FE0116                            | SO approves PDP Employ Independent Design Checker Approval of Design Checker by the SO Communication System Design preparation for the AIP submission Design (AIP) submission for the DC's approval Design (AIP) certification by the Design Checker Design (AIP) submission for the SO's approval Design (AIP) review by the SO AIP submission for rel. authorities' approval Design (AIP) review by the rel. authorities Obtain rel. authorities's approval for AIP                                      | 2<br>2<br>2<br>1<br>2<br>1<br>2<br>1<br>2<br>1<br>2 | 14<br>14<br>28<br>15<br>0<br>15<br>1<br>30<br>0<br>1<br>1<br>28 | 14<br>14<br>28<br>15<br>1<br>28<br>1<br>60<br>1<br>28<br>1   | 22FEB08<br>28DEC07<br>11JAN08<br>01JUL08<br>16JUL08<br>31JUL08<br>01AUG08<br>01SEP08<br>02SEP08 | 06MAR08<br>10JAN08<br>07FEB08<br>15JUL08<br>30JUL08<br>31JUL08<br>30AUG08<br>30AUG08<br>01SEP08<br>29SEP08            | 19MAR08A<br>14MAY08A<br>28DEC07A<br>02FEB08A<br>30SEP08<br>15OCT08<br>15OCT08<br>23OCT08<br>23OCT08                                  | 21AUG08A<br>04SEP08<br>01FEB08A<br>28FEB08A<br>14OCT08<br>15OCT08<br>12NOV08<br>15OCT08<br>21DEC08<br>15OCT08<br>15OCT08<br>21DEC08            | 100<br>93 C<br>100<br>100<br>0 545<br>0 440<br>0 545<br>0 446<br>0 545<br>0 471<br>0 575<br>0 463 |                    |                 |                      |                    |                 |
| 02L10D0110<br>02L10D0114<br>Design for C<br>02L1FE0102<br>02L1FE0104<br>02L1FE0106<br>02L1FE0108<br>02L1FE0110<br>02L1FE0112<br>02L1FE0114<br>02L1FE0116<br>02L1FE0116<br>02L1FE0118 | SO approves PDP Employ Independent Design Checker Approval of Design Checker by the SO Communication System Design preparation for the AIP submission Design (AIP) submission for the DC's approval Design (AIP) certification by the Design Checker Design (AIP) submission for the SO's approval Design (AIP) review by the SO AIP submission for rel. authorities' approval Design (AIP) review by the rel. authorities Obtain rel. authorities's approval for AIP Obtain SO's consent for design (AIP) | 2<br>2<br>2<br>1<br>2<br>1<br>2<br>1<br>2<br>1<br>2 | 14<br>14<br>28<br>15<br>0<br>15<br>1<br>30<br>0<br>1<br>1<br>28 | 14<br>14<br>28<br>15<br>1<br>28<br>1<br>60<br>1<br>28<br>1<br>0  | 22FEB08<br>28DEC07<br>11JAN08<br>01JUL08<br>16JUL08<br>31JUL08<br>01AUG08<br>01SEP08<br>02SEP08 | 06MAR08<br>10JAN08<br>07FEB08<br>15JUL08<br>30JUL08<br>31JUL08<br>30AUG08<br>30AUG08<br>01SEP08<br>29SEP08<br>30SEP08 | 19MAR08A<br>14MAY08A<br>28DEC07A<br>02FEB08A<br>30SEP08<br>15OCT08<br>15OCT08<br>23OCT08<br>23OCT08<br>23OCT08<br>23OCT08<br>20NOV08 | 21AUG08A<br>04SEP08<br>01FEB08A<br>28FEB08A<br>14OCT08<br>15OCT08<br>12NOV08<br>15OCT08<br>21DEC08<br>15OCT08<br>19NOV08<br>20NOV08<br>22DEC08 | 100<br>93 C<br>100<br>100<br>0 545<br>0 440<br>0 545<br>0 471<br>0 575<br>0 463<br>0 545          | X                  | □<br>□<br>□     |                      |                    |                 |

| ID           | Activity Description                             | Cal | Target<br>Dur | Orig<br>Dur | Target<br>Start | Target<br>Finish                        | Early<br>Start | Early<br>Finish | %<br>Comp | Total<br>Float | 2008 |         | 2009        | 2010                | 2011            | 2012 |
|--------------|--|-----|---------------|-------------|-----------------|---|----------------|-----------------|-----------|----------------|------|---------|-------------|---------------------|-----------------|------|
| 02L1FE0122   | Design (DDA) submission for the SO's approval    | 1   | 15            | 1           | 17OCT08         | 31OCT08                                 | 30DEC08        | 30DEC08         |           | 444            |      | e.      |             |                     | 180300-201300-0 |      |
| 02L1FE0124   | Design (DDA) review by the SO                    | 2   | 1             | 60          | 01NOV08         | 01NOV08                                 | 07JAN09        | 07MAR09         |           | 545            |      | 4       | i           |                     |                 |      |
| 02L1FE0126   | DDA submission for rel. authorities' approval    | 1   | 30            | 1           | 02NOV08         | 01DEC08                                 | 30DEC08        | 30DEC08         | 0         | 472            |      | -       |             |                     |                 |      |
| 02L1FE0128   | Design (DDA) review by the rel. authorities      | 2   | 0             | 28          | Line Williams   | 01DEC08                                 | 07JAN09        | 03FEB09         | 0         | 577            |      | . 11    |             | E 1                 |                 |      |
| 02L1FE0130   | Obtain rel. authorities's approval for DDA       | 1   | 1             | 1           | 02DEC08         | 02DEC08                                 | 04FEB09        | 04FEB09         | 0         | 470            |      | , ed ij |             |                     | P 1             |      |
| 02L1FE0132   | Obtain SO's consent for design (DDA)             | 2   | 28            | 0           | 03DEC08         | 30DEC08                                 |                | 08MAR09         | 0         | 545            |      | -       | •           |                     | 1 1 1           |      |
| Design for F | Tow Measurement System                           |     |               |             |                 | (////////////////////////////////////// |                |                 |           |                |      |         |             |                     |                 |      |
| 02L1FE0202   | Design preparation for the AIP submission        | 2   | 15            | 15          | 01JUL08         | 15JUL08                                 | 30SEP08        | 14OCT08         | 0         | 703            |      | 4       |             |                     |                 |      |
| 02L1FE0203   | Design (AIP) submission for the DC's approval    | 1   | 0             | 1           |                 |   | 15OCT08        | 15OCT08         | 0         | 572            |      | 1       |             |                     |                 |      |
| 02L1FE0204   | Design (AIP) certification by the Design Checker | 2   | 15            | 28          | 16JUL08         | 30JUL08                                 | 16OCT08        | 12NOV08         | 0         | 703            | ā    | 8       |             |                     |                 |      |
| 02L1FE0206   | Design (AIP) submission for the SO's approval    | 1   | 1             | 1           | 31JUL08         | 31JUL08                                 | 15OCT08        | 15OCT08         | 0         | 577            | Q.   | 1       |             |                     |                 |      |
| 02L1FE0208   | Design (AIP) review by the SO                    | 2   | 30            | 60          | 01AUG08         | 30AUG08                                 | 23OCT08        | 21DEC08         | 0         |                |      | mi      |             |                     |                 |      |
| 02L1FE0210   | AIP submission for rel. authorities' approval    | 1   | 0             | 1           |                 | 30AUG08                                 | 15OCT08        | 15OCT08         | 0         | 601            |      | Ī       |             |                     |                 |      |
| 02L1FE0212   | Design (AIP) review by the rel. authorities      | 2   | 0             | 28          |                 |   | 23OCT08        | 19NOV08         | 0         | 734            |      | ш       |             |                     |                 |      |
| 02L1FE0214   | Obtain rel. authorities's approval for AIP       | 1   | 0             | 1           |                 |   | 20NOV08        | 20NOV08         | 0         | 595            |      |         |             |                     |                 |      |
| 02L1FE0216   | Obtain SO's consent for design (AIP)             | 2   | 0             | 0           |                 |   |                | 22DEC08         | 0         | 703            |      |         |             |                     |                 |      |
| 02L1FE0218   | Design preparation for the DDA submission        | 2   | 0             | 30          |                 |   | 30NOV08        | 29DEC08         |           | 703            |      | 磁       |             |                     |                 |      |
| 02L1FE0219   | Design (DDA) submission for the DC's approval    | 1   | 0             | 1           |                 |   | 30DEC08        | 30DEC08         | 0         | 571            |      |         |             |                     |                 |      |
| 02L1FE0220   | Design (DDA) certification by the Design Checker | 2   | 30            | 28          | 15AUG08         | 13SEP08                                 | 31DEC08        | 27JAN09         | 0         | 703            |      |         |             |                     |                 |      |
| 02L1FE0222   | Design (DDA) submission for the SO's approval    | 1   | 15            | 1           | 14SEP08         | 28SEP08                                 | 30DEC08        | 30DEC08         | 0         | 577            |      | a       |             |                     |                 |      |
| 02L1FE0224   | Design (DDA) review by the SO                    | 2   | 1             | 60          | 29SEP08         | 29SEP08                                 | 07JAN09        | 07MAR09         | 0         | 703            |      |         | 1           | W 1 1               |                 |      |
| 02L1FE0226   | DDA submission for rel. authorities' approval    | 1   | 30            | 1           | 30SEP08         | 29OCT08                                 | 30DEC08        | 30DEC08         | 0         | 601            |      | =       |             |                     |                 |      |
| 02L1FE0228   | Design (DDA) review by the rel. authorities      | 2   | 0             | 28          |                 | 29OCT08                                 | 07JAN09        | 03FEB09         | 0         | 735            |      | + 111   |             |                     |                 |      |
| 02L1FE0230   | Obtain rel. authorities's approval for DDA       | 1   | 0             | 1           |                 |   | 04FEB09        | 04FEB09         | 0         | 596            |      | 1       |             |                     |                 |      |
| 02L1FE0232   | Obtain design (DDA) approval from the SO         | 2   | 0             | 0           |                 |   |                | 08MAR09         | 0         | 703            |      | 1       | •           |                     |                 |      |
| Design Pag   | ckages for Works in Portion A                    |     | 1             |             |                 |   |                |                 |           |                |      |         |             |                     |                 |      |
| Temp. Steel  | Decking Design Over Shing Mun Nullah             |     |               |             |                 |   |                |                 |           |                |      | 11      |             |                     |                 |      |
| 02L1AA0102   | Design preparation by the Designer               | 2   | 14            | 14          | 08FEB08         | 21FEB08                                 | 22FEB08A       | 15MAY08A        | 100       |                | -    |         |             |                     |                 |      |
| 02L1AA0104   | Design certification by the Design Checker       | 2   | 14            | 14          | 22FEB08         | 06MAR08                                 | 16MAY08A       | 26MAY08A        | 100       |                | 4 pž |         |             | 1 1 1               | 1               |      |
| 02L1AA0106   | Design submission for the SO's approval          | 1   | 1             | 1           | 07MAR08         | 07MAR08                                 | 26MAY08A       | 26MAY08A        | 100       |                | x 1  |         |             |                     |                 |      |
| 02L1AA0108   | Design review by the SO                          | 2   | 28            | 21          | 08MAR08         | 04APR08                                 | 27MAY08A       | 30JUN08A        | 100       |                | . =  |         |             |                     |                 |      |
| 02L1AA0110   | Obtain design approval from the SO               | 2   | 0             | 0           |                 | 04APR08                                 |                | 30JUN08A        | 100       |                | . 🔷  |         | 1 1         |                     |                 |      |
| ELS Design   | for Spiral Ramp/Cascade/Box Culvert              |     |               |             |                 |   |                |                 |           |                |      |         |             |                     |                 |      |
| 02L1AA0202   | Design preparation for the DDA submission        | 2   | 15            | 158         | 22FEB08         | 07MAR08                                 | 02MAY08A       | 29SEP08         | 18        | 134            | 0    |         |             |                     |                 |      |
| 02L1AA0203   | Design submission for the DC's approval          | 1   | 0             | 2           |                 |   | 10JUL08A       | 30SEP08         | 50        | 120            |      | 4       |             |                     |                 |      |
| 02L1AA0204   | Design (DDA) certification by the Design Checker | 2   | 15            | 30          | 08MAR08         | 22MAR08                                 | 11AUG08A       | 20OCT08         | 50        | 147            | p g  | -0      |             |                     |                 |      |
| 02L1AA0206   | Design (DDA) submission for the SO's approval    | 1   | 1             | 2           | 25MAR08         | 25MAR08                                 | 12AUG08A       | 2000            | 50        | 120            | 1    | -       |             |                     |                 |      |
| 02L1AA0208   | Design (DDA) review by the SO                    | 2   | 21            | 68          | 26MAR08         | 15APR08                                 | 13AUG08A       |                 | 22        | 151            | - 4  | -00     |             |                     |                 |      |
| 02L1AA0216   | SO submit design (DDA) for approval of GEO       | 1   | 1             | 1           | 08MAY08         | 08MAY08                                 | 28OCT08        | 28OCT08         | 0         | 124            | ,    | 7 day   | s after ICE | certification       |                 |      |
| 02L1AA0218   | Design (DDA) review/approval by the GEO          | 2   | 0             | 28          |                 | 09MAY08                                 | 29OCT08        | 25NOV08         |           | 151            |      | 0       |             | иновидителипекта!». |                 |      |

| ID   | Activity   | Cal |     | Orig | Target      | Target                                  | Early                                | Early    | %      | Total | 2008       |          | 2009        | 2010          | 2011 | 20  | 012 |
|--|--|-----|-----|------|-------------|---|--------------------------------------|----------|--------|-------|------------|----------|-------------|---------------|------|-----|-----|
|  | Description                                      | ID  | Dur | Dur  | Start       | Finish                                  | Start                                | Finish   | Comp   |       |            |          |             |               |      |     |     |
| 02L1AA0238   | Obtain SO's consent for design (DDA)             | 2   | 0   | 0    |             | 17JUL08                                 |                                      | 26NOV08  | 0      | 151   | •          | •        |             |               |      |     |     |
| PART OF THE PROPERTY OF THE PART OF THE PA | orm Design for H-Piling                          |     |     |      |             |   |                                      |          |        |       |            |          |             |               |      |     |     |
| 02L1AA0302   | Design preparation by the Designer               | 2   | 15  | 15   | 22FEB08     | 07MAR08                                 | 02JAN09*                             | 16JAN09  | 0      | 653   | <u>= 1</u> | U        |             |               |      |     |     |
| 02L1AA0303   | Design submission for the DC's approval          | 1   | 0   | 1    |             |   | 17JAN09                              | 17JAN09  | 0      | 528   |            | 1        |             |               |      |     |     |
| 02L1AA0304   | Design certification by the Design Checker       | 2   | 15  | 28   | 08MAR08     | 22MAR08                                 | 18JAN09                              | 14FEB09  | 0      | 653   | a.         | 1        | 1           |               |      |     |     |
| 02L1AA0306   | Design submission for the SO's approval          | 1   | 1   | 1    | 25MAR08     | 25MAR08                                 | 17JAN09                              | 17JAN09  | 0      | 528   | W          | 1        |             |               |      |     |     |
| 02L1AA0308   | Design review by the SO                          | 2   | 28  | 42   | 26MAR08     | 22APR08                                 | 18JAN09                              | 28FEB09  | 0      | 653   | EU .       | 1        | 3           |               |      |     |     |
| 02L1AA0310   | Obtain design approval from the SO               | 2   | 0   | 0    |             |   |                                      | 28FEB09  | 0      | 653   |            |          | •           |               |      |     |     |
| Cascade & E  | Box Culver Design for Portion A                  |     |     |      |             |   |                                      |          |        |       |            |          |             |               |      | Tir |     |
| 02L1AA0402   | Design preparation for the AIP submission        | 2   | 30  | 30   | 08MAR08     | 06APR08                                 | 02JUN08A                             | 11JUL08A | 100    |       | · ·        |          |             |               |      |     |     |
| 02L1AA0403   | Design (AIP) submission for the DC's approval    | 1   | 0   | 1    |             |   | 12JUL08A                             | 12JUL08A | 100    |       | 1          | 2.1      |             |               |      |     |     |
| 02L1AA0404   | Design (AIP) certification by the Design Checker | 2   | 15  | 28   | 07APR08     | 21APR08                                 | 14JUL08A                             | 04SEP08  | 75     | 435   |            |          |             |               |      | 9 1 |     |
| 02L1AA0406   | Design (AIP) submission for the SO's approval    | 1   | 1   | 1    | 22APR08     | 22APR08                                 | 15JUL08A                             | 15JUL08A | 100    |       | 1 1        |          |             |               |      |     |     |
| 02L1AA0408   | Design (AIP) review by the SO                    | 2   | 60  | 66   | 23APR08     | 21JUN08                                 | 16JUL08A                             | 10OCT08  | 50     | 435   | ;== E      | <b>B</b> |             |               |      |     |     |
| 02L1AA0410   | AIP submission for rel. authorities' approval    | 1   | 0   | 1    |             | 21JUN08                                 | 14JUL08A                             | 19AUG08A | 100    |       | •=         |          |             |               |      | 1 1 |     |
| 02L1AA0412   | Design (AIP) review by the rel. authorities      | 2   | 1   | 28   | 23JUN08     | 23JUN08                                 | 15JUL08A                             | 11SEP08  | 50     | 463   | ) 🖀        |          |             |               |      |     |     |
| 02L1AA0414   | Obtain rel. authorities's approval for AIP       | 1   | 28  | 1    | 24JUN08     | 21JUL08                                 | 12SEP08                              | 12SEP08  | 0      | 377   |            | 1        |             |               |      |     |     |
| 02L1AA0416   | SO submit design (AIP) for approval of GEO       | 1   | 1   | 1    | 22JUL08     | 22JUL08                                 | 12SEP08                              | 12SEP08  | 0      | 353   |            | 17 day   | s after ICE | certification |      |     |     |
| 02L1AA0418   | Design (AIP) review/approval by the GEO          | 2   | 0   | 28   |             | 23JUL08                                 | 13SEP08                              | 100CT08  | 0      | 435   |            |          |             |               |      |     |     |
| 02L1AA0420   | Obtain SO's consent for design (AIP)             | 2   | 30  | 0    | 01JUL08     | 30JUL08                                 |                                      | 11OCT08  | 1      | 435   |            | •        |             |               |      |     |     |
| 02L1AA0422   | Design preparation for the DDA submission        | 2   | 15  | 30   | 31JUL08     | 14AUG08                                 | 19SEP08                              | 18OCT08  | 0      | 435   |            | u        |             |               |      |     |     |
| 02L1AA0423   | Design (DDA) submission for the DC's approval    | 1   | 0   | 1    |             |   | 20OCT08                              | 20OCT08  | 0      | 355   |            | 1        |             |               |      |     |     |
| 02L1AA0424   | Design (DDA) certification by the Design Checker | 2   | 1   | 28   | 15AUG08     | 15AUG08                                 | 21OCT08                              | 17NOV08  | 0      | 436   |            |          |             |               |      |     |     |
| 02L1AA0426   | Design (DDA) submission for the SO's approval    | 1   | 60  | 1    | 16AUG08     | 14OCT08                                 | 20OCT08                              | 20OCT08  |        | 353   |            | -        |             |               |      |     |     |
| 02L1AA0428   | Design (DDA) review by the SO                    | 2   | 0   | 66   |             | 14OCT08                                 | 21OCT08                              | 25DEC08  | 201    | 434   |            | -        |             |               |      |     |     |
| 02L1AA0430   | DDA submission for rel. authorities' approval    | 1   | 1   | 4    | 15OCT08     | 15OCT08                                 | 27OCT08                              | 27OCT08  | 0      | 379   |            | £.       |             |               |      |     |     |
| 02L1AA0432   | Design (DDA) review by the rel. authorities      | 2   | 28  | 28   | 16OCT08     | 12NOV08                                 | 28OCT08                              | 24NOV08  | 0      | 465   |            | 41       |             |               |      |     |     |
| 02L1AA0434   | Obtain rel. authorities's approval for DDA       | 1   | 1   | 1    | 13NOV08     | 13NOV08                                 | 25NOV08                              | 25NOV08  | 0      | 376   |            | N.       |             |               |      |     |     |
| 02L1AA0436   | SO submit design (DDA) for approval of GEO       | 1   | 0   | 1    |             | 14NOV08                                 | 25NOV08                              | 25NOV08  |        | 354   |            | *        |             |               |      |     |     |
| 02L1AA0438   | Design (DDA) review/approval by the GEO          | 2   | 0   | 28   |             | 100000000000000000000000000000000000000 | 26NOV08                              | 23DEC08  |        | 436   |            |          |             |               |      |     |     |
| 02L1AA0440   | Obtain SO's consent for design (DDA)             | 2   | 0   | 0    |             |   | Discontinuos de USA                  | 26DEC08  | _      | 434   |            |          |             |               |      |     |     |
| Impact Asse  | ssment on WSD Wo Yip Hop V. S. P. H.             | -   |     |      |             | -                                       |                                      |          |        |       |            |          |             |               |      |     |     |
| 02L1AA0502   | Design preparation for the DDA submission        | 2   | 15  | 30   | 07APR08     | 21APR08                                 | 02MAY08A                             | 16JUN08A | 100    |       | 12         |          |             |               |      |     |     |
| 02L1AA0503   | Design (DDA) submission for the DC's approval    | 1   | 0   | 1    |             |   | 1400 V = 970 V 1 V 1 V 1 V 1 V 1 V 1 | 26JUN08A | 100    |       | 1          |          |             |               |      |     |     |
|  | Design (DDA) certification by the Design Checker | 2   | 15  | 60   | 22APR08     | 06MAY08                                 | 27JUN08A                             |          |        | 175   |            | 3        |             |               |      |     |     |
| 02L1AA0506   | Design (DDA) submission for the SO's approval    | 1   | 1   | fail | 07MAY08     | 07MAY08                                 |                                      | 14JUL08A | 100    |       | * 1        |          |             |               |      |     |     |
| 02L1AA0508   | Design (DDA) review by the SO                    | 2   | 30  |      | 08MAY08     | 06JUN08                                 | 15JUL08A                             |          | 205845 | 175   | 000 E      |          |             |               |      |     |     |
|  | DDA submission for rel. authorities' approval    | 1   | 0   | 1    | I SEE WATER | 06JUN08                                 | 10JUL08A                             |          | 100    |       | •1         |          |             |               |      | 1 1 |     |
| 02L1AA0512   | Design (DDA) review by the rel. authorities      | 2   | 0   | 28   |             |   | 14JUL08A                             |          |        | 226   | 5          |          |             |               |      |     |     |
| 02L1AA0514   | Obtain rel. authorities's approval for DDA       | 1   | 0   | 1    |             |   |                                      | 11SEP08  | 0      |       | -          |          |             |               |      |     |     |
|  | SO submit design (DDA) for approval of GEO       | 1   |     | 1    |             |   | 04OCT08                              |          |        | 143   |            | t        |             |               |      |     |     |

| ID   | Activity   |       | Target | The best of the second of the | Target | Target | Early         | Early                   |      | Total | 2008 |          | 2009 | 2010 | 2011 | 2012 |
|--|--|-------|--------|---|--------|--------|---------------|-------------------------|------|-------|------|----------|------|------|------|------|
|  | Description  | ID    | Dur    | Dur   | Start  | Finish | Start         | Finish                  | Comp |       |      |          |      |      |      |      |
| 2L1AA0518  | Design (DDA) review/approval by the GEO  | 2     | 0      |   |        |        | 05OCT08       | 01NOV08                 | 770  | 175   |      |          |      |      |      |      |
| 2L1AA0520  | Obtain SO's consent for design (DDA)   | 2     | 0      | 0   |        |        |               | 02NOV08                 | 0    | 175   |      | •        |      |      |      |      |
| emporary P   | Platform for Pipe Piling   |       |        |   |        |        |               |                         |      |       | 1940 |          |      |      |      |      |
| 2L1AA0602  | Design preparation by the Designer   | 2     | 0      | 11  |        |        | 21JUL08A      | 23AUG08A                | 100  |       | =    |          |      |      |      |      |
| 2L1AA0603  | Design submission for the DC's approval  | 1     | 0      | 1   |        |        | 01AUG08A      | 25AUG08A                | 100  |       |      |          |      |      |      |      |
| 2L1AA0604  | Design certification by the Design Checker   | 2     | 0      | 21  |        |        | 02AUG08A      | 26AUG08A                | 100  |       | · =  |          |      |      |      |      |
| 2L1AA0606  | Design submission for the SO's approval  | 1     | 0      | 1   |        |        | 08AUG08A      | 28AUG08                 | 0    | 112   | 4    |          |      |      |      |      |
| 2L1AA0608  | Design review by the SO  | 2     | 0      | 28  |        |        | 09AUG08A      | 25SEP08                 | 0    | 138   | ŧ.   |          |      |      |      |      |
| 2L1AA0610  | Obtain design approval from the SO   | 2     | 0      | 0   |        |        |               | 25SEP08                 | 0    | 138   |      | •        |      |      |      |      |
| Overhead Ga  | antry For Retrieval of TBM   |       |        |   |        |        |               |                         |      |       |      |          |      |      |      |      |
| 2L1AA0702  | Design preparation by the Designer   | 2     | 0      | 15  |        |        | 26SEP08       | 10OCT08                 | 0    | 154   |      | 0        |      |      |      |      |
| 2L1AA0703  | Design submission for the DC's approval  | 1     | 0      | 1   |        |        | 11OCT08       | 11OCT08                 | 0    | 126   |      | li li    |      |      |      | 1 1  |
| 2L1AA0704  | Design certification by the Design Checker   | 2     | 0      | 28  |        |        | 12OCT08       | 08NOV08                 | 0    | 155   |      | Щ        |      |      |      |      |
| 2L1AA0706  | Design submission for the SO's approval  | 1     | 0      | 1   |        |        | 11OCT08       | 11OCT08                 | 0    | 126   |      | 0.5      |      |      |      |      |
| 2L1AA0708  | Design review by the SO  | 2     | 0      | 42  |        |        | 12OCT08       | 22NOV08                 | 0    | 155   |      | 1        |      |      |      |      |
| 2L1AA0710  | Obtain design approval from the SO   | 2     | 0      | 0   |        |        |               | 22NOV08                 | 0    | 155   |      | •        |      |      |      |      |
| emporary D   | Prainage Management Plan for Portion A   |       |        |   |        |        |               |                         |      |       |      |          |      |      |      |      |
| 2L1AA0802  | TDMP preparation by the Designer   | 2     | 0      | 28  |        |        | 18AUG08A      | 14SEP08                 | 36   | 605   | 1    | i di ili |      |      |      |      |
| 2L1AA0804  | TDMP submission for the DC's approval  | 1     | 0      | 1   |        |        | 16SEP08       | 16SEP08                 | 0    | 493   | - 1  |          |      |      |      |      |
| 2L1AA0806  | TDMP certification by the Design Checker   | 2     | 0      | 28  |        |        | 17SEP08       | 14OCT08                 | 0    | 610   |      | Щ        |      |      |      |      |
| 2L1AA0808  | TDMP submission for the SO's approval  | 1     | 0      | 1   |        |        | 16SEP08       | 16SEP08                 | 0    | 488   |      |          |      |      |      |      |
| 2L1AA0810  | TDMP review by the SO  | 2     | 0      | 90  |        |        | 17SEP08       | 15DEC08                 |      | 604   |      |          |      |      |      |      |
| 2L1AA0812  | TDMP submission for DSD's approval   | 1     | 0      | 1   |        |        | 16SEP08       | 16SEP08                 | 0    |       |      |          |      |      |      |      |
| 2L1AA0814  | TDMP review by the DSD   | 2     | 0      | 90  |        |        | 17SEP08       | 15DEC08                 | 0    | 25000 |      |          |      |      |      |      |
| 2L1AA0816  | Obtain DSD's approval for DDA  | 1     | 0      | 1   |        |        | 16DEC08       | 16DEC08                 | 0    |       |      | 19       |      |      |      |      |
|  | Obtain SO's consent for TDMP   | 2     | 0      | 0   |        |        |               | 16DEC08                 |      | 604   |      |          |      |      |      |      |
|  | I Instrumentation Stg 1 for GL Works   | - 1,2 | 1251   | -30   |        |        |               |                         | - 5  | 3.000 |      |          |      |      |      |      |
|  | Design preparation by the Designer   | 2     | 0      | 14  |        |        | 22FEB08A      | 28APR08A                | 100  |       | =    |          |      |      |      |      |
| DL1AAG104  | Harris Committee | 2     | 0      | 7   |        |        | 29APR08A      | CARACTO I STATE AND AND | 100  |       | _    |          |      |      |      |      |
| Transfer of the same of the sa | Design submission for the SO's approval  | 1     | 0      | 1   |        |        | 10MAY08A      |                         | 100  |       | 7    | 14       | 1 1  |      |      |      |
|  | Design review by the SO  | 2     | 0      | 14  |        |        | 12MAY08A      | 1 25 10 WH V 20 V 20 V  | .004 | 161   |      |          |      |      |      |      |
|  | Obtain design approval from the SO   | 2     | 0      | 0   |        | -      | TENMATOOM     | 28AUG08                 |      | 161   |      |          |      |      |      |      |
|  | Install Geotechnical Instruments   | 1     | 0      | 6   |        |        | 26MAY08A      |                         | 100  | 101   | I    |          |      |      |      |      |
|  | Baseline Monitoring  | 2     | 0      | 14  |        |        | 27MAY08A      |                         | 100  |       |      | 11-1     |      |      |      |      |
|  | 122Manuscongeneering)  |       | U      | 3.77  |        |        | Z / IVIA TUOA | STIVIATUOA              | 100  |       |      |          |      |      |      |      |
|  | I Instrumentation Stg 2 for Deep Exc.  |       | 0      | 0   |        |        |               | 20411002                |      | 464   |      |          |      |      |      |      |
|  | Obtain design approval from the SO   | 2     | 177    | 10.7577   |        |        | 074110004     | 28AUG08                 |      | 161   | 1    |          |      |      |      |      |
|  | Install Geotechnical Instruments   | 1     | 0      | 28  |        |        |               | 04OCT08                 | 64   | 109   | 1    | •        |      |      |      |      |
|  | Baseline Monitoring  | 2     | 0      | 3   |        |        |               | 07OCT08                 | 0    |       |      |          |      |      |      |      |
| DL1AAG216  | Monitor/report Geotechnical Instrumentation  | 2     | 0      | 1,643   |        |        | 02JUN08A      | 30NOV12                 | - 5  | 0     |      |          |      |      |      |      |

| Decian Pag   | Description   |    | Target | Orig | Target            | Target                                  | Early    | Early            | % Total    |           |       | 2009 | 2010 |       | 2012 |
|--|---|----|--------|------|-------------------|---|----------|------------------|------------|-----------|-------|------|------|-------|------|
| Docton Dag   | Description   | ID | Dur    | Dur  | Start             | Finish                                  | Start    | Finish           | Comp Float |           |       |      |      |       |      |
| Design Fac   | kages for Works in Portion B  |    |        |      |                   |   |          |                  |            |           |       |      |      |       |      |
| Piling Platfor   | rm to Construct H-pile Wall   |    |        |      |                   |   |          |                  |            |           |       |      |      |       |      |
| 02L1BB0202   | Design preparation by the Designer  | 2  | 0      | 15   |                   |   | 24MAR08A | 09MAY08A         | 100        | -         |       |      |      |       |      |
| 02L1BB0204   | Design certification by the Design Checker  | 2  | 0      | 14   |                   |   | 10MAY08A | 08AUG08A         | 100        |           |       |      |      |       |      |
| 02L1BB0206   | Design submission for the SO's approval   | 1  | 0      | 1    |                   |   | 21MAY08A | 08AUG08A         | 100        | - Alleria |       |      |      |       |      |
| 02L1BB0208   | Design review by the SO   | 2  | 0      | 21   |                   |   | 22MAY08A | 28AUG08          | 95 -51     | -         |       |      |      |       |      |
| 02L1BB0210   | Obtain design approval from the SO  | 2  | 0      | 0    |                   |   |          | 28AUG08          | 0 -51      |           |       |      |      |       |      |
| Temp. Platfo   | rm to Construct Air Vent/Drop Shafts  |    |        |      |                   |   |          |                  |            |           |       |      |      |       |      |
| 02L1BB0302   | Design preparation by the Designer  | 2  | 15     | 22   | 07MAR08           | 21MAR08                                 | 04AUG08A | 26AUG08A         | 100        | 9 1       |       |      |      |       |      |
| 02L1BB0303   | Design submission for the DC's approval   | 1  | 0      | 1    |                   |   | 27AUG08A | 27AUG08A         | 100        |           |       |      |      |       |      |
| 02L1BB0304   | Design certification by the Design Checker  | 2  | 15     | 30   | 22MAR08           | 05APR08                                 | 28AUG08  | 26SEP08          | 0 28       | <u></u>   |       |      |      |       |      |
| 02L1BB0306   | Design submission for the SO's approval   | 1  | 1      | 1    | 07APR08           | 07APR08                                 | 27SEP08  | 27SEP08          | 0 22       | 1         | 10.0  |      |      |       |      |
| 02L1BB0308   | Design review by the SO   | 2  | 28     | 28   | 08APR08           | 05MAY08                                 | 28SEP08  | 25OCT08          | 0 29       |           | В     |      |      |       |      |
| 02L1BB0310   | Obtain design approval from the SO  | 2  | 0      | 0    |                   | 05MAY08                                 |          | 25OCT08          | 0 29       |           | •     |      |      |       |      |
| Temporary D  | rainage Management Plan   |    |        |      |                   |   |          |                  |            |           |       |      |      |       |      |
| The second secon | TDMP preparation by the Designer  | 2  | 15     | 14   | 22MAR08           | 05APR08                                 | 05MAY08A | 04AUG08A         | 100        | 0         |       |      |      |       |      |
| 02L1BB0403   | TDMP submission for the DC's approval   | 1  | 0      | 1    |                   |   | 05AUG08A | 05AUG08A         | 100        | 1         | . 1   |      |      |       |      |
| 02L1BB0404   | TDMP certification by the Design Checker  | 2  | 15     | 28   | 06APR08           | 20APR08                                 | 06AUG08A | 07SEP08          | 50 86      |           |       |      |      | 1 1 1 |      |
| 02L1BB0406   | TDMP submission for the SO's approval   | 1  | 1      | 1    | 21APR08           | 21APR08                                 | 28AUG08  | 28AUG08          | 0 50       |           |       |      |      |       |      |
| 02L1BB0408   | TDMP review by the SO   | 2  | 28     | 90   | 22APR08           | 19MAY08                                 | 29AUG08  | 26NOV08          | 0 62       | -         |       |      |      |       |      |
| 02L1BB0410   | TDMP submission for DSD's approval  | 1  | 0      | 1    |                   | 19MAY08                                 | 28AUG08  | 28AUG08          | 0 47       |           |       |      |      |       |      |
| 02L1BB0412   | TDMP review by the DSD  | 2  | 0      | 90   |                   | 100000000000000000000000000000000000000 | 29AUG08  | 26NOV08          | 0 58       |           |       |      |      |       |      |
| 02L1BB0414   | Obtain DSD's approval for DDA   | 1  | 0      | 1    |                   | +                                       | 27NOV08  | 27NOV08          | 0 47       |           | 10    |      |      |       |      |
| and the same of the same of the same of  | Obtain SO's consent for TDMP  | 2  | 0      | 0    |                   |   |          | 27NOV08          | 0 62       |           | •     |      |      |       |      |
| Temp. Suppo  | ort Design for MAA/MAS/VDS/DC/AVS   | -  |        |      |                   |   |          |                  |            |           |       |      |      |       |      |
|  | Design preparation for the AIP submission   | 2  | 30     | 30   | 07MAR08           | 05APR08                                 | 02JUN08A | 10.IUI 08A       | 100        | 5 8       |       |      |      |       |      |
|  | Design (AIP) submission for the DC's approval   | 1  | 0      | 1    | 153/11/1/1/1/1555 | 50000000000                             | 11JUL08A |                  | 100        |           |       |      |      |       |      |
| C100/11/1/2005/C00/2005/20   | Design (AIP) certification by the Design Checker  | 2  | 15     | 60   | 06APR08           | 20APR08                                 | 12JUL08A |                  | 50 -43     | V         |       |      |      |       |      |
| 02L1BB0506   | Design (AIP) submission for the SO's approval   | 1  | 1      | 1    | 21APR08           | 21APR08                                 |          |                  | 100        | 1 /10 1   |       |      |      |       |      |
|  | Design (AIP) review by the SO   | 2  | 60     | 66   | 22APR08           | 20JUN08                                 | 25JUL08A | 03NOV08          | 39 -43     |           |       |      |      |       |      |
|  | AIP submission for rel. authorities' approval   | 1  | 0      | 1    |                   | 20JUN08                                 | 12JUL08A |                  | 100        | -1        |       |      |      |       |      |
|  | Design (AIP) review by the rel. authorities   | 2  | 1      |      | 21JUN08           | 21JUN08                                 | 14JUL08A | 1000000000000000 | 50 9       |           |       |      |      |       |      |
| social consequences of the   | Obtain rel. authorities's approval for AIP  | 1  | 15     | _    | 22JUN08           | 06JUL08                                 | 11SEP08  | 11SEP08          | 0 7        |           |       |      |      |       |      |
|  | SO submit design (AIP) for approval of GEO  | 1  | 11     |      | 07JUL08           | 07JUL08                                 | 04OCT08  | 04OCT08          | 0 -34      | 1         |       |      |      | 1 1   |      |
|  | Design (AIP) review/approval by the GEO   | 2  | 0      |      | 3.00200           | 08JUL08                                 | 05OCT08  | 01NOV08          | 0 -41      |           |       |      |      |       |      |
|  | Obtain SO's consent for design (AIP)  | 2  | 30     | 0    | 16JUN08           | 15JUL08                                 | 3000.00  | 04NOV08          | 0 -43      | -         |       |      |      |       |      |
|  | Design preparation for the DDA submission   | 2  | 15     | 30   | 16JUL08           | 30JUL08                                 | 13OCT08  | 11NOV08          | 0 37       |           |       |      |      |       |      |
| Market Market Control of the Control | Design (DDA) submission for the DC's approval   | 1  | 0      | 1    | JUUGEOU           | 3000000                                 | 12NOV08  | 12NOV08          | 0 32       |           | F     |      |      |       |      |
| NO. 0214 NO. 250-26000 1250-2  | Design (DDA) submission for the DC's approval   | 2  | 1      | 28   | 31JUL08           | 31JUL08                                 | 13NOV08  | 10DEC08          | 0 32       |           | in in |      |      |       |      |
|  | Design (DDA) certification by the Design Checker  Design (DDA) submission for the SO's approval | 1  | 60     |      | 01AUG08           | 29SEP08                                 |          | 12NOV08          | 0 37       |           | - 1   |      |      |       |      |

| ID         | Activity   |     | Target | Orig | Target                       | Target                                  | Early  | Early   |      | Total      | 2008 |        | 2009 | 2010 | 2011 | 2012 |
|------------|--|-----|--------|------|------------------------------|---|--|---|------|------------|------|--------|------|------|------|------|
|            | Description                                      | ID  | Dur    | Dur  | Start                        | Finish                                  | Start  | Finish  | Comp | 1000       |      |        |      |      |      |      |
| 02L1BB0528 | Design (DDA) review by the SO                    | 2   | 0      | 66   |                              | 29SEP08                                 | 13NOV08  | 17JAN09   | 0    | 77700      |      | •      |      |      |      |      |
| 02L1BB0530 | DDA submission for rel. authorities' approval    | 1   | 1      | 1    | 30SEP08                      | 30SEP08                                 | 19NOV08  | 19NOV08   | 0    |            |      |        |      |      |      |      |
| 02L1BB0532 | Design (DDA) review by the rel. authorities      | 2   | 28     | 28   | 01OCT08                      | 28OCT08                                 | 20NOV08  | 17DEC08   | 0    | 0.8383     |      | - 111  |      |      |      |      |
| 02L1BB0534 | Obtain rel. authorities's approval for DDA       | 1   | 1      | 1    | 29OCT08                      | 29OCT08                                 | 18DEC08  | 18DEC08   | 0    | 0.0000     |      | 11     |      |      |      |      |
| 02L1BB0536 | SO submit design (DDA) for approval of GEO       | 1   | 0      | 1    |                              | 30OCT08                                 | 18DEC08  | 18DEC08   | 0    | 29         |      | 4      |      |      |      |      |
| 02L1BB0538 | Design (DDA) review/approval by the GEO          | 2   | 0      | 28   |                              |   | 19DEC08  | 15JAN09   | 0    | 40         |      | 0      |      |      |      |      |
| 02L1BB0540 | Obtain SO's consent for design (DDA)             | 2   | 0      | 0    |                              |   |  | 18JAN09   | 0    | 38         |      | •      |      |      |      |      |
| Temp. Supp | ort Design for MA and MA/MT Connection           |     |        |      |                              |   |  |   |      |            |      |        |      |      |      |      |
| 02L1BB0602 | Design preparation for the AIP submission        | 2   | 30     | 110  | 21APR08                      | 20MAY08                                 | 09JUN08A   | 26SEP08   | 73   | 704        |      |        |      | (2)  |      |      |
| 02L1BB0603 | Design (AIP) submission for the DC's approval    | 1   | 0      | 1    |                              |   | 27SEP08  | 27SEP08   | 0    | 572        |      |        |      |      |      |      |
| 02L1BB0604 | Design (AIP) certification by the Design Checker | 2   | 15     | 28   | 21MAY08                      | 04JUN08                                 | 28SEP08  | 25OCT08   | 0    | 706        | 4    |        |      |      |      |      |
| 02L1BB0606 | Design (AIP) submission for the SO's approval    | 1   | 1      | 1    | 05JUN08                      | 05JUN08                                 | 27SEP08  | 27SEP08   | 0    | 570        | :0   |        |      |      |      |      |
| 02L1BB0608 | Design (AIP) review by the SO                    | 2   | 60     | 66   | 06JUN08                      | 04AUG08                                 | 28SEP08  | 02DEC08   | 0    | 704        | -    |        |      |      |      |      |
| 02L1BB0610 | AIP submission for rel. authorities' approval    | 1   | 0      | 1    |                              | 04AUG08                                 | 04OCT08  | 04OCT08   | 0    | 594        | -    | L      |      |      |      |      |
| 02L1BB0612 | Design (AIP) review by the rel. authorities      | 2   | 1      | 28   | 05AUG08                      | 05AUG08                                 | 05OCT08  | 01NOV08   | 0    | 733        |      | 11     |      |      |      |      |
| 02L1BB0614 | Obtain rel. authorities's approval for AIP       | 1   | 15     | 1    | 06AUG08                      | 20AUG08                                 | 03NOV08  | 03NOV08   | 0    | 594        | •    |        |      |      |      |      |
| 02L1BB0616 | SO submit design (AIP) for approval of GEO       | 1   | 1      | 1    | 21AUG08                      | 21AUG08                                 | 03NOV08  | 03NOV08   | 0    | 572        |      |        |      |      |      |      |
| 02L1BB0618 | Design (AIP) review/approval by the GEO          | 2   | 0      | 28   |                              | 22AUG08                                 | 04NOV08  | 01DEC08   | 0    | 705        |      | 聖      |      |      |      |      |
| 02L1BB0620 | Obtain SO's consent for design (AIP)             | 2   | 30     | 0    | 31JUL08                      | 29AUG08                                 |  | 03DEC08   | 0    | 704        | 24   | -      |      |      |      |      |
| 02L1BB0622 | Design preparation for the DDA submission        | 2   | 15     | 30   | 30AUG08                      | 13SEP08                                 | 11NOV08  | 10DEC08   | 0    | 704        |      | 231    |      |      |      |      |
| 02L1BB0623 | Design (DDA) submission for the DC's approval    | 1   | 0      | 1    | I.                           |   | 11DEC08  | 11DEC08   | 0    | 571        |      | 1      |      |      |      |      |
| 02L1BB0624 | Design (DDA) certification by the Design Checker | 2   | 1      | 28   | 16SEP08                      | 16SEP08                                 | 12DEC08  | 08JAN09   | 0    | 706        |      | U      |      |      |      |      |
| 02L1BB0626 | Design (DDA) submission for the SO's approval    | 1   | 60     | 1    | 17SEP08                      | 15NOV08                                 | 11DEC08  | 11DEC08   | 0    |            | 4    | 1      |      |      |      |      |
| 02L1BB0628 | Design (DDA) review by the SO                    | 2   | 0      | 66   |                              | 15NOV08                                 | 12DEC08  | 15FEB09   | 0    |            |      | + 1000 |      |      |      |      |
| 02L1BB0630 | DDA submission for rel. authorities' approval    | 1   | 1      | 1    | 17NOV08                      | 17NOV08                                 | 18DEC08  | 18DEC08   | 0    | 596        | - 1  | 1.1    |      |      |      |      |
| 02L1BB0632 | Design (DDA) review by the rel. authorities      | 2   | 28     | 28   | 18NOV08                      | 15DEC08                                 | 19DEC08  | 15JAN09   | 0    | +945 AV 2  |      | -8     |      |      |      |      |
| 02L1BB0634 | Obtain rel. authorities's approval for DDA       | 1   | 1      | 1    | 16DEC08                      | 16DEC08                                 | 16JAN09  | 16JAN09   | 0    | 596        |      | - 1    |      |      |      |      |
| 02L1BB0636 | SO submit design (DDA) for approval of GEO       | 1   | 0      | 1    |                              | 17DEC08                                 | 16JAN09  | 16JAN09   | 0    |            |      |        |      |      |      |      |
| 02L1BB0638 | Design (DDA) review/approval by the GEO          | 2   | 0      | 28   |                              | 100000000000000000000000000000000000000 | 17JAN09  | 13FEB09   | 0    |            |      | 1ii    |      |      |      |      |
| 02L1BB0640 | Obtain SO's consent for design (DDA)             | 2   | 0      | 0    | i -                          |   | Uprice of the Control | 16FEB09   | 257  | 704        |      |        |      |      |      |      |
|            | Design for MAA/MAS/VDS/DC/AVS                    |     |        |      |                              |   |  | wysourselfeld)  |      | 1405574    |      |        |      |      |      |      |
| 02L1BB0702 | Design preparation for the AIP submission        | 2   | 30     | 30   | 21MAY08                      | 19JUN08                                 | 02JUN08A   | 03JUI 08A   | 100  |            | -    |        |      |      |      |      |
| 02L1BB0703 | Design submission for the DC's approval          | 1   | 0      | 1    | - and a second of the second | 1.00.001.390.90                         | 23JUL08A   | and the second  | 100  |            | 1    |        |      |      |      |      |
| 02L1BB0704 | Design (AIP) certification by the Design Checker | 2   | 15     | 60   | 20JUN08                      | 04JUL08                                 | 24JUL08A   | 26SEP08   | 50   | 586        | 4 1  |        |      |      |      |      |
| 02L1BB0704 | Design (AIP) submission for the SO's approval    | 1   | 1      | 1    | 05JUL08                      | 05JUL08                                 |  | 04JUL08A  | 100  | 550        |      |        |      |      |      |      |
| 2L1BB0708  | Design (AIP) review by the SO                    | 2   | 60     | 66   | 06JUL08                      | 03SEP08                                 | 05JUL08A   | 2000 E | 50   | 586        |      | -      |      |      |      |      |
| 2L1BB0710  | AIP submission for rel. authorities' approval    | 1   | 0      | 1    | 3000000                      | 03SEP08                                 |  | 03JUL08A  | 100  | 330        |      | 7      |      |      |      |      |
| 2L1BB0710  | Design (AIP) review by the rel. authorities      | 2   | 1      | 28   | 04SEP08                      | 04SEP08                                 | 04JUL08A   | 03OCT08   | 50   | 614        |      |        |      |      |      |      |
| 2L1BB0712  | Obtain rel. authorities's approval for AIP       | 1   | 15     | 1    | 05SEP08                      | 19SEP08                                 | 040CT08  | 04OCT08   | 0    | 1000111    |      |        |      |      |      | 1    |
| 2L1BB0714  | SO submit design (AIP) for approval of GEO       | 1   | 15     | 1    | 20SEP08                      | The company of the company              | 52H92 57020 A14506 C1  | N. C  |      | 0.5440.000 |      | 1      |      |      |      |      |
|            | OU SUDMIL DESIGN TAIF FOR ADDIOVALOUGED          | 1 3 | 34     | -    | ZUSEPUS                      | 20SEP08                                 | 04OCT08  | 04OCT08   | 0    | 473        | - 1  |        |      |      |      |      |

| ID                | Activity   | Cal | Target | Orig   | Target   | Target           | Early                                   | Early    |          | tal  | 2008     | 2009 | 2010 | 2011 | 2012 |
|-------------------|--|-----|--------|--------|--|------------------|---|----------|----------|------|----------|------|------|------|------|
| 001 4 0 0 0 7 0 0 | Description                                      | ID  | Dur    | Dur    | Start  | Finish           | Start                                   | Finish   | Comp Flo |      |          |      |      |      |      |
| 02L1BB0720        | Obtain SO's consent for design (AIP)             | 2   | 30     | 0      | 31AUG08  | 29SEP08          |   | 02NOV08  | - 2      | 86   | *        |      |      |      |      |
| 02L1BB0722        | Design preparation for the DDA submission        | 2   | 15     | 30     | 30SEP08  | 14OCT08          | 11OCT08                                 | 09NOV08  |          | 86   | 40       |      |      |      |      |
| 02L1BB0723        | Design submission for the DC's approval          | 1   | 0      | 1      | OLS VINE TO  | 0355000          | 10NOV08                                 | 10NOV08  | 0 4      |      |          |      |      |      |      |
| 02L1BB0724        | Design (DDA) certification by the Design Checker | 2   | 1      | 28     | 15OCT08  | 15OCT08          | 11NOV08                                 | 08DEC08  | 0 5      | 88   | · [III   |      |      |      |      |
| 02L1BB0726        | Design (DDA) submission for the SO's approval    | 1   | 60     | 1      | 16OCT08  | 14DEC08          | 10NOV08                                 | 10NOV08  | 0 4      | V (  | 十        |      |      |      |      |
| 02L1BB0728        | Design (DDA) review by the SO                    | 2   | 0      | 66     |  | 14DEC08          | 11NOV08                                 | 15JAN09  |          | 86   | 112      |      |      |      |      |
| 02L1BB0730        | DDA submission for rel. authorities' approval    | 1   | 1      | 1      | 15DEC08  | 15DEC08          | 10NOV08                                 | 10NOV08  |          | 04   | 1 1      |      |      |      |      |
| 02L1BB0732        | Design (DDA) review by the rel. authorities      | 2   | 28     | 28     | 16DEC08  | 12JAN09          | 18NOV08                                 | 15DEC08  | 0 6      | 17   | 13       |      |      |      |      |
| 02L1BB0734        | Obtain rel. authorities's approval for DDA       | 1   | 1      | 1      | 13JAN09  | 13JAN09          | 16DEC08                                 | 16DEC08  | 0 4      | 98   | 10       | *    |      |      |      |
| 02L1BB0736        | SO submit design (DDA) for approval of GEO       | 1   | 0      | 1      |  | 14JAN09          | 16DEC08                                 | 16DEC08  | 0 4      | 73   |          | •    |      |      |      |
| 02L1BB0738        | Design (DDA) review/approval by the GEO          | 2   | 0      | 28     |  |                  | 17DEC08                                 | 13JAN09  | 0 5      | 88   | 1        |      |      |      |      |
| 02L1BB0740        | Obtain SO's consent for design (DDA)             | 2   | 0      | 0      |  |                  |   | 16JAN09  | 0 5      | 86   |          | •    |      |      |      |
| Permanent [       | Design for MA and MA/MT Connection               |     |        |        |  |                  |   |          |          |      |          |      |      |      |      |
| 02L1BB0802        | Design preparation for AIP submission            | 2   | 30     | 90     | 20JUN08  | 19JUL08          | 09JUN08A                                | 12OCT08  | 49 4     | 00   |          |      |      |      |      |
| 02L1BB0803        | Design (AIP) submission for the DC's approval    | 1   | 0      | 1      |  |                  | 13OCT08                                 | 13OCT08  | 0 3      | 26   | F        |      |      |      |      |
| 02L1BB0804        | Design (AIP) certification by the Design Checker | 2   | 15     | 28     | 20JUL08  | 03AUG08          | 24JUL08A                                | 28OCT08  | 50 4     | 00   | 2-0      |      | 11 1 |      |      |
| 02L1BB0806        | Design (AIP) submission for the SO's approval    | 1   | 1      | 2      | 04AUG08  | 04AUG08          | 25JUL08A                                | 13OCT08  | 50 3     | 42   |          |      |      |      |      |
| 02L1BB0808        | Design (AIP) review by the SO                    | 2   | 60     | 66     | 05AUG08  | 03OCT08          | 26JUL08A                                | 03DEC08  | 50 4     | 00   |          |      |      |      |      |
| 02L1BB0810        | AIP submission for rel. authorities' approval    | 1   | 0      | 1      |  | 03OCT08          | 25JUL08A                                | 07AUG08A | 100      |      | H -      |      |      |      |      |
| 02L1BB0812        | Design (AIP) review by the rel. authorities      | 2   | 1      | 28     | 04OCT08  | 04OCT08          | 26JUL08A                                | 04NOV08  | 50 4     | 28   | Eineral) |      |      |      |      |
| 02L1BB0814        | Obtain rel. authorities's approval for AIP       | 1   | 15     | 1      | 05OCT08  | 19OCT08          | 05NOV08                                 | 05NOV08  | 0 3      | 47   | D        |      |      |      |      |
| 02L1BB0816        | SO submit design (AIP) for approval of GEO       | 1   | 1      | 1      | 20OCT08  | 20OCT08          | 05NOV08                                 | 05NOV08  | 0 3      | 26   | 1        |      |      |      |      |
| 02L1BB0818        | Design (AIP) review/approval by the GEO          | 2   | 0      | 28     |  | 21OCT08          | 06NOV08                                 | 03DEC08  | 0 4      | 00   | -10      |      |      |      |      |
| 02L1BB0820        | Obtain SO's consent for design (AIP)             | 2   | 30     | 0      | 29SEP08  | 28OCT08          |   | 04DEC08  | 0 4      | 00   | = 💠      |      |      |      |      |
| 02L1BB0822        | Design preparation for the DDA submission        | 2   | 15     | 30     | 29OCT08  | 12NOV08          | 12NOV08                                 | 11DEC08  | 0 4      | 00   | 1        |      |      |      |      |
| 02L1BB0823        | Design (DDA) submission for the DC's approval    | 1   | 0      | 1      |  |                  | 12DEC08                                 | 12DEC08  | 0 3      | 25   | (1)      |      |      |      |      |
| 02L1BB0824        | Design (DDA) certification by the Design Checker | 2   | 1      | 28     | 13NOV08  | 13NOV08          | 13DEC08                                 | 09JAN09  |          | 03   | 1/8      | i i  |      |      |      |
| 02L1BB0826        | Design (DDA) submission for the SO's approval    | 1   | 60     | 1      | 14NOV08  | 12JAN09          | 12DEC08                                 | 12DEC08  |          | 23   | 4        | 9    |      |      |      |
| 02L1BB0828        | Design (DDA) review by the SO                    | 2   | 0      | 66     | I STATE OF THE PARTY OF THE PAR | 12JAN09          | 13DEC08                                 | 16FEB09  | 0 4      | 400  | Ī        | • 1  |      |      |      |
| 02L1BB0830        | DDA submission for rel. authorities' approval    | 1   | 1      | 1      | 13JAN09  | 13JAN09          | 12DEC08                                 | 12DEC08  | 0 3      | 5500 | 1 1      |      |      |      |      |
| 02L1BB0832        | Design (DDA) review by the rel. authorities      | 2   | 28     | 28     | 14JAN09  | 10FEB09          | 20DEC08                                 | 16JAN09  | 3.0 540  | 32   |          | ja   |      |      |      |
| 02L1BB0834        | Obtain rel. authorities's approval for DDA       | 1   | 1      | 1      | 11FEB09  | 11FEB09          | 17JAN09                                 | 17JAN09  | 0 3      |      |          | 14   |      |      |      |
| 02L1BB0836        | SO submit design (DDA) for approval of GEO       | 1   | 0      | 1      | THE REPORT OF THE PARTY OF THE  | 12FEB09          | 17JAN09                                 | 17JAN09  | 0 3      |      |          | 1.   |      |      |      |
| 02L1BB0838        | Design (DDA) review/approval by the GEO          | 2   | 0      | 28     |  | WWW.15-240204200 | 18JAN09                                 | 14FEB09  |          | 03   |          | Ð    |      |      | 1 1  |
| 02L1BB0840        | Obtain SO's consent for design (DDA)             | 2   | 0      | 0      |  |                  |   | 17FEB09  |          | 01   |          | •    |      |      |      |
| ELS for Pern      | n. Approach Channel Construction                 |     |        |        |  |                  | -                                       |          |          |      |          |      |      |      |      |
| 02L1BB0902        | Design preparation by the Designer               | 2   | 15     | 14     | 06APR08  | 20APR08          | 02OCT08*                                | 15OCT08  | 0        | 41   |          |      |      |      |      |
| 02L1BB0903        | Design submission for the DC's approval          | 1   | 0      | 1      |  |                  | 16OCT08                                 | 16OCT08  |          | 35   |          |      |      |      |      |
| 02L1BB0904        | Design certification by the Design Checker       | 2   | 15     |        | 21APR08  | 05MAY08          | 100000000000000000000000000000000000000 | 13NOV08  |          | 41   | G        |      |      |      |      |
| 2L1BB0906         | Design submission for the SO's approval          | 1   | 1      | 0.0000 | 06MAY08  | 06MAY08          | 16OCT08                                 | 16OCT08  |          | 35   | J        |      |      |      |      |
|                   | Design review by the SO                          | 2   | - 15   |        | 07MAY08  | 27MAY08          | 17OCT08                                 |          |          | 41   |          |      |      |      |      |

| ID   | Activity Description   | Cal | Target<br>Dur | Orig<br>Dur | Target<br>Start   | Target<br>Finish                        | Early<br>Start   | Early<br>Finish  | %<br>Comp | Total       | 2008     |          | 2009 | 2010 | 2011  | 2012 |
|--|--|-----|---------------|-------------|---|---|--|--|-----------|-------------|----------|----------|------|------|-------|------|
| 02I 1BB0910  | Obtain design approval from the SO   | 2   | 0             |             | Start   | 27MAY08                                 | Start  | 27NOV08  |           | 41          |          | •        |      |      |       |      |
|  | I Instrumentation Stg 1 for GL Works   |     |               | 0           |   | 27107100                                |  | 27140 400  | 0         | -7-1        |          | *        | -    |      |       | -    |
|  | Design preparation by the Designer   | 2   | 0             | 14          |   |   | 2255000  | 05MAY08A   | 100       |             |          |          |      |      |       | W 1  |
|  | Design preparation by the Designer  Design certification by the Design Checker | 2   | 0             | 7           |   |   | 06MAY08A   | STATE OF THE STATE | 100<br>75 |             |          |          |      |      |       |      |
|  | Design submission for the SO's approval  | 1   | 0             | 1           | -   |   | Discount Control of the Control of t | [Data: Holding Assets]   | 10/22/    | -42         |          |          |      |      |       |      |
|  | Design review by the SO  | 2   | N-2           |             |   | -                                       | The second contraction of the second contrac | 10MAY08A   | 100       |             |          |          |      |      |       |      |
|  | Obtain design approval from the SO   | 2   | 0             | 0           |   | +                                       | 12MAY08A   |  | 100       | _           |          |          |      |      |       |      |
|  |  |     |               |             |   |   | 44 11 15 10 0 4  | 14JUL08A   | 100       |             |          |          |      |      |       |      |
|  | Install Geotechnical Instruments   | 1   | 0             | 6           | -   | -                                       | 11JUN08A   | CHEST CONTRACTOR   | 100       |             | 7        |          |      |      |       |      |
|  | Baseline Monitoring  | 2   | .0            | 14          |   |   | 21JUL08A   | 26JUL08A   | 100       |             | - 1      | -        |      |      |       |      |
| Selection and the Party Control of the Party Contro | I Instrumentation Stg 2 for Deep Exc.  |     |               |             |   |   |  |  |           |             |          |          |      |      |       |      |
|  | Design preparation by the Designer   | 2   | 0             | 11:57-0     |   |   | 31AUG08  | 09OCT08  | 0         |             |          |          |      |      |       |      |
|  | Design certification by the Design Checker                                     | 2   | 0             |             |   |   | 10OCT08  | 23OCT08  | 0         | 55145       |          | *        |      |      |       |      |
|  |  |     | 0             |             |   |   | 10OCT08  | 10OCT08  | 0         |             |          | 4        |      |      |       |      |
|  | Design review by the SO  | 2   | 0             | 28          |   |   | 11OCT08  | 07NOV08  | 0         |             |          | =        |      |      |       |      |
|  | Obtain design approval from the SO   | 2   | 0             | 0           |   |   | Tools Continues  | 07NOV08  | 0         | 20000000    |          | •        |      |      |       |      |
|  | Install Geotechnical Instruments   | 1   | 0             | 18          |   |   | 08NOV08  | 28NOV08  | 0         |             |          | <b>H</b> |      |      |       |      |
|  | Baseline Monitoring  | 2   | .0            |             |   |   | 29NOV08  | 12DEC08  | 0         | -           |          | 8        |      |      |       |      |
| 3DL1BBG216   | Monitor/report Geotechnical Instrumentation                                    | 2   | 0             | 1,587       |   |   | 28JUL08A   | 30NOV12  | 2         | 0           | -        |          |      |      |       |      |
| Design Pac   | kages for Works in Portion C   |     |               |             |   |   |  |  |           |             |          |          |      |      |       |      |
| Piling Platfor   | rm for H-pile Wall A   |     |               |             |   |   |  |  |           |             |          |          |      |      |       |      |
| 02L1CC0002   | Design preparation by the Designer   | 2   | 0             | 15          |   |   | 12MAY08A   | 27JUN08A   | 100       |             | =        |          |      |      |       |      |
| 02L1CC0004   | Design certification by the Design Checker                                     | 2   | 0             | 14          |   |   | 22MAY08A   | 03JUL08A   | 100       |             | =        |          |      |      |       |      |
| 02L1CC0006   | Design submission for the SO's approval  | 1   | 0             | 1           |   |   | 04JUL08A   | 04JUL08A   | 100       |             |          |          |      |      |       |      |
| 02L1CC0008   | Design review by the SO  | 2   | 0             | 14          |   |   | 05JUL08A   | 29JUL08A   | 100       |             | - ■      |          |      |      |       |      |
| 02L1CC0010   | Obtain design approval from the SO   | 2   | 0             | 0           |   |   |  | 29JUL08A   | 100       |             | •        |          |      |      |       |      |
|  | emp. Access Road to Wall B   |     |               |             |   |   |  |  |           |             |          |          |      |      |       |      |
| 02L1CC0102   | Design preparation by the Designer   | 2   | 15            | 40          | 08FEB08   | 22FEB08                                 | 02OCT08*   | 03NOV08  | 18        | 714         | ar i     |          |      |      |       |      |
| 02L1CC0103   | Design submission for the DC's approval  | 1   | 0             | 1           | 2007.1.445.000  |   | 04NOV08  | 04NOV08  | 0         |             |          |          |      |      |       |      |
| 02L1CC0104   | Design certification by the Design Checker                                     | 2   | 15            | 28          | 23FEB08   | 08MAR08                                 | 05NOV08  | 02DEC08  | 0         | C15-3C-1741 | <b>5</b> | in .     |      |      | 1 1 1 |      |
| 02L1CC0106   | Design submission for the SO's approval  | 1   | 1             | 1           | 10MAR08   | 10MAR08                                 | 04NOV08  | 04NOV08  | 0         | 10.000      | 4        | 177      |      |      |       |      |
| 02L1CC0108   | Design review by the SO  | 2   | 28            | 42          | 11MAR08   | 07APR08                                 | 05NOV08  | 16DEC08  | 0         | 0.0000000   |          |          |      |      |       |      |
|  | Obtain design approval from the SO   | 2   | 0             | 0           | 100 (\$ | 07APR08                                 | Well-certified   | 16DEC08  |           | 729         |          |          |      |      |       |      |
|  | rm for H-pile Wall B   |     |               | 1.000       |   | 100000000000000000000000000000000000000 |  |  |           |             |          |          |      |      |       |      |
|  | Design preparation by the Designer   | 2   | . 0           | 15          |   |   | 04NOV08  | 18NOV08*   | 0         | 714         |          | 6        |      |      |       |      |
|  | Design submission for the DC's approval  | 1   | 0             | 1           |   | -                                       | 19NOV08  | 19NOV08  | - 8       | 578         |          |          |      |      |       |      |
|  | Design certification by the Design Checker                                     | 2   | 0             | 28          |   | +                                       | 20NOV08  | 17DEC08  | 0         | 30701-0     |          | 04       |      |      |       |      |
|  | Design submission for the SO's approval  | 1   | 0             | 1           |   |   | 19NOV08  | 19NOV08  | 0         | A (6162)    |          |          |      |      |       |      |
|  | Design review by the SO  | 2   | 0             | 42          |   |   | 20NOV08  | 31DEC08  |           | 714         |          | 100      |      |      |       |      |
|  | Obtain design approval from the SO   | 2   | 0             | 0           |   |   | 2010100  | 31DEC08  | 120       | 714         |          |          |      |      |       |      |

| ID         | Activity Description   | Cal | Target<br>Dur | Orig | Target       | Target  | Early                                   | Early                                  |        | Total       | 2008     | ш         | 2009 | 2010  | 2011 | 2012 |
|------------|--|-----|---------------|------|--------------|---------|---|--|--------|-------------|----------|-----------|------|-------|------|------|
| Town Sunn  |  | ID  | Dur           | Dur  | Start        | Finish  | Start                                   | Finish                                 | Comp F | -loat       |          |           |      |       |      |      |
| 02L1CC0302 | ort Design for MAA/MAS/VDS/DC/AVS  Design preparation for the AIP submission | 2   | 30            | 102  | 09MAR08      | 07APR08 | 26JUN08A                                | 06OCT08                                | 0.1    | 242         | . =      |           |      |       |      |      |
| 02L1CC0302 | Design (AIP) submission for the DC's approval                                |     | 0             | 1    | USIVIARUO    | UTAPRUS | 111200000000000000000000000000000000000 | 22000000000000000000000000000000000000 | 61     | 7.85 (5.05) |          |           |      |       | 4    |      |
| 02L1CC0303 | Design (AIP) certification by the Design Checker                             | 1 2 | 131           | - 7/ | 08APR08      | 22APR08 | 08OCT08                                 | 08OCT08                                |        | 171         | 147      |           |      | H H . |      |      |
| 02L1CC0304 | Design (AIP) submission for the SO's approval                                | -   | 15            |      | 23APR08      | 23APR08 | 09OCT08                                 | 05NOV08                                |        | 214         |          | 7         |      |       |      |      |
| 02L1CC0308 |  | 1   |               |      |              |         | 08OCT08                                 | 08OCT08                                |        | 170         |          | -         |      |       |      |      |
|            | Design (AIP) review by the SO  | 2   | 60            | 66   | 24APR08      | 22JUN08 | 09OCT08                                 | 13DEC08                                | - 20   | 212         | -        |           |      |       |      |      |
| 02L1CC0310 | AIP submission for rel. authorities' approval                                | 1   | 0             | 1    | 00 11 15 100 | 22JUN08 | 08OCT08                                 | 08OCT08                                | - 2    | 200         |          | 120       |      |       | 1 1  |      |
| 02L1CC0312 | Design (AIP) review by the rel. authorities                                  | 2   | 1             | 28   | 23JUN08      | 23JUN08 | 16OCT08                                 | 12NOV08                                |        | 242         | -        |           |      |       |      |      |
| 02L1CC0314 | Obtain rel. authorities's approval for AIP                                   | 1   | 15            | 1    | 24JUN08      | 08JUL08 | 13NOV08                                 | 13NOV08                                |        | 193         | o .      |           |      |       |      |      |
| 02L1CC0316 | SO submit design (AIP) for approval of GEO                                   | 1   | 1             | 1    | 09JUL08      | 09JUL08 | 13NOV08                                 | 13NOV08                                | ~ ~    | 170         | (1       |           |      |       |      |      |
| 02L1CC0318 | Design (AIP) review/approval by the GEO                                      | 2   | 0             | 28   |              | 10JUL08 | 14NOV08                                 | 11DEC08                                |        | 214         |          |           |      |       |      |      |
| 02L1CC0320 | Obtain SO's consent for design (AIP)   | 2   | 30            | 0    | 18JUN08      | 17JUL08 | **************************************  | 14DEC08                                |        | 212         |          | 7         |      |       |      |      |
| 02L1CC0322 | Design preparation for the DDA submission                                    | 2   | 15            | 30   | 18JUL08      | 01AUG08 | 22NOV08                                 | 21DEC08                                |        | 212         |          |           |      |       |      |      |
| 02L1CC0323 | Design (DDA) submission for the DC's approval                                | 1   | 0             | 1    |              |         | 22DEC08                                 | 22DEC08                                |        | 170         |          |           |      |       |      |      |
| 02L1CC0324 | Design (DDA) certification by the Design Checker                             | 2   | 1             | 28   | 02AUG08      | 02AUG08 | 23DEC08                                 | 19JAN09                                | 36     | 214         |          | _   '   " |      |       | ų.   |      |
| 02L1CC0326 | Design (DDA) submission for the SO's approval                                | 1   | 60            | 1    | 03AUG08      | 01OCT08 | 22DEC08                                 | 22DEC08                                |        |             |          |           | _    |       |      |      |
| 02L1CC0328 | Design (DDA) review by the SO  | 2   | 0             | 66   | NESSES III   | 01OCT08 | 23DEC08                                 | 26FEB09                                |        | 212         |          |           |      |       |      |      |
| 02L1CC0330 | DDA submission for rel. authorities' approval                                | 1   | 1             | 1    | 02OCT08      | 02OCT08 | 22DEC08                                 | 22DEC08                                |        | 200         |          |           |      |       |      |      |
| 02L1CC0332 | Design (DDA) review by the rel. authorities                                  | 2   | 28            | 28   | 03OCT08      | 30OCT08 | 30DEC08                                 | 26JAN09                                | - 11   | 242         |          |           |      |       |      |      |
| 02L1CC0334 | Obtain rel. authorities's approval for DDA                                   | 1   | 1             | 1    | 31OCT08      | 31OCT08 | 29JAN09                                 | 29JAN09                                |        | 198         |          | 11        |      |       |      |      |
| 02L1CC0336 | SO submit design (DDA) for approval of GEO                                   | 1   | 0             | 1    |              | 01NOV08 | 29JAN09                                 | 29JAN09                                |        | 1000        |          | 1         |      |       |      |      |
| 02L1CC0338 | Design (DDA) review/approval by the GEO                                      | 2   | 0             | 28   |              |         | 30JAN09                                 | 26FEB09                                |        | 212         |          |           |      |       |      |      |
| 02L1CC0340 | Obtain SO's consent for design (DDA)   | 2   | 0             | 0    |              |         |   | 27FEB09                                | 0      | 212         |          |           | •    |       |      |      |
| Temp. Supp | ort Design for MA and MA/MT Connection                                       |     |               |      |              |         |   |  |        |             | _        |           |      |       |      |      |
| 02L1CC0402 | Design preparation for the AIP submission                                    | 2   | 30            | 30   | 80YAM80      | 06JUN08 | 18AUG08A                                | 18OCT08                                | 20     | 514         | <u>=</u> |           |      |       |      |      |
| 02L1CC0403 | Design (AIP) submission for the DC's approval                                | 1   | 0             | 1    |              |         | 20OCT08                                 | 20OCT08                                | 0      | 419         |          | 1         |      |       |      |      |
| 02L1CC0404 | Design (AIP) certification by the Design Checker                             | 2   | 15            | 28   | 07JUN08      | 21JUN08 | 21OCT08                                 | 17NOV08                                | 0      | 515         | 0        | Ф         |      |       |      |      |
| 02L1CC0406 | Design (AIP) submission for the SO's approval                                | 1   | 1             | 1    | 23JUN08      | 23JUN08 | 20OCT08                                 | 20OCT08                                | 0      | 417         | 1        | 1         |      |       |      |      |
| 02L1CC0408 | Design (AIP) review by the SO  | 2   | 60            | 66   | 24JUN08      | 22AUG08 | 21OCT08                                 | 25DEC08                                | 0      | 513         | ==       |           |      |       |      |      |
| 02L1CC0410 | AIP submission for rel. authorities' approval                                | 1   | 0             | 1    |              | 22AUG08 | 27OCT08                                 | 27OCT08                                | 0      | 437         |          |           |      |       |      |      |
| 02L1CC0412 | Design (AIP) review by the rel. authorities                                  | 2   | 1             | 28   | 23AUG08      | 23AUG08 | 28OCT08                                 | 24NOV08                                | 0      | 541         |          | 8         |      |       |      |      |
| 02L1CC0414 | Obtain rel. authorities's approval for AIP                                   | 1   | 15            | 1    | 24AUG08      | 07SEP08 | 25NOV08                                 | 25NOV08                                | 0      | 436         |          | 94        |      |       |      |      |
| 02L1CC0416 | SO submit design (AIP) for approval of GEO                                   | 1   | 1             | 1    | 08SEP08      | 08SEP08 | 25NOV08                                 | 25NOV08                                | 0      | 415         |          | 1         |      |       |      |      |
| 02L1CC0418 | Design (AIP) review/approval by the GEO                                      | 2   | 0             | 28   |              | 09SEP08 | 26NOV08                                 | 23DEC08                                | 0      | 515         |          | - B       |      |       |      |      |
| 02L1CC0420 | Obtain SO's consent for design (AIP)   | 2   | 30            | 0    | 18AUG08      | 16SEP08 |   | 26DEC08                                | 0      | 513         | 4        |           |      |       |      |      |
| 02L1CC0422 | Design preparation for the DDA submission                                    | 2   | 15            | 30   | 17SEP08      | 01OCT08 | 04DEC08                                 | 02JAN09                                | 0      | 513         |          | - II      |      |       |      |      |
| 02L1CC0423 | Design submission for the DC's approval                                      | 1   | 0             | 1    |              |         | 03JAN09                                 | 03JAN09                                | 0      | 415         |          |           |      |       |      |      |
| 02L1CC0424 | Design (DDA) certification by the Design Checker                             | 2   | 1             | 28   | 02OCT08      | 02OCT08 | 04JAN09                                 | 31JAN09                                | 0      | 515         |          | 4         |      |       |      |      |
| 02L1CC0426 | Design (DDA) submission for the SO's approval                                | 1   | 60            | 1    | 03OCT08      | 01DEC08 | 03JAN09                                 | 03JAN09                                | 0      | 413         |          | -         |      |       |      |      |
| 02L1CC0428 | Design (DDA) review by the SO  | 2   | 0             | 66   |              | 01DEC08 | 04JAN09                                 | 10MAR09                                | 0      | 513         |          |           |      |       |      |      |
| 02L1CC0430 | DDA submission for rel. authorities' approval                                | 1   | 1             | 1    | 02DEC08      | 02DEC08 | 10JAN09                                 | 10JAN09                                | 0      | 437         |          | 14 (      |      |       |      |      |

| ID          | Activity Description                             | Cal | Target<br>Dur | Orig  | Target<br>Start         | Target<br>Finish | Early<br>Start | Early<br>Finish | %<br>Comp | Total<br>Float | 2008 | 2009             | 2010 | 2011 | 2012 |
|-------------|--|-----|---------------|-------|-------------------------|------------------|----------------|-----------------|-----------|----------------|------|------------------|------|------|------|
| 02L1CC0432  | Design (DDA) review by the rel. authorities      | 2   | 28            | 28    | 03DEC08                 | 30DEC08          | 11JAN09        | 07FEB09         | -         | 543            |      | -2               |      |      |      |
| 02L1CC0434  | Obtain rel. authorities's approval for DDA       | 1   | 1             | 1     | 31DEC08                 | 31DEC08          | 09FEB09        | 09FEB09         |           | 440            |      |                  |      |      |      |
| 02L1CC0436  | SO submit design (DDA) for approval of GEO       | 1   | 0             | 1     | 7.0                     | 02JAN09          | 09FEB09        | 09FEB09         |           | 416            |      | *1               |      |      |      |
| 02L1CC0438  | Design (DDA) review/approval by the GEO          | 2   | 0             |       | 1                       | 020/11100        | 10FEB09        | 09MAR09         |           | 514            |      | LO .             |      |      |      |
| 02L1CC0440  | Obtain SO's consent for design (DDA)             | 2   | 0             |       |                         | +                | 10. 2000       | 10MAR09         |           | 513            |      |                  |      |      |      |
|             | Design for MAA/MAS/VDS/DC/AVS                    |     |               |       | <u> </u>                | -                | -              | 10,111,110,0    |           | 0.0            |      |                  |      |      |      |
| 02L1CC0502  | Design preparation for the AIP submission        | 2   | 30            | 103   | 08APR08                 | 07MAY08          | 26JUN08A       | 06OCT08         | 61        | 650            | 1 =  |                  |      |      |      |
| 02L1CC0503  | Design submission for the DC's approval          | 1   | 0             | 1     |                         |                  | 08OCT08        | 08OCT08         |           | 527            |      |                  |      |      |      |
| 02L1CC0504  | Design (AIP) certification by the Design Checker | 2   | 15            | 28    | 08MAY08                 | 22MAY08          | 09OCT08        | 05NOV08         | _         | 651            |      |                  |      |      |      |
| 02L1CC0506  | Design (AIP) submission for the SO's approval    | 1   | 1             | - 000 | 23MAY08                 | 23MAY08          | 08OCT08        | 08OCT08         | - 23      | 525            | 1.6  |                  |      |      |      |
| 02L1CC0508  | Design (AIP) review by the SO                    | 2   | 60            | 66    | 24MAY08                 | 22JUL08          | 09OCT08        | 13DEC08         |           | 649            | -    | and it           |      |      |      |
| 02L1CC0510  | 'AIP submission for rel. authorities' approval   | 1   | 0             |       | octorion (III) Activity | 22JUL08          | 15OCT08        | 15OCT08         |           | 550            |      | 1                |      |      |      |
| 02L1CC0512  | Design (AIP) review by the rel. authorities      | 2   | 1             | 28    | 23JUL08                 | 23JUL08          | 16OCT08        | 12NOV08         |           | 678            | 11   |                  |      |      |      |
| 02L1CC0514  | Obtain rel. authorities's approval for AIP       | 1   | 15            |       | 24JUL08                 | 07AUG08          | 13NOV08        | 13NOV08         |           | 550            |      | 1                |      |      |      |
| 02L1CC0516  | SO submit design (AIP) for approval of GEO       | 1   | 1             | 1     | 08AUG08                 | 08AUG08          | 13NOV08        | 13NOV08         | -         | 527            | - 9  |                  |      |      |      |
| 02L1CC0518  | Design (AIP) review/approval by the GEO          | 2   | 0             | 28    |                         | 09AUG08          | 14NOV08        | 11DEC08         |           | 651            |      | w)               |      |      |      |
| 02L1CC0520  | Obtain SO's consent for design (AIP)             | . 2 | 30            | 0     | 18JUL08                 | 16AUG08          |                | 14DEC08         | _         | 649            | -    |                  |      |      |      |
| 02L1CC0522  | Design preparation for the DDA submission        | 2   | 15            | 30    | 17AUG08                 | 31AUG08          | 22NOV08        | 21DEC08         |           | 649            |      |                  |      |      |      |
| 02L1CC0523  | Design submission for the DC's approval          | 1   | 0             | 1     |                         |                  | 22DEC08        | 22DEC08         |           | 526            |      |                  |      |      |      |
| 02L1CC0524  | Design (DDA) certification by the Design Checker | 2   | 1             | 28    | 01SEP08                 | 01SEP08          | 23DEC08        | 19JAN09         | -         | 652            |      | to l             |      |      |      |
| 02L1CC0526  | Design (DDA) submission for the SO's approval    | 1   | 60            | 1     | 02SEP08                 | 31OCT08          | 22DEC08        | 22DEC08         | 300       | 524            |      | - 1              |      |      |      |
| 02L1CC0528  | Design (DDA) review by the SO                    | 2   | 0             | 66    | T1910/2004 0 2004       | 31OCT08          | 23DEC08        | 26FEB09         |           | 650            |      |                  |      |      |      |
| 02L1CC0530  | DDA submission for rel. authorities' approval    | 1   | 1             | 1     | 01NOV08                 | 01NOV08          | 29DEC08        | 29DEC08         | 0         | 552            |      |                  |      |      |      |
| 02L1CC0532  | Design (DDA) review by the rel. authorities      | 2   | 28            | 28    | 02NOV08                 | 29NOV08          | 30DEC08        | 26JAN09         | 0         | 681            | 1    | - <u>100</u>     |      |      |      |
| 02L1CC0534  | Obtain rel. authorities's approval for DDA       | 1   | 1             | 1     | 01DEC08                 | 01DEC08          | 29JAN09        | 29JAN09         | 0         | 554            |      | (4)              |      |      |      |
| 02L1CC0536  | SO submit design (DDA) for approval of GEO       | 1   | 0             | 1     |                         | 02DEC08          | 29JAN09        | 29JAN09         | 0         | 529            |      | * 11             |      |      |      |
| 02L1CC0538  | Design (DDA) review/approval by the GEO          | 2   | 0             | 28    | 1                       |                  | 30JAN09        | 26FEB09         | 0         | 650            |      |                  |      |      |      |
| 02L1CC0540  | Obtain SO's consent for design (DDA)             | 2   | 0             | 0     | 1                       |                  |                | 27FEB09         | 0         | 650            |      | •                |      |      |      |
| Permanent I | Design for MA and MA/MT Connection               |     |               |       |                         |                  |                |                 |           |                |      |                  |      |      |      |
| 02L1CC0602  | Design preparation for the AIP submission        | 2   | 30            | 84    | 07JUN08                 | 06JUL08          | 01JUL08A       | 26OCT08         | 29        | 750            | / == |                  |      |      |      |
| 02L1CC0603  | Design (AIP) submission for the DC's approval    | 1   | 0             | 1     |                         |                  |                |                 | 100       |                |      |                  |      |      |      |
| 02L1CC0604  | Design (AIP) certification by the Design Checker | 2   | 15            | 28    | 07JUL08                 | 21JUL08          | 26JUL08A       | 10NOV08         | 50        | 750            | u    | 4                |      |      |      |
| 02L1CC0606  | Design (AIP) submission for the SO's approval    | 1   | 1             | 1     | 22JUL08                 | 22JUL08          | 26JUL08A       | 26JUL08A        | 100       |                | - 6  |                  |      |      |      |
| 02L1CC0608  | Design (AIP) review by the SO                    | 2   | 60            | 66    | 23JUL08                 | 20SEP08          | 28JUL08A       | 16DEC08         | 47        | 750            | =    | <u>-</u> B.      |      |      |      |
| 02L1CC0610  | AIP submission for rel. authorities' approval    | 1   | 0             | 1     |                         | 20SEP08          | 25JUL08A       | 08AUG08A        | 100       |                |      |                  |      |      |      |
| 02L1CC0612  | Design (AIP) review by the rel. authorities      | 2   | 1             | 28    | 22SEP08                 | 22SEP08          | 26JUL08A       | 17NOV08         | 50        | 778            |      | <del>-</del> -ji |      |      |      |
| 02L1CC0614  | Obtain rel. authorities's approval for AIP       | 1   | 15            | 1     | 23SEP08                 | 07OCT08          | 18NOV08        | 18NOV08         | 0         | 630            |      | 11               |      |      |      |
| 02L1CC0616  | SO submit design (AIP) for approval of GEO       | 1   | 1             | 1     | 08OCT08                 | 08OCT08          | 18NOV08        | 18NOV08         | 0         | 609            |      | vir I            |      |      |      |
| 02L1CC0618  | Design (AIP) review/approval by the GEO          | 2   | 0             | 28    |                         | 09OCT08          | 19NOV08        | 16DEC08         | 0         | 750            |      | · II             |      |      |      |
| 02L1CC0620  | Obtain SO's consent for design (AIP)             | 2   | 30            | 0     | 17SEP08                 | 16OCT08          |                | 17DEC08         | 0         | 750            |      | •                |      |      |      |
| 02L1CC0622  | Design preparation for the DDA submission        | 2   | 15            | 30    | 17OCT08                 | 31OCT08          | 25NOV08        | 24DEC08         | 0         | 750            |      | or U             |      |      |      |

| ID  | Activity Description                             | Cal | Target<br>Dur | Orig | Target<br>Start | Target<br>Finish | Early<br>Start | Early<br>Finish                         | % Tot |          |     | 2009 | 2010   | 2011 | 2012 |
|---|--|-----|---------------|------|-----------------|------------------|----------------|---|-------|----------|-----|------|--------|------|------|
| 02L1CC0623  | Design (DDA) submission for the DC's approval    | 1   | 0             | _    | - CALLA         |                  | 27DEC08        | 27DEC08                                 | 0 6   |          | Т   |      |        |      |      |
| 02L1CC0624  | Design (DDA) certification by the Design Checker | 2   | 1             | 220  | 01NOV08         | 01NOV08          | 28DEC08        | 24JAN09                                 | 0 7   | - to     | 1 1 |      |        |      |      |
| 02L1CC0626  | Design (DDA) submission for the SO's approval    | 1   | 60            |      | 02NOV08         | 31DEC08          | 27DEC08        | 27DEC08                                 | 0 6   | 252      |     |      |        |      |      |
| 02L1CC0628  | Design (DDA) review by the SO                    | 2   | 0             | - 10 |                 | 31DEC08          | 28DEC08        | 03MAR09                                 | 0 7   | 1075     |     |      |        |      |      |
| 02L1CC0630  | DDA submission for rel. authorities' approval    | 1   | 1             | 1    | 02JAN09         | 02JAN09          | 03JAN09        | 03JAN09                                 | 0 6   |          |     |      |        |      |      |
| 02L1CC0632  | Design (DDA) review by the rel. authorities      | 2   | 28            | 28   | 03JAN09         | 30JAN09          | 04JAN09        | 31JAN09                                 | 0 7   |          |     |      |        |      |      |
| 02L1CC0634  | Obtain rel. authorities's approval for DDA       | 1   | 1             | 1    | 31JAN09         | 31JAN09          | 02FEB09        | 02FEB09                                 | 0 6   |          |     |      |        |      |      |
| 02L1CC0636  | SO submit design (DDA) for approval of GEO       | Ta  | 0             | 1    | 0.107.11.00     | 02FEB09          | 02FEB09        | 02FEB09                                 | 0 6   |          | Ι., |      | 1 1 18 |      |      |
| 02L1CC0638  | Design (DDA) review/approval by the GEO          | 2   | 0             |      |                 | VZI LDOO         | 03FEB09        | 02MAR09                                 | 0 74  | 700      |     | 1    |        |      |      |
|   | Obtain SO's consent for design (DDA)             | 2   | 0             | 0.00 |                 |                  | JOI LOUG       | 04MAR09                                 | 0 74  |          |     | •    |        |      |      |
|   | essment & Design for Stabili. Measure            |     |               |      |                 |                  |                | 0 11111111100                           |       |          |     | *    |        |      |      |
|   | Boulder Surevey                                  | 1   | 15            | 30   | 23FEB08         | 08MAR08          | 02 11 10/08 4  | 15AUG08A                                | 100   | D 100    |     |      |        |      |      |
|   | Prepare/submit boulder surevey report            | 1   | 15            |      | 09MAR08         | 23MAR08          | 14JUL08A       | 110020000000000000000000000000000000000 | 68 16 | 22       | 1   |      |        |      |      |
|   | SO review boulder survey report                  | 2   | 1             |      | 25MAR08         | 25MAR08          | 06SEP08        | 19SEP08                                 |       |          | L   |      |        |      |      |
|   |  | - 4 | 100           | 14   | ZJIVIARUO       | ZJIVIANUO        | 003EF00        | 1935700                                 | 0 20  | ,,       | -   |      |        |      |      |
| AND THE RESIDENCE OF THE PARTY | rainage Management Plan                          | 2   |               | 7.4  | _               |                  | 044110004      | 0005000                                 | 50 0  |          |     |      |        |      |      |
|   | TDMP preparation by the Designer                 | 2   | 0             |      |                 |                  | 04AUG08A       |   | 50 2  |          | ī 📗 |      |        |      |      |
|   | TDMP submission for the DC's approval            |     | 0             | 1    |                 |                  | 04SEP08        | 04SEP08                                 | 0 1   | 21       |     |      |        |      |      |
|   | TDMP certification by the Design Checker         | 2   | 0             | 28   |                 |                  | 05SEP08        | 02OCT08                                 | 0 2   | 100      | -   |      | 1 1 1  |      |      |
|   | TDMP submission for the SO's approval            | 1   | 0             | 1    |                 |                  | 04SEP08        | 04SEP08                                 | 0 1   |          |     |      |        |      |      |
| 02L1CC0808  | TDMP review by the SO                            | 2   | 0             | 90   |                 |                  | 05SEP08        | 03DEC08                                 | 0 2   |          |     |      |        |      |      |
|   | TDMP submission for DSD's approval               | 1   | 0             | 1    |                 |                  | 04SEP08        | 04SEP08                                 | 0 1   |          |     |      |        |      |      |
|   | TDMP review by the DSD                           | 2   | 0             | 90   |                 |                  | 05SEP08        | 03DEC08                                 | 0 2   |          |     |      |        |      |      |
|   | Obtain DSD's approval for DDA                    | 1   | 0             | 1    |                 |                  | 04DEC08        | 04DEC08                                 | 0 16  |          | 1   |      |        |      |      |
| Thursday and a second   | Obtain SO's consent for TDMP                     | 2   | 0             | 0    |                 |                  |                | 04DEC08                                 | 0 2   | 10       | •   |      |        |      |      |
|   | nanent Approach Channel Construction             |     |               |      |                 |                  |                |   |       |          |     |      |        |      |      |
|   | Design preparation by the Designer               | 2   | 0             | 15   |                 |                  | 03NOV08*       | 17NOV08                                 | 0 64  | 13       | П   |      |        |      |      |
| 02L1CC0903  | Design submission for the DC's approval          | 1   | 0             | 1    |                 |                  | 18NOV08        | 18NOV08                                 | 0 52  | 20       |     |      |        |      |      |
| 02L1CC0904  | Design certification by the Design Checker       | 2   | 0             | 28   |                 |                  | 19NOV08        | 311023113323-13217-2003                 | 0 64  | 13       | 12  |      |        |      |      |
| 02L1CC0906  | Design submission for the SO's approval          | 1   | 0             | 1    |                 |                  | 18NOV08        | 18NOV08                                 | 0 52  | 20       |     |      |        |      |      |
| 02L1CC0908  | Design review by the SO                          | 2   | 0             | 42   |                 |                  | 19NOV08        | 30DEC08                                 | 0 64  | 13       | (6) |      |        |      |      |
| 02L1CC0910  | Obtain design approval from the SO               | 2   | 0             | 0    |                 |                  |                | 30DEC08                                 | 0 64  | 13       |     |      |        |      |      |
| Geotechnica   | I Instrumentation Stg 1 for GL Works             |     |               |      |                 |                  |                |   |       |          |     |      |        |      |      |
| 3DL1CCG102  | Design preparation by the Designer               | 2   | 0             | 14   |                 |                  | 22FEB08A       | 29APR08A                                | 100   |          |     |      |        |      |      |
| 3DL1CCG104  | Design certification by the Design Checker       | 2   | 0             | 7    |                 |                  | 30APR08A       | 26MAY08A                                | 100   | <b>E</b> |     |      |        |      |      |
| 3DL1CCG106  | Design submission for the SO's approval          | 1   | 0             | 1    |                 |                  | 10MAY08A       | 26MAY08A                                | 100   |          |     |      |        |      |      |
|   | Design review by the SO                          | 2   | 0             | 14   |                 |                  | 12MAY08A       | 14JUL08A                                | 100   |          |     |      |        |      |      |
| 3DL1CCG110  | Obtain design approval from the SO               | 2   | 0             | 0    |                 |                  |                | 14JUL08A                                | 100   |          |     |      |        |      |      |
| 3DL1CCG112  | Install Geotechnical Instruments                 | 1   | 0             | 19   |                 |                  | 24JUN08A       | 09AUG08A                                | 100   |          |     |      |        |      |      |
| 3DL1CCG114  | Baseline Monitoring                              | 2   | 0             | 14   |                 |                  | 26JUL08A       | 16AUG08A                                | 100   |          |     |      |        |      |      |
| Geotechnica   | Instrumentation Stg 2 for Deep Exc.              |     |               |      |                 | -                |                |   |       |          |     |      |        |      |      |
|   | Design preparation by the Designer               | 2   | 0             | 60   |                 |                  | 28AUG08        | 26OCT08                                 | 0 25  | 66       |     |      |        |      |      |

| ID             | Activity Description                        | Cal | Target<br>Dur | Orig<br>Dur | Target<br>Start | Target<br>Finish | Early<br>Start | Early<br>Finish | %<br>Comp     | Total<br>Float | 2008 |          | 2009 | 2016  | 2011  | 2012 |
|----------------|---|-----|---------------|-------------|-----------------|------------------|----------------|-----------------|---------------|----------------|------|----------|------|-------|-------|------|
| 3DL1CCG204     | Design certification by the Design Checker  | 2   | 0             | 14          | - Clark         | ,                | 27OCT08        | 09NOV08         | I COLORADO DE | 256            |      |          |      |       |       | 1    |
|                | Design submission for the SO's approval     | 1   | 0             | 1           |                 |                  | 10NOV08        | 10NOV08         | 0             | 1000000        |      |          |      |       |       |      |
|                | Design review by the SO                     | 2   | 0             | 28          |                 |                  | 11NOV08        | 08DEC08         | 0             | 10.00          |      | III      |      |       |       |      |
|                | Obtain design approval from the SO          | 2   | 0             | 0           |                 | -                | MARKO SANGORA  | 08DEC08         | 0             | 200702         |      |          |      |       |       |      |
|                | Install Geotechnical Instruments            | 1   | 0             | 18          |                 |                  | 09DEC08        | 31DEC08         | 0             |                |      | E        |      |       |       |      |
|                | Baseline Monitoring                         | 2   | 0             |             |                 |                  | 01JAN09        | 14JAN09         | 0             | -              |      |          |      |       |       |      |
|                | Monitor/report Geotechnical Instrumentation | 2   | 0             | 1,566       |                 |                  | 18AUG08A       |                 | 1             |                |      |          |      |       |       |      |
| Design Pag     | kages for Works in Portion D                |     |               |             |                 |                  |                |                 |               |                |      |          |      |       |       |      |
|                | ss Rd Design at P. D; +14mPD to +69mPD      |     |               |             |                 |                  |                |                 |               |                |      |          |      |       |       |      |
| 02L1DD0102     | Design preparation by the Designer          | 2   | 14            | 14          | 17JAN08         | 30JAN08          | 17JAN08A       | 16APR08A        | 100           |                |      |          |      |       |       |      |
| 02L1DD0104     | Design certification by the Design Checker  | 2   | 14            | 150         | 01FEB08         | 14FEB08          | 17APR08A       | 13SEP08         | 89            |                | 0    |          |      |       |       |      |
| 02L1DD0106     | Design submission for the SO's approval     | 1   | 1             | 2           | 15FEB08         | 15FEB08          | 25APR08A       | 16SEP08         | 50            | -77            |      |          |      |       | 1     |      |
| 02L1DD0108     | Design review by the SO                     | 2   | 28            | 90          | 16FEB08         | 14MAR08          | 26APR08A       | 14OCT08         | 83            | -92            |      | 4        |      |       |       |      |
| 02L1DD0110     | Design review by GEO                        | 2   | 0             | 28          |                 | 14MAR08          | 17SEP08        | 14OCT08         | 0             | -92            | W.   | <u>=</u> |      |       |       |      |
| 02L1DD0112     | Obtain design approval from the SO          | 2   | 0             | 0           |                 |                  |                | 14OCT08         | 0             | -92            |      | •        |      |       |       |      |
| Boulder Ass    | essment & Design for Stabili. Measure       | -   |               |             | -               |                  |                |                 |               |                |      |          |      |       |       |      |
| 02L1DD0302     | Boulder Surevey                             | 1   | 15            | 14          | 31JAN08         | 14FEB08          | 03APR08A       | 11APR08A        | 100           |                | a i  |          |      |       |       |      |
| 02L1DD0304     | Prepare/submit boulder surevey report       | 1   | 14            | 25          | 15FEB08         | 28FEB08          | 12APR08A       | 26MAY08A        | 100           |                | •    |          |      |       | 1 1 1 |      |
| 02L1DD0306     | SO review boulder survey report             | 2   | 1             | 14          | 29FEB08         | 29FEB08          | 27MAY08A       | 16JUN08A        | 100           |                | a 🖁  |          |      |       |       |      |
| Site Formation | on Design; +69mPD to +40mPD                 |     |               |             |                 |                  |                |                 |               |                |      |          |      |       |       |      |
| 02L1DD0402     | Design preparation by the Designer          | 2   | 14            | 14          | 17JAN08         | 30JAN08          | 17JAN08A       | 16APR08A        | 100           |                |      |          |      |       | 1 1 1 |      |
| 02L1DD0404     | Design certification by the Design Checker  | 2   | 14            | 150         | 27JAN08         | 09FEB08          | 17APR08A       | 13SEP08         | 89            | -17            | u E  |          |      | 1 1 1 |       |      |
| 02L1DD0406     | Design submission for the SO's approval     | 1   | 1             | 2           | 11FEB08         | 11FEB08          | 25APR08A       | 16SEP08         | 50            | -15            | 11   |          |      |       |       |      |
| 02L1DD0408     | Design review by the SO                     | 2   | 14            | 90          | 12FEB08         | 25FEB08          | 26APR08A       | 14OCT08         | 83            | -19            | 0    | -        |      |       |       |      |
| 02L1DD0410     | Design review by GEO                        | 2   | 0             | 28          |                 | 25FEB08          | 17SEP08        | 14OCT08         | 0             | -19            | 1150 | <b>=</b> |      |       |       |      |
| 02L1DD0412     | Obtain design approval from the SO          | 2   | 1             | 0           | 26FEB08         | 26FEB08          |                | 14OCT08         | 0             | -19            |      | •        |      |       |       |      |
| Site Formation | on Design; +40mPD to +24mPD                 |     |               |             |                 |                  |                |                 |               |                |      |          |      |       |       |      |
| 02L1DD0502     | Design preparation by the Designer          | 2   | 14            | 14          | 15FEB08         | 28FEB08          | 14APR08A       | 03MAY08A        | 100           |                | # H  |          |      |       | 1 1   |      |
| 02L1DD0504     | Design certification by the Design Checker  | 2   | 14            | 145         | 29FEB08         | 13MAR08          | 05MAY08A       | 26SEP08         | 79            | -29            |      | •        |      |       | 1 1 1 |      |
| 02L1DD0506     | Design submission for the SO's approval     | 1   | 1             | 2           | 14MAR08         | 14MAR08          | 10MAY08A       | 26SEP08         | 50            | -24            | -    |          |      |       |       |      |
| 02L1DD0508     | Design review by the SO                     | 2   | 14            | 90          | 15MAR08         | 28MAR08          | 12MAY08A       | 24OCT08         | 77            | -29            |      | -        |      |       |       |      |
| 02L1DD0510     | Design review by GEO                        | 2   | 0             | 28          |                 | 28MAR08          | 27SEP08        | 24OCT08         | 0             | -29            | 100  | -        |      | †     |       |      |
| 02L1DD0512     | Obtain design approval from the SO          | 2   | 1             | 0           | 29MAR08         | 29MAR08          |                | 24OCT08         | 0             | -29            | 31   | •        |      |       |       |      |
| Site Formation | on Design; +24mPD to 14mPD                  |     |               |             |                 |                  |                |                 |               |                |      |          |      |       |       |      |
| 02L1DD0602     | Design preparation by the Designer          | 2   | 14            | 60          | 29FEB08         | 13MAR08          | 28AUG08        | 26OCT08         | 0             | -18            | 3    | =        |      |       |       | 1    |
| 02L1DD0603     | Design submission for the DC's approval     | 1   | 0             | 1           |                 |                  | 27OCT08        | 27OCT08         | 0             | -15            |      | 4        |      |       |       |      |
| 02L1DD0604     | Design certification by the Design Checker  | 2   | 14            | 28          | 14MAR08         | 27MAR08          | 28OCT08        | 24NOV08         | 0             | -18            | #    | =        |      |       |       |      |
| 02L1DD0606     | Design submission for the SO's approval     | 1   | 1             | 1           | 28MAR08         | 28MAR08          | 27OCT08        | 27OCT08         | 0             | -15            |      | 1        |      |       |       |      |
| 02L1DD0608     | Design review by the SO                     | 2   | 14            | 63          | 29MAR08         | 11APR08          | 28OCT08        | 29DEC08         | 0             | -18            | 2    | -        |      |       |       |      |
| 02L1DD0610     | Design review by GEO                        | 2   | 0             | 28          |                 | 11APR08          | 02DEC08        | 29DEC08         | 0             | -18            |      |          |      |       |       |      |

|                | Description   |      | The Party of the P | Orig | Target       | Target       | Early                    | Early                      | %    | Total  |        |          | 2009 | 2010 |        | 2012 |
|----------------|---|------|--|------|--------------|--------------|--------------------------|----------------------------|------|--------|--------|----------|------|------|--------|------|
|                | A DECEMBER OF THE PROPERTY OF | ID   | Dur  | Dur  | Start        | Finish       | Start                    | Finish                     | Comp |        |        |          |      |      |        |      |
| TBM Launchi    | Obtain design approval from the SO  | 2    | 1  | 0    | 12APR08      | 12APR08      |                          | 29DEC08                    | 0    | -18    |        |          |      |      |        |      |
|                | ng Chamber Design   |      | Allowed I  |      |              |              |                          |                            |      |        |        |          |      |      |        |      |
|                | Design (AIP) preparation by the Designer  | 2    | 15   | 60   | 14MAR08      | 28MAR08      | 21APR08A                 | 26JUL08A                   | 100  |        | 0      |          |      |      |        |      |
|                | Design (AIP) submission for the DC's approval   | 1    | 0  | 1    |              |              | 28JUL08A                 | 20AUG08A                   | 100  |        | E      |          |      |      |        |      |
|                | Design (AIP) certification by the Design Checker  | 2    | 15   | 37   | 29MAR08      | 12APR08      | 21AUG08A                 | 03OCT08                    | 0    | -77    | 101    | =        |      |      |        |      |
|                | Design (AIP) submission for the SO's approval   | 1    | 1  | 1    | 14APR08      | 14APR08      | 28JUL08A                 | 28JUL08A                   | 100  |        | 5 9    |          |      |      |        |      |
|                | Design (AIP) review by the SO   | 2    | 30   | 66   | 15APR08      | 14MAY08      | 29JUL08A                 | 08NOV08                    | 46   | -77    | - (    | =        | 3    |      |        |      |
| 02L1DD0710     | AIP submission for rel. authorities' approval   | 1    | 0  | 1    |              | 14MAY08      | 28AUG08                  | 28AUG08                    | 0    | -28    | •      |          |      |      |        |      |
| 02L1DD0712     | Design (AIP) review by the rel. authorities   | 2    | 1  | 28   | 15MAY08      | 15MAY08      | 13SEP08                  | 10OCT08                    | 0    | -47    | 1 1    | <b>H</b> |      |      |        |      |
| 02L1DD0714     | Obtain rel. authorities's approval for AIP  | 1    | 28   | 0    | 16MAY08      | 12JUN08      |                          | 10OCT08                    | 0    | -38    |        | •        |      |      |        |      |
| 02L1DD0716 :   | SO submit Design (AIP) for approval of GEO  | 1    | 1  | 1    | 13JUN08      | 13JUN08      | 11OCT08                  | 11OCT08                    | 0    | -63    | 1      | T        |      |      |        |      |
|                | Design (AIP) review/approval by the GEO   | 2    | 0  | 28   |              | 14JUN08      | 12OCT08                  | 08NOV08                    | 0    | -77    | •      | <b>B</b> |      |      |        |      |
| 02L1DD0720     | Obtain SO's consent for design (AIP)  | 2    | 30   | 0    | 23MAY08      | 21JUN08      |                          | 09NOV08                    | 0    | -77    |        | •        |      |      |        |      |
| 02L1DD0722     | Design preparation for the DDA submission   | 2    | 15   | 30   | 22JUN08      | 06JUL08      | 18OCT08                  | 16NOV08                    | 0    | -77    | п      |          |      |      |        |      |
| 02L1DD0723     | Design (DDA) submission for the DC's approval   | 1    | 0  | 1    |              |              | 17NOV08                  | 17NOV08                    | 0    | -61    |        | (1       |      |      |        |      |
| 02L1DD0724     | Design (DDA) certification by the Design Checker  | 2    | 1  | 28   | 07JUL08      | 07JUL08      | 18NOV08                  | 15DEC08                    | 0    | -75    | 0      | =        |      |      |        |      |
| 02L1DD0726     | Design (DDA) submission for the SO's approval   | 1    | 30   | 1    | 08JUL08      | 06AUG08      | 17NOV08                  | 17NOV08                    | 0    | -63    |        | 1        |      |      |        |      |
| 02L1DD0728     | Design (DDA) review by the SO   | 2    | 0  | 66   |              | 06AUG08      | 18NOV08                  | 22JAN09                    | 0    | -77    | 2.0    |          |      |      |        |      |
| 02L1DD0730     | DDA submission for rel. authorities' approval   | 1    | 1  | 1    | 07AUG08      | 07AUG08      | 24NOV08                  | 24NOV08                    | 0    | -39    |        | 1/4      |      |      |        |      |
| 02L1DD0732     | Design (DDA) review by the rel. authorities   | 2    | 28   | 28   | 08AUG08      | 04SEP08      | 25NOV08                  | 22DEC08                    | 0    | -46    |        |          |      |      |        |      |
| 02L1DD0734     | Obtain rel. authorities's approval for DDA  | 1    | 1  | 1    | 05SEP08      | 05SEP08      | 23DEC08                  | 23DEC08                    | 0    | -39    |        | 17       |      |      | J 1 11 |      |
| 02L1DD0736     | SO submit design (DDA) for approval of GEO  | 1    | 0  | 1    |              | 06SEP08      | 23DEC08                  | 23DEC08                    | 0    | -64    |        | 10       |      |      |        |      |
| 02L1DD0738     | Design (DDA) review/approval by the GEO   | 2    | 0  | 28   |              |              | 24DEC08                  | 20JAN09                    | 0    | -75    |        | =        |      |      |        |      |
| 02L1DD0740     | Obtain SO's consent for design (DDA)  | 2    | 0  | 0    |              |              |                          | 23JAN09                    | 0    |        |        |          |      |      |        |      |
| Hopper Desig   | n   |      |  |      |              |              |                          |                            |      |        |        |          |      |      |        |      |
| 02L1DD0802 [   | Design preparation by the Designer  | 2    | 15   | 14   | 28MAY08      | 11JUN08      | 13OCT08*                 | 26OCT08                    | 0    | 37     | 1,97.1 | 8        |      |      |        |      |
| 02L1DD0803     | Design submission for the DC's approval   | 1    | 0  | 1    |              |              | 27OCT08                  | 27OCT08                    | 0    |        |        | N. B     |      |      |        |      |
| 02L1DD0804     | Design certification by the Design Checker  | 2    | 15   | 28   | 12JUN08      | 26JUN08      | 28OCT08                  | 24NOV08                    | 0    |        | 9 (    | 10       |      |      |        |      |
| 02L1DD0806     | Design submission for the SO's approval   | 1    | 1  | 1    | 27JUN08      | 27JUN08      | 27OCT08                  | 27OCT08                    | 0    | 0.5507 |        |          |      |      |        |      |
| 02L1DD0808     | Design review by the SO   | 2    | 30   | 42   | 28JUN08      | 27JUL08      | 28OCT08                  | 08DEC08                    | 0    | 00000  | tol '  |          | 1 1  |      | 3      |      |
| 02L1DD0810     | Obtain design approval from the SO  | 2    | 0  | 0    | Indiana Amag | 27JUL08      | The second of the second | 08DEC08                    | 0    | 0.5341 |        |          |      |      |        |      |
| Steel Platform | Design  |      |  |      |              |              |                          | The International State of |      |        |        |          |      |      |        |      |
|                | Design preparation by the Designer  | 2    | 30   | 45   | 12JUN08      | 11JUL08      | 25AUG08A                 | 08OCT08                    | 7    | 41     | -      |          |      |      |        |      |
|                | Design submission for the DC's approval   | 1    | 0  | 1    |              |              | 09OCT08                  |                            | 0    |        |        |          |      |      |        |      |
|                | Design certification by the Design Checker  | 2    | 15   |      | 12JUL08      | 26JUL08      | 100CT08                  |                            | 0    | 55     | 101    |          |      |      |        |      |
|                | Design submission for the SO's approval   | 1    |  |      | 28JUL08      | 28JUL08      | 09OCT08                  |                            | 0    |        | -      |          |      |      |        |      |
|                | Design review by the SO   | 2    | 30   |      | 29JUL08      | 27AUG08      |                          | 20NOV08                    | 0    | 7.5    | -      |          | 1    |      |        |      |
|                | Obtain design approval from the SO  | 2    | 0  | 0    |              | 27AUG08      | 1000100                  | 20NOV08                    | 0    |        |        |          |      |      |        |      |
|                | ntry Support & Noise Enclosure Design   | - 50 | 31   | -    |              | 2.7,0000     |                          | 20140 400                  | U    | 55     |        |          |      |      |        |      |
|                | Design preparation by the Designer  | 2    | 30   | 14   | 28APR08      | 27MAY08      | 000CT09                  | 2200709                    | 0    | 41     | iz     | (3)      |      |      |        |      |
|                | Design submission for the DC's approval   | 1    | 0  | 1    | ZOMERUO      | 27 IVIA 1 U8 | 09OCT08<br>23OCT08       |                            | 0    | 100    | **     | 4        |      |      |        |      |

| ID         | Activity   | Cal | Target | Orig | Target           | Target                                | Early          | Early      | % Total    | 2008 |      | 2009 | 2010 | 2011  | 2012 |
|------------|--|-----|--------|------|------------------|---------------------------------------|----------------|------------|------------|------|------|------|------|-------|------|
|            | Description                                      | ID  | Dur    | Dur  | Start            | Finish                                | Start          | Finish     | Comp Float |      |      |      |      |       |      |
| 02L1DD1004 | Design certification by the Design Checker       | 2   | 15     | 28   | 28MAY08          | 11JUN08                               | 24OCT08        | 20NOV08    | 0 41       |      |      |      |      |       |      |
| 02L1DD1006 | Design submission for the SO's approval          | 1   | 1      | 1    | 12JUN08          | 12JUN08                               | 23OCT08        | 23OCT08    | 0 35       |      |      |      |      | 1     |      |
| 02L1DD1008 | Design review by the SO                          | 2   | 30     | 42   | 13JUN08          | 12JUL08                               | 24OCT08        | 04DEC08    | 0 41       | -    |      |      |      | 1 1   |      |
| 02L1DD1010 | Obtain design approval from the SO               | 2   | 0      | 0    |                  | 12JUL08                               |                | 04DEC08    | 0 41       |      | •    |      |      |       |      |
| ELS Design | for Spiral Ramp & Vehicular Access               |     |        |      |                  |                                       |                |            |            |      |      |      |      |       |      |
| 02L1DD1102 | Design preparation for the AIP submission        | 2   | 30     | 30   | 29MAR08          | 27APR08                               | 03NOV08*       | 02DEC08    | 0 175      | -    | 10   |      |      |       |      |
| 02L1DD1103 | Design (DDA) submission for the DC's approval    | 1   | 0      | 1    |                  |                                       | 03DEC08        | 03DEC08    | 0 152      |      |      |      |      |       |      |
| 02L1DD1104 | Design (DDA) certification by the Design Checker | 2   | 21     | 28   | 28APR08          | 18MAY08                               | 04DEC08        | 31DEC08    | 0 193      | *    | 臣    |      |      | 1 1 1 |      |
| 02L1DD1106 | Design (DDA) submission for the SO's approval    | 1   | 1      | 1    | 19MAY08          | 19MAY08                               | 03DEC08        | 03DEC08    | 0 151      |      | 1.1  |      |      |       |      |
| 02L1DD1108 | Design (DDA) review by the SO                    | 2   | 60     | 66   | 20MAY08          | 18JUL08                               | 04DEC08        | 07FEB09    | 0 191      | 1    |      |      |      |       |      |
| 02L1DD1110 | DDA submission for rel. authorities' approval    | 1   | 0      | 1    |                  | 18JUL08                               | 10DEC08        | 10DEC08    | 0 176      |      |      |      |      |       |      |
| 02L1DD1112 | Design (DDA) review by the ref. authorities      | 2   | - 1    | 28   | 19JUL08          | 19JUL08                               | 11DEC08        | 07JAN09    | 0 222      | 0    | ш    |      |      |       |      |
| 02L1DD1114 | Obtain rel. authorities's approval for DDA       | 1   | 21     | 1    | 20JUL08          | 09AUG08                               | 08JAN09        | 08JAN09    | 0 179      | =    | 1.0  |      |      |       |      |
| 02L1DD1116 | SO submit design (DDA) for approval of GEO       | 1   | 1      | 1    | 11AUG08          | 11AUG08                               | 08JAN09        | 08JAN09    | 0 154      |      | 1    |      |      |       |      |
| 02L1DD1118 | Design (DDA) review/approval by the GEO          | 2   | 0      | 28   |                  | 12AUG08                               | 09JAN09        | 05FEB09    | 0 193      |      | 10   |      |      |       |      |
| 02L1DD1120 | Obtain SO's consent for design (DDA)             | 2   | 30     | 0    | 21JUL08          | 19AUG08                               |                | 08FEB09    | 0 191      | =    |      | 2    |      |       |      |
| ELS Design | for Box Culvert & Open Channel                   |     |        |      |                  |                                       | -              |            |            |      |      |      |      |       |      |
| 02L1DD1202 | Design preparation for the AIP submission        | 2   | 30     | 30   | 12JUL08          | 10AUG08                               | 03DEC08        | 01JAN09    | 0 175      | -    |      |      |      |       |      |
| 02L1DD1203 | Design (DDA) submission for the DC's approval    | 1   | 0      | 1    | 3,50,50,50,50,50 | I I I I I I I I I I I I I I I I I I I | 02JAN09        | 02JAN09    | 0 141      |      |      |      |      |       |      |
| 02L1DD1204 | Design (DDA) certification by the Design Checker | 2   | 30     | 28   | 11AUG08          | 09SEP08                               | 03JAN09        | 30JAN09    | 0 177      |      | 9    |      |      |       |      |
| 02L1DD1206 | Design (DDA) submission for the SO's approval    | 1   | 1      | 1    | 10SEP08          | 10SEP08                               | 02JAN09        | 02JAN09    | 0 140      |      |      |      |      |       |      |
| 02L1DD1208 | Design (DDA) review by the SO                    | 2   | 60     | 66   | 11SEP08          | 09NOV08                               | 03JAN09        | 09MAR09    | 0 175      |      |      | 1    |      |       |      |
| 02L1DD1210 | DDA submission for rel. authorities' approval    | 1   | 0      | 1    |                  | 09NOV08                               | 09JAN09        | 09JAN09    | 0 165      |      | . C  |      |      |       |      |
| 02L1DD1212 | Design (DDA) review by the rel. authorities      | 2   | 1      | 28   | 10NOV08          | 10NOV08                               | 10JAN09        | 06FEB09    | 0 206      |      | 15   |      |      |       |      |
| 02L1DD1214 | Obtain rel. authorities's approval for DDA       | 1   | 28     | 1    | 11NOV08          | 08DEC08                               | 07FEB09        | 07FEB09    | 0 168      |      | - 1  |      |      |       |      |
| 02L1DD1216 | SO submit design (DDA) for approval of GEO       | 1   | 1      | 1    | 09DEC08          | 09DEC08                               | 07FEB09        | 07FEB09    | 0 143      |      | 3.1  |      |      |       |      |
| 02L1DD1218 | Design (DDA) review/approval by the GEO          | 2   | 0      | 28   |                  | 10DEC08                               | 08FEB09        | 07MAR09    | 0 177      |      | . 1  | i i  |      |       |      |
| 02L1DD1220 | Obtain SO's consent for design (DDA)             | 2   | 30     | 0    | 18NOV08          | 17DEC08                               | 200,000        | 10MAR09    | 0 175      |      |      |      |      |       |      |
|            | Prainage Management Plan                         |     |        |      |                  | Name and sections                     |                | West Water |            |      |      | 2    |      |       |      |
| 02L1DD1302 | TDMP preparation by the Designer                 | 2   | 0      | 14   |                  |                                       | 05MAY08A       | 02SEP08    | 57 223     |      |      |      |      |       |      |
| 02L1DD1303 | TDMP submission for the DC's approval            | 1   | 0      | 1    |                  |                                       | 03SEP08        | 03SEP08    | 0 178      |      |      |      |      |       |      |
| 02L1DD1304 | TDMP certification by the Design Checker         | 2   | 0      | 28   |                  |                                       | 04SEP08        | 01OCT08    | 0 223      |      | Si . |      |      |       |      |
| 02L1DD1306 | TDMP submission for the SO's approval            | 1   | 0      | 1    |                  |                                       | 03SEP08        | 03SEP08    | 0 184      |      |      |      |      |       |      |
|            | TDMP review by the SO                            | 2   | 0      | 90   |                  |                                       | 04SEP08        | 02DEC08    | 0 230      |      | -    |      |      |       |      |
|            | TDMP submission for DSD's approval               | 1   | 0      | 1    |                  | +                                     | 03SEP08        | 03SEP08    | 0 184      |      |      |      |      |       |      |
|            | TDMP review by the DSD                           | 2   | 0      | 90   |                  |                                       |                | 09DEC08    | 0 223      |      |      |      |      |       |      |
|            | Obtain DSD's approval for DDA                    | 1   | 0      | 1    |                  | -                                     | MATOCONA TENNA | 10DEC08    | 0 177      |      |      |      |      |       |      |
|            | Obtain SO's consent for TDMP                     | 2   | /40/   | 0    |                  |                                       | TODECOO        | 10DEC08    | 0 223      |      |      |      |      |       |      |
|            |  | - 4 |        | U    |                  |                                       | -              | 1002000    | 0 223      |      | - 1  |      |      |       | _    |
|            | I Instrumentation Stg 1 for GL Works             | 2   | 0      | 14   |                  |                                       | 22EED004       | 24APR08A   | 100        | =    |      |      |      |       |      |
|            | Design preparation by the Designer               | 2   |        | 14   |                  | -                                     |                |            |            |      |      |      |      |       |      |
| 3DL1DDG104 | Design certification by the Design Checker       | 2   | 0      | 7    |                  |                                       | 25APR08A       | 16JUN08A   | 100        | =    |      |      |      |       |      |

| ID                            | Activity Description   | Cal   | Target<br>Dur | Orig     | Target<br>Start                           | Target<br>Finish         | Early<br>Start                          | Early<br>Finish                         | %<br>Comp | Total    | 2008        |    | 2009 | 2010   | 2011 | 2012 |
|-------------------------------|--|-------|---------------|----------|---|--------------------------|---|---|-----------|----------|-------------|----|------|--------|------|------|
| 3DI 1DDG106                   | Design submission for the SO's approval  | 1     | 0             | 1        | Ottale                                    | 1 iiiisii                | 25APR08A                                |   | 100       |          |             |    |      |        |      |      |
|                               | Design review by the SO  | 2     | 0             | 14       |   | -                        | 26APR08A                                | and the second second                   | 100       | _        |             |    |      |        |      |      |
|                               | Obtain design approval from the SO   | 2     | 0             | 0        |   |                          | 20711 110071                            | 14JUL08A                                | 100       | _        |             |    |      |        |      |      |
|                               | Install Geotechnical Instruments   | 1     | 0             | 10       |   |                          | 04JUN08A                                |   | 100       | _        |             |    |      |        |      |      |
| 3DL1DDG114                    |  | 2     | 0             |          |   |                          | 18JUN08A                                |   | 100       | _        | <u> </u>    |    |      |        |      |      |
|                               | I Instrumentation Stg 2 for Deep Exc.  | 1 57/ |               |          |   |                          | 1000.100/1                              | 00000001                                | 100       |          |             |    |      |        |      |      |
|                               | Design preparation by the Designer   | 2     | 0             | 14       |   |                          | 17NOV08*                                | 30NOV08                                 | 0         | -88      |             | 12 |      | 4   1  |      |      |
|                               | Design certification by the Design Checker   | 2     | 0             | 14       |   | +                        | 01DEC08                                 | 14DEC08                                 | 0         |          |             |    |      |        |      |      |
|                               | Design submission for the SO's approval  | 1     | 0             | 1        |   |                          | 01DEC08                                 | 01DEC08                                 | 0         |          |             |    |      |        |      |      |
|                               | Design review by the SO  | 2     | 0             | 28       |   |                          | 02DEC08                                 | 29DEC08                                 | 0         |          |             |    |      |        |      |      |
|                               | Obtain design approval from the SO   | 2     | 0             | 0        |   |                          |   | 29DEC08                                 | 0         | 100      |             |    |      |        |      |      |
|                               | Install Geotechnical Instruments   | 1     | 0             | 18       |   |                          | 30DEC08                                 | 20JAN09                                 | 0         |          |             |    |      |        |      |      |
|                               | Baseline Monitoring  | 2     | 0             | 14       |   | +                        | 21JAN09                                 | 03FEB09                                 | 0         | 110,55,4 |             |    |      |        |      |      |
|                               | Monitor/report Geotechnical Insturmentatation  | 2     | 553           | 1,605    |   |                          | E5000000 000000000000000000000000000000 | 30NOV12                                 | 3         | 2000     |             |    |      |        |      |      |
|                               | kages for Works in Portion F   |       |               | AM TOTAL |   |                          | 1                                       |   |           |          |             |    |      |        |      |      |
|                               | The state of the s | _     | -             |          |   |                          |   | _                                       | _         | _        |             |    |      | 1 1 1: |      |      |
| Main Tunnel<br>02L1FF0102     | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | -     | 20            | 30       | 0055500                                   | 08MAR08                  | 00550004                                | 20400004                                | 400       |          |             |    |      |        |      |      |
| 02L1FF0102<br>02L1FF0103      | Design preparation for the AIP submission  | 2     | 30            | 1        | 08FEB08                                   | USWARUS                  | 08FEB08A                                |   | 100       | -        |             |    |      |        |      |      |
| 02L1FF0103                    | Design (AIP) submission for the DC's approval  | -     | 0             | 1000     | 00144000                                  | 22844 000                | 02MAY08A                                | Secretary and the second                | 100       |          | . =         |    |      |        |      |      |
| 02L1FF0104                    | Design (AIR) certification by the Design Checker   | 1     | 15            | 28       | 09MAR08                                   | 23MAR08<br>25MAR08       | 03MAY08A                                |   | 100       |          |             |    |      |        |      |      |
| 02L1FF0108                    | Design (AIP) submission for the SO's approval  |       |               | 66       | 25MAR08                                   |                          | 10JUL08A                                | 000 00000000000000000000000000000000000 | 100       |          |             |    |      | X 1 1  |      |      |
| 02L1FF0108                    | Design (AIP) review by the SO  | 1     | 60            | 1        | 26MAR08                                   | 24MAY08                  | 11JUL08A                                | 15OCT08                                 | 26        | 12233    |             |    |      |        |      |      |
| 02L1FF0110                    | AIP submission for rel. authorities' approval  | 2     | 0             | 28       | 26MAY08                                   | 24MAY08<br>26MAY08       | Deservices                              | 08JUL08A                                | 100       |          | -           |    |      |        |      |      |
| 02L1FF0112                    | Design (AIP) review by the rel. authorities  | - 4   | 1             | 1        | 6 x25500000000000000000000000000000000000 | Care a truck of the Care | 09JUL08A                                | 05SEP08                                 | 68        |          |             |    |      |        |      |      |
| 02L1FF0114                    | Obtain rel. authorities's approval for AIP<br>SO submit design (AIP) for approval of GEO   | - 1   | 28            | 1        | 27MAY08<br>24JUN08                        | 23JUN08                  | 06SEP08<br>28AUG08                      | 06SEP08<br>28AUG08                      | 0         |          | _           |    |      |        |      |      |
| 02L1FF0118                    | Design (AIP) review/approval by the GEO  | 2     | 0             | 28       | 24301100                                  | 24JUN08<br>25JUN08       | 29AUG08                                 | 25SEP08                                 | 0         |          | 27.0        |    |      |        |      |      |
| 02L1FF0118                    |  | 2     | 30            | 0        | 03JUN08                                   | 02JUL08                  | 29AUG08                                 | 10000000000000000000000000000000000000  | 0         |          |             |    |      |        |      |      |
| 02L1FF0120                    | Obtain SO's consent for design (AIP)  Design preparation for the DDA submission  | 2     | 15            | 30       | 03JUL08                                   | 17JUL08                  | 24SEP08                                 | 16OCT08<br>23OCT08                      | 0         |          | 1.0         |    |      |        |      | 1 4  |
| 02L1FF0122                    | Design (DDA) submission for the DC's approval  | 1     | 0             | 1        | USJULUO                                   | 1730106                  | 240CT08                                 | 24OCT08                                 | 0         | 7700     | 180         |    |      | 1   1  |      |      |
| 02L1FF0123                    | Design (DDA) submission for the BC's approval  | 2     | 1             | 28       | 18JUL08                                   | 18JUL08                  |   | 21NOV08                                 | 0         |          | - 4         |    |      | 1 1 1  |      |      |
| 02L1FF0124                    | Design (DDA) certification by the Design Checker  Design (DDA) submission for the SO's approval  | 1     | 60            | 1        | 19JUL08                                   | 16SEP08                  | 24OCT08                                 | 24OCT08                                 | 0         | - 53534  |             | Ţ  | 1 1  |        |      |      |
| 02L1FF0128                    | Design (DDA) submission for the SO's approval  Design (DDA) review by the SO   | 2     | 0             | 66       | 193000                                    | 16SEP08                  | 25OCT08                                 | 29DEC08                                 | 0         |          |             |    |      |        |      |      |
| 02L1FF0130                    | DDA submission for rel, authorities' approval  | 1     | 1             | 1        | 17SEP08                                   | 17SEP08                  | 31OCT08                                 | 31OCT08                                 | 0         | 1.0000   |             |    |      |        |      |      |
| 02L1FF0130                    | Design (DDA) review by the rel. authorities  | 2     | 28            | 28       | 18SEP08                                   | 15OCT08                  | 01NOV08                                 | 28NOV08                                 | 0         | 1,550    |             |    |      |        |      |      |
| 02L1FF0132                    | Obtain rel. authorities's approval for DDA   | 1     | 1             | 1        | 16OCT08                                   | 16OCT08                  | 29NOV08                                 | 29NOV08                                 | 0         | -        |             | 1  |      |        |      |      |
| 02L1FF0134                    | SO submit design (DDA) for approval of GEO   | 4     | 0             | 1        | 1000100                                   | 17OCT08                  | 29NOV08                                 | 29NOV08                                 | 0         |          | 8           |    |      |        |      |      |
| 02L1FF0138                    | Design (DDA) review/approval by the GEO  | 2     | 0             | 28       | -   | 1700100                  | 30NOV08                                 | 27DEC08                                 | 0         | -200     |             |    |      |        |      |      |
| 2L1FF0130                     | Obtain SO's consent for design (DDA)   | 2     | 0             | 0        |   |                          | SUNOVUO                                 | 30DEC08                                 | 0         |          |             |    |      |        |      |      |
|                               | ssment on WSD Yau Kam Tau WTW  | - 2   | J             |          |   |                          |   | 3000000                                 | Ü         | -20      |             | T  |      |        |      |      |
| STATUTE STATE OF THE STATE OF | Design preparation for the DDA submission  | 2     | 30            | 60       | 09MAR08                                   | 07APR08                  | 29APR08A                                | 30 11 18100 4                           | 100       |          | o <u>==</u> |    |      |        |      |      |

| ID         | Activity Description  | Cal | Target<br>Dur | Orig<br>Dur | Target<br>Start | Target<br>Finish    | Early<br>Start   | Early<br>Finish                         | %<br>Comp | Total<br>Float | 2008       | TITE     | 2009         | 2010             | 2011             | 2012 |
|------------|---|-----|---------------|-------------|-----------------|---------------------|--|---|-----------|----------------|------------|----------|--------------|------------------|------------------|------|
| 02L1FF0203 | Design (DDA) submission for the DC's approval   | 1   | 0             | 1           | Statt           | FIIIISII            | o sometiments accounts   | 03JUL08A                                | 100       |                |            |          |              |                  |                  |      |
| 02L1FF0204 | Design (DDA) certification by the Design Checker  | 2   | 15            | 30          | 08APR08         | 22APR08             |  | 07SEP08                                 | 63        |                | a (=       | to be    | endorsed by  | All Reservior    | Panel Engineer   |      |
| 02L1FF0206 | Design (DDA) submission for the SO's approval   | 1   | 1             | 1           | 23APR08         | 23APR08             | Constitution of the Consti | 15JUL08A                                | 100       |                | 3.9        |          | sildorsed by | Zan i Cesei viol | r and Engineer   |      |
| 02L1FF0208 | Design (DDA) review by the SO   | 2   | 45            | 66          | 24APR08         | 07JUN08             |  | 14OCT08                                 | 55        |                | -          |          | i i          |                  |                  |      |
| 02L1FF0210 | DDA submission for rel. authorities' approval   | 1   | 0             | 1           | 24/31 1300      | 07JUN08             |  | 10JUL08A                                | 100       | 100000         |            |          |              |                  |                  |      |
| 02L1FF0212 | Design (DDA) review by the rel. authorities   | 2   | 1             | 28          | 10JUN08         | 10JUN08             | 11JUL08A   | 100000000000000000000000000000000000000 | 0.0000    | 266            |            |          |              |                  |                  |      |
| 02L1FF0214 | Obtain rel. authorities's approval for DDA  | 1   | 28            | 1           | 11JUN08         | 08JUL08             | 16SEP08  | 16SEP08                                 | 0         | 1 15,000,000   | (=         |          |              |                  |                  |      |
| 02L1FF0214 | SO submit design (DDA) for approval of GEO  | 1   | 1             | 1           | 09JUL08         | 09JUL08             | 16SEP08  | 16SEP08                                 | 0         |                |            |          |              |                  |                  |      |
| 2L1FF0218  | Design (DDA) review/approval by the GEO   | 2   | 0             | 28          | USSULUU         | 10JUL08             | 17SEP08  | 140CT08                                 | 0         |                |            |          |              |                  |                  |      |
| 2L1FF0210  | Obtain SO's consent for design (DDA)  | -#  | 30            | 0           | 18JUN08         | 17JUL08             | 1752700  | 15OCT08                                 |           | 236            | -          |          |              |                  | J                |      |
|            | THE RESIDENCE OF THE PROPERTY | 2   | 30            | U           | 10301100        | 1730200             |  | 1300100                                 | 0         | 230            | _          | <b>Y</b> | -            |                  |                  | -    |
|            | essment on WSD Tai Lam Chung WT No. 3   | 0   | 20            | 20          | 0000000         | 001447000           | 444000004  | 27.11.15.00 *                           | 400       |                |            |          |              |                  |                  |      |
| 02L1FF0302 | Design preparation for the DDA submission   | 2   | 30            | 32          | 08FEB08         | 08MAR08             |  | 27JUN08A                                | 100       | -              |            |          |              |                  |                  |      |
| 02L1FF0303 | Design submission for the DC's approval   | 1   | 0             | -           | 00114000        | 22144 000           | ESOUS CARGOS AND A   | 27JUN08A                                | AVIOR     |                | _          |          |              | All Danas da     | - D1 F           |      |
| 2L1FF0304  | Design (DDA) certification by the Design Checker  | 2   | 15            | 90          | 09MAR08         | 23MAR08             |  | 25SEP08                                 | 68        | .55575         | , in .     | to be    | endorsed by  | All Reservio     | r Panel Engineer |      |
| 2L1FF0306  | Design (DDA) submission for the SO's approval   | 1   |               | 1           | 25MAR08         | 25MAR08             |  | 15JUL08A                                | 100       | _              |            |          |              |                  | 1                |      |
| 2L1FF0308  | Design (DDA) review by the SO   | 2   | 50            | 66          | 26MAR08         | 14MAY08             | The Association of the Control of th | 31OCT08                                 | 55        |                |            |          |              |                  |                  |      |
| 2L1FF0310  | DDA submission for rel. authorities' approval   | 1   | 0             | 1           | 4.51441400      | 14MAY08             |  | 10JUL08A                                | 100       | 800            | 3 \<br>    | te:      |              |                  |                  |      |
| 2L1FF0312  | Design (DDA) review by the rel. authorities   | 2   | 1             | 28          | 15MAY08         | 15MAY08             |  | 02OCT08                                 | 61        |                | _          |          |              |                  |                  |      |
| 2L1FF0314  | Obtain rel. authorities's approval for DDA  | 1   | 28            | - 1         | 16MAY08         | 12JUN08             | 03OCT08  | 03OCT08                                 | 0         |                | S .        |          |              | 1 1              |                  |      |
| 2L1FF0316  | SO submit design (DDA) for approval of GEO  | 1   |               | 1           | 13JUN08         | 13JUN08             | 03OCT08  | 03OCT08                                 | 0         |                | ^          |          |              |                  |                  |      |
| )2L1FF0318 | Design (DDA) review/approval by the GEO   | 2   | 0             | 28          |                 | 14JUN08             | 04OCT08  | 31OCT08                                 | 0         | 500            |            |          |              | 1 - 1            |                  |      |
| 2L1FF0320  | Obtain SO's consent for design (DDA)  | 2   | 30            | 0           | 23MAY08         | 21JUN08             |  | 01NOV08                                 | 0         | 32             | - (;       | 7        |              |                  |                  |      |
|            | essment on KCRC West Rail Tunnel  |     |               |             |                 | The suppose suppose | Aboreous out a second  | Lessons and a second                    | T         |                |            |          |              |                  |                  |      |
| 2L1FF0402  | Design preparation for the DDA submission   | 2   | 30            | 30          | 08APR08         | 07MAY08             | No. of the contract of the con | 26JUN08A                                | 100       |                | -          |          |              |                  |                  |      |
| 2L1FF0403  | Design submission for the DC's approval   | 1   | 0             | 1           |                 | esta contra contra  |  | 26JUN08A                                | 100       |                |            |          |              |                  |                  |      |
| 2L1FF0404  | Design (DDA) certification by the Design Checker  | 2   | 15            | 90          | 08MAY08         | 22MAY08             | 27JUN08A   | 24SEP08                                 | 69        | 352            | 1          |          |              |                  |                  |      |
| 2L1FF0406  | Design (DDA) submission for the SO's approval   | 1   | 1             | 1           | 23MAY08         | 23MAY08             | 15JUL08A   | 15JUL08A                                | 100       |                | 8          |          |              |                  | 1 1 11           |      |
| 2L1FF0408  | Design (DDA) review by the SO   | 2   | 60            | 66          | 24MAY08         | 22JUL08             | 16JUL08A   | 29OCT08                                 | 50        | 353            | -          | -        |              |                  |                  |      |
| 2L1FF0410  | DDA submission for rel. authorities' approval   | 1   | 0             | 1           |                 | 22JUL08             | 14JUL08A   | 14JUL08A                                | 100       |                | E          |          |              |                  |                  |      |
| 2L1FF0412  | Design (DDA) review by the rel. authorities   | 2   | 1             | 28          | 23JUL08         | 23JUL08             | 15JUL08A   | 31JUL08A                                | 100       |                |            |          |              |                  |                  |      |
| 2L1FF0414  | Obtain rel. authorities's approval for DDA  | 1   | 28            | 1           | 24JUL08         | 20AUG08             | 01AUG08A   | 01AUG08A                                | 100       |                | ÷          |          |              |                  |                  |      |
| 2L1FF0416  | SO submit design (DDA) for approval of GEO  | 1   | 1             | 1           | 21AUG08         | 21AUG08             | 02OCT08  | 02OCT08                                 |           | 287            |            | M. A     |              |                  |                  |      |
| 2L1FF0418  | Design (DDA) review/approval by the GEO   | 2   | 0             | 28          |                 | 22AUG08             | 03OCT08  | 30OCT08                                 | 0         |                | 1          | -        |              |                  |                  |      |
| 2L1FF0420  | Obtain SO's consent for design (DDA)  | 2   | 30            | 0           | 31JUL08         | 29AUG08             |  | 31OCT08                                 | 0         | 352            |            | •        |              |                  |                  |      |
| mpact Asse | essment on WSD Tsuen Wan Reservoir G.   |     |               |             |                 |                     |  |   |           |                |            |          |              |                  |                  |      |
| 2L1FF0502  | Design preparation for the DDA submission   | 2   | 30            | 30          | 08MAY08         | 06JUN08             | 05MAY08A   | 02JUL08A                                | 100       |                | <b>SEE</b> |          |              |                  |                  |      |
| 2L1FF0503  | Design submission for the DC's approval   | 1   | 0             | 1           |                 |                     | 03JUL08A   | 03JUL08A                                | 100       |                | Ĭ          |          |              |                  |                  |      |
| 2L1FF0504  | Design (DDA) certification by the Design Checker  | 2   | 15            | 90          | 07JUN08         | 21JUN08             | 04JUL08A   | 01OCT08                                 | 61        | 440            | 47         | to be    | endorsed by  | All Reservior    | Panel Engineer   |      |
| 2L1FF0506  | Design (DDA) submission for the SO's approval   | 1   | 1             | 1           | 23JUN08         | 23JUN08             | 15JUL08A   | 15JUL08A                                | 100       |                | Œ          |          |              |                  |                  |      |
| 2L1FF0508  | Design (DDA) review by the SO   | 2   | 60            | 60          | 24JUN08         | 22AUG08             | 16JUL08A   | 06NOV08                                 | 10        | 440            | -          |          |              |                  |                  |      |
| 2L1FF0510  | DDA submission for rel. authorities' approval   | 1   | 0             | 1           |                 | 22AUG08             | 10JUL08A   | 10JUL08A                                | 100       |                | 119        |          |              |                  |                  |      |

| ID                                   | Activity Description   | Cal | Target<br>Dur | Orig<br>Dur | Target<br>Start | Target<br>Finish | Early<br>Start                          | Early<br>Finish      | % Total<br>Comp Float | 2008 | 2009  | 2010   | 2011 | 2012 |
|--------------------------------------|--|-----|---------------|-------------|-----------------|------------------|---|----------------------|-----------------------|------|-------|--------|------|------|
| 02L1FF0512                           | Design (DDA) review by the rel. authorities  | 2   | 1             | 28          | 23AUG08         | 23AUG08          | 11JUL08A                                |                      | 50 1,542              | =    |       |        |      |      |
| 02L1FF0514                           | Obtain rel. authorities's approval for DDA   | 1   | 28            | 1           | 24AUG08         | 20SEP08          | 09OCT08                                 | 09OCT08              | 0 1,252               | -1   |       |        |      |      |
| 02L1FF0516                           | SO submit design (DDA) for approval of GEO   | 1   | 1             | 1           | 22SEP08         | 22SEP08          | 09OCT08                                 | 09OCT08              | 0 360                 | νĬ   |       |        |      |      |
| 02L1FF0518                           | Design (DDA) review/approval by the GEO  | 2   | 0             | 28          | 140002 02       | 23SEP08          | 10OCT08                                 | 06NOV08              | 0 440                 | •11  |       |        |      |      |
| 02L1FF0520                           | Obtain SO's consent for design (DDA)   | 2   | 30            | 0           | 01SEP08         | 30SEP08          |   | 07NOV08              | 0 440                 | =4   |       |        |      |      |
| Grout Trial a                        | at Foult Zone F1   |     |               |             |                 |                  |   |                      | 18/1 710,000          |      |       |        |      |      |
| 02L1FF0602                           | MS preparation for the DDA submission  | 2   | 0             | 12          |                 |                  | 02MAY08A                                | 20MAY08A             | 100                   | 25   |       |        |      |      |
| 02L1FF0606                           | Ms (DDA) submission for the SO's approval  | 1   | 0             | 1           |                 |                  | 21MAY08A                                | -90-770-00100-00-000 | 100                   | 1    |       |        |      |      |
| 02L1FF0608                           | MS (DDA) review by the SO  | 2   | 0             | 24          |                 |                  | 22MAY08A                                |                      | 100                   |      | ):    |        |      |      |
| 02L1FF0620                           | Obtain SO's consent for MS (DDA)   | 2   | 0             | 0           |                 |                  |   | 17JUL08A             | 100                   |      |       |        |      |      |
| Geotechniud                          | cal Instrumentation  |     | 1 871         |             |                 |                  |   | 1 0000 2000 2000     |                       | 567  |       |        |      |      |
| 3DL1FFGI02                           | Design preparation by the Designer   | 2   | 0             | 60          |                 |                  | 28AUG08                                 | 26OCT08              | 0 -19                 | _    |       |        |      |      |
| 3DL1FFGI04                           | Design certification by the Design Checker   | 2   | 0             |             |                 | 1                | 27OCT08                                 | 09NOV08              | 0 -19                 |      |       |        |      |      |
| 3DL1FFGI06                           | Design submission for the SO's approval  | 1   | 0             | 1           |                 |                  | 10NOV08                                 | 10NOV08              | 0 -15                 |      |       |        |      |      |
| 3DL1FFGI08                           | Design review by the SO  | 2   | 0             | 56          |                 |                  | 11NOV08                                 | 05JAN09              | 0 -18                 |      |       |        |      |      |
| 3DL1FFGI10                           | DDA submission for rel. authorities' approval  | 1   | 0             | 1           |                 |                  | 10NOV08                                 | 10NOV08              | 0 -16                 |      |       |        |      |      |
| 3DL1FFGI12                           | Design (DDA) review by the rel. authorities  | 2   | 0             | 56          |                 |                  | 11NOV08                                 | 05JAN09              | 0 -19                 |      |       |        |      |      |
| 3DL1FFGI14                           | Obtain rel. authorities's approval for DDA   | 1   | 0             | 1           |                 |                  | 06JAN09                                 | 06JAN09              | 0 -13                 |      | i     |        |      |      |
| 3DL1FFGI16                           | Obtain design approval from the SO   | 2   | 0             | 0           |                 |                  | 7555,000                                | 06JAN09              | 0 -19                 |      | •     |        |      |      |
| 3DL1FFGI18                           | Install geotechnical instrumentsation  | 1   | 0             | 90          |                 |                  | 07JAN09                                 | 29APR09              | 0 -13                 |      |       |        |      |      |
| 3DL1FFGI20                           | Baseline Monitoring  | 2   | 0             | 14          |                 | -                | 30APR09                                 | 13MAY09              | 0 -15                 |      |       |        |      |      |
| 3DL1FT0208                           | Maintain/monitor geotechnical instrumentation  | 2   | 1,104         | 1,297       | 01NOV08         | 26JUL12          | 14MAY09                                 | Interview Allegan    | 0 0                   |      |       |        |      | _    |
| Design Pag                           | ckages for Works in Portion G  | 777 |               | 11 200      |                 |                  |   |                      |                       |      |       |        |      |      |
| and the same of the same of the same | pact Assessment  | _   |               |             |                 |                  |   |                      |                       |      |       |        |      |      |
|                                      | Design preparation for the AIP submission  | 2   | 30            | 30          | 15AUG08         | 13SEP08          | 03NOV08*                                | 02DEC08              | 0 381                 | Į.   |       |        |      |      |
| 02L1GG0103                           | The state of the s | 1   | 0             | 1           | 10/10/00        | TOOLITOO         | 03DEC08                                 | 03DEC08              | 0 312                 |      |       |        |      |      |
| 02L1GG0104                           | Design (AIP) certification by the Design Checker   | 2   | 15            | 28          | 14SEP08         | 28SEP08          | 04DEC08                                 | 31DEC08              | 0 384                 | _    |       |        |      |      |
| 02L1GG0106                           | Design (AIP) submission for the SO's approval  | 1   | 1             | 1           | 29SEP08         | 29SEP08          | 03DEC08                                 | 03DEC08              | 0 310                 |      | 1     |        |      |      |
| 02L1GG0108                           | Design (AIP) review by the SO  | 2   | 60            | 58          | 30SEP08         | 28NOV08          | 04DEC08                                 | 30JAN09              | 0 382                 |      |       |        |      |      |
| 02L1GG0110                           |  | 1   | 0             | 1           |                 | 28NOV08          | 10DEC08                                 | 10DEC08              | 0 323                 |      |       | 11 1 1 |      |      |
| 02L1GG0112                           |  | 2   | 1             | 28          | 29NOV08         | 29NOV08          | 11DEC08                                 | 07JAN09              | 0 400                 |      |       |        |      |      |
| 02L1GG0114                           | Obtain rel. authorities's approval for AIP   | 1   | 15            | 1           | 30NOV08         | 14DEC08          | 08JAN09                                 | 08JAN09              | 0 326                 |      | 4 1   |        |      |      |
| 02L1GG0116                           | Obtain SO's consent for design (AIP)   | 2   | 1             | 0           | 15DEC08         | 15DEC08          | *************************************** | 31JAN09              | 0 382                 |      |       |        |      |      |
| 02L1GG0118                           | Design preparation for the DDA submission  | 2   | 0             | 30          |                 | 16DEC08          | 09JAN09                                 | 07FEB09              | 0 382                 |      | • Til |        |      |      |
| 02L1GG0119                           | Design (DDA) submission for the DC's approval  | 1   | 0             | 1           |                 | . 30 000         | 09FEB09                                 | 09FEB09              | 0 312                 |      | 1     |        |      |      |
| 02L1GG0120                           | Design (DDA) certification by the Design Checker   | 2   | 30            | 28          | 24NOV08         | 23DEC08          | 10FEB09                                 | 09MAR09              | 0 383                 |      | a 10  |        |      |      |
| 02L1GG0122                           | Design (DDA) submission for the SO's approval  | 1   | 15            | 1           | 24DEC08         | 07JAN09          | 09FEB09                                 | 09FEB09              | 0 310                 |      | -1    |        |      |      |
| 02L1GG0124                           | Design (DDA) review by the SO  | 2   | 1             | 58          | 08JAN09         | 08JAN09          | 10FEB09                                 | 08APR09              | 0 310                 |      |       |        |      |      |
| 02L1GG0126                           | DDA submission for rel. authorities' approval  | 1   | 60            | 1           | 09JAN09         | 09MAR09          | 16FEB09                                 | 16FEB09              | 0 1,124               |      |       |        |      |      |
| UZLIGGUIZE                           |  |     | ~~            | 1150        |                 | 20111111100      | 2000                                    | 101                  | V 1,127               |      | 0.4   |        |      |      |

| ID                        | Activity Description  | Cal | Target<br>Dur | Orig<br>Dur | Target<br>Start   | Target<br>Finish | Early<br>Start | Early<br>Finish    | % Total<br>Comp Float | 2008 2009 2010 2011   | 2012 |
|---------------------------|---|-----|---------------|-------------|-------------------|------------------|----------------|--------------------|-----------------------|---|------|
| 21.1GG0130                | Obtain rel. authorities's approval for DDA  | 1   | 1             | 1           | 10MAR09           | 10MAR09          | 17MAR09        | 17MAR09            | 0 1,122               |   |      |
| and the second second     | Obtain SO's consent for design (DDA)  | 2   | 28            | 0           | 11MAR09           | 07APR09          |                | 09APR09            | 0 381                 | •   |      |
|                           | orm Design for H-Piling at Portion G  | -   |               |             | 11111111111111111 | 077117100        |                | 00/11/100          | 0 00.                 |   | _    |
|                           |   | 2   | 30            | 30          | 14SEP08           | 13OCT08          | 03DEC08        | 01JAN09            | 0 454                 |   |      |
| 2L1GG0202                 | Design (DDA) submission for the DC's approval   | 1   | 0             | 1           | 14021 00          | 1000100          | 02JAN09        | 02JAN09            | 0 369                 |   |      |
| 2L1GG0203                 | Design (DDA) submission for the DC's approval   | 2   | 15            | 28          | 14OCT08           | 28OCT08          | 03JAN09        | 30JAN09            | 0 458                 |   |      |
| 2L1GG0204                 | Design (DDA) submission for the SO's approval   | 1   | 1             | 1           | 29OCT08           | 29OCT08          | 02JAN09        | 02JAN09            | 0 369                 |   |      |
| 2L1GG0208                 | Design (DDA) review by the SO   | 2   | 28            | 58          | 30OCT08           | 26NOV08          | 03JAN09        | 01MAR09            | 0 456                 |   |      |
| 2L1GG0210                 |   | 1   | 0             | 1           | 5000100           | 26NOV08          | 09JAN09        | 09JAN09            | 0 1,153               |   |      |
| 2L1GG0210                 |   | 2   | 0             | 28          |                   | 20110100         | 10JAN09        | 06FEB09            | 0 1,421               |   |      |
| 2L1GG0212                 |   | 1   | 0             | 1           |                   | +                | 07FEB09        | 07FEB09            | 0 1,154               |   |      |
| Section 1995 Section 1995 | Obtain design (DDA) approval from the SO  | 2   | 0             | 0           | -                 | 24JAN09          | 011 2500       | 02MAR09            | 0 456                 |   |      |
|                           |   |     |               |             |                   | 240/11400        | -              | OZIVIA (OS         | 0 430                 |   | -    |
| 2L1GG0302                 | for Pipe Jacking at Portion G  Design preparation for the DDA submission                        | 2   | 15            | 15          | 14OCT08           | 28OCT08          | 02JAN09        | 16JAN09            | 0 644                 |   |      |
| 2L1GG0302                 | Design (DDA) submission for the DC's approval   | 1   | 0             | 1           | 1400100           | 2000100          | 17JAN09        | 17JAN09            | 0 523                 |   |      |
| 2L1GG0303                 | Design (DDA) submission of the BC's approval  | 2   | 15            | 28          | 29OCT08           | 12NOV08          | 18JAN09        | 14FEB09            | 0 647                 | i i   |      |
| 2L1GG0304                 | Design (DDA) certification by the Design Checker  Design (DDA) submission for the SO's approval | 1   | 1             | 1           | 13NOV08           | 13NOV08          | 17JAN09        | 17JAN09            | 0 521                 |   |      |
| 2L1GG0308                 | Design (DDA) submission to the SO's approval  Design (DDA) review by the SO                     | 2   | 28            | 58          | 14NOV08           | 11DEC08          | 18JAN09        | 16MAR09            | 0 645                 |   |      |
| 2L1GG0308                 | DDA submission for rel. authorities' approval   | 1   | 0             | 1           | 1410000           | 11DEC08          | 24JAN09        | 24JAN09            | 0 1,140               |   |      |
| 2L1GG0310                 |   | 2   | 0             | 28          | -                 | TIDECOO          | 25JAN09        | 245AN09<br>21FEB09 | 0 1,140               |   |      |
|                           |   | 1   | 0             | 1           | -                 | -                | 23FEB09        | 23FEB09            | 0 1,400               |   |      |
|                           | Obtain rel. authorities's approval for DDA  | 2   | 0             | 0           | -                 |                  | Zarebus        | 17MAR09            | 0 645                 |   |      |
|                           | Obtain design (DDA) approval from the SO  | 2   | U             | .0.         |                   |                  |                | TAMAROS            | 0 645                 | ——————————————————————————————————————  | -    |
| esign Pac                 | ckages for Works in Portion J   |     | -             |             |                   |                  | نسنج           |                    |                       |   |      |
| eotechniud                | cal Instrumentation   |     |               |             |                   |                  |                |                    |                       |   |      |
| DL1JJGI02                 | Design preparation by the Designer  | 2   | 0             |             |                   |                  | 21APR08A       |                    |                       |   |      |
| DL1JJGI04                 | Design (DDA) certification by the Design Checker  | 2   | 0             | 103         |                   |                  | 26JUN08A       | 06OCT08            | 33 22                 | to be endorsed by All Reservior Panel Engineer  |      |
| L1JJGI06                  | Design (DDA) submission for the SO's approval   | 1   | 0             | 1           |                   |                  | 15JUL08A       | 15JUL08A           | 100                   |   |      |
| L1JJGI08                  | Design (DDA) review by the SO   | 2   | 0             | 70          |                   |                  | 16JUL08A       | 10NOV08            | 50 22                 | =   |      |
| DL1JJGI10                 | DDA submission for rel. authorities' approval   | 1   | 0             | 1           |                   |                  | 10JUL08A       | 10JUL08A           | 100                   |   |      |
| DL1JJGI12                 | Design (DDA) review by the rel. authorities   | 2   | 0             | 28          |                   |                  | 11JUL08A       | 03NOV08            | 0 29                  | <del></del>   |      |
| DL1JJGI14                 | Obtain rel. authorities's approval for DDA  | 1   | 0             | 1           |                   |                  | 04NOV08        | 04NOV08            | 0 25                  |   |      |
| DL1JJGI16                 | Obtain design approval from the SO  | 2   | 0             | 0           |                   |                  |                | 11NOV08            | 0 22                  |   |      |
| SD Tunnel                 | No. 3- Method for Strengtheing Works  |     |               |             |                   |                  |                |                    |                       |   |      |
| L1JJMS01                  | Receive VO-031 for revised construction details   | 1   | 0             | 0           |                   |                  |                | 19SEP08*           | 0 -35                 |   |      |
| L1JJMS02                  | Method statement submission   | 2   | 0             | 28          |                   |                  | 20SEP08        | 17OCT08            | 0 -42                 |   |      |
| 2L1JJMS03                 | M. S. submission for the DC's approval  | 1   | 0             | 1           |                   |                  | 18OCT08        | 18OCT08            | 0 -33                 |   |      |
| L1JJMS04                  | M. S. certification by the Design Checker   | 2   | 0             | 28          |                   |                  | 19OCT08        | 15NOV08            | 0 -41                 | to be endorsed by All Reservior Panel Engineer  et al. (1997)  et al. (1997) | į.   |
| L1JJMS06                  | M.S. submission for the SO's approval   | 1   | 0             | 1.          |                   |                  | 17NOV08        | 17NOV08            | 0 -35                 |   |      |
| 2L1JJMS08                 | M. S. review by the SO  | 2   | 0             | 28          |                   |                  | 18NOV08        | 15DEC08            | 0 -42                 |   |      |
| 2L1JJMS10                 | M.S. submission for rel. authorities' approval  | 1   | 0             | 1           |                   |                  | 16DEC08        | 16DEC08            | 0 -36                 |   |      |

| ID            | Activity   |    | -        | The second second | Target | Target  | Early  | Early                              |        | Total           | 200      | 9      | 2009        | 2010   | 2011          | 201 |
|---------------|--|----|----------|-------------------|--------|---------|--|------------------------------------|--------|-----------------|----------|--------|-------------|--|---------------|-----|
| 2014 1 114642 | Description  M.S. review by the rel. authorities   | ID | Dur      | Dur               | Start  | Finish  | Start  | Finish                             | Comp   | THE RECEIPED IN |          |        |             |  |               |     |
|               | Rel. authorities's approval for M.S.   | 1  | 0        | 28                |        |         | 17DEC08  | 13JAN09                            | 0      | 222             |          |        |             |  |               |     |
|               | Obtain M.S. approval from the SO   | 2  | 0        | - 5               |        | -       | 14JAN09  | 14JAN09                            | 0      | 29/26           |          |        |             |  |               |     |
|               | I SEED THE CROSS OF THE CONTROL OF T |    | U        | U                 |        |         |  | 14JAN09                            | 0      | -42             |          |        | <u> </u>    |  |               |     |
| cheane c      | of Milestones for Cost Centre No. 2L   |    | -        |                   |        |         |  |                                    |        |                 |          |        |             |  |               |     |
| 2L10D1002     | 2L 1; On submission of PDP to the SO   | 2  | 0        | 0                 |        | 10JAN08 |  | 10JAN08A                           | 100    | -               | >        |        |             |  |               |     |
| 2L10D1004     | 2L 2; On acception of PDP by the SO  | 2  | 0        | 0                 |        | 06MAR08 |  | 04SEP08                            | 0      | 1,578           | *        | •      |             |  |               |     |
| 2L10D1006     | 2L 3; On submission of AIP to the SO; Portion A  | 2  | 0        | 0                 |        | 22APR08 |  | 15OCT08                            | 0      | 1,537           | •        |        |             |  |               |     |
| 2L10D1008     | 2L 4; On acceptance of AIP by the SO; Portion A  | 2  | 0        | 0                 |        | 21JUN08 |  | 11OCT08                            | 0      | 1,541           |          |        |             |  |               |     |
| 2L10D1010     | 2L 5; On subumission of DDA to the SO; Portion A   | 2  | 0        | 0                 |        | 15AUG08 |  | 20OCT08                            | 0      | 1,532           |          |        |             |  |               |     |
| 2L10D1012     | 2L 6; On acceptance of DDA by the SO; Portion A  | 2  | 0        | 0                 |        | 14OCT08 |  | 26DEC08                            | 0      | 1,465           |          |        |             |  |               |     |
| 2L10D1014     | 2L 7; On submission of AIP to the SO; Portion B  | 2  | 0        | 0                 |        | 04AUG08 |  | 15OCT08                            | 0      | 1,537           |          |        |             |  |               |     |
| 2L10D1016     | 2L 8; On acceptance of AIP by the SO; Portion B  | 2  | 0        | 0                 |        | 03OCT08 |  | 04DEC08                            | 0      | 1,487           |          | . 💠    |             |  |               |     |
| 2L10D1018     | 2L 9; On submission of DDA to the SO; Portion B  | 2  | 0        | 0                 |        | 13NOV08 |  | 12DEC08                            | 0      | 1,479           |          |        |             |  |               |     |
| 2L10D1020     | 2L 10; On acceptance of DDA by the SO; Portion B   | 2  | 0        | 0                 |        | 12JAN09 |  | 17FEB09                            | 0      | 1,412           |          |        | •           |  |               |     |
| 2L10D1022     | 2L 11; On submission of AIP to the SO; Portion C   | 2  | 0        | 0                 |        | 22JUL08 |  | 26OCT08                            | 0      | 1,526           | *        | •      |             |  |               |     |
| L10D1024      | 2L 12; On acceptance of AIP by the SO; Portion C   | 2  | 0        | 0                 |        | 20SEP08 |  | 26DEC08                            | 0      | 1,465           |          |        |             |  |               |     |
| L10D1026      | 2L 13; On submission of DDA to the SO; Portion C   | 2  | 0        | 0                 |        | 01NOV08 |  | 03JAN09                            | 0      | 1,457           |          | - 🔷    |             |  |               |     |
| 2L10D1028     | 2L 14; On acceptance of DDA by the SO; Portion C   | 2  | 0        | 0                 |        | 31DEC08 |  | 10MAR09                            | 0      | 1,391           |          | +      | •           |  |               |     |
| 2L10D1030     | 2L 15; On acceptance of AIP by the SO; Portion D   | 2  | 0        | 0                 |        | 09NOV08 |  | 09NOV08                            | 0      | 1,512           |          | •      |             |  |               |     |
| 2L10D1032     | 2L 16; On acceptance of DDA by the SO; Portion D   | 2  | 0        | 0                 |        | 18MAR09 |  | 23JAN09                            | 0      | 1,437           |          | 4      | •           |  |               |     |
| 2L10D1034     | 2L 17; On submission of AIP to the SO; Portion F   | 2  | 0        | 0                 |        | 25MAR08 |  | 10JUL08A                           | 100    |                 |          |        |             |  |               |     |
| 2L10D1036     | 2L 18; On acceptance of AIP by the SO; Portion F   | 2  | 0        | 0                 |        | 24MAY08 |  | 16OCT08                            | 0      | 1,536           |          | •      |             |  |               |     |
| 2L10D1038     | 2L 19; On submission of DDA to the SO; Portion F   | 2  | 0        | 0                 |        | 18JUL08 |  | 24OCT08                            | 0      | 1,528           | •        |        |             |  |               |     |
| 2L10D1040     | 2L 20; On acceptance of DDA by the SO; Portion F   | 2  | 0        | 0                 |        | 16SEP08 |  | 29NOV08                            | 0      | 1,492           |          | •      |             |  |               |     |
| 2L10D1042     | 2L 21; On acceptance of AIP by the SO; Portion G   | 2  | 0        | 0                 |        | 11DEC08 |  | 31JAN09                            | 0      | 1,429           |          |        |             |  | 1 1 1         |     |
| L10D1044      | 2L 22; On acceptance of DDA by the SO; Portion G   | 2  | 0        | 0                 |        | 07FEB09 |  | 09APR09                            | 0      | 1,361           |          |        | •           | 1 1  |               |     |
| 2L10D1046     | 2L 23; On completion of all works under this CC  | 2  | 0        | 0                 |        | 18MAR09 |  | 09APR09                            | 0      | 1,361           |          |        | •           |  |               |     |
| nstructi      | ion of Main Tunnel   |    | 1_       |                   |        |         |  |                                    |        |                 |          |        |             |  |               |     |
| ial Grout     | at Fault Zone F1   |    | <u> </u> |                   |        |         |  |                                    |        |                 |          |        |             |  |               |     |
| AL1FT0002     | HyD issue XP   | 2  | 0        | 0                 |        |         |  | 23JUL08A                           | 100    |                 | 4        |        |             |  |               |     |
| AL1FT0004     | Adavance notice to HyD/Road advice   | 1  | 0        | 6                 |        | -       | 24JUL08A   | ESTRESS STATES                     | 100    |                 | 8        |        |             |  |               |     |
| AL1FT0006     | Trial pit excavation   | 1  | 0        | 4                 |        |         | 31JUL08A   | CROSSES OF ORDER                   | 100    |                 | -        |        |             |  |               |     |
| AL1FT0010     | Scaffolding, mobilize & set up   | 1  | 0        | 7                 |        |         | 05AUG08A   | NET INVOCATION AND                 | 100    |                 |          | or the | design of p | re-excavation g  | routing at F1 |     |
| AL1FT0012     | Drill & test for 2m Arrangement Test   | 1  | 0        | 45                |        |         | 14AUG08A   | - Transport Decrees - Constitution | 31,775 | 116             |          |        |             | CONTRACTOR OF THE CONTRACTOR O |               |     |
| L1FT0014      | Backfill drilled holes, demobilization & Tidy up   | 1  | 0        | 6                 |        |         | 201000000000000000000000000000000000000  | 23OCT08                            |        | 116             |          | 1      |             |  |               |     |
| AL1FT0016     | Drill & test for single hole arrangement test  | 1  | 0        | 17                |        |         | The same of the sa | 04SEP08                            | 59     |                 |          | 8      |             |  |               |     |
| L1FT0018      | Backfill drilled hole, demobilization & tidy up  | 1  | 0        | 1                 |        |         | 05SEP08  | 05SEP08                            | -      |                 | ing at E | ER BO  | 7 27 73(5)  | within 6 month   | s of DOC      |     |

| ID   | Activity Description                            | Cal      | Target<br>Dur | Orig<br>Dur | Target<br>Start | Target<br>Finish        | Early<br>Start                          | Early<br>Finish                         | %<br>Comp | Total<br>Float | 2008      |                  | 2009                  | 2010             | 2011              | 2012         |
|--|---|----------|---------------|-------------|-----------------|-------------------------|---|---|-----------|----------------|-----------|------------------|-----------------------|------------------|-------------------|--------------|
| TBM Manuf  | facture/Testing/Delivery                        |          |               |             |                 |                         |   |   |           |                |           |                  |                       |                  |                   |              |
| TBM & Back-  |   |          |               |             |                 |                         |   |   |           |                |           |                  |                       |                  |                   |              |
| The state of the s | TBM & Excavation Sys Procurement                | 2        | 30            | 30          | 14DEC07         | 12JAN08                 | 14DEC07A                                | 12JAN08A                                | 100       |                | i i       |                  |                       |                  |                   |              |
| 3AL1FT0304   | TBM design & manufacturing                      | 2        | 252           | 252         | 21DEC07         | 28AUG08                 | 21DEC07A                                | 28SEP08                                 | 87        | 95             |           | to I             |                       |                  |                   |              |
| 3AL1FT0306   | TBM workshop tests                              | 2        | 7             | 7           | 29AUG08         | 04SEP08                 | 29SEP08                                 | 05OCT08                                 | 0         | 95             |           | 1                |                       |                  |                   |              |
| 3AL1FT0308   | TBM dismounting & packing                       | 2        | 21            | 21          | 05SEP08         | 25SEP08                 | 06OCT08                                 | 26OCT08                                 | 0         | 95             |           | <b>-</b> 0       |                       |                  |                   |              |
|  | TBM shipment to Hong Kong                       | 2        | 45            | 45          | 26SEP08         | 09NOV08                 | 31MAY09                                 | 14JUL09                                 | 0         | -121           |           |                  | =zero fr              | ee float constr  | aint              |              |
| Conveyor Be  | It System                                       |          |               |             | -               |                         |   |   |           |                |           |                  |                       |                  |                   |              |
| The second second  | Procure sub-contract for conveyor belt sys.     | 2        | 0             | 0           |                 |                         |   | 13SEP08*                                | 0         | 42             |           | •                |                       |                  |                   |              |
| BAL1FTCB06   | Design/procurement/manufacture of CBS           | 2        | 0             | 200         |                 |                         | 14SEP08                                 | 01APR09                                 | 0         | 42             |           |                  |                       |                  |                   |              |
| BAL1FTCB16   | CBS delivey to Hong Kong                        | 1        | 0             | 30          |                 |                         | 05SEP09                                 | 12OCT09                                 | 0         | -96            |           |                  | <b>≡</b> zer          | o free float co  | nstraint          |              |
| 3AL1FTCB26   | Assembly & commissioning of CBS                 | 1        | 0             | 40          |                 |                         | 13OCT09                                 | 28NOV09                                 | 0         | -96            |           |                  | <u></u>               | ero free float o | constraint        |              |
| and the same of  | e Pre-cast Lining/Delivery                      |          |               |             |                 |                         |   |   | "         |                |           |                  |                       |                  |                   |              |
|  | 0.10000.2000.9                                  | _        |               |             |                 |                         |   |   |           |                |           |                  |                       |                  |                   |              |
| 3AL1FT0401   | Procure sub-contract for segment mould          | 1        | 0             | 0           |                 |                         |   | 21JUL08A                                | 100       |                |           |                  |                       |                  |                   |              |
|  | Procure sub-contract for segment lining         | 1        | 0             | 0           | ·               | 03MAR08                 | 1                                       | 26SEP08                                 | 0         | _              |           | •                |                       |                  |                   |              |
|  | Approval of Segmental Lining Design (AIP)       | 1        | 0             | 0           |                 | 08MAR08                 |   | 16OCT08                                 | 0         | -              |           | •                |                       |                  |                   |              |
| 3AL1FT0404   | Design of segment mould                         | 2        | 60            | 60          | 09MAR08         | 07MAY08                 | 16JUN08A                                | 16AUG08A                                |           |                | -=        |                  |                       |                  |                   |              |
| 3AL1FT0406   | Manufacture & delivery of segment moulds        | 2        | 180           | 135         | 08MAY08         | 03NOV08                 | 17OCT08                                 | 28FEB09                                 | 0         | 983            |           | -                |                       |                  |                   |              |
|  | Prepare/submit QA Sys & Fabrication MS          | 2        | 60            | 30          | 08MAY08         | 06JUL08                 | 17OCT08                                 | 15NOV08                                 | 0         |                | -         |                  |                       |                  |                   |              |
|  | SO approve QA system & Fabrication MS           | 1        | 28            | 28          | 07JUL08         | 07AUG08                 | 17NOV08                                 | 18DEC08                                 | 0         | -11            |           | <b>#</b>         |                       |                  |                   |              |
|  | Approval of Tunnel Linig Design                 | 2        | 0             | 0           | DAY CONTRACTOR  | 17OCT08                 | 100000000000000000000000000000000000000 | 30DEC08                                 | 0         | -25            |           | . 🔷              |                       |                  |                   |              |
|  | Manufactur of segments                          | 1        | 320           | 400         | 04NOV08         | 01DEC09                 | 02MAR09                                 | 09JUL10                                 | 0         | -67            |           |                  | -                     | 50 pie           | ces (10 rings) p  | er day; 2 po |
|  | Delivery of Segments                            | 1        | 320           | 400         | 09DEC08         | 08JAN10                 | 23JUN09                                 | 26OCT10                                 | 0         | -67            |           | 12               |                       |                  |                   |              |
| Name and Address of the Owner, where   | ing Works at Exist. WSD Tai Lam Tunn            | el       |               |             |                 |                         |   |   |           |                |           |                  |                       |                  |                   |              |
| actiguion  | ing trotto at Exicultive tar East to in         | <u> </u> |               |             |                 |                         |   |   |           |                |           |                  |                       |                  |                   |              |
| 10AR1JT051   | Approval of Method of Construction by SO/WSD    | 2        | 0             | 0           |                 |                         |   | 14JAN09                                 | 0         | -42            |           |                  |                       |                  |                   |              |
|  | Obtain WSD's agreement for Tunnel Shutdown Date | 2        | 0             | 0           | -               | 26SEP08                 |   | 14JAN09                                 | 0         |                | Clause 4  | 2:10             | 2 months in a         | advance of tur   | nnel shutdown o   | late         |
|  | Tunnel Shutdown Commences                       | 1        | 0             | 0           |                 | 01OCT08                 | 16MAR09                                 |   | 0         | -36            |           |                  | Possessio             | n of Portion J   | assumes as 1 l    | Dec 08       |
| 10AR1JT054   | Preparatory works; temp. ventilation & lighting | 1        | 0             | 18          | 01DEC08*        |                         | 16MAR09                                 | 06APR09                                 | 0         | -36            |           |                  | ER 4.4.5. (           | 3) all works w   | ithin 80 days     |              |
| Canada de Mestera o  | Verify method statement                         | 1        | 3             | 6           | 01DEC08         | 03DEC08                 | 07APR09                                 | 16APR09                                 | 0         | -36            |           | 1                | i de la constante     |                  | 10. 25. ES. C. C. |              |
|  | Carry out strengthening works                   | 1        | 58            | 58          | 04DEC08         | 16FEB09                 | 17APR09                                 | 26JUN09                                 | 0         | -36            |           | 1000             | 2.24                  |                  |                   |              |
|  | Site clearance & demobilization                 | 1        | 2             | 12          | 17FEB09         | 18FEB09                 | 27JUN09                                 | 11JUL09                                 | 0         | -36            |           |                  | <u>e</u>              |                  |                   |              |
|  | WSD Tunnel starts operation                     | 1        | 0             | 0           | 19FEB09         | This provides a program | 13JUL09                                 | 111111111111111111111111111111111111111 | 0         |                |           |                  | ♦to be                | completed by     | May               |              |
|  | al Instrumetation at WSD Tunnel                 |          |               |             | اللالا          |                         |   |   |           |                |           |                  |                       |                  |                   |              |
|  |   |          |               |             |                 |                         |   |   |           |                |           |                  |                       |                  |                   |              |
| BAL1FT0602   | Approval of Geotechnical Instrumentation Design | 2        | 0             | 0           |                 | 26SEP08                 |   | 11NOV08                                 | 0         | 107            |           | • � for          | all submittal         | S                |                   |              |
| 3AL1FT0604   | Procure/delivery/caliber of instrumentations    | 2        | 90            | 90          | 27SEP08         | 15JAN09                 | 12NOV08                                 | 09FEB09                                 | 0         | 107 t          | rumentati | or <sub>is</sub> | minimum vib           | ration, deform   | ation & water in  | flow         |
| 3AL1FT0612   | Obtain WSD's agreement for Tunnel Shutdown date | 2        | 0             | 0           |                 | 22FEB09                 |   | 01OCT09*                                | 0         | -127           | As per El | Clause           | e 4.2.10 <b>♦</b> 2 r | months in adv    | ance of shutdov   | vn date      |
|  | WSD Tunnel shutdown for instrumentation works   | 4        | 0             | 0           | 24APR09         |                         | 01DEC09                                 |   |           | -106           |           |                  |                       |                  |                   |              |

| ID                       | Activity  | Cal   | Target |      | 2 Table 64/3/1 | Target                | Early                                   | Early    | %    | Total | 2008 2009 2010 2011 2012  |
|--------------------------|---|-------|--------|------|----------------|-----------------------|---|----------|------|-------|---|
|                          | Description                                     | ID    | Dur    | Dur  | Start          | Finish                | Start                                   | Finish   | Comp | Float |   |
| 3AL1FT0616               | Preparatory works; temp. ventilation & lighting | 1     | 3      | 18   | 24APR09        | 26APR09               | 01DEC09                                 | 21DEC09  |      | -106  |   |
| 3AL1FT0618               | Verify method statement                         | 1     | 3      | 6    | 24APR09        | 26APR09               | 22DEC09                                 | 30DEC09  | (    | -106  |   |
| 3AL1FT0620               | Joint survey & install geo. instrumentations    | 1     | 45*    | 18   | 27APR09        | 10JUN09               | 31DEC09                                 | 21JAN10  | (    | -106  |   |
| 3AL1FT0622               | Baseline monitoring                             | 1     | 2      | 6    | 11JUN09        | 12JUN09               | 22JAN10                                 | 28JAN10  | (    | -106  |   |
| 3AL1FT0624               | Monitoring of geotechnical insturmentation      | 1     | 0      | 20   | 13JUN09        |                       | 29JAN10                                 | 24FEB10  | (    | -106  | CH4460-4250 Concurrent with TBM advances; WSD                       |
| 3AL1FT0626               | Subsequent Inspection/ repair damages (if any)  | -1    | 0      | 6    |                |                       | 25FEB10                                 | 03MAR10  | (    | 0     |   |
| 3AL1FT0628               | Site clearance & demobilization                 | 1     | 0      | 12   |                |                       | 04MAR10                                 | 17MAR10  | 0    | 0     | 8   |
| 3AL1FT0630               | WSD Tunnel starts operation                     | 1     | 0      | 0    |                |                       | 18MAR10                                 |          | 0    | 0     |   |
| TBM Asser                | mbly & Initial Driving; Day Time Work           |       |        |      |                |                       |   |          |      |       |   |
| 3AL1FT0702               | TBM initial assembly & start-up test            | 1     | 25     | 26   | 1000000        | 0000000               | 45 11 11 00                             | 10111000 |      |       |   |
| 3AL1FT0702               | TBM mobilization to tunnel face (CH5085)        | 118.1 | 25     | 25   | 10NOV08        | 08DEC08               | 15JUL09                                 | 12AUG09  |      | -96   |   |
| 3AL1FT0704               |   | 1     | 2      | 2    | 09DEC08        | 10DEC08               | 13AUG09                                 | 14AUG09  | -    | -96   |   |
|                          | Install back-up system (3 decks + 3 platforms)  | 1     | 7      | 7    | 11DEC08        | 18DEC08               | 15AUG09                                 | 22AUG09  | _    | -96   |   |
| 3AL1FT0708<br>3AL1FT0710 | TBM advances; CH5084-5075                       | 1     | 2      |      | 19DEC08        | 20DEC08               | 24AUG09                                 | 25AUG09  |      | -96   |   |
|                          | TBM advances; P7 CH5075-5033                    | 1     | 11     | 11   | 22DEC08        | 06JAN09               | 26AUG09                                 | 07SEP09  |      | -96   | Fault P7; CH5075-5033   |
| 3AL1FT0712               | Install back-up system (6 decks)                | 1     | 10     | 10   | 07JAN09        | 17JAN09               | 08SEP09                                 | 18SEP09  | -    | -96   |   |
| 3AL1FT0714               | TBM advances; P7 CH5033-5005                    | 1     | 7      | 7    | 19JAN09        | 29JAN09               | 19SEP09                                 | 26SEP09  |      | -96   | Fault P7; CH5033-5005   |
| 3AL1FT0716               | Install back-up system (1 decks)                | 1     | 1      | 1    | 30JAN09        | 30JAN09               | 28SEP09                                 | 28SEP09  | (    |       |   |
| 3AL1FT0718               | TBM advances; CH 5005-5000                      | 1     | 1      | 1    | 31JAN09        | 31JAN09               | 29SEP09                                 | 29SEP09  | C    |       |   |
| 3AL1FT0719               | TBM advances; WSDYKWTW/F6c CH5000-4963          | 1     | 9      | 9    | 02FEB09        | 11FEB09               | 30SEP09                                 | 12OCT09  | C    | -96   | CH5000-4963#WSD Yau Kom Water Treatment Works & Fa                  |
| 3AL1FT0720               | Install conveyor belt system                    | 1     | 10     | 40   | 12FEB09        | 23FEB09               | 13OCT09                                 | 28NOV09  | C    | -96   |   |
| 3AL1FT0722               | Install noise enclosure                         | 1     | 20     | 40   | 12FEB09        | 06MAR09               | 13OCT09                                 | 28NOV09  | C    | -96   |   |
| Main Tunn                | el Works; Day & Night Work                      |       | 1      |      |                |                       |   | -        | FE   |       |   |
| 3AL1FT0802               | Apply to EPD for CNP for 24 hrs. tunnel work    | 1     | 14     | 12   | 23OCT08        | 05NOV08               | 27AUG09                                 | 09SEP09  |      | -96   |   |
| 3AL1FT0804               | EPD process/approve CNP application             | 1     | 45     | 36   | 06NOV08        | 20DEC08               | 10SEP09                                 | 23OCT09  | 0    |       |   |
| 3AL1FT0806               | TBM advances; WSD YKTWTW/F6c CH4963-4830        | 1     | 16     | 12   | 07MAR09        | 25MAR09               | 30NOV09                                 | 12DEC09  | 0    |       |   |
| 3AL1FT0808               | TBM advances; CH4830-4760                       | 1     | 3      |      | 26MAR09        | 28MAR09               | 14DEC09                                 | 19DEC09  | C    | 2000  |   |
| 3AL1FT0810               | TBM advances; F6b CH4760-4740                   | 1     | 3      | 2    | 30MAR09        | 01APR09               | 21DEC09                                 | 22DEC09  | C    |       |   |
| 3AL1FT0812               | TBM advances; CH4740-4560                       | 1     | 9      | 12   | 02APR09        | 16APR09               | 23DEC09                                 | 08JAN10  | 0    |       |   |
| 3AL1FT0814               | TBM advances; F6a CH4560-4510                   | 1     | 6      | 4    | 17APR09        | 23APR09               | 09JAN10                                 | 13JAN10  | 0    |       | IF6a ch4555-4510⊨45m  |
| 3AL1FT0816               | TBM advances; CH4510-4460                       | 1     | 2      | 3    | 24APR09        | 25APR09               | 14JAN10                                 | 16JAN10  | 0    |       | 1 02 014333-4310-43111  |
| 3AL1FT0818               | TBM advances; WSD T3/P6 CH4460-4250             | 1     | 36     | 20   | 27APR09        | 10JUN09               | 29JAN10                                 | 24FEB10  |      |       | ed limit to half of normal speed criteria 2 but as per ER.B27.73(6) |
|                          | TBM advances; P6 CH4250-4220                    | 1     | 4      | 2    | 11JUN09        | 15JUN09               | 25FEB10                                 | 26FEB10  |      | -106  | so with to train of normal speed witheria 2 but as per ER.627.73(6) |
|                          | TBM advances; CH4220-3940                       | 1     | 18     | - 50 | 16JUN09        | 07JUL09               | 100000000000000000000000000000000000000 | 15MAR10  |      | -106  | Westeries 4   |
| 3AL1FT0824               | TBM advances; CH3940-3560                       | 1     | 3      | 24   | 08JUL09        | 10JUL09               | 16MAR10                                 | 16APR10  |      | -106  | P5 (5m) KCPC WPTI Tuppel Protection Asso                            |
| 3AL1FT0826               | TBM advances CH3560-2970                        | 1     | 12     | 40   | 11JUL09        | 24JUL09               | 17APR10                                 | 04JUN10  |      | -106  | P5 (5m) KCRC WRTL Tunnel Protection Area                            |
| 3AL1FT0828               | TBM advances; WSD WS Reservior CH2970-2860      | 1     | 6      | 13   | 25JUL09        | 31JUL09               | 05JUN10                                 |          |      | 20000 | Intake I-2 (Ch3160-3100)==P4 (10m) & P3 (50m)                       |
| 3AL1FT0830               | TBM advances; CH2860-1250                       | 1     | 10     | 83   | 01AUG09        | 12AUG09               | The restriction to the last             | 21JUN10  |      | -106  | Intelled 1.3 (CH4370 4050)  |
|                          | TBM advances; CH1250-1250                       | - 1   | 4.5    |      |                | Total visite outer on | 22JUN10                                 | 28SEP10  | 7.65 | -106  | Intake I-3 (CIH1370-1250) F5 (20m), F4(50m), F3(20m)                |
| U/1E/11 10032            | i Divi advances, Citt200-0                      | - X   | 13     | 91   | 13AUG09        | 27AUG09               | 29SEP10                                 | 18JAN11  | 0    | -106  | F2(20m), P2(25m), P1(10r  |

| ID   | Activity Description   | Cal | Target<br>Dur | Orig<br>Dur | Target<br>Start | Target<br>Finish | Early<br>Start | Early<br>Finish | %<br>Comp | Total<br>Float | 2008 | 2009  |                      | 2010    | 201         |           | 2012                      |
|--|--|-----|---------------|-------------|-----------------|------------------|----------------|-----------------|-----------|----------------|------|-------|----------------------|---------|-------------|-----------|---------------------------|
| 3AL1FT0890   | Desembly & demobilization of TBM   | 1   | 0             |             |                 |                  | 19JAN11        | 21MAR11         | 0         |                |      |       | CONTRACTOR OF STREET |         |             |           | and action and the latest |
| 3AL1FT0892   | Back grouting (daytime); CH5100-00   | 1   | 0             | 400         |                 |                  | 26AUG09        | 30DEC10         | 0         | 50             |      |       |                      |         | 1.79m3/     | m, W/C=   | 44%, W=59                 |
| 3AL1FT0894   | Complete maintennce access & dry weather channel   | 1   | 0             | 60          |                 |                  | 22MAR11        | 04JUN11         | 0         | 13             |      |       |                      |         | 1000        | × 11      |                           |
| 3AL1FT0896   | Installation of communication system (Daytime)   | 1   | 0             | 60          |                 |                  | 22MAR11        | 04JUN11         | 0         | -15            |      |       |                      |         | -           |           |                           |
| 3AL1FT0898   | Testing & Commissioning; daytime   | 1   | 0             | 28          |                 |                  | 07JUN11        | 09JUL11         | 0         | -15            |      |       | 100                  |         |             |           |                           |
| 3AL1FT0900   | Authorities' inspection/remedial works; daytime  | 1   | 0             | 30          |                 |                  | 11JUL11        | 13AUG11         | 0         | -15            |      |       |                      |         |             | 1         |                           |
| 3AL1FT0902   | Contractor serve notice for Works completion   | 2   | 0             | 7           |                 |                  | 14AUG11        | 20AUG11         | 0         | 477            |      |       |                      |         |             | E .       |                           |
| 3AL1FT0904   | Handover of Portion F  | 1   | 0             | 0           |                 |                  |                | 13AUG11         | 0         | -15            |      |       |                      |         |             | •         |                           |
| 3AL1FT0906   | SO issues completion certificate   | 2   | 0             | 21          |                 |                  | 21AUG11        | 10SEP11         | 0         | 477            |      |       |                      |         |             | 0         |                           |
| Schedule o   | of Milestones for Cost Centre No. 6aR  |     |               |             |                 |                  |                |                 |           |                |      |       |                      |         | 1 :         |           |                           |
|  |  |     |               |             |                 | 00111100         |                | 0005000         |           | 4 404          |      |       |                      |         |             |           |                           |
| CANCELLA CONTRACTOR CONTRACTOR   | 6aR 1; On completion of grouting at P7   | 2   | 0             |             |                 | 29JAN09          |                | 26SEP09         | -         | 1,191          |      |       | Y ,                  |         |             |           |                           |
| Security Control of the Control of t | 6aR 2; On completion of grouting at F6c  | 2   | 0             | 2670        |                 | 25MAR09          |                | 12DEC09         | 0.00      | 1,114          |      |       |                      |         |             | - 11      |                           |
| 6AR1FT0906   | TO SECURIOR CONTRACTOR CONTRACTOR OF THE CONTRAC | 2   | 0             |             |                 | 01APR09          |                | 22DEC09         | 500.0     | 1,104          |      |       |                      |         |             |           |                           |
| 6AR1FT0908   |  | 2   | 0             |             |                 | 23APR09          | -              | 13JAN10         | 100       | 1,082          |      |       |                      |         |             |           |                           |
|  | 6aR 5; On completion of grouting at WSD T. 3   | 2   | 0             |             |                 | 10JUN09          | -              | 24FEB10         | - 1120    | 1.040          |      |       |                      |         |             |           |                           |
| The same of the sa | 6aR 6; On completion of 20% grout by Ith at P6   | 2   | 0             |             |                 | 07MAY09          |                | 03FEB10         | -         | 1,061          |      |       |                      |         |             | - 11      |                           |
| 6AR1FT0914   |  | 2   | 0             | -           |                 | 16MAY09          | -              | 09FEB10         | 100       | 1,055          |      | B 100 |                      |         |             |           |                           |
| 6AR1FT0916   |  | 2   | 0             | 0           |                 | 26MAY09          |                | 18FEB10         |           | 1,046          |      |       |                      |         |             | - 11      |                           |
| Secretary of the second  | 6aR 9; On completion of 80% grout by Ith at P6   | 2   | 0             | 0           |                 | 05JUN09          |                | 24FEB10         | -         | 1,040          |      |       | T X                  |         |             |           |                           |
| 6AR1FT0920   |  | 2   | 0             |             |                 | 15JUN09          |                | 26FEB10         | 1.00      | 1,038          |      |       |                      |         |             |           |                           |
| 6AR1FT0922   | DESCRIPTION OF THE PROPERTY OF | 2   | 0             | 0           |                 | 10JUL09          |                | 16MAR10         |           | 1,020          |      |       |                      |         |             |           |                           |
| 6AR1FT0924   | Property and the second property of the secon | 2   | 0             |             |                 | 31JUL09          |                | 19APR10         | 11.00     | 986            |      |       |                      |         |             |           |                           |
| 6AR1FT0926   |  | 2   | 0             | 982         |                 | 05SEP09          | -              | 20MAY10         | 0         | (6,8,5)        |      | 017   |                      |         |             |           | comparatorom              |
| 6AR1FT0928   |  | 2   | 0             |             |                 | 29SEP09          |                | 21JUN10         | 0         | 37.113.7       |      | CH.   | 2865-29              | 70 VISU | en vvan vve | est Servi | ice Reservic              |
| 6AR1FT0930   |  | 2   | 0             |             |                 | 10OCT09          | 1              | 28JUN10         | 0         |                |      |       |                      |         |             |           |                           |
|  | 6aR 16; On completion of grouting wks at F4  | 2   | 0             |             |                 | 28OCT09          | -              | 12JUL10         | 0         | 2000           |      |       | 1                    | × .     |             |           |                           |
| 6AR1FT0934   |  | 2   | 0             |             |                 | 19NOV09          |                | 06AUG10         |           | 877            |      |       |                      | •       |             |           |                           |
| 6AR1FT0936   |  | 2   | 0             |             |                 | 27JAN10          |                | 30SEP10         | 0         |                |      |       |                      | •       |             |           |                           |
| 6AR1FT0938   | CONTRACTOR STATE STATE OF THE S | 2   | 0             | 0           | been s          | 27FEB10          |                | 10NOV10         | 0         | -335           |      |       |                      |         |             |           |                           |
| 6AR1FT0940   | Control of the Contro | 2   | 0             |             |                 | 13MAR10          |                | 02DEC10         | 0         | 00000          |      |       |                      |         | M           |           |                           |
|  | 6aR 21; On completion of 10% grout by Ith at F1  | 2   | 0             | 1990        |                 | 31MAR10          |                | 28DEC10         | 0         | 00074          |      |       |                      |         | I           |           |                           |
| 6AR1FT0944   | DESCRIPTION OF STREET OF STREET PROPERTY AND ADDRESS OF STREET STREET STREET, STREET STREET, STREET STREET, ST   | 2   | 0             | -3.0        |                 | 09APR10          |                | 29DEC10         | 0         | 0.000          |      |       |                      |         | X           |           |                           |
| The same of the sa | 6aR 23; On completion of 30% grout by Ith at F1  | 2   | 0             |             |                 | 14APR10          |                | 30DEC10         | 0         | WORN!          |      |       |                      | Ţ,      |             |           |                           |
| 6AR1FT0948   |  | 2   | 0             |             |                 | 19APR10          | -              | 31DEC10         | 0         |                |      |       |                      |         |             |           |                           |
| 6AR1FT0950   |  | 2   | 0             |             |                 | 23APR10          | -              | 03JAN11         | 0         |                |      |       |                      |         | X           |           |                           |
| 6AR1FT0952   |  | 2   | 0             |             |                 | 28APR10          |                | 04JAN11         | 0         |                |      |       |                      |         | I           |           |                           |
| 6AR1FT0954   |  | 2   | 0             | 0           |                 | 04MAY10          | -              | 05JAN11         | -         | 725            |      |       |                      |         | <b>X</b>    |           |                           |
| 6AR1FT0956   |  | 2   | 0             | 0           |                 | 10MAY10          |                | 06JAN11         | 0         |                |      |       |                      | 200     | X           |           |                           |
| 6AR1FT0958   | 6aR 29; On completion of 90% grout by lth at F1  | 2   | 0             | 0           |                 | 11MAY10          |                | 07JAN11         | 0         | 723            |      |       |                      | *       | Y           |           |                           |

| ID                                 | Activity   | Cal | Target | Orig | Target | Target             | Early | Early    | % Total    | 2008   | 2009          | 2010                                    | 2011                | 2012           |
|------------------------------------|--|-----|--------|------|--------|--------------------|-------|----------|------------|--------|---------------|---|---------------------|----------------|
| 24570000                           | Description                                      | ID  | Dur    | Dur  | Start  | Finish             | Start | Finish   | Comp Float |        |               |   |                     |                |
|                                    | 6aR 30; On completion of grouting works at F1    | 2   | 0      | 0    |        | 14MAY10            |       | 08JAN11  | 0 722      |        |               |   | •                   |                |
| THE RESERVE OF THE PERSON NAMED IN | 6aR 31; On completion of all works under this CC | 2   | 0      | 0    |        | 20MAY10            |       | 18JAN11  | 0 712      |        |               | 2.00                                    | under this C        | ost Centre     |
| Schedule (                         | of Milestones for Cost Centre No. 3aL            |     |        |      |        |                    |       |          |            |        |               |   |                     |                |
| 3AL1FT1002                         | 3aL 1; On providing evidence of procuring TBM    | 2   | 0      | 0    |        | 19JAN08            |       | 19JAN08A | 100        | , I    |               |   |                     |                |
| 3AL1FT1004                         | 3aL 2; On providing evidence of TBM Factory Test | 2   | 0      | 0    |        | 04SEP08            |       | 05OCT08  | 0 1,547    | •      |               |   |                     |                |
| 3AL1FT1006                         | 3aL 3; On delivery of all parts of TBM to the Si | 2   | 0      | 0    |        | 09NOV08            |       | 14JUL09  | 0 1,265    |        |               |   |                     |                |
| 3AL1FT1008                         | 3aL 4; On completion of site comm. & test. of TB | 2   | 0      | 0    |        | 08DEC08            |       | 12AUG09  | 0 1,236    |        |               |   |                     | 1              |
| 3AL1FT1010                         | 3aL 5; On completion of 5% perm. tunnel lining   | 2   | 0      | 0    |        | 25MAR09            |       | 12DEC09  | 0 1,114    |        |               | •                                       |                     |                |
| 3AL1FT1012                         | 3aL 6; On completion of 10% perm, tunnel lining  | 2   | 0      | 0    |        | 09APR09            |       | 31DEC09  | 0 1,095    |        |               | •                                       |                     |                |
| 3AL1FT1014                         | 3aL 7; On completion of 15% perm. tunnel lining  | 2   | 0      | 0    |        | 22MAY09            |       | 11FEB10  | 0 1,053    |        | 3.00          |   |                     |                |
| 3AL1FT1016                         | 3aL 8; On completion of 20% perm. tunnel lining  | 2   | 0      | 0    |        | 22JUN09            |       | 06MAR10  | 0 1,030    |        |               |   |                     |                |
| 3AL1FT1018                         | 3aL 9; On completion of 25% perm. tunnel lining  | 2   | 0      | 0    |        | 10JUL09            |       | 23MAR10  | 0 1,013    |        |               |   |                     |                |
| 3AL1FT1020                         | 3aL 10; On completion of 30% perm. tunnel lining | 2   | 0      | 0    |        | 24JUL09            |       | 16APR10  | 0 989      |        |               |   |                     |                |
| 3AL1FT1022                         | 3aL 11; On completion of 35% perm. tunnel lining | 2   | 0      | 0    |        | 10AUG09            |       | 07MAY10  | 0 968      |        |               | •                                       |                     |                |
| 3AL1FT1024                         | 3aL 12; On completion of 40% perm. tunnel lining | 2   | 0      | 0    |        | 09SEP09            |       | 04JUN10  | 0 940      |        | •             |   |                     |                |
| 3AL1FT1026                         | 3aL 13; On completion of 45% perm. tunnel lining | 2   | 0      | 0    |        | 03OCT09            |       | 24JUN10  | 0 920      |        |               |   |                     |                |
| 3AL1FT1028                         | 3aL 14; On completion of 50% perm. tunnel lining | 2   | 0      | 0    |        | 24OCT09            |       | 10JUL10  | 0 904      |        |               |   |                     |                |
| 3AL1FT1030                         | 3aL 15; On completion of 55% perm. tunnel lining | 2   | 0      | 0    |        | 09NOV09            |       | 26JUL10  | 0 888      |        |               |   |                     |                |
| 3AL1FT1032                         | 3aL 16; On completion of 60% perm. tunnel lining | 2   | 0      | 0    |        | 27NOV09            |       | 11AUG10  | 0 872      |        |               |   |                     |                |
| 3AL1FT1034                         | 3aL 17; On completion of 65% perm. tunnel lining | 2   | 0      | 0    |        | 09DEC09            |       | 26AUG10  | 0 857      |        |               |   |                     |                |
| 3AL1FT1036                         | 3aL 18; On completion of 70% perm, tunnel lining | 2   | 0      | 0    |        | 21DEC09            |       | 10SEP10  | 0 842      |        |               |   |                     |                |
| 3AL1FT1038                         | 3aL 19; On completion of 75% perm, tunnel lining | 2   | 0      | 0    |        | 22JAN10            |       | 27SEP10  | 0 825      |        |               |   |                     |                |
| 3AL1FT1040                         | 3aL 20; On completion of 80% perm, tunnel lining | 2   | 0      | 0    |        | 05FEB10            |       | 200CT10  | 0 802      |        |               |   |                     |                |
| 3AL1FT1042                         | 3aL 21; On completion of 85% perm, tunnel lining | 2   | 0      | 0    |        | 01MAR10            |       | 11NOV10  | 0 780      |        | - 1           |   |                     |                |
| 3AL1FT1044                         | 3aL 22; On completion of 90% perm, tunnel lining | 2   | 0      | 0    |        | 15MAR10            |       | 03DEC10  | 0 758      |        |               |   | •                   |                |
| 3AL1FT1046                         | 3aL 23; On completion of 95% perm, tunnel lining | 2   | 0      | 0    |        | 07APR10            |       | 28DEC10  | 0 733      |        |               |   | •                   |                |
| 3AL1FT1048                         | 3aL 24; On completion of perm. tunnel lining     | 2   | 0      | 0    |        | 14MAY10            |       | 18JAN11  | 0 712      |        |               |   |                     |                |
| 3AL1FT1050                         | 3aL 25; On completion of maint, access/flow chan | 2   | 0      | 0    |        | 24SEP10            |       | 04JUN11  | 0 575      |        | dry           | weather flow                            | channel             |                |
| 3AL1FT1052                         | 3aL 26; On completion of provision of communic.  | 2   | 0      | 0    |        | 01NOV10            |       | 04JUN11  | 0 575      |        |               |   |                     |                |
| 3AL1FT1054                         | 3aL 27; On completion of all works under this CC | 2   | 0      | 0    |        | 28JAN11            |       | 13AUG11  | 0 505      |        |               | within this o                           | ost-centre          |                |
| Schedule o                         | of Milestones for Cost Centre No. 3dL            |     |        |      |        |                    |       |          |            |        |               | 1                                       |                     |                |
| 3DI 10T1202                        | 3dL 1; On complet, of install geo instrrument.   | 2   | 0      | 0    |        | 02SEP09            |       | 204 0000 | 04.044     |        | A ploated     | a araay raa ra                          | 2240                |                |
| 3DL10T1202                         |  |     | - 40   |      |        | D=00-24.1000/2502. |       | 29APR09  | 0 1,341    |        | 3             | hnical instrum                          |                     |                |
|                                    | 3dL 2; Maint./monit. geo. inst. for 12 mth       | 2   | 0      | 0    |        | 26DEC08            |       | 26DEC08  | 0 1,465    |        |               |   | 2 months from D     |                |
| 3DL10T1208                         | 3dL 3; Maint./monitor geo. inst. for 24          | 2   | 0      | 0    |        | 26DEC09            |       | 26DEC09  | 0 1,100    | 4      |               | vinstalled ins                          | struments for 24 r  |                |
|                                    | 3dL 4; Maint./monitor geo. inst. for 36          | 2   | 0      | 0    |        | 26DEC10            |       | 26DEC10  | 0 735      | Kare i |               | 010100000000000000000000000000000000000 | oinstalled instri   |                |
|                                    | 3dL 5; Maint./monitor geo. inst. for 48          | 2   | 0      | 0    |        | 26DEC11            |       | 26DEC11  | 0 370      | inst   | alled instrum |   | onths from DOC      | for the second |
|                                    | 3dL 6; On completion of maint, & monit, of geo.  | 2   | 0      | 0    |        | 26JUL12            |       | 30NOV12  | 0 30       |        |               |   | oring for installed | instruments    |
| DL1011214                          | 3dL 7; On installation of FMD at Portion A       | 2   | 0      | 0    |        | 12MAR11            |       | 04JUN11  | 0 575      | flow   | neasuremen    | t devices at Po                         | ortion A 🔷          |                |

| ID         | Activity   |     | Target | The Alle | Target                     | Target       | Early      | Early  |      | Total | 2008     |         | 2009         | 2010                | 2011                | 2012            |
|------------|--|-----|--------|----------|----------------------------|--------------|------------|--|------|-------|----------|---------|--------------|---------------------|---------------------|-----------------|
|            | Description  | ID  | Dur    | Dur      | Start                      | Finish       | Start      | Finish   | Comp | Float |          |         |              |                     |                     |                 |
| 3DL10T1216 |  | 2   | 0      |          |                            | 10JUN11      |            | 24AUG11  | 0    | 494   |          | flow m  | easurer      | ment devices for    | or Portion-B 🔷      |                 |
| 3DL10T1218 |  | 2   | 0      | 0        |                            | 05MAR11      |            | 22DEC10  | 0    | 739   | flow mea | asureme | nt devic     | es for Portion      | C 💠 •               |                 |
| 3DL10T1220 | 3dL 10; On installation of FMD at Portion D  | 2   | 0      | 0        |                            | 19MAY11      |            | 24NOV11  | 0    | 402   |          | flo     | w meas       | urement device      | es for Portion D    |                 |
|            | 3dL 11; On completion of maint. & monit. of FMD  | 2   | 0      | 0        |                            | 26JUL12      |            | 30NOV12  | 0    | 30    |          |         |              | flow monitoring     | g to issue of Mair  | nt. Certificate |
| 3DL10T1224 | 3dL 12; On completion of all works under this CC   | 2   | 0      | 0        |                            | 26JUL12      |            | 30NOV12  | 0    | 30    |          |         |              |                     | under this          | Cost Centre     |
| Schedule ( | of Milestones for Cost Centre No. 10aR   |     |        |          |                            |              |            |  |      |       |          |         |              |                     |                     |                 |
| 10AR1JT131 | 10aR 1; On installation of temp, ventilation   | 2   | 0      | 0        |                            | 03DEC08      |            | 06APR09  | 0    | 1,364 |          |         |              |                     |                     |                 |
| 10AR1JT132 | 10aR 2; On installation temp. lighting   | 2   | 0      | 0        |                            | 03DEC08      |            | 06APR09  | 0    | 1,364 |          |         |              |                     |                     |                 |
| 10AR1JT133 | 10aR 3; On completion of 25% strengthening wks   | 2   | 0      | 0        |                            | 20DEC08      |            | 06MAY09  | 5.0  | 1,334 |          |         | •            |                     |                     |                 |
| 10AR1JT134 | 10aR 4; On completion of 50% strengthening wks   | 2   | 0      | 0        |                            | 10JAN09      |            | 23MAY09  | - 00 | 1,317 |          |         |              |                     |                     |                 |
| 10AR1JT135 | 10aR 5; On completion of 75% strengthening wks   | 2   | 0      | 0        |                            | 31JAN09      |            | 11JUN09  | -    | 1,298 |          |         |              |                     |                     |                 |
| 10AR1JT136 | 10aR 6; On completion of strengthening works   | 2   | 0      | 0        |                            | 16FEB09      |            | 26JUN09  |      | 1,283 |          |         |              |                     |                     |                 |
| 10AR1JT137 | 10aR 7; On recharge of the water after wrk comp  | 2   | 0      | 0        |                            | 18FEB09      |            | 11JUL09  | 7.07 | 1,268 |          |         | <b>♦</b> tur | nel after comp      | letion of strengthe | eina works      |
| Construct  | ion of Intake I-1  |     | 1      |          |                            |              |            |  |      |       |          |         |              | No diameter and the |                     |                 |
| Preliminar | y Works  |     |        | Ш        |                            |              |            |  |      |       |          |         |              |                     |                     |                 |
|            | sperant Hoarding at I-1  |     |        |          |                            |              |            |  |      |       |          |         |              |                     |                     |                 |
| VO007-02   | Receive VO7 for transparent hoarding   | 1   | 0      |          |                            |              |            | 19MAY08A   | 100  |       | •        |         |              |                     |                     |                 |
| VO007-04   | Procure/prepare/install transparent hoarding   | 1   | 0      | 70       |                            |              | 20MAY08A   | 11AUG08A   | 100  |       | 900      |         |              |                     |                     |                 |
| 01R1AI1102 | Possession of site   | 1   | 0      | 0        |                            |              | 19MAR08A   |  | 100  |       | ♦90d af  | tor DOO |              |                     |                     |                 |
| 01R1AI1104 | Obtain TTA (ingress & egress) approval   | 2   | 0      | 0        |                            |              | 19APR08A   |  | 1100 |       | 900 ai   | ter DOC |              |                     |                     |                 |
| 01R1AI1106 | Site clearance   | 1   | 0      | 30       | -                          |              | - Mary No. | 001447/004   | 100  |       | NA       |         |              |                     |                     |                 |
| 01R1AI1108 | Obtain tree  | 1   | 0      | 6        |                            | 00144700     | 21APR08A   | THE RESERVE OF THE PARTY.  | 100  |       |          |         |              |                     |                     |                 |
| 01R1AI1110 | Hoarding erection enclosing the Site   | 1   | -31    | 18       | 07144000                   | 26MAR08      | 13MAY08A   |  | 100  |       | •        |         |              |                     |                     |                 |
| 01R1AI1110 | Site entrance construction   |     | 0      | 6        | 07MAR08<br>26MAR08         |              | 23MAY08A   | La annecessation   | 100  |       |          |         |              |                     |                     |                 |
| 01R1AI1114 | Install wheel wahing facilities  | 1   | 120    |          | 0.55.55.111(1.111.55.55.11 | 001147700    | 23JUN08A   | 1 - 1 (0 - 0 - 0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -   | 100  |       |          |         |              |                     |                     |                 |
| 01R1AI1114 | Erect SOR's secondary site office  | 1   | 30     | 7        | 27MAR08                    | 02MAY08      | 03JUN08A   | 735 S-3-1-1 (105-1-105)  | 100  |       |          |         |              |                     |                     |                 |
| 01R1AI1118 | The Company of the Co |     | 30     | 3.47     | 27MAR08                    | 02MAY08      | 28AUG08    | 03SEP08  | 0    | 0     |          |         |              |                     |                     |                 |
| 01R1AI1110 | Footing for temp, bridge span over Shing M. Nul.   | 1   | 0      | 26       |                            | -            | 10JUN08A   |  | 100  |       | Eq.      | 11 1    |              |                     |                     |                 |
| 01R1AI1120 | Decking for temp. bridge span over Shing M, Nul. Install remote control CCTV as per ER 4.4.10  | 1   | 0      | 13       | 0711100                    | 001441/00    |            | 01AUG08A   | 100  | _     |          |         |              |                     |                     |                 |
| 16R1AI1101 | Tree Identification & Report   | 1   | 30     | 12       | 27MAR08                    | 02MAY08      | 04SEP08    | 18SEP08  | 0    | 0     | · · ·    |         |              |                     |                     |                 |
| 16R7AI1102 | Education to Carlotte to the C | 2   |        | 14       | 07111000                   | 00 11 11 100 | 14MAR08A   | EX.000.00 102558600  | 100  |       | 8        |         |              |                     |                     |                 |
|            | 1st tree pruning for small 3 nos, trees  | 1   | 72     | 1        | 27MAR08                    | 23JUN08      | 03JUN08A   |  | 100  |       |          |         |              |                     |                     |                 |
| 16R7AI1104 | 2nd tree pruning for small 3 nos. trees  | 1   | 0      | 1        |                            |              | 04JUL08A   | NAMES OF TAXABLE PARTY OF TAXABLE PARTY.   | 100  | 7000  | -        |         |              |                     |                     |                 |
| 16R7AI1106 | Final pruning & uplifting of 3 nos. small trees  | . 3 | 0      | 2        |                            |              | 08SEP08    | 09SEP08  | 0    | 183   |          |         |              |                     |                     |                 |
| 16R7AI1108 | Confirm location for trees to be transplanted  | . 1 | 0      | 51       |                            |              | 02APR08A   | Partition of the Control of the Cont | 100  |       |          |         |              |                     |                     |                 |
| 16R7AI1110 | 1st pruning for big 4 nos. trees along S. Mun Rd   | 1   | 0      | 2        |                            |              | 08SEP08    | 09SEP08  |      | 601   | 1        |         |              |                     |                     |                 |
| 16R7AI1112 | 2nd pruning for big 4 nos. trees along S. Mun Rd   | 1   | 0      | 2        |                            |              | 08NOV08    | 10NOV08  | 0    |       |          |         |              |                     |                     |                 |
| 16R7AI1114 | Final pruning/uplifting for big 4 nos. big trees   | 1   | 0      | 6        |                            |              | 09JAN09    | 15JAN09  | 0    | 601   |          | 1       |              |                     |                     |                 |

| ID           | Activity Description                            | Cal<br>ID | Target<br>Dur | Orig   | Target<br>Start | Target<br>Finish | Early<br>Start   | Early<br>Finish  | %<br>Comp | Total<br>Float | 2008 | hill    | 2009         | 2010             | 2011              | 2012           |
|--------------|---|-----------|---------------|--------|-----------------|------------------|--|--|-----------|----------------|------|---------|--------------|------------------|-------------------|----------------|
| Piling Wor   |   |           |               |        |                 |                  |  |  | Comp      | Ficur          |      |         |              |                  |                   |                |
|              | s Above Inclined Access Ramp                    |           |               |        |                 |                  |  |  | _         |                |      |         |              |                  |                   |                |
| 11R2AI1202   | Erect piling platform for lower piles           | 1         | 0             | 12     |                 |                  | 17AUG10  | 30AUG10  | 0         | 99             |      |         |              |                  |                   |                |
| 11R2AI1204   | Mobilize piling rig & set up                    | 1         | 0             |        |                 |                  | 31AUG10  | 06SEP10  | 0         | 53055          |      |         |              |                  |                   |                |
| 11R2AI1208   | 350mm dia. pre-bored H-piles (lower); 29 nos.   | 1         | 72            | 29     | 02JUL10         | 24SEP10          | 07SEP10  | 12OCT10  | 10        | 3535           |      |         |              |                  | 1no/day           |                |
| 11R2AI1210   | Relocate piling rig & set up for upper piling   | 1         | 0             |        |                 | 077-4120-0021    | 130CT10  |  | 1 10      | 0              |      |         |              |                  | , mo/day          |                |
| Piing Works  | Along Crest Plarform                            |           |               |        | -               | +                | 1 13333110   | 2000110  |           | - 00           |      |         |              |                  | ++                | -              |
| 11R2AI1212   | Erect piling platform for lower piles           | 1         | 0             | 12     |                 |                  | 28SEP10  | 12OCT10  | 0         | 99             |      |         |              |                  |                   |                |
| 11R2AI1216   | 350mm dia, pre-bored H-piles (upper); 36 nos.   | 1         | 0             | 36     |                 |                  | 21OCT10  |  | 0         |                |      |         |              |                  | @ 1no/day         |                |
| 11R2Al1218   | Demobilize piling rig                           | 1         | 0             | 6      |                 |                  |  | 08DEC10  |           |                |      |         |              |                  | ( increasy        |                |
| Skin Wall &  | Crest Platform                                  |           |               |        |                 |                  | 1 307-2010   |  |           | -              |      |         |              |                  |                   |                |
| 11R2Al1220   | Excavate & hack off grout                       | 1         | 0             | 6      |                 |                  | 21OCT10  | 27OCT10  | 0         | 131            |      |         |              | 12               | ftrer erection of | tower crane    |
| 11R2Al1222   | Fix rebar/erect fwk/concrete skin wall          | 1         | 0             | 10     |                 | -                |  | 08NOV10  | _         | 131            |      |         |              | 10               | ST GROUNDIT OF    | Control Claric |
| 11R2AI1224   | Fix rebar/erect fwk/concrete capping beam       | 1         | 0             | 10     |                 | -                | 09NOV10  | 19NOV10  |           | 131            |      |         |              |                  | 1                 |                |
| 11R2AI1226   | Backfill & construct U-channel                  | 1         | 0             | 4      | -               |                  | TOP-SPECIAL DESCRIPTION  | 24NOV10  |           |                |      |         |              |                  |                   |                |
| 11R2AI1228   | Fix rebar/erect fwk/concrete crest platform     | 1         | 0             |        |                 |                  |  | 08DEC10  | +         | 131            |      | after c | onstruction  | of spiral rampl  |                   |                |
| Skin Wall &  | Inclined Access Ramp                            |           |               |        |                 |                  |  | , 0022010  |           | 101            |      |         |              |                  |                   | -              |
| 11R2AI1230   | Excavate & hack off grout                       | 1         | 0             | 8      |                 |                  | 09DEC10  | 17DEC10  | 0         | 99             |      |         |              | 1 1 1            | after constructi  | on of cocco    |
| 11R2AI1232   | Fix rebar/erect fwk/concrete skin wall          | 1         | 0             | 0.50   |                 |                  | 18DEC10  | 04JAN11  | 0         |                |      |         |              | f 1 1            | m                 | On or casca    |
| 11R2AI1234   | Fix rebar/erect fwk/concrete capping beam       | 1         | 0             | 8      |                 |                  | 05JAN11  | 13JAN11  | 0         | 13.05.0        |      |         |              |                  | ,                 |                |
| 11R2AI1236   | Backfill & construct U-channel                  | 1         | 0             | 4      |                 | -                | 14JAN11  | 18JAN11  | 0         | - 33           |      |         |              |                  |                   |                |
| 11R2AI1238   | Fix rebar/erect fwk/concrete inclined ramp      | 1         | 0             | 41.511 |                 | -                | THE SECTION OF THE SE | 01FEB11  | 0         |                |      | after   | construction | on of spiral ram | inii              |                |
| ermanen      | t Soil Nailing Works                            |           |               |        |                 |                  |  |  |           |                |      |         |              |                  |                   |                |
|              |   |           |               |        |                 |                  |  |  |           |                |      |         |              |                  |                   |                |
| 11R2AI1302   | Erect working platform & mobilization           | 1         | 24            | 8      | 03 <b>MAY08</b> | 31MAY08          | 17MAY08A   | 24MAY08A   | 100       |                | 1    |         |              |                  |                   | 1              |
| 11R2AI1304   | Install test nails & proof loading test; 2 nos. | 1         | 12            | 8      | 02 <b>JUN08</b> | 16JUN08          | 24JUN08A   |  | 100       |                | off. |         |              | 1                |                   |                |
| 11R2AI1306   | Soil nailing for A to C rows; 69 nos.           | 1         | 12            | 16     | 17JUN08         | 30JUN08          | 02JUL08A   | Committee Commit | 100       |                | 99   |         |              |                  |                   |                |
| 11R2AI1308   | Soil nailing for D to F rows; 71 nos.           | 1         | 24            | 29     | 17JUN08         | 15JUL08          | 15JUL08A   | 05SEP08  | 72        |                | e e  |         |              |                  |                   |                |
| 11R2Al1310   | Constrcut soil nail heads; 140 nos.             | 1         | 24            | 22     | 16JUL08         | 12AUG08          | 19JUL08A   | 06SEP08  | 68        |                | 5    |         |              |                  |                   |                |
| 11R2AI1312   | Demobilization                                  | 1         | 0             | 3      | (Antonomination | 11.000.100.00.00 | 08SEP08  | 10SEP08  |           | 102            |      |         |              |                  |                   |                |
| Constructi   | on of Spiral Ramp & Cascade                     |           |               |        |                 |                  |  |  |           |                |      |         |              |                  |                   |                |
| Temp. Pipe-  | pile cofferdam                                  |           |               |        |                 |                  |  |  |           |                |      |         |              |                  |                   |                |
|              | Erect piling platform                           | 1         | 0             | 43     |                 |                  | 08OCT08  | 26NOV08  | 0         | 102            |      | follo   | wing geoted  | chnical instrum  | entation          |                |
| 04L1AI1203   | Mobilization & set up piling rig                | 1         | 0             | 3      |                 | T                | 21OCT08  | 23OCT08  | 0         | 0.000          |      |         | 3 300.00     | ,                |                   |                |
| 04L1AI1204   | Install 273 mm dia, temp, pipe piles; 144 nos.  | 1         | 0             | 43     |                 |                  | 24OCT08  | 12DEC08  | -         | 102            |      | -       |              |                  |                   |                |
| 04L1AI1208   | Demobilization & tidy up                        | 1         | 0             | 3      |                 |                  | 13DEC08  | 16DEC08  |           | 102            |      | 1       |              |                  |                   |                |
| Excavation f | from Existing GL to +103.5mPD                   |           |               |        |                 |                  | 0002-928303  |  | 11 020    | 0.000          |      |         | +            |                  |                   | -              |
| 04L1Al1402   | Bulk excavation; soil (80m3)                    | , 1       | 4             | 2      | 16SEP08         | 19SEP08          | 20DEC08  | 22DEC08  | 0         | 99             |      | Aft     | er obtaining | SO's consent     | for DDA           |                |
| 04L1AI1404   | Install test tie-back & proof load test; 1 no.  | - 1       | 10            |        | 20SEP08         | 02OCT08          | 23DEC08  | 31DEC08  | 0         |                |      |         | 55.411119    |                  |                   |                |
| 04L1AI1406   | Install working tie-backs; 10 nos.              | 1         | 10            |        | 03OCT08         | 15OCT08          | 23DEC08  |  | 0         |                |      | 0       |              |                  |                   |                |

| ID            | Activity                                       | Cal | Target |      | Target           | Target      | Early             | Early                   |        | otal | 2008       | 2009         | 2010                                  | 2011          | 2012       |
|---------------|--|-----|--------|------|------------------|-------------|-------------------|-------------------------|--------|------|------------|--------------|---------------------------------------|---------------|------------|
|               | Description                                    | ID  | Dur    | Dur  | Start            | Finish      | Start             | Finish                  | Comp F | loat |            |              |                                       |               |            |
|               | from +103.5mPD to +100.5mPD                    |     |        |      | I I managamanana |             |                   |                         |        |      |            |              |                                       |               |            |
| 04L1AI1408    | Bulk excavation; soil (240m3)                  | 1   | 4      | 3    | 16OCT08          | 20OCT08     | 02JAN09           | 05JAN09                 | 0      | 99   | 1          |              |                                       |               |            |
| 04L1Al1410    | Install test tie-back & proof load test; 1 no. | 1   | 10     | _    | 21OCT08          | 31OCT08     | 06JAN09           | 12JAN09                 | 0      | 99   | * U        |              |                                       |               |            |
| 04L1Al1412    | Install working tie-backs; 10 nos.             | 1   | 10     | 6    | 01NOV08          | 12NOV08     | 06JAN09           | 12JAN09                 | 0      | 99   | <b>+</b> 0 |              |                                       |               |            |
| Excavation    | from +100.5mPD to +97.5mPD                     |     |        |      |                  |             |                   |                         |        |      |            |              |                                       |               |            |
| 04L1AI1414    | Bulk excavation; soil (510m3)                  | 1   | 6      | 4    | 13NOV08          | 19NOV08     | 13JAN09           | 16JAN09                 | 0      | 99   | 0.7        |              |                                       |               |            |
| 04L1AI1416    | Install test tie-back & proof load test; 1 no. | 1   | 10     | 6    | 20NOV08          | 01DEC08     | 17JAN09           | 23JAN09                 | 0      | 99   | a [        |              |                                       |               |            |
| 04L1Al1418    | Install working tie-backs; 22 nos.             | 1   | 10     | 6    | 02DEC08          | 12DEC08     | 17JAN09           | 23JAN09                 | 0      | 99   |            |              |                                       |               |            |
| Excavation    | from +97.5mPD to +94.5mPD                      |     |        |      |                  |             |                   |                         |        |      |            |              |                                       |               |            |
| 04L1Al1420    | Bulk excavation; soil (950m3)                  | 1   | 12     | 6    | 13DEC08          | 29DEC08     | 24JAN09           | 03FEB09                 | 0      | 99   | = 1        |              |                                       |               |            |
| 04L1AI1422    | Install test tie-back & proof load test; 1 no. | 1   | 10     | 6    | 30DEC08          | 10JAN09     | 04FEB09           | 10FEB09                 | 0      | 99   | i ii       | L            |                                       |               |            |
| 04L1AI1424    | Install working tie-backs; 37 nos.             | 1   | 12     | 10   | 12JAN09          | 24JAN09     | 04FEB09           | 14FEB09                 | 0      | 99   | 0          | i i          |                                       |               |            |
| Excavation    | from +94.5mPD to +91.5 mPD                     |     |        |      |                  |             |                   |                         |        |      |            |              |                                       |               |            |
| 04L1AI1426    | Bulk excavation; soil (1130m3)                 | 1   | 12     | 8    | 29JAN09          | 11FEB09     | 16FEB09           | 24FEB09                 | 0      | 99   | 1 10       | i i          |                                       |               |            |
| 04L1AI1428    | Bulk excavation; rock (650m3)                  | 1   | 24     | 9    | 12FEB09          | 11MAR09     | 25FEB09           | 06MAR09                 | 0      | 112  |            | •            |                                       |               |            |
| 04L1AI1430    | Install test tie-back & proof load test; 1 no. | 1   | 10     | 6    | 05FEB09          | 16FEB09     | 23FEB09           | 28FEB09                 | 0      | 99   |            | 1            |                                       |               |            |
| 04L1AI1432    | Install working tie-backs; 43 nos.             | 1   | 18     | 18   | 17FEB09          | 09MAR09     | 02MAR09           | 21MAR09                 | 0      | 99   |            | <del>d</del> |                                       |               |            |
| Excavation    | from +91.5mPD to + 88.5mPD                     |     |        |      |                  |             |                   | 100.000.000.000.000.000 |        |      |            |              |                                       | 1             |            |
| 04L1AI1434    | Bulk excavation; soil (1860m3)                 | 1   | 18     | 10   | 12MAR09          | 01APR09     | 23MAR09           | 02APR09                 | 0      | 99   |            | 4            |                                       |               |            |
| 04L1AI1436    | Bulk excavation; rock (420m3)                  | 1   | 18     | 6    | 26MAR09          | 20APR09     | 07APR09           | 16APR09                 | 0      | 99   |            | 4            |                                       |               |            |
| 04L1AI1438    | Install test tie-back & proof load test; 1 no. | 1   | 10     | 6    | 26MAR09          | 07APR09     | 07APR09           | 16APR09                 | 0      | 99   |            | 4            |                                       |               |            |
| 04L1AI1440    | Install working tie-backs; 27 nos.             | 1   | 12     | 12   | 08APR09          | 24APR09     | 17APR09           | 30APR09                 | 0      | 99   |            | i i          |                                       |               |            |
| Excavation    | from +88.5mPD to +72.5mPD                      |     |        |      |                  | JEHAN NAME  |                   |                         | 7      |      |            |              |                                       | +             |            |
| 07R1AI1442    | Set up for dewatering                          | 1   | 0      | 8    |                  |             | 04MAY09           | 12MAY09                 | 0      | 99   |            | 1            |                                       |               |            |
| 07R1AI1444    | Rock excavation/mucking out/temp. support      | 1   | 30     |      | 01AUG09          | 04SEP09     |                   | 03NOV09                 | 0      | 99   |            |              | 13,000m3 @90m3/                       | day with 2 we | ork fronts |
| Constructio   | n of Vehicular Access                          |     |        |      | - The section of | parameters. | 101121100         |                         |        | -    |            |              | 10,0001110 @001110/                   | ody war 2 wo  | TK II OIRG |
| 04L1AI1444    | Cast base slab                                 | 1   | 0      | 6    |                  |             | 04NOV09           | 10NOV09                 | 0      | 99   |            |              |                                       |               |            |
| 04L1AI1446    | Cast walls                                     | 1   | 0      | 12   | -                |             | 11NOV09           | 24NOV09                 | 0      | 99   |            |              |                                       |               |            |
| 04L1Al1448    | Cast roof slab                                 | 1   | 88     | 12   | 20OCT09          | 03FEB10     |                   | 08DEC09                 | 0      | 99   |            |              |                                       |               |            |
|               | n of Spiral Ramp Structure                     |     |        | - 75 |                  | 30, 45,0    | 20.10.100         | CODECCO                 | 0      | 00   |            |              |                                       |               | _          |
| 07R1Al1402    | Cast base slab                                 | 1   | 12     | 12   | 20OCT09          | 03NOV09     | 09DEC09           | 22DEC09                 | 0      | 99   |            |              | r <u>e</u>                            | 1 11          |            |
| 07R1AI1404    | Cast ramp up to +76.51mPD                      | 1   | 192    | 15   | 04NOV09          | 30JUN10     | 16JAN10           | 02FEB10                 | 0      | 99   |            |              | in                                    |               |            |
| 07R1AI1406    | Cast ramp up to +80,81mPD                      | 1   | 12     | 15   | 02JUL10          | 15JUL10     | 03FEB10           | 23FEB10                 | 0      | 99   |            | -            | 22 0                                  |               |            |
| 07R1AI1408    | Cast ramp up to +85.1mPD                       | 1   | 0      | 15   | OZOOZIO          | 1000210     | 24FEB10           | 12MAR10                 | 0      | 99   |            |              | g.                                    |               |            |
| 07R1AI1410    | Cast ramp up to +89.41mPD                      | 1   | 0      | 15   |                  |             | 13MAR10           | 30MAR10                 | 0      | 99   | 1 1        |              | gr.                                   |               |            |
| 07R1Al1412    | Cast ramp up to +93.71mPD                      | 1   | 0      | 15   |                  |             | 31MAR10           | 21APR10                 | 0      | 99   |            |              | #After retrieva                       | of TDM        |            |
| 07R1AI1414    | Cast ramp up to +98.01mPD                      | 1   | 0      | 15   |                  |             | 22APR10           | 10MAY10                 | 0      | 99   |            |              | - Anter retrieva                      | I OI I DIVI   |            |
| 07R1AI1416    | Cast ramp up to +102.31mPD                     | 1   | 0      | 15   |                  | -           | 11MAY10           | 28MAY10                 | 0      | 99   |            |              |                                       |               |            |
| 07R1AI1418    | Backfill spiral ramp; 9840m3                   | 1   | 0      | 21   |                  |             | TELESCONO MANAGES | 14005880 (SELVE)        |        |      |            | @ Em2/5      | # # # # # # # # # # # # # # # # # # # | . 11          |            |
| 07R1AI1410    |  | 1   |        |      |                  |             | 29MAY10           | 23JUN10                 |        | 270  | la la      | - Charles    | minutes#480m3/day                     |               |            |
| 7/1X [M] 1420 | Construct RC spiral ramp top                   | 1   | 0      | 15   |                  | <u>L</u>    | 20APR11           | 11MAY11                 | 0      | 24   |            | ollowing rei | moval of tower cran                   | еш            |            |

| ID   | Activity  |                            | Target                            | Orig                              | Target  | Target   | Early   | Early   | %                                       | Total  | 2008      | 1       | 2009             | 2010  | 2011  | 2012      |
|--|---|----------------------------|-----------------------------------|-----------------------------------|---|--|---|---|---|--|-----------|---------|------------------|---|---|-----------|
|  | Description   | ID                         | Dur                               | Dur                               | Start   | Finish   | Start   | Finish  | Comp                                    | Float  |           |         |                  |   |   |           |
|  | k removal of TBM  |                            |                                   |                                   |   |  |   |   |   |  |           |         |                  |   |   |           |
| 4L1AI1450  | Erect tower crane/testing   | 1                          | 24                                | 18                                | 16APR10   | 14MAY10  | 23DEC09   | 15JAN10   | 0                                       | 99   |           |         |                  | 0 0   |   |           |
| 4L1Al1451  | Erect gantry crane & testing  | 1                          | 0                                 | 24                                | 1   |  | 16JAN10   | 12FEB10   | 0                                       | 168 y  | carne fro | m Outf  | all after initia | IIITBM setup                                |   |           |
| 4L1AI1452  | Dissembly & demobilization of TBM   | 1                          | 50                                | 50                                | 15MAY10   | 15JUL10  | 19JAN11   | 21MAR11   | 0                                       | 3  |           |         |                  | -   |   |           |
| 4L1Al1454  | Dismante/remove gantry crane  | 1                          | 72                                | 12                                | 16JUL10   | 09OCT10  | 22MAR11   | 04APR11   | 0                                       | 24   |           |         |                  | _   | EF.   |           |
| 4L1AI1456  | Dismantle/remove tower crane  | 1                          | 0                                 | 12                                |   |  | 06APR11   | 19APR11   | 0                                       | 24   |           |         |                  |   |   |           |
| onstructio   | n of Box Culvert Structure  |                            |                                   |                                   |   |  |   |   |   |  |           |         |                  |   |   |           |
| L1AI1462   | Cast lower base slab  | 1                          | 0                                 | 12                                |   |  | 17FEB10   | 02MAR10   | 0                                       | 168  |           |         | 1 1              | before TB                                   | M retrieval                                 |           |
| L1AI1463   | Cast upper base   | 1                          | 0                                 | 6                                 |   |  | 22MAR11   | 28MAR11   | 0                                       | 3  |           |         |                  | -00/002/05/05/002                           | 8   |           |
| L1AI1464   | Cast walls 1st lift   | 1                          | 0                                 | 18                                |   |  | 29MAR11   | 19APR11   | 0                                       | 3  |           | after r | etrieval of TI   | BM & gantry                                 | crane                                       |           |
| L1AI1466   | Cast walls 2nd lift, 200mm down from soffit   | 1                          | 0                                 | 18                                |   |  | 20APR11   | 14MAY11   | 0                                       | 3  |           |         |                  | p. 2000 A D. M. 2000 K. 10                  | 18  |           |
| L1AI1468   | Cast roof slabs   | 1                          | 0                                 | 18                                |   |  | 16MAY11   | 04JUN11   | 0                                       | 5.54   |           |         |                  |   |   |           |
| onstructio   | n of Cascade Structure  |                            |                                   |                                   |   |  |   | a americans (A)   |   |  |           |         | 1                |   |   | +         |
| L1Al1472   | Cast base slabs   | 1                          | 0                                 | 12                                |   |  | 29MAY10   | 11JUN10   | 0                                       | 99   |           |         |                  | 1   |   |           |
| L1AI1474   | Cast walls 1st lift   | 1                          | 0                                 | 18                                |   |  | 12JUN10   | 05JUL10   | 0                                       |  |           |         | 1 1              | 10  |   | 11        |
| 4L1AI1476  | Cast walls 2nd lift, 200mm down from soffit   | 1                          | 0                                 | 18                                |   |  | 06JUL10   | 26JUL10   | 0                                       | 99   |           |         |                  | n   |   |           |
| L1AI1478   | Cast roof slabs   | 1                          | 0                                 | 18                                |   |  |   |   | 0                                       |  |           |         |                  |   |   |           |
| ndificati  | on of Existing Channel in Dry Season  |                            |                                   |                                   | -   |  |   | 70110010  |   |  |           |         | -                |   |   |           |
| louinean   | on or Existing Channel III bry Season   |                            |                                   | -                                 |   |  |   |   |   |  |           |         |                  |   |   |           |
| 7R1Al1502  | Modify half channel bed at tunnel entrance; Ph 1  | 1                          | 36                                | 36                                | 01NOV10*  | 11DEC10  | 01NOV10*  | 11DEC10   | 0                                       | 68   |           |         | 1                |   |   |           |
| 7R1Al1504  | Modify rem, half channel bed; Phase 2   | 1                          | 36                                | 36                                | 13DEC10   | 26JAN11  | 13DEC10   |   | 0                                       | 68   |           |         |                  |   |   |           |
| 7R1AI1506  | Install steelworks; Phase 3   | . 1                        | 36                                |                                   | 27JAN11   | 12MAR11  | 27JAN11   | 12MAR11   | 0                                       |  |           |         |                  |   | -   |           |
| emaining   | Works Prior to Handover   |                            |                                   |                                   |   | , _ , , , , , , , , , , , , ,  | 27071111  | TEIWART   |   |  |           |         |                  |   |   |           |
| o i i di i i i   | , Works I Hot to Handover   |                            | -                                 | _                                 |   |  |   |   |   |  |           |         |                  |   |   |           |
| 7R1AI1602  | Backfill & compaction above box culvert; ~13m   | 1                          | 72                                | 22                                | 11OCT10   | 06JAN11  | 07JUN11   | 02JUL11   | 0                                       | 3  |           |         |                  |   |   |           |
| 'R1AI1606  | Finishing & reinstatement works; Portion A  | 1                          | 48                                | 36                                |   | 11APR11  | 03JUN11   | 16JUL11   | 0                                       | 3  |           |         |                  |   |   |           |
|  |   |                            |                                   | 30                                | Name and Advanced to the Control of | 13MAY11  | 18JUN11   | 23JUL11   | 0                                       | 3  |           |         |                  |   |   |           |
| R1AI1608   | Pre-handover inspections and remedial works   | 1                          | 48                                |                                   |   |  |   | 2330L11   | U                                       | 0  |           |         |                  |   | 7.7   |           |
|  | Pre-handover inspections and remedial works  Contractor serve notice for Works completion   | 1 2                        | 48                                |                                   | 14MAR11   |  |   | 30 11 11 11   | 0                                       | 241  |           |         |                  |   |   |           |
| 7R1AI1610  | Contractor serve notice for Works completion  | 2                          | 7                                 | 7                                 | 14MAY11   | 20MAY11  | 24JUL11   | 30JUL11   | 0                                       | 9895A/A                                      |           |         |                  |   | - H   |           |
| 7R1AI1610<br>7R1AI1612   | Contractor serve notice for Works completion SO issues completion certificate   |                            | 7<br>21                           | 7<br>21                           | 14MAY11<br>21MAY11  | 20MAY11<br>10JUN11   | 24JUL11<br>31JUL11                                  | 20AUG11   | 0                                       | 9895A/A                                      |           | 10      | Once ellecte     | 200   | <b>a</b> []                                 |           |
| 7R1Al1610<br>7R1Al1612<br>5R7Al1602  | Contractor serve notice for Works completion<br>SO issues completion certificate<br>Landscaping works at Portion A  | 2<br>2<br>1                | 7<br>21<br>72                     | 7<br>21<br>30                     | 14MAY11<br>21MAY11<br>14FEB11   | 20MAY11<br>10JUN11<br>13MAY11  | 24JUL11<br>31JUL11<br>11JUN11                       | 20AUG11<br>16JUL11  | 0                                       | 341<br>3                                     |           | 15      | Onos. climbe     | er, 200nos. w                               | e ∥<br>oodiand≣63nos                        | trees, 2  |
| 7R1AI1610<br>7R1AI1612<br>6R7AI1602<br>6R7AI1604   | Contractor serve notice for Works completion<br>SO issues completion certificate<br>Landscaping works at Portion A<br>Establishment Works at Portion A  | 2                          | 7<br>21<br>72<br>365              | 7<br>21<br>30<br>365              | 14MAY11<br>21MAY11<br>14FEB11<br>14MAY11  | 20MAY11<br>10JUN11<br>13MAY11<br>12MAY12   | 24JUL11<br>31JUL11<br>11JUN11<br>17JUL11            | 20AUG11<br>16JUL11<br>15JUL12   | 0<br>0<br>0                             | 341<br>3<br>11                               |           | 15      | Onos, climbe     | er, 200nos. w                               | oodiand=63nos                               | trees, 2  |
| 7R1AI1608<br>17R1AI1610<br>17R1AI1612<br>6R7AI1602<br>6R7AI1604<br>DL1AI1602   | Contractor serve notice for Works completion SO issues completion certificate Landscaping works at Portion A Establishment Works at Portion A Install flow measurement devices at Intake I-1  | 2<br>2<br>1<br>2<br>1      | 7<br>21<br>72<br>365<br>24        | 7<br>21<br>30<br>365<br>12        | 14MAY11<br>21MAY11<br>14FEB11<br>14MAY11<br>14FEB11   | 20MAY11<br>10JUN11<br>13MAY11<br>12MAY12<br>12MAR11                                  | 24JUL11<br>31JUL11<br>11JUN11<br>17JUL11<br>23MAY11 | 20AUG11<br>16JUL11<br>15JUL12<br>04JUN11                                  | 0<br>0<br>0                             | 341<br>3<br>11<br>15                         |           | 15      | 0nos. climbe     | er, 200nos. w                               | C   | trees, 2  |
| 7R1AI1610<br>7R1AI1612<br>5R7AI1602<br>5R7AI1604<br>DL1AI1602<br>DL1AI1604   | Contractor serve notice for Works completion SO issues completion certificate Landscaping works at Portion A Establishment Works at Portion A Install flow measurement devices at Intake I-1 Maintain & monitor flow monitoring   | 2<br>2<br>1                | 7<br>21<br>72<br>365              | 7<br>21<br>30<br>365              | 14MAY11<br>21MAY11<br>14FEB11<br>14MAY11  | 20MAY11<br>10JUN11<br>13MAY11<br>12MAY12   | 24JUL11<br>31JUL11<br>11JUN11<br>17JUL11            | 20AUG11<br>16JUL11<br>15JUL12   | 0<br>0<br>0                             | 341<br>3<br>11                               |           | 15      | i0nos. climbe    | er, 200nos. w                               | oodiand=63nos                               | trees, 2  |
| 7R1AI1610<br>7R1AI1612<br>6R7AI1602<br>6R7AI1604<br>DL1AI1602<br>DL1AI1604   | Contractor serve notice for Works completion SO issues completion certificate Landscaping works at Portion A Establishment Works at Portion A Install flow measurement devices at Intake I-1  | 2<br>2<br>1<br>2<br>1      | 7<br>21<br>72<br>365<br>24        | 7<br>21<br>30<br>365<br>12        | 14MAY11<br>21MAY11<br>14FEB11<br>14MAY11<br>14FEB11   | 20MAY11<br>10JUN11<br>13MAY11<br>12MAY12<br>12MAR11                                  | 24JUL11<br>31JUL11<br>11JUN11<br>17JUL11<br>23MAY11 | 20AUG11<br>16JUL11<br>15JUL12<br>04JUN11                                  | 0<br>0<br>0                             | 341<br>3<br>11<br>15                         |           | 15      | i0nos. climbe    | er, 200nos. w                               | oodiand=63nos                               | trees, 20 |
| 7R1AI1610<br>7R1AI1612<br>6R7AI1602<br>6R7AI1604<br>DL1AI1602<br>DL1AI1604   | Contractor serve notice for Works completion SO issues completion certificate Landscaping works at Portion A Establishment Works at Portion A Install flow measurement devices at Intake I-1 Maintain & monitor flow monitoring of Milestones for Cost Center No. 4L  | 2<br>2<br>1<br>2<br>1<br>2 | 7<br>21<br>72<br>365<br>24<br>365 | 7<br>21<br>30<br>365<br>12<br>365 | 14MAY11<br>21MAY11<br>14FEB11<br>14MAY11<br>14FEB11   | 20MAY11<br>10JUN11<br>13MAY11<br>12MAY12<br>12MAR11<br>11MAR12                       | 24JUL11<br>31JUL11<br>11JUN11<br>17JUL11<br>23MAY11 | 20AUG11<br>16JUL11<br>15JUL12<br>04JUN11<br>03JUN12                       | 0<br>0<br>0<br>0                        | 341<br>3<br>11<br>15<br>53                   |           | 15      |                  |   | oodiand≖63nos                               | trees, 2  |
| R1AI1610<br>R1AI1612<br>R7AI1602<br>R7AI1604<br>DL1AI1602<br>DL1AI1604<br>Chedule (  | Contractor serve notice for Works completion SO issues completion certificate Landscaping works at Portion A Establishment Works at Portion A Install flow measurement devices at Intake I-1 Maintain & monitor flow monitoring of Milestones for Cost Center No. 4L 4L 1; On completion of 50% excavation  | 2 2 1 2 1 2 2              | 7<br>21<br>72<br>365<br>24<br>365 | 7<br>21<br>30<br>365<br>12<br>365 | 14MAY11<br>21MAY11<br>14FEB11<br>14MAY11<br>14FEB11   | 20MAY11<br>10JUN11<br>13MAY11<br>12MAY12<br>12MAR11<br>11MAR12<br>24APR09            | 24JUL11<br>31JUL11<br>11JUN11<br>17JUL11<br>23MAY11 | 20AUG11<br>16JUL11<br>15JUL12<br>04JUN11<br>03JUN12                       | 0 0 0 0 0                               | 341<br>3<br>11<br>15<br>53                   |           | 15      | ♦for Casca       | ade at Intake                               | oodiand≖63nos                               | trees, 2  |
| 7R1Al1610<br>7R1Al1612<br>5R7Al1602<br>5R7Al1604<br>DL1Al1604<br>DL1Al1604<br>Chedule (  | Contractor serve notice for Works completion SO issues completion certificate Landscaping works at Portion A Establishment Works at Portion A Install flow measurement devices at Intake I-1 Maintain & monitor flow monitoring of Milestones for Cost Center No. 4L  4L 1; On completion of 50% excavation 4L 2; On completion of excavation                                       | 2<br>2<br>1<br>2<br>1<br>2 | 7<br>21<br>72<br>365<br>24<br>365 | 7<br>21<br>30<br>365<br>12<br>365 | 14MAY11<br>21MAY11<br>14FEB11<br>14MAY11<br>14FEB11   | 20MAY11<br>10JUN11<br>13MAY11<br>12MAY12<br>12MAR11<br>11MAR12<br>24APR09<br>03FEB10 | 24JUL11<br>31JUL11<br>11JUN11<br>17JUL11<br>23MAY11 | 20AUG11<br>16JUL11<br>15JUL12<br>04JUN11<br>03JUN12                       | 0 0 0 0 0                               | 341<br>3<br>11<br>15<br>53                   |           | 15      | ♦for Casca       |   | oodiand≖63nos                               | trees, 20 |
| 7R1AI1610<br>7R1AI1612<br>5R7AI1602<br>5R7AI1604<br>DL1AI1602<br>DL1AI1604<br>Chedule (Chedule ( | Contractor serve notice for Works completion SO issues completion certificate Landscaping works at Portion A Establishment Works at Portion A Install flow measurement devices at Intake I-1 Maintain & monitor flow monitoring of Milestones for Cost Center No. 4L  4L 1; On completion of 50% excavation 4L 2; On completion of excavation 4L 3; On completion of 25% concreting | 2 2 1 2 1 2 2              | 7<br>21<br>72<br>365<br>24<br>365 | 7<br>21<br>30<br>365<br>12<br>365 | 14MAY11<br>21MAY11<br>14FEB11<br>14MAY11<br>14FEB11   | 20MAY11<br>10JUN11<br>13MAY11<br>12MAY12<br>12MAR11<br>11MAR12<br>24APR09            | 24JUL11<br>31JUL11<br>11JUN11<br>17JUL11<br>23MAY11 | 20AUG11<br>16JUL11<br>15JUL12<br>04JUN11<br>03JUN12                       | 0 | 341<br>3<br>11<br>15<br>53                   |           | 15      | ♦for Casca       | ade at Intake<br>or Cascade a               | oodiand≖63nos                               | trees, 20 |
| 7R1AI1610<br>7R1AI1612<br>6R7AI1602<br>6R7AI1604<br>DL1AI1602<br>DL1AI1604<br><b>chedule</b> (<br>4L1AI1802<br>4L1AI1804<br>4L1AI1806<br>4L1AI1808   | Contractor serve notice for Works completion SO issues completion certificate Landscaping works at Portion A Establishment Works at Portion A Install flow measurement devices at Intake I-1 Maintain & monitor flow monitoring of Milestones for Cost Center No. 4L  4L 1; On completion of 50% excavation 4L 2; On completion of excavation                                       | 2<br>2<br>1<br>2<br>1<br>2 | 7<br>21<br>72<br>365<br>24<br>365 | 7<br>21<br>30<br>365<br>12<br>365 | 14MAY11<br>21MAY11<br>14FEB11<br>14MAY11<br>14FEB11   | 20MAY11<br>10JUN11<br>13MAY11<br>12MAY12<br>12MAR11<br>11MAR12<br>24APR09<br>03FEB10 | 24JUL11<br>31JUL11<br>11JUN11<br>17JUL11<br>23MAY11 | 20AUG11<br>16JUL11<br>15JUL12<br>04JUN11<br>03JUN12<br>30APR09<br>03NOV09 | 0 | 341<br>3<br>11<br>15<br>53<br>1,340<br>1,153 |           | 15      | ♦for Casca       | ade at Intake<br>or Cascade a<br>◆for Casca | oodiand≖63nos<br>= ■<br>I-1<br>t Intake I-1 |           |

| ID           | Activity Description                            | Cal | Target<br>Dur | Orig | Target<br>Start | Target<br>Finish | Early<br>Start | Early<br>Finish | %<br>Comp | Total<br>Float | 2008 | 20            | 009        | 2010          | 2011              | 2012          |
|--------------|---|-----|---------------|------|-----------------|------------------|----------------|-----------------|-----------|----------------|------|---------------|------------|---------------|-------------------|---------------|
| 04L1Al1812   | 4L 6; On completion of Cascade                  | 2   | 0             | 0    |                 | 09OCT10          |                | 16AUG10         | 0         | -              | T I  |               |            | ♦at I         | ntake I-1         |               |
| 04L1Al1814   | 4L 7; On completion of connecting BC            | 2   | 0             | 0    |                 | 19OCT09          |                | 04JUN11         | 0         | 575            |      |               | box cu     | lvert at Inta | ike I-1           |               |
| 04L1AI1816   | 4L 8; On completion of all works under this CC  | 2   | 0             | 0    |                 | 13MAY11          |                | 23JUL11         | 0         | 526            |      |               | witl       | nin this Cos  | t Centre 🔷        |               |
| Schedule     | of Milestones for Cost Centre No. 7R            |     | 1             |      |                 |                  |                |                 |           |                |      |               |            |               |                   |               |
| 07R1AI1902   | 7R 1; On completion of trash grills             | 2   | 0             | 0    |                 | 12MAR11          |                | 12MAR11         | 0         | 659            |      |               |            |               | ◆and stop lo      | g at Intake   |
| 07R1AI1904   | 7R 2; On completion of 25% excavation           | 2   | 0             | 0    | 1               | 29DEC08          |                | 03FEB09         | 0         | 1,426          |      | spira         | al ramp at | Intake I-1    | -                 | 0             |
| 07R1AI1906   | 7R 3; On completion of 50% excavation           | 2   | 0             | 0    |                 | 11MAR09          |                | 06MAR09         |           | 1,395          |      |               | 10 1       | t Intake I-1  |                   |               |
| 07R1AI1908   | 7R 4; On completion of 75% excavation           | 2   | 0             | 0    |                 | 02JUN09          |                | 08SEP09         |           | 1,209          |      |               |            | ramp at Int   | ake I-1           |               |
| 07R1AI1910   | 7R 5; On completion of all excavation           | 2   | 0             | 0    |                 | 04SEP09          |                | 03NOV09         |           | 1,153          |      |               |            |               | at Intake I-1     |               |
| 07R1Al1912   | 7R 6; On completion of spiral ramp to +80mPD    | 2   | 0             | 0    |                 | 22DEC09          |                | 23FEB10         |           | 1,041          |      |               | 1 1        |               | p at Intake I-1   |               |
| 07R1AI1914   | 7R 7; On completion of spiral ramp to +90mPD    | 2   | 0             | 0    |                 | 02MAR10          |                | 17MAY10         | 0         |                |      |               |            | The second    | amp at Intake I-  | 1             |
| 07R1AI1916   | 7R 8; On completion of spiral ramp to +100mPD   | 2   | 0             | 0    | -               | 10MAY10          | -              | 22JUL10         | 0         |                |      |               |            | C. 20000000   | al ramp at Intake | (f li)        |
| 07R1AI1918   | 7R 9; On completion of spiral access ramp       | 2   | 0             | 0    |                 | 15JUL10          |                | 11MAY11         | 0         |                |      |               | - 11       | 0000000       | ◆at Intake        | 1 241         |
| 07R1AI1920   | 7R 10; On completion of all works under this CC | 2   | 0             | 0    |                 | 13MAY11          |                | 23JUL11         | 0         |                |      |               | unc        | er this Cos   |                   |               |
| Schedule     | of Milestones for Cost Centre No. 11R           |     | 1             |      |                 |                  |                |                 |           |                |      |               |            |               |                   |               |
| 11R2AI1R02   | 11R 1; On completion of soil nailing works      | 2   | 0             | 0    |                 | 12AUG08          |                | 06SEP08         | 0         | 1,576          |      | at Intake I-  | 1          |               |                   |               |
|              | 11R 2; On completion of piling at platform      | 2   | 0             | 0    |                 | 19SEP08          | -              | 01DEC10         | -         | 760            | ſ    | at ilitake i- |            |               | wall at platform  | at Intaka I   |
|              | 11R 3; On completion of piling at branch access | 2   | 0             | 0    |                 | 13OCT08          |                | 12OCT10         |           | 810            | wall | t branch ac   | cess at In |               | wall at platform  | at IIItake I- |
|              | 11R 4; On completion of all works under this CC | 2   | 0             | 0    |                 | 24SEP10          | 1              | 08DEC10         | -         | 753            |      |               |            |               | under this Cost   | Centre        |
|              | tion of Intake I-2                              |     | *             |      |                 |                  |                | 0052010         |           | 100            |      |               |            |               | under the cost    | Comaro        |
| Preliminar   | y Works   |     |               |      |                 |                  |                |                 |           |                |      |               |            |               |                   |               |
| Diversion of | FCLP Overhead Cable                             |     |               |      |                 |                  |                |                 |           |                |      |               |            |               |                   |               |
| 01R1BU0102   | Diversion of CLP overhead cable                 | 2   | 0             | 30   |                 |                  | 02OCT08*       | 31OCT08         | 0         | -44            |      | =             |            |               |                   |               |
| Dievrsion of | f 100mm Watermain                               |     |               |      |                 |                  |                |                 |           |                |      |               |            |               |                   |               |
| 01R1BU0202   | Diversion of 100mm dia. watermain               | 2   | 0             | 54   |                 |                  | 22SEP08*       | 14NOV08         | 0         | -58            |      |               |            |               |                   |               |
| VO 11; Tran  | sperant Hoarding at I-2                         |     |               |      |                 |                  |                |                 |           | 114            |      |               |            |               |                   |               |
| VO011-02     | Receive VO11 for transparent hoarding           | . 1 | 0             | 0    |                 | -                |                | 14JUL08A        | 100       |                | •    |               |            |               |                   |               |
| VO011-04     | Procure/prepare/install transparent hoarding    | 1   | 0             | 51   |                 |                  | 15JUL08A       | 16OCT08         | 22        | -52            |      | # 3<br>       |            |               |                   |               |
| 01R1BI2102   | Possession of Portion B -90d of DOC             | 2   | 0             | 0    |                 |                  | 26MAR08A       |                 | 100       |                | •    |               |            |               |                   |               |
| 01R1Bl2104   | Obtain TTA (ingress & egress) approval          | 2   | 0             | 0    |                 |                  |                | 19APR08A        | 100       |                | •    |               |            |               |                   |               |
| 01R1Bl2108   | Site clearance                                  | 1   | 0             | 30   |                 | 06MAR08          | 02MAY08A       | 05SEP08         | 75        | -52            | •    |               |            |               |                   |               |
| 01R1Bl2112   | Erect hoarding                                  | 1   | 30            | 30   | 27MAR08         | 02MAY08          | 05JUN08A       | 16OCT08         | 0         | -52            | -    | <b>=</b>      |            |               |                   |               |
| 01R1Bl2116   | Install remote contorl CCTV as per ER 4.4.10    | 1   | 30            | 12   | 27MAR08         | 02MAY08          | 17OCT08        | 30OCT08         | 0         | 0              |      | 8             | 13         |               |                   |               |
| 16R7BI2002   | Tree transplanting; 1 no.                       | 1   | 72            | 72   | 03APR08         | 30JUN08          | 17OCT08        | 12JAN09         | 0         | 516            |      | 5701          |            |               |                   |               |

| ID                               | Activity Description   | Cal  | Target<br>Dur | Orig  | Target<br>Start | Target<br>Finish | Early<br>Start                          | Early<br>Finish  | %<br>Comp | Total<br>Float | 2008 | 2009             | 2010       | 2011             | 2012      |
|----------------------------------|--|------|---------------|-------|-----------------|------------------|---|--|-----------|----------------|------|------------------|------------|------------------|-----------|
| Stream Div                       | version/Approach Channel/H-Pile Wall   |      |               |       | Oluit           | 1 11110/1        | Otalic                                  | Fillian  | Joinp     | Tout           |      |                  |            |                  |           |
|                                  | yout of Pile Wall at I-2   |      |               |       |                 |                  |   |  |           |                |      |                  |            |                  |           |
| VO022-02                         | Received VO22 for revised layout of pile wall  | 1    | 0             | 0     |                 |                  |   | 10JUL08A   | 100       | _              |      |                  |            |                  |           |
| VO022-04                         | SOR confirmed to demolish exit, ret, wall  | 1    | 0             | - 8   |                 | -                | 11 11 11 084                            | 21AUG08A   | 100       |                |      |                  |            |                  |           |
| VO022-06                         | Demolish existing retaining wall   | 1    | 0             | 1     |                 |                  | 13SEP08                                 | 13SEP08  | 0         |                |      |                  |            |                  |           |
| VO022-16                         | Reinstate piling platform  | 1    | 0             | - 1   |                 |                  | 16SEP08                                 | 17SEP08  | 0         |                |      |                  |            |                  |           |
|                                  | g 1- Construct 550 dia. H-pile Wall  | -    |               | -     | -               | -                | 10001 00                                | 1702100  | .0        | -40            |      |                  |            |                  |           |
| 12R3BI2202                       | Form temp, access ramp along west side of stream   | 1    | 24            | 44    | 05APR08         | 03MAY08          | 10 II IN08A                             | 31JUL08A   | 100       |                | = 98 |                  |            |                  |           |
| 12R3BI2204                       | Additional SI & engineering works  | 1    | 6             |       | 05MAY08         | 10MAY08          | 25AUG08A                                | A STATE OF THE PARTY OF THE PAR | 15        |                |      |                  |            |                  |           |
| 12R3BI2206                       | Mobilize piling rig & set up   | 4    | 10            | 5     | 13MAY08         | 23MAY08          | 25SEP08                                 | 30SEP08  | 0         |                | , [  |                  |            |                  |           |
| 12R3BI2208                       | Construct 59 nos. pre-bored H-piles  | 4    | 12            | -8-   | 24MAY08         | 06JUN08          | 02OCT08                                 | 29NOV08  | 0         |                | ъ.   | =6nos piles/5d   | ave        |                  |           |
| 12R3BI2210                       | Demobilize piling rig  | 1    | 30            | 1     | 07JUN08         | 14JUL08          | 01DEC08                                 | 01DEC08  | 0         |                | 100  | — onos pilesisai | ays        |                  |           |
| 12R3BI2212                       | Construct skin wall/caping beam/u-channel  | 4    | 1             | 90    | 15JUL08         | 15JUL08          | 02DEC08                                 | 23MAR09  | 0         |                |      | 4 bays           |            |                  |           |
| 12R3BI2230                       | Excavate/construct modified river channel  | 1    | 0             | 30    | 1000000         | 1000200          | 17FEB09                                 | 23MAR09  | 0         |                |      |                  |            | 1 1 1            |           |
| 12R3BI2232                       | Construct PC block bund  | 4    | 0             | 12    | i               |                  | 17MAR09                                 | 30MAR09  | 0         | 1.000          |      |                  |            |                  |           |
| 12R3BI2234                       | Divert channel to West   | -    | 0             |       |                 | +                | THINAISOS                               | 30MAR09  | 0         | 1000           |      |                  |            |                  |           |
|                                  | g 2- Construct D.W.F.C at West   |      | Ü             | U     |                 |                  | -                                       | 301/1/1/09   | U         | -02            |      |                  |            |                  |           |
| 08R1BI2236                       | Construct temp. concrete block bund  | 1    | 12            | 12    | 28APR11         | 12MAY11          | 02DEC08                                 | 15DEC08  | 0         | 20             |      | provision of v   |            |                  |           |
| 08R1BI2238                       | Excavate for new low flow channel  | 3.50 |               | 6.55  |                 | BHRSP-COSTAN-MIN | 200001000000000000000000000000000000000 | 10 - 2 BO - 2 C C C C C  | 0         | N. 35.4.2      |      | provision of v   | vater pump |                  |           |
| 08R1BI2240                       | Construct new low flow channel   | 1    | 6             | 24    | 13MAY11         | 19MAY11          | 16DEC08                                 | 15JAN09  | 0         |                |      |                  |            | 1.               |           |
| 08R1BI2240                       | Remove temp, concrete block bund   | 1    | 0             |       |                 | -                | 16JAN09                                 | 16FEB09  | 0         |                | - 1  |                  |            |                  |           |
|                                  | And the second of the second o | 1 1  | U             | 12    |                 | -                | 17FEB09                                 | 02MAR09  | 0         | -28            | _    |                  |            |                  |           |
| All Charles Andrews and a second | g 5 - Construct Vortex Shaft   |      |               | 40    |                 |                  | 0011011001                              | 4 44 103 100   |           | 0.40           |      |                  |            |                  |           |
| 08R1BI2244                       | Excavate for Vortex  | 1    | 0             | 12175 | -               |                  | 02NOV09*                                | 14NOV09  | - 3       | 243            |      |                  |            |                  |           |
| 08R1BI2246                       | Construct Vortex   | - 1  | 0             | 24    |                 |                  | 16NOV09                                 | 12DEC09  | 0         | 243            |      | 5 -              |            |                  |           |
|                                  | g 1 - Construct A. C. (South & East)   |      |               |       |                 |                  | T                                       |  |           |                |      |                  |            |                  |           |
| 08R1BI2248                       | Remove steel deck stg 2  | 1    | 0             | 112   |                 |                  | 14DEC09                                 | 29DEC09  |           | 243            |      |                  | -          |                  |           |
| 08R1BI2250                       | Excavate for South & East part of A.C.   | 1    | 0             | 12    |                 | _                | 30DEC09                                 | 13JAN10  | 0         |                |      |                  | M .        |                  |           |
| 08R1BI2252                       | Construct South & East part of A, C.   | 1    | 0             | 24    |                 |                  | 14JAN10                                 | 10FEB10  | 0         | 243            |      |                  | Ð          |                  |           |
|                                  | g 2-Construct A. C. (West)   |      |               |       |                 |                  |   |  |           |                |      |                  |            |                  |           |
| 08R1Bl2254                       | Construct temp. concrete block bund  | 1    | 0             | 0.00  |                 |                  | 01NOV10*                                | 13NOV10  | 0         | 337.00         |      |                  |            | provision of wat | er pump   |
| 08R1BI2256                       | Excavate for western portion guide wall & slab   | 1    | 0             | 12    |                 |                  | 15NOV10                                 | 27NOV10  | 0         |                |      |                  |            |                  |           |
| 08R1BI2258                       | Construct western portion of guide wall & slab   | 1    | 0             | 24    |                 |                  | 29NOV10                                 | 28DEC10  | 0         |                |      |                  |            | 8                |           |
| 08R1BI2260                       | Remove concrete block bund   | 1    | 0             | 6     |                 |                  | 29DEC10                                 | 05JAN11  | 0         | 32             |      |                  |            | 1                |           |
|                                  | g 3 - Construct A. C. (North & East)   |      |               |       |                 |                  |   |  |           |                |      |                  |            |                  |           |
| 08R1BI2262                       | Construct temp. concrete block bund  | 1    | 0             |       |                 |                  | 06JAN11                                 | 12JAN11  | 0         | 22.22          |      |                  |            | provision of w   | ater pump |
| 08R1BI2264                       | Excavate for L-shaped retaining wall   | 1    | 0             |       |                 |                  | 13JAN11                                 | 26JAN11  | 0         |                |      |                  |            | 16               |           |
| 08R1BI2266                       | Construct L-shaped retaining wall  | 1    | 0             | 18    |                 |                  | 27JAN11                                 | 19FEB11  | 0         | 32             |      |                  |            | ii ii            |           |
| 08R1BI2268                       | Excavate eastern portion of guide wall & slab  | 1    | 0             | 12    |                 |                  | 21FEB11                                 | 05MAR11  | 0         | 32             |      |                  |            | 1                |           |
| 08R1BI2270                       | Construction of boulder traps; 7nos.   | 1    | 0             | 24    |                 |                  | 21FEB11                                 | 19MAR11  | 0         | 64             |      | Till I           |            |                  |           |
| 08R1BI2272                       | Construct eastern portion of guide wall & slab   | 1    | 0             | 24    |                 |                  | 07MAR11                                 | 02APR11  | 0         | 32             |      |                  |            | ū                |           |

| ID           | Activity  | Cal | Target | Orig  | Target   | Target  | Early      | Early         | %    | Total | 2008 |     | 2009           | 2010            | 2011       | 2012 |
|--------------|---|-----|--------|-------|----------|---------|------------|---------------|------|-------|------|-----|----------------|-----------------|------------|------|
|              | Description                                     | ID  | Dur    | Dur   | Start    | Finish  | Start      | Finish        | Comp |       |      |     |                |                 |            |      |
| 08R1Bl2274   | Construct trash grill                           | 1   | 0      | 12    |          |         | 04APR11    | 18APR11       | 0    |       |      |     |                |                 | 1          |      |
| 08R1Bl2276   | Remove temp. concrete blcok bund                | 1   | 0      | 6     |          |         | 19APR11    | 28APR11       | 0    | 32    |      |     |                |                 | ) i        |      |
| Phase 4- Co  | nstruct Remaining Approach Channel              |     |        |       |          |         |            |               |      |       |      |     |                |                 |            |      |
| 08R1BI2278   | Remove gantry crane                             | 1   | 0      | 12    |          |         | 26JUL11    | 08AUG11       | 0    | -52   |      |     |                |                 | 8          |      |
| 08R1BI2280   | Close out last section of guide wall            | 1   | 0      | 12    |          |         | 09AUG11    | 22AUG11       | 0    | -52   |      | 110 |                |                 | 2          |      |
| 08R1BI2282   | Remove steel deck stg 1                         | 1   | 0      | 12    |          |         | 23AUG11    | 05SEP11       | 0    | -52   |      |     |                |                 | <u> </u>   |      |
| Excavate 8   | & Construct Vortex/Drop Shaft                   |     |        |       |          |         |            |               |      |       |      |     |                |                 |            |      |
| Phase 2, Stg | 1- Temporary Steel Deck Stage 1                 |     |        |       |          |         |            |               |      |       |      |     |                |                 |            |      |
| 05L1BI2301   | Excavate for foundation                         | 1   | 0      | 12    |          |         | 13OCT08    | 25OCT08       | 0    | 24    |      | 8   |                |                 |            |      |
| 05L1BI2302   | Construct foundation for steel deck             | 1   | 24     | 18    | 07JUN08  | 07JUL08 | 27OCT08    | 15NOV08       | 0    | 24    |      | B   |                |                 |            |      |
| 05L1BI2304   | Install steel deck                              | 1   | 6      | 18    | 05SEP08  | 11SEP08 | 17NOV08    | 06DEC08       | 0    | 24    |      |     |                |                 |            |      |
| Phase 2, Stg | 3- Ground Treatment Works for D. S.             |     |        |       |          |         |            |               |      |       |      | П   |                |                 |            |      |
| 05L1BI2306   | Rock excavation from GL (+99mPD to +93mPD       | 1   | 24     | 12    | 12SEP08  | 13OCT08 | 12FEB09    | 25FEB09       | 0    | -27   | ė:   |     | 8              |                 |            |      |
| 05L1BI2308   | Construct temp. RC ring wall; +93mPD to +102mPD | 1   | 0      | 20    |          | 1       | 26FEB09    | 20MAR09       | 0    | -27   |      |     | 8              |                 |            |      |
| 05L1BI2310   | Setting up                                      | 1   | 18     | 2     | 14OCT08  | 03NOV08 | 31MAR09    | 01APR09       | 0    | -35   |      | 4   | following c    | hanell diversio | n to west  |      |
| 05L1BI2312   | Probing & curtain grouting around shaft         | 1   | 160    | 35    | 11NOV08  | 30MAY09 | 02APR09    | 19MAY09       | 0    | _     |      |     |                |                 |            |      |
| Phase 2, Stg | 4 - Temporary Steel Deck Stage 2                |     |        |       |          |         |            |               |      |       |      |     |                |                 |            |      |
| 05L1BI2314   | Excavate for foundation                         | 1   | 32     | 12    | 21OCT10  | 26NOV10 | 31MAR09    | 17APR09       | 0    | -52   |      |     | following o    | hannel divers   | on to west |      |
| 05L1BI2316   | Construct foundation for steel deck/gantry      | 1   | 6      | 18    | 01NOV10* | 06NOV10 | 18APR09    | 11MAY09       | 0    | -52   |      |     |                |                 | a settinge |      |
| 05L1BI2318   | Install steel deck/gantry/Noise enclosure       | 1   | 24     | 24    | 27NOV10  | 24DEC10 | 12MAY09    | 09JUN09       | 0    |       |      |     | 65<br>100      | 1               | .          |      |
|              |   |     |        |       |          |         |            |               | -    |       |      |     |                |                 |            |      |
| 05L1Bl2320   | Excavate shaft; +93mPD to +65mPD (28m)          | 1   | 36     | 118   | 28DEC10  | 11FEB11 | 10JUN09    | 29OCT09       | 0    | -52   |      | W   | <b></b> @      | 0.3m/day & ni   | sint       |      |
| 05L1BI2322   | Construct permanent lining; 28m @ 3m/ 3days     | 1   | . 0    | 28    |          |         | 22JUN11    | 25JUL11       | 0    | -52   |      |     |                |                 |            |      |
| Excavate 8   | Construct Air Vent Shaft                        |     | 1      |       |          |         |            |               |      |       |      | 11  |                |                 |            |      |
|              | 2 - Construct Air Vent Shaft                    |     |        |       |          |         |            |               |      |       |      |     |                |                 |            |      |
| 05L1BI2418   | Foundation of shaft collar/install pipe for RCD | 1   | 0      | 14    |          |         | 01NOV08*   | 17NOV08       | 0    | -48   |      |     |                |                 |            |      |
| 05L1BI2420   | Mobilize & set up probing                       | 1   | 0      | 2     |          |         | 18NOV08    | 19NOV08       | 0    |       |      | T.  |                |                 |            |      |
| 05L1BI2422   | Probing & curtain grouting around shaft         | 1   | 0      | 16    |          | -       | 20NOV08    | 08DEC08       | 0    |       |      | ¥   |                |                 |            |      |
| 05L1BI2426   | Mobilize & set up RCD for excavation            | 1   | 0      | 6     |          |         | 09DEC08    | 15DEC08       | 0    |       |      | pro | ovision of TT  | А               |            |      |
| 05L1BI2428   | Bore shaft with RCD; 34m @1m/day                | 1   | 0      | 34    |          | -       | 20DEC08    | 04FEB09       | 0    |       |      | -   | e John Of The  |                 |            |      |
| 05L1BI2430   | Demobilize RCD rig                              | 1   | 0      | 6     |          |         | 05FEB09    | 11FEB09       | 0    |       |      |     | provision of 1 | ГТА             |            |      |
| 05L1BI2432   | Install permanent liner                         | 1   | 0      | 12    |          |         | 12FEB09    | 25FEB09       | 0    |       |      |     |                | 1.00            |            |      |
| 05L1BI2434   | Concrete liner                                  | 1   | 0      | 6     |          |         | 26FEB09    | 04MAR09       | 0    |       |      |     |                |                 |            |      |
|              | Construct upstand wall                          | 1   |        |       |          |         | 05MAR09    | 18MAR09       | 0    | _     |      |     |                |                 |            |      |
|              | Construct Man Access Shaft                      |     |        |       |          |         | 33 11 100  | 10.1.2 11 100 |      |       |      | H   |                |                 |            | -    |
| _Acavate o   | OUNG DUCKNICH ACCESS SHALL                      |     | 4      |       |          |         |            |               |      |       |      |     |                |                 |            |      |
| 05L1BI2502   | Sheet piling cofferdam                          | 1   | 24:    | 12    | 01NOV08* | 28NOV08 | 24MAR09    | 07APR09       | 0    | 109   |      |     | o l            |                 |            |      |
| 05L1BI2504   | Probing & curtain grouting around shaft         | 1   |        |       | 29NOV08  | 29DEC08 | 08APR09    | 19MAY09       |      | 109   |      |     | a l            |                 |            |      |
| 05L1BI2506   | Set up for excavation incl. noise enclosure     | - 1 | 0      | 12    |          |         | 20MAY09    | 03JUN09       | -    | 109   |      |     | provision      | of TTA          |            |      |
| 17 000       |   |     | J      | - ' - |          |         | 2011171103 | 00001100      | U    | 109   | 1    |     | -provisioi     | COLUMN STATE    |            |      |

|  | Activity   |   | Target                          |  | Target       | Target      | Early  | Early  |                                      | Total  | 2008 2009 2010 2011  |
|--|--|---|---------------------------------|--|--------------|-------------|--|--|--------------------------------------|--|--|
| OFL 4 DIOSOO   | Description  | ID                                      | Dur                             | Dur  | Start        | Finish      | Start  | Finish   | Comp                                 | Total Control of   |  |
| 05L1BI2522   | Construct base   | 1                                       | 0                               | 4  |              |             | 14SEP10  | 17SEP10  | 0                                    |  | after construction of man access adit                            |
| 05L1BI2524   | Set up for 37m shaft construction (wall only)  | 1                                       | 0                               | 6  |              |             | 18SEP10  | 25SEP10  | 0                                    | 109  |  |
| 05L1BI2526   | Construct wall/stair; 25 landings @ 3 days/land  | 1                                       | 0                               | 75   |              |             | 27SEP10  | 24DEC10  | 0                                    | 109  |  |
| 05L1Bl2530   | Construct wall above ground level  | 1                                       | 0                               | 8  |              |             | 28DEC10  | 06JAN11  | 0                                    | 109  | •                          |
| 05L1BI2532   | Construct shaft roof   | 1                                       | 0                               | 12   |              |             | 07JAN11  | 20JAN11  | 0                                    | 109  | ш ш  |
| Excavate   | & Construct Deaeration Chamber   |   |                                 |  |              |             |  |  |                                      |  |  |
| 05L1BI2602   | Problem (ground out of the control o |   | 100                             | 70   | 04 11 15 100 | 05510100    | 0000700  | 05111110   |                                      |  |  |
|  | Probing/grout/excavate/muckout/temp.support  | 1                                       | 132                             | 72   | 01JUN09      | 05NOV09     | 30OCT09  | 25JAN10  | 0                                    |  | top heading ; 4m deep 17m, @0.2m/day = 72                        |
| 05L1BI2604   | Drill/excavate/muckout/temp. support for bench   | 1                                       | 32                              | 50   | 10SEP10      | 200CT10     | 26JAN10  | 27MAR10  | 0                                    |  | 4.5m deep 22*4.5*3=891m3, 17.8m3/d                               |
| 05L1BI2607   | Drill/excavate/muckout/temp. support for bottom  | 1                                       | 0                               | 50   |              |             | 29MAR10  | 01JUN10  | 0                                    |  | 4.5m deep==22*4.5*9=891m3, 17.8m3                                |
| 05L1BI2608   | Set up for lining construction   | 1                                       | 0                               | 12   |              |             | 02APR11  | 16APR11  | 0                                    |  |  |
| 05L1BI2610   | Construct base; 3 bays   | 1                                       | 0                               | 9  |              |             | 18APR11  | 30APR11  | 0                                    |  |  |
| 05L1BI2612   | Construct walls 2 lifts; 3 bays  | 1                                       | 0                               | 24   |              |             | 02MAY11  | 30MAY11  | 0                                    | -52  |  |
| 05L1Bl2614   | Const. crown/underpin. of air vent & drop shafts   | 1                                       | 0                               | 18   |              |             | 31MAY11  | 21JUN11  | 0                                    | -52  | 8  |
| Excavate   | & Construct Main Adit Tunnel   |   | 1                               |  |              | بناني       |  |  |                                      |  |  |
| 3BL1Bl2102   | Problem/grout/temp. overset/ov |   | 200                             | 200  | 001101/00    | 40 11 11 40 | 00 11 11 14 0  | 00111111   |                                      |  |  |
|  | Probing/grout/temp. support/excavation/muck out  | 1                                       | 200                             | 200  | 06NOV09      | 13JUL10     | 02JUN10  | 29JAN11  | 0                                    |  | 60m @ 0.3m/da  |
| 3BL1Bl2104   | Construct permanent lining   | 1                                       | 50                              | 50   | 14JUL10      | 09SEP10     | 31JAN11  | 01APR11  | 0                                    | -52  |  |
| Excavate   | & Construct Man Access Adit  |   | 1                               |  |              |             |  |  |                                      |  |  |
| 05L1BI2802   | Remove working platform & install temp, ladder   | 1                                       | 240                             | 12   | 06NOV09      | 28AUG10     | 04NOV09  | 17NOV09  | 0                                    | 109  |  |
| 05L1BI2806   | Probing/gorut/excavate/muckout/temporary support   | 1                                       | 20                              | 90   | 27NOV10      | 44 100144   | 401101100  | 09MAR10  | - 34                                 | 109  | 26m, @ 0,5m/day & night  |
|  |  |   | 36                              |  |              | TIJANTI     | 18NOV09  |  |                                      |  |  |
|  | Set up for 7.2m raise (shaft) excavation   |   | 30                              |  | 27110110     | 11JAN11     | 18NOV09<br>10MAR10   |  |                                      |  |  |
| 05L1BI2808   | Set up for 7.2m raise (shaft) excavation  Excavate/removal of rock/temporary support   | 1                                       | 0                               | 2  | 27110710     | TIJANTI     | 10MAR10  | 11MAR10  | 0                                    | 109  |  |
| 05L1BI2808<br>05L1BI2810   | Excavate/removal of rock/temporary support   |   | 0                               | 2<br>24  | 2110010      | TIJANTI     | 10MAR10<br>12MAR10   | 11MAR10<br>13APR10   | 0                                    | 109<br>109   | I<br>@ 0.3m/day & night  |
| 05L1BI2808<br>05L1BI2810<br>05L1BI2812   | Excavate/removal of rock/temporary support<br>Set up for 9.3m lower adit excavation  | 1                                       | 0                               | 2<br>24<br>2                                       | 27110110     | TIJANTI     | 10MAR10<br>12MAR10<br>14APR10  | 11MAR10<br>13APR10<br>15APR10  | 0                                    | 109<br>109<br>109  | l<br>■@ 0.3m/day & night   |
| 05L1BI2808<br>05L1BI2810<br>05L1BI2812<br>05L1BI2814   | Excavate/removal of rock/temporary support   | 1 1 1                                   | 0 0                             | 2<br>24  | ZNOVIO       | TIJANTI     | 10MAR10<br>12MAR10<br>14APR10<br>16APR10   | 11MAR10<br>13APR10<br>15APR10<br>24MAY10   | 0<br>0<br>0                          | 109<br>109<br>109<br>109   |  |
| 05L1BI2808<br>05L1BI2810<br>05L1BI2812<br>05L1BI2814<br>05L1BI2816   | Excavate/removal of rock/temporary support Set up for 9.3m lower adit excavation Excavate/removal of rock/temporary support Set up for 7m lower adit construction  | 1 1 1 1 1                               | 0<br>0<br>0<br>0                | 2<br>24<br>2<br>31<br>6                            | ZNOVIO       | TIJANTI     | 10MAR10<br>12MAR10<br>14APR10<br>16APR10<br>25MAY10  | 11MAR10<br>13APR10<br>15APR10<br>24MAY10<br>31MAY10  | 0<br>0<br>0<br>0                     | 109<br>109<br>109<br>109<br>109                                    | l<br>■@ 0.3m/day & night   |
| 05L1BI2808   | Excavate/removal of rock/temporary support Set up for 9.3m lower adit excavation Excavate/removal of rock/temporary support Set up for 7m lower adit construction Construction of permanent lining   | 1 1 1                                   | 0<br>0<br>0<br>0<br>0           | 2<br>24<br>2<br>31                                 | ZNOVIO       | TIJANTI     | 10MAR10<br>12MAR10<br>14APR10<br>16APR10<br>25MAY10<br>01JUN10   | 11MAR10<br>13APR10<br>15APR10<br>24MAY10<br>31MAY10<br>24JUN10   | 0<br>0<br>0<br>0                     | 109<br>109<br>109<br>109<br>109<br>109                             | I<br>□@ 0.3m/day & night<br>□@0.3m/day & night<br>I              |
| 05L1BI2808<br>05L1BI2810<br>05L1BI2812<br>05L1BI2814<br>05L1BI2816<br>05L1BI2818<br>05L1BI2822   | Excavate/removal of rock/temporary support Set up for 9.3m lower adit excavation Excavate/removal of rock/temporary support Set up for 7m lower adit construction Construction of permanent lining Construct base of raise shaft   | 1 1 1 1 1                               | 0<br>0<br>0<br>0<br>0<br>0      | 2<br>24<br>2<br>31<br>6<br>20<br>4                 | ZNOVIO       | TIJANTI     | 10MAR10<br>12MAR10<br>14APR10<br>16APR10<br>25MAY10<br>01JUN10<br>25JUN10                                  | 11MAR10<br>13APR10<br>15APR10<br>24MAY10<br>31MAY10<br>24JUN10<br>29JUN10                                  | 0<br>0<br>0<br>0<br>0                | 109<br>109<br>109<br>109<br>109<br>109<br>109                      | I<br>□@ 0.3m/day & night<br>□@0.3m/day & night<br>I              |
| 05L1BI2808<br>05L1BI2810<br>05L1BI2812<br>05L1BI2814<br>05L1BI2816<br>05L1BI2818<br>05L1BI2822<br>05L1BI2824   | Excavate/removal of rock/temporary support Set up for 9.3m lower adit excavation Excavate/removal of rock/temporary support Set up for 7m lower adit construction Construction of permanent lining Construct base of raise shaft Set up for 9m raise stairway const. (wall only)   | 1 1 1 1 1 1 1 1 1                       | 0<br>0<br>0<br>0<br>0<br>0      | 2<br>24<br>2<br>31<br>6<br>20<br>4<br>2            | ZNOVIO       | TIJANTI     | 10MAR10<br>12MAR10<br>14APR10<br>16APR10<br>25MAY10<br>01JUN10<br>25JUN10<br>30JUN10                       | 11MAR10<br>13APR10<br>15APR10<br>24MAY10<br>31MAY10<br>24JUN10<br>29JUN10<br>02JUL10                       | 0<br>0<br>0<br>0<br>0<br>0           | 109<br>109<br>109<br>109<br>109<br>109<br>109                      | I<br>□@ 0.3m/day & night<br>□@0.3m/day & night<br>I              |
| 05L1BI2808<br>05L1BI2810<br>05L1BI2812<br>05L1BI2814<br>05L1BI2816<br>05L1BI2818<br>05L1BI2822<br>05L1BI2824<br>05L1BI2826   | Excavate/removal of rock/temporary support Set up for 9.3m lower adit excavation Excavate/removal of rock/temporary support Set up for 7m lower adit construction Construction of permanent lining Construct base of raise shaft Set up for 9m raise stairway const. (wall only) Construct wall & stair; 7 landings @4days/landin  | 1 1 1 1 1 1 1 1 1 1 1 1 1               | 0<br>0<br>0<br>0<br>0<br>0<br>0 | 2<br>24<br>2<br>31<br>6<br>20<br>4<br>2<br>28      | ZNOVIO       | TIJANTI     | 10MAR10<br>12MAR10<br>14APR10<br>16APR10<br>25MAY10<br>01JUN10<br>25JUN10<br>30JUN10<br>03JUL10            | 11MAR10<br>13APR10<br>15APR10<br>24MAY10<br>31MAY10<br>24JUN10<br>29JUN10<br>02JUL10<br>04AUG10            | 0<br>0<br>0<br>0<br>0<br>0<br>0      | 109<br>109<br>109<br>109<br>109<br>109<br>109<br>109               | I<br>□@ 0.3m/day & night<br>□@0.3m/day & night<br>I              |
| 05L1BI2808<br>05L1BI2810<br>05L1BI2812<br>05L1BI2814<br>05L1BI2816<br>05L1BI2818<br>05L1BI2822<br>05L1BI2824<br>05L1BI2826<br>05L1BI2830                             | Excavate/removal of rock/temporary support Set up for 9.3m lower adit excavation Excavate/removal of rock/temporary support Set up for 7m lower adit construction Construction of permanent lining Construct base of raise shaft Set up for 9m raise stairway const. (wall only) Construct wall & stair; 7 landings @4days/landin Set up for 23m upper adit construction   | 1 | 0<br>0<br>0<br>0<br>0<br>0<br>0 | 2<br>24<br>2<br>31<br>6<br>20<br>4<br>2<br>28<br>2 | ZNOVIO       | TIJANTI     | 10MAR10<br>12MAR10<br>14APR10<br>16APR10<br>25MAY10<br>01JUN10<br>25JUN10<br>30JUN10<br>03JUL10<br>05AUG10 | 11MAR10<br>13APR10<br>15APR10<br>24MAY10<br>31MAY10<br>24JUN10<br>29JUN10<br>02JUL10<br>04AUG10<br>06AUG10 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 109<br>109<br>109<br>109<br>109<br>109<br>109<br>109<br>109        | I<br>■@ 0.3m/day & night<br>IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII |
| 05L1BI2808<br>05L1BI2810<br>05L1BI2812<br>05L1BI2814<br>05L1BI2816<br>05L1BI2818<br>05L1BI2822<br>05L1BI2824<br>05L1BI2826<br>05L1BI2830<br>05L1BI2834               | Excavate/removal of rock/temporary support Set up for 9.3m lower adit excavation Excavate/removal of rock/temporary support Set up for 7m lower adit construction Construction of permanent lining Construct base of raise shaft Set up for 9m raise stairway const. (wall only) Construct wall & stair; 7 landings @4days/landin Set up for 23m upper adit construction Construction of permanent lining  | 1 1 1 1 1 1 1 1 1 1 1 1 1               | 0<br>0<br>0<br>0<br>0<br>0<br>0 | 2<br>24<br>2<br>31<br>6<br>20<br>4<br>2<br>28      | ZNOVIO       | TIJANTI     | 10MAR10<br>12MAR10<br>14APR10<br>16APR10<br>25MAY10<br>01JUN10<br>25JUN10<br>30JUN10<br>03JUL10            | 11MAR10<br>13APR10<br>15APR10<br>24MAY10<br>31MAY10<br>24JUN10<br>29JUN10<br>02JUL10<br>04AUG10<br>06AUG10 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 109<br>109<br>109<br>109<br>109<br>109<br>109<br>109               | I<br>□@ 0.3m/day & night<br>□@0.3m/day & night<br>I              |
| 05L1BI2808<br>05L1BI2810<br>05L1BI2812<br>05L1BI2814<br>05L1BI2816<br>05L1BI2818<br>05L1BI2822<br>05L1BI2824<br>05L1BI2824<br>05L1BI2826<br>05L1BI2830<br>05L1BI2834 | Excavate/removal of rock/temporary support Set up for 9.3m lower adit excavation Excavate/removal of rock/temporary support Set up for 7m lower adit construction Construction of permanent lining Construct base of raise shaft Set up for 9m raise stairway const. (wall only) Construct wall & stair; 7 landings @4days/landin Set up for 23m upper adit construction   | 1 | 0<br>0<br>0<br>0<br>0<br>0<br>0 | 2<br>24<br>2<br>31<br>6<br>20<br>4<br>2<br>28<br>2 | ZNOVIO       | TIJANTI     | 10MAR10<br>12MAR10<br>14APR10<br>16APR10<br>25MAY10<br>01JUN10<br>25JUN10<br>30JUN10<br>03JUL10<br>05AUG10 | 11MAR10<br>13APR10<br>15APR10<br>24MAY10<br>31MAY10<br>24JUN10<br>29JUN10<br>02JUL10<br>04AUG10<br>06AUG10 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 109<br>109<br>109<br>109<br>109<br>109<br>109<br>109<br>109        | I<br>■@ 0.3m/day & night<br>IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII |
| 05L1BI2808<br>05L1BI2810<br>05L1BI2812<br>05L1BI2814<br>05L1BI2816<br>05L1BI2818<br>05L1BI2822<br>05L1BI2824<br>05L1BI2826<br>05L1BI2830<br>05L1BI2834               | Excavate/removal of rock/temporary support Set up for 9.3m lower adit excavation Excavate/removal of rock/temporary support Set up for 7m lower adit construction Construction of permanent lining Construct base of raise shaft Set up for 9m raise stairway const. (wall only) Construct wall & stair; 7 landings @4days/landin Set up for 23m upper adit construction Construction of permanent lining  | 1 | 0<br>0<br>0<br>0<br>0<br>0<br>0 | 2<br>24<br>2<br>31<br>6<br>20<br>4<br>2<br>28<br>2 | 12JAN11      | 25JAN11     | 10MAR10<br>12MAR10<br>14APR10<br>16APR10<br>25MAY10<br>01JUN10<br>25JUN10<br>30JUN10<br>03JUL10<br>05AUG10 | 11MAR10<br>13APR10<br>15APR10<br>24MAY10<br>31MAY10<br>24JUN10<br>29JUN10<br>02JUL10<br>04AUG10<br>06AUG10 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 109<br>109<br>109<br>109<br>109<br>109<br>109<br>109<br>109<br>109 | I<br>■@ 0.3m/day & night<br>IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII |

| ID              | Activity Description   | Cal | Target<br>Dur | Orig | Target<br>Start | Target<br>Finish | Early<br>Start | Early    | %<br>Comp | Total      | 2008 2009                          | 2010                                    | 2011                   | 2012                  |
|-----------------|--|-----|---------------|------|-----------------|------------------|----------------|----------|-----------|------------|------------------------------------|---|------------------------|-----------------------|
|                 |  | עוו | Dur           | Dur  | Start           | Finish           | Start          | Finish   | Comp      | Float      |                                    |   |                        |                       |
| kemaining       | Works Prior to Handover  |     |               |      |                 |                  |                |          |           |            |                                    |   |                        |                       |
| 08R1BI2102      | Finishing & reinstatement works; Portion B   | 1   | 48            | 36   | 18APR11         | 17JUN11          | 09AUG11        | 20SEP11  | 0         | -52        |                                    |   | ==                     |                       |
| 08R1BI2103      | Pre-handover inspections and remedial works  | 1   | 48            | 30   | 20MAY11         | 16JUL11          | 23AUG11        | 27SEP11  | 0         | - Constant |                                    |   |                        |                       |
| 08R1BI2104      | Contractor serve notice for Works completion   | 2   | 7             |      | 17JUL11         | 23JUL11          | 28SEP11        | 04OCT11  | 0         | 555        |                                    |   | 2.                     |                       |
| 08R1BI2105      | SO issues completion certificate   | 2   | 21            | 21   | 24JUL11         | 13AUG11          | 05OCT11        | 25OCT11  | 0         | E90000     |                                    |   | (a II)                 |                       |
| 16R7BI2102      | Landscaping works at Portion B   | 1   | 72            |      | 18APR11         | 16JUL11          | 05JUL11        | 27SEP11  | 0         | (278) P3   |                                    |   |                        |                       |
| 16R7BI2104      | Establishment Works at Portion B   | 2   | 365           | 365  | 17JUL11         | 15JUL12          | 28SEP11        | 26SEP12  | 0         | 550000     |                                    |   |                        |                       |
| 3DL1BI2101      | Install flow measurement devices at Intake I-2   | 1   | 24            | 12   | 13MAY11         | 10JUN11          | 11AUG11        | 24AUG11  | 0         |            |                                    |   | = ¥                    |                       |
| 3DL1BI2105      | Maintain & monitor flow monitoring   | 2   |               |      | 11JUN11         | 09JUN12          |                | 23AUG12  | 0         |            |                                    |   |                        |                       |
| STATE OF STREET | of Milestones for Cost Centre No. 3bL  |     |               |      |                 | 00001112         | 20/10/07/      | 20,10012 |           |            |                                    |   |                        |                       |
| oncuere (       | or minestories for Good General fior GDE   |     | _             | _    |                 |                  |                |          |           |            |                                    |   |                        |                       |
| 3BL1BI2A02      | 3bL 1; On establishing tunnelling equipments   | 2   | 0             | 0    |                 | 05NOV09          |                | 08JUN10  | 0         | 936        | 4                                  | ◆equipment                              | for tunnelling         | at Intake             |
| 3BL1Bl2A04      | 3bL 2; On completion of 12.5% perm. tunnel linin   | 2   | 0             | 0    | -               | 20JUL10          |                | 20JUL10  | 0         |            |                                    |   | unnel at Inta          |                       |
| 3BL1BI2A06      | 3bL 3; On completion of 25% perm. tunnel lining  | 2   | 0             | 0    | -               | 27JUL10          | -              | 30AUG10  | 0         | (32500)    |                                    |   | Tunnel at In           |                       |
| 3BL1BI2A08      | 3bL 4; On completion of 37.5% perm. tunnel linin   | 2   | 0             | 0    |                 | 04AUG10          |                | 12OCT10  | (3)       | 810        |                                    | 10.38004020                             | dit Tunnel at I        |                       |
| 3BL1BI2A10      | 3bL 5; On completion of 50% perm. tunnel lining  | 2   | 0             | 0    |                 | 11AUG10          |                | 23NOV10  | 0         | 040103143  |                                    |   | Adit Tunnel a          | and the second second |
| 3BL1BI2A12      | 3bL 6; On completion of 62.5% perm. tunnel linin   | 2   | 0             | 0    |                 | 19AUG10          |                | 06JAN11  | 0         | (BOEAE)    |                                    | 100000000000000000000000000000000000000 | r Adit Tunnel          | G101/10012100-1001    |
| 3BL1BI2A14      | 3bL 7; On completion of 75% perm. tunnel lining  | 2   | 0             | 0    |                 | 26AUG10          | -              | 19FEB11  | 0         |            | for Adit Tun                       | nel at Intake I-2                       | , ridit ratifica       | at make               |
| 3BL1BI2A16      | 3bL 8; On completion of 87.5% perm. tunnel linin   | 2   | 0             | 0    |                 | 02SEP10          | -              | 21MAR11  | 0         |            |                                    | nnel at Intake I-2                      |                        |                       |
| 3BL1BI2A18      | 3bL 9; On completion of perm. tunnel lining  | 2   | 0             | 0    |                 | 09SEP10          |                | 01APR11  | 0         | 100000     | 10.50 00.000.000.000               | innel at Intake I-2                     | 7                      |                       |
| 3BL1BI2A20      | 3bL 10; On completion of all works under this CC   | 2   | 0             | 0    |                 | 11MAR11          |                | 20AUG11  |           | 498        |                                    | under this Cost Ge                      | 1                      |                       |
|                 | of Milestones for Cost Centre No. 5L   |     |               |      |                 | 7.1100.05.1.1    |                | 20/10071 |           | 400        |                                    |   |                        | +                     |
| ochedule (      | or winestones for cost centre No. 3E   |     |               |      |                 |                  |                |          |           |            |                                    |   |                        |                       |
| 05L1BI2M02      | 5L 1; On completion of 25% of excavation   | 2   | 0             | 0    |                 | 30MAY09          |                | 03NOV09  | 0         | 1,153      | . <b>•</b> b                       | elow G.L except for                     | or Adit at Inta        | ke I-2                |
| 05L1BI2M04      | 5L 2; On completion of 50% of excavation   | 2   | 0             | 0    |                 | 14SEP09          | t              | 04FEB09  |           | 1,425      |                                    | except for Adit at Ir                   | A CONTRACTOR OF STREET | 16.35.07 (FBO)        |
| 05L1BI2M06      | 5L 3; On completion of 75% of excavation   | 2   | 0             | 0    |                 | 09MAR10          |                | 25JAN10  |           | 1,070      | 1 2 mg 10 ga 27 g 1 cong 1 ga 25 g | belowe G.L. exc                         | ALDERCO AL VISCO       | t Intake I-           |
| 05L1BI2M08      | 5L 4; On completion of all excavation  | 2   | 0             | 0    |                 | 28AUG10          |                | 27MAR10  |           | 1,009      |                                    | ♦below G.L. ex                          |                        |                       |
| 05L1BI2M10      | 5L 5; On completion of drop shaft & vortex shaft   | 2   | 0             | 0    |                 | 11FEB11          |                | 25JUL11  |           | 524        | vo                                 | rtex shaft at Intake                    |                        | 17.1346.134.11        |
| 05L1BI2M12      | 5L 6; On completion of de-aeration chamber   | 2   | 0             | 0    |                 | 20OCT10          |                | 21JUN11  |           | 558        |                                    |   | chambe                 | r at Intake           |
| 05L1BI2M14      | 5L 7; On completion of air vent shaft  | 2   | 0             | 0    |                 | 08JAN11          |                | 18MAR09  |           | 1,383      | shaft at Ini                       | ake I-2                                 |                        |                       |
| 05L1Bl2M16      | 5L 8; On completion of man access shaft  | 2   | 0             | 0    |                 | 02MAR11          |                | 20JAN11  |           | 710        |                                    | ♦ sl                                    | haft at Intake         | 1-2                   |
| 05L1BI2M18      | 5L 9; On completion of man access adit   | 2   | 0             | 0    |                 | 11JAN11          |                | 13SEP10  | 0         | 839        |                                    | adit at                                 | Intake I-2             | The second            |
| 05L1BI2M20      | _   100 to 100 t | 2   | 0             | 0    |                 | 16JUL11          |                | 27SEP11  |           | 460        |                                    | under this Cost C                       |                        |                       |
|                 | of Milestones for Cost Centre No. 8R   |     |               |      |                 |                  |                |          | TELL      |            |                                    |   |                        |                       |
|                 |  |     |               |      |                 |                  |                |          |           |            |                                    |   |                        |                       |
| 08R1BI2R02      | 8R 1; On completion of approach channel  | 2   | 0             | 0    |                 | 12MAY11          | 1              | 22AUG11  | 0         | 496        | channel and assiciate              | d decking at Intak                      | e 1-2                  |                       |
| 08R1Bl2R04      | 8R 2; On completion of trash grill   | 2   | Ô             | 0    |                 | 25FEB11          |                | 18APR11  | 0         |            |                                    | 1.0                                     | at Intake 1-           | 2                     |
| 08R1BI2R06      | 8R 3; On completion of all works under this CC   | 2   | 0             | 0    |                 | 16JUL11          |                | 27SEP11  | 0         | 460        |                                    | under this Cost C                       | entre                  |                       |

| ID.          | Activity   | Cal | Target       | Orig | Target        | Target                                  | Early    | Early     | % Total    | 2008              | 2009                                  | 2010              | 2011          | 20      |
|--------------|--|-----|--------------|------|---------------|---|----------|-----------|------------|-------------------|---------------------------------------|-------------------|---------------|---------|
| 7 N          | Description  | ID  | Dur          | Dur  | Start         | Finish                                  | Start    | Finish    | Comp Float |                   |                                       |                   |               |         |
| chedule (    | of Milestones for Cost Centre No. 12R  |     | -11          |      |               |   |          |           |            |                   |                                       |                   |               |         |
|              |  | 4   |              |      |               |   |          |           |            | III               | 121 - 772 - NAX - 77 - 1292           |                   |               |         |
| 2R3BI2S02    | 12R 1; On completion of 50% pile retain, wall  | 2   | 0            |      | -             | 14JUL08                                 |          | 06NOV08   | 0 1,515    | 1.00              | wall at Intake I-2                    |                   |               |         |
| 12R3BI2S04   | 12R 2; On completion of pile retain, wall  | 2   | 0            | _    |               | 13SEP08                                 |          | 29NOV08   | 0 1,492    |                   | <ul> <li>wall at Intake I-</li> </ul> | 2                 |               |         |
| 12R3BI2S06   | 12R 3; On completion of boulder traps  | 2   | 0            |      |               | !11MAR11                                |          | 19MAR11   | 0 652      |                   |                                       |                   | traps at Inta | ike I-2 |
|              |  | 2   | 0            | 0    |               | 16JUL11                                 |          | 27SEP11   | 0 460      |                   |                                       | under this Cost C | entre 🔷       |         |
| Construct    | tion of Intake I-3   |     | 4            | ΞĒ   |               |   |          |           |            |                   |                                       |                   |               |         |
| Preliminar   | y Works  |     |              |      |               |   |          |           |            |                   |                                       |                   |               |         |
|              |  |     |              |      |               |   |          |           |            | 1                 |                                       |                   |               |         |
| 01R1Cl3102   | Possession of Portion C -90d of DOC  | 2   | 0            | 0    | V .           |   | 26MAR08A |           | 100        | •                 |                                       |                   |               |         |
| 01R1Cl3104   | Site clearance   | 1   | 0            | 40   | 1             |   | 22APR08A | 20SEP08   | 50 0       |                   | <b>=</b>                              |                   |               |         |
| 01R1Cl3106   | Haording at slope crest  | 1   | 0            | 48   |               |   | 03JUN08A | 30JUL08A  | 100        | Pinglam<br>Igan ( |                                       |                   |               |         |
| 01R1Cl3108   | Erect chain link fence enclosing the Site  | 1   | 0            | 60   |               | 26MAR08                                 | 22SEP08  | 02DEC08   | 0 0        |                   |                                       |                   |               |         |
| 01R1Cl3110   | Set-up wheel washing facilities  | 1   | . 0          | 6    |               | 06MAR08                                 | 30JUN08A | 03JUL08A  | 100        | - 1               |                                       |                   |               |         |
| 01R1Cl3118   | Install remote contorl CCTV as per ER 4.4.10   | 1   | 30           | 12   | 27MAR08       | 02MAY08                                 | 22SEP08  | 06OCT08   | 0 0        | -                 | 1                                     |                   |               |         |
| Tree Trans   | splanting Works  |     | The state of |      |               | 00 1                                    |          |           |            |                   |                                       |                   |               | T       |
|              |  |     |              |      |               |   |          |           |            |                   |                                       |                   |               |         |
| 16R7Cl3202   | Tree inspection & report   | 2   | 72           | 7    | 27MAR08       | 23JUN08                                 | 01APR08A | 26APR08A  | 100        |                   |                                       |                   |               |         |
| 16R7Cl3204   | Tree transplant for upper parts; 8 nos.  | 1   | 72           | 86*  | 22APR08       | 18JUL08                                 | 04JUN08A |           | 83 147     |                   |                                       |                   |               |         |
| 16R7Cl3206   | 1st stg tree pruning   | 1   | 0            | 2    | postuli (125) | (A) |          | 21JUN08A  |            | 1                 |                                       |                   |               |         |
| 16R7Cl3208   | 2nd stg tree pruning   | 1   | 0            | 2    |               |   | 04JUL08A |           | 100        |                   |                                       |                   |               |         |
| 16R7Cl3210   | Final stg. tree pruning & tree uplifting   | 1   | 0            | 6    |               |   | 08SEP08  | 13SEP08   | 0 147      |                   |                                       |                   |               |         |
| 16R7Cl3212   | Tree transplanting at Ch250-Ch200); 20 nos.  | 1   | 0            |      | <u> </u>      | <u> </u>                                | 21JUN08A |           | 38 145     | 100               |                                       |                   | 11            |         |
| 16R7Cl3214   | 1st stg tree pruning   | 1   | 0            | 3    |               |   | 21JUN08A |           | 100        | H                 |                                       |                   |               |         |
| 16R7Cl3216   | 2nd stg tree pruning   | 1   | 0            | 3    |               |   | 15JUL08A |           | 50 145     |                   |                                       |                   |               |         |
| 16R7Cl3218   | Final stg tree pruning & tree uplifting  | 1   | . 0          | 8    |               |   |          | 19DEC08   | 0 145      |                   |                                       |                   |               |         |
| 16R7Cl3220   | Tree transplanting at Ch100-Ch0; 33 nos.   | 1   |              | 66*  |               | -                                       | 04DEC08  | 25FEB09   | 0 536      |                   |                                       |                   |               |         |
| 16R7Cl3222   | 1st stg tree pruning   | 1   | 0            | 4    |               |   | 04DEC08  | 08DEC08   | 0 536      |                   | 4                                     |                   |               |         |
| 16R7Cl3224   | 2nd stg tree pruning   | 1   | 0            | 4    |               |   | 09JAN09  | 13JAN09   | 0 536      |                   | 1                                     |                   |               |         |
| 16R7Cl3226   | Final stg tree pruning & tree uplifting  | 1   | 0            | 10   |               |   | 14FEB09  | 25FEB09   | 0 536      |                   | II.                                   |                   |               |         |
| I-Pile Reta  | aining Wall for Wall A   |     |              |      | ليرسالا       |   |          |           |            |                   |                                       |                   |               |         |
| Piling Works |  |     |              |      |               |   |          |           |            |                   |                                       |                   |               |         |
|              | Mobilize & set up piling rig   | 1   | 0            | 6    |               |   | 11AUG08A | 16AUG084  | 100        |                   |                                       |                   |               |         |
|              | 350mm dia. pre-bored H-piles, Wall A; 347nos.  | 1   |              | 80   |               | <del></del>                             | 18AUG08A |           | 6 145      |                   | @ 2 5nos niles/ri                     | n day use 2 rine  |               |         |
| Skin Wall    | The state of the s |     |              | 00   |               |   | 10/1000A | 20110 700 | 0 140      |                   | @ 2.5nos piles/ri                     | g day, use z ngs  |               | +       |
| 13R4Cl3406   | Excavate for skin wall construction; 2130m3  | 1   | 0            | 60   |               |   | 27SEP08  | 08DEC08   | 0 145      |                   | 1                                     |                   |               |         |
| 13R4Cl3408   | Hack off piles; piles 1 to 347   | 1   | 0            | 60   |               |   | 14OCT08  |           | 0 597      |                   |                                       |                   |               |         |
| 13R4Cl3410   | Construct skin wall;   | 1   | 0            | 60   |               | -                                       |          | 08JAN09   | 0 597      |                   |                                       |                   |               |         |
| 13R4Cl3412   |  | 142 |              |      |               |   |          |           |            |                   |                                       |                   |               |         |
| 1314013412   | Excavate for capping beams,  | - 1 | 0            | 24   |               |   | 23DEC08  | ZZJAN09   | 0 597      |                   | 4                                     |                   |               |         |

| ID                         | Activity Description                             | Cal     | Target<br>Dur | Orig<br>Dur | Target<br>Start | Target<br>Finish | Early<br>Start | Early<br>Finish | %<br>Comp | Total   | 2008  | 2009           | 2010                                   | 2011             | 2012 |
|----------------------------|--|---------|---------------|-------------|-----------------|------------------|----------------|-----------------|-----------|---------|-------|----------------|--|------------------|------|
| 3R4Cl3414                  | Construct for capping beams;                     | 1       | Dur 0         | 24          | Start           | rinisn           | 02JAN09        | 02FEB09         |           | 597     |       |                |  |                  |      |
| 3R4Cl3416                  | Construct U-channels                             | 1       | 0             |             |                 |                  | 09JAN09        | 09FEB09         |           | 597     |       |                |  |                  |      |
|                            |  | T-12-0- | U             | 24          |                 |                  | USJANUS        | USFEDUS         | U         | 397     | _     | 01             |  |                  |      |
| oil Nailin                 | g Works  |         |               |             |                 |                  |                |                 |           |         |       |                |  |                  |      |
| Soil Nailing               | Without Earthwork                                |         |               |             |                 |                  |                |                 |           |         |       |                |  |                  |      |
| 13R1Cl3502                 | Scaffolding platform for soil nailing            | 1       | 0             | 18          |                 |                  | 08SEP08        | 29SEP08         | - N.      | 633     | 1     |                |  |                  |      |
| 3R1Cl3504                  | Mobilize & set up drilling & grouting plants     | 1       | 0             | 4           |                 |                  | 12SEP08        | 17SEP08         | 0         | 1000000 | u u   |                |  |                  |      |
| 3R1Cl3506                  | Install & grout soil nails; 431 nos. + 9 Test N. | 1       | 0             | 69          |                 |                  | 18SEP08        | 09DEC08         | 0         | 633     | 5     | 7 nos./day + 7 | days for initial                       | test nails       |      |
| Soil Nailing               | After Earthwork at ARCH 210-270                  |         |               |             |                 |                  |                |                 |           |         |       |                |  |                  |      |
| 3R1Cl3508                  | Install & grout soil nails; 153 nos. + 3 Test N. | 1       | 0             | 29          |                 |                  | 27DEC08*       | 03FEB09         | 0         | 620     |       |                | 7 days for initi                       | al test nails    |      |
|                            | After Earthwork at Turning Area                  |         |               |             |                 |                  |                |                 |           |         |       |                |  |                  |      |
| 3R1Cl3510                  | Install & grout soil nails; 149 nos. + 4 Test N. | 1       | 0             | 28          |                 |                  | 19JAN09*       | 23FEB09         | 0         | 603     |       | ■7 nos./day    | + 7 days for init                      | tial test nails  |      |
| Soil Nailing               | After Earthwork at ARCH 90-0                     |         |               |             |                 |                  |                |                 |           |         |       |                |  |                  |      |
| 3R1Cl3512                  | Install & grout soil nails; 304 nos. + 11 Test N | 1       | 0             | 30          |                 |                  | 14FEB09*       | 20MAR09         | 0         | 510     | use 2 | rigs■7 nos./da | / + 7 days for in                      | itial test nails |      |
| ccess Ro                   | ad Construction                                  |         |               |             |                 |                  |                |                 |           |         |       |                |  |                  |      |
| Phase 1                    |  |         |               |             |                 |                  |                |                 |           |         |       |                |  |                  |      |
| 9R1Cl3602                  | Excavate/backfill access road: Ch 460 to 260     | 1       | 0             | 50          |                 |                  | 14OCT08        | 10DEC08         | 0         | 145     | a     | चुन            |  |                  |      |
| 9R1Cl3604                  | Drainage work from Ch460 to 260; 200m            | 1       | 0             | 50          |                 |                  | 02NOV09*       | 31DEC09         |           | 284     |       |                | CH260-460                              |                  |      |
| 9R1Cl3606                  | Backfill & prepare road formation; CH460-260     | 1       | 0             | 18          |                 |                  | 02JAN10        | 22JAN10         |           | 331     |       |                |  |                  |      |
| 9R1Cl3608                  | Laying of Sub-base/Road Kerbs; CH460-260         | 1       | 0             | 16          |                 | ļ                | 01APR10        | 23APR10         | _         | 284     |       |                | sub-base                               | 150mm thick      |      |
| 9R1Cl3610                  | Concrete paving; CH460-260                       | 1       | 0             | 16          |                 |                  | 05MAY10        | 24MAY10         | 0         |         |       |                | ■150mm                                 | thick            |      |
| 9R1Cl3614                  | Excavate/backfill access road; Ch 260 to 0       | 1       | 0             | 50          |                 |                  | 11DEC08        | 13FEB09         | 0         | 145     |       |                | 247-7                                  |                  |      |
| 9R1Cl3616                  | Construction of Drainage System; CH0-260         | 1       | 0             | 65          |                 |                  | 02JAN10        | 22MAR10         | 0         | 284     |       |                | **                                     |                  |      |
| 9R1Cl3618                  | Backfill & prepare road formation; CH0-260       | 1       | 0             | 24          |                 |                  | 23MAR10        | 23APR10         | 0         |         |       |                |  |                  |      |
| 9R1Cl3620                  | Laying of Sub-base/Road Kerbs; CH0-260           | 1       | 0             | 24          |                 |                  | 24APR10        | 24MAY10         | 0         |         |       |                |  |                  |      |
| 9R1Cl3622                  | Concrete paving; CH0-260                         | 1       | 0             | 24          |                 |                  | 25MAY10        | 22JUN10         | 0         | 284     |       |                | ************************************** |                  |      |
| I3R1CI3612                 | Boulder Treatment: 5050m3                        | 1       | 0             | 60          |                 |                  | 11DEC08        | 25FEB09         | 0         | 536     |       | 086            |  |                  |      |
| Dila Pate                  | aining Wall for Wall B                           |         |               |             |                 |                  |                |                 |           |         |       |                |  |                  |      |
|                            |  |         | -             |             |                 |                  |                |                 |           |         |       |                |  |                  |      |
| Piling Works<br>13R4Cl3702 | : Mobilize & set up piling rig                   | 1       | 0             | 6           |                 |                  | 21MAR09        | 27MAR09         | 0         | 510     |       |                |  |                  |      |
| 3R4Cl3702                  | 350mm dia. pre-bored H-piles, Wall B; 98 nos.    | + +     | 0             |             |                 |                  | 28MAR09        | 05JUN09         | 3.53      | 510     |       | 2 nos.         | nilo/ria                               |                  |      |
| THE RESERVE                | 350mm dia. pre-bored A-piles, vvali b, 96 nos.   |         | U             | 33          |                 |                  | ZOWARUS        | 00001109        | U         | 310     |       | 21105.         | pile/flg                               |                  | -    |
| Skin Wall                  | Everyate for akin walls 40-2                     |         | 0             | 10          |                 |                  | OC II INIOO    | 26 11 15100     | _         | 510     |       | R              |  |                  |      |
| 3R4Cl3706                  | Excavate for skin wall; 48m3                     | 1       | 0             |             |                 |                  | 06JUN09        | 26JUN09         | _         | 510     |       | ED             |  |                  |      |
| 3R4Cl3708                  | Hack off piles; piles 1 to 106                   | 1       | - 0           | 24          |                 |                  | 20JUN09        | 18JUL09         | 0         |         |       |                |  |                  |      |
| 3R4Cl3710                  | Construct skin wall;                             | 1       | . 0           | 24          |                 |                  | 06JUL09        | 01AUG09         |           | 510     |       |                |  |                  |      |
| 3R4Cl3712                  | Excavate for capping beams;                      | 1       | 0             | 24          |                 |                  | 03AUG09        | 29AUG09         | 0         |         |       |                |  |                  |      |
| 3R4CI3714                  | Construct for capping beams;                     | 1       | 0             | 24          |                 |                  | 10AUG09        | 05SEP09         | 0         |         |       |                |  |                  |      |
| 13R4Cl3716                 | Construct U-channels                             | 1       | 0             | 24          |                 |                  | 17AUG09        | 12SEP09         | 0         | 510     |       |                |  |                  |      |

| ID   | Activity Description   | Cal | Target<br>Dur | Orig | Target<br>Start | Target<br>Finish | Early<br>Start     | Early<br>Finish    | %<br>Comp | Total | 2008 | 2009         | 2010                  | 2011               | 2012       |
|--|--|-----|---------------|------|-----------------|------------------|--------------------|--------------------|-----------|-------|------|--------------|-----------------------|--------------------|------------|
| Channal M  | lodification Works (Dry Season)  | IU  | Dur           | Dui  | Start           | ransa            | Start              | Finish             | Comp      | Float |      |              |                       |                    |            |
| Phase 2  | iodification works (bly Season)  |     |               |      |                 |                  |                    |                    | _         |       |      |              |                       |                    |            |
| 09R1Cl3802   | Mobilize drilling rig & backhoe  | 1   | 6             | -1   | 02NOV09*        | 07NOV09          | 02JAN09            | 02JAN09            |           | 145   |      |              |                       |                    |            |
| 09R1Cl3804   | Breaking of large boulders   | 1   | 10            |      | 09NOV09         | 19NOV09          | 03JAN09            | 02JAN09<br>03FEB09 | 0         |       |      |              |                       |                    |            |
| 09R1Cl3806   | Excavation of the stream bed & make good   | 1   | 36            |      | 20NOV09         | 04JAN10          | 035AN09<br>04FEB09 | 03MAR09            | 0         |       |      | EX.          |                       |                    |            |
| 09R1Cl3808   | Laying of rock armour  | 1   | 24            | 24   | 05JAN10         | 045AN10          | 04FLB09            | 31MAR09            | 0         |       |      | 525<br>525   |                       | 1 1 1              |            |
| 09R1Cl3810   | Construct working platform   | 1   | 24            | 12   | 05JAN10         | 01FEB10          | 18MAR09            | 31MAR09            | 0         |       |      |              |                       |                    |            |
| 09R1Cl3812   | Divert channel to south west   | 1   | 24            | 12   | 033AN10         | 04MAR10          | 18MAR09            |                    |           |       |      |              |                       |                    |            |
|  | the same of the sa |     | 24            | 12   | UZFEBIU         | U4IVIAR IU       | TOWARUS            | 31MARU9            | 0         | 145   |      | , in         |                       |                    |            |
|  | n for AVS/VS/DC/MAS/MAA  |     |               | -    |                 |                  |                    |                    | -         |       |      |              |                       |                    |            |
| Phase 2  |  |     |               |      |                 |                  |                    |                    |           |       |      |              |                       |                    |            |
| 06L1Cl3902   | Mobilize drilling rig & grouting plant   | 1   | 0             | -    |                 |                  | 01APR09            | 01APR09            |           | 145   |      |              |                       |                    |            |
| 06L1Cl3904   | Drill & grout 25m deep, 90 nos. grout holes  | 1   | 0             |      |                 |                  | 02APR09            | 06JUN09            | 0         |       |      | curta        | in grouting 15m/r     | ig; use 3 rigs, 22 | 250/15/3=5 |
| 06L1Cl3906   | Mobilize drilling rig, backhoe & crane   | 1   | 0             |      |                 |                  | 08JUN09            | 08JUN09            | 0         |       |      |              |                       |                    |            |
| 06L1Cl3908   | Excavate/mucking out/temporary support   | 1   | 0             | 200  |                 |                  | 09JUN09            | 04FEB10            | 0         | 145   |      |              | 6000m3, 30            | m3/day = 200       |            |
| Excavation   | n & Construction of Main Adit  |     |               |      |                 |                  |                    |                    |           |       |      |              |                       |                    |            |
| Phase 3  |  |     |               |      |                 |                  |                    |                    |           |       |      |              |                       |                    |            |
| 3CL1Cl3102   | Excavation/mucking out/temporary support   | 1   | 40            | 40   | 22OCT09         | 08DEC09          | 05FEB10            | 26MAR10            | 0         | 145   |      |              | <del>=</del> 10m, @0. | 3m/day             |            |
| 3CL1Cl3104   | Construction of permanent lining   | 1   | 24            | 24   | 09DEC09         | 08JAN10          | 27MAR10            | 28APR10            | 0         | 145   |      |              | ф <b>ш</b>            |                    |            |
| Constructi   | ion of Man Access Adit (MAA)   |     |               |      |                 |                  |                    |                    |           |       |      |              |                       |                    |            |
| Phase 3  | SALE OF THE SALE O |     |               |      |                 |                  |                    |                    |           |       |      |              |                       |                    |            |
| 06L1Cl3112   | Cast invert; 1 bay   | 1   | 0             | 7    |                 |                  | 05FEB10            | 12FEB10            | 0         | 250   |      |              | 1                     |                    |            |
| 06L1Cl3114   | Cast walls   | 1   | 0             | 12   |                 |                  | 17FEB10            | 02MAR10            | 0         | 70000 |      |              |                       |                    |            |
| 06L1Cl3116   | Cast crown   | 1   | 0             | 12   |                 |                  | 03MAR10            | 16MAR10            | 0         | 250   |      |              | 2                     |                    |            |
| Constructi   | ion of Man Access Shaft (MAS)  |     | 1             |      |                 |                  |                    |                    | -         |       |      |              |                       |                    |            |
| Phase 3  | on or man recoos origin (parto)  |     |               |      |                 |                  |                    |                    |           |       |      |              |                       |                    |            |
| 06L1Cl3122   | Cast base  | 1   | 53            | 3    | 02JUL09         | 01SEP09          | 17MAR10            | 19MAR10            | 0         | 250   |      |              |                       |                    |            |
| 06L1Cl3124   | Set up formworks   | ! 1 | 24            | 6    | 02SEP09         | 29SEP09          | 20MAR10            | 26MAR10            | 0         |       |      |              | 1                     |                    |            |
| 06L1Cl3126   | Construct wall/stair; 14 landings @ 6 days/land.   | 1   | 0             | 84   | OZOCI OO        | 23021 03         | 27MAR10            | 12JUL10            | 0         |       |      | @ 4 days/la  | anding 22m            | 8 14 landings      |            |
| 06L1Cl3128   | Construct wall above ground level  | 1   | . 0           | 6    |                 | +                | 13JUL10            | 19JUL10            | 0         |       |      | @ + days/ is | Inding——ZZIII (       | x 14 landings      |            |
| 06L1Cl3129   | Construct shaft roof   | 1   | -             | 12   |                 |                  |                    | 02AUG10            | 0         |       |      |              |                       |                    |            |
|  | ion of Deaerarion Chamber (DC)   |     |               |      |                 |                  | 2000210            | 327.0010           |           | 200   |      |              |                       |                    |            |
| The state of the s | on or beactation onaliber (bo)   |     |               |      |                 |                  |                    |                    |           |       |      |              |                       |                    |            |
| Phase 3<br>06L1Cl3132  | Construct base   | 1   | 0             | 9    |                 |                  | 2010010            | 10MAV10            | _         | 145   |      |              |                       |                    |            |
| 06L1Cl3134   | Construct walls 2 lifts  |     | -             | 12   |                 | -                |                    | 10MAY10            |           | 145   |      |              | , i                   |                    |            |
| 06L1Cl3134   | _  | 1 1 |               | 18   |                 |                  |                    | 25MAY10            |           | 145   |      |              |                       |                    |            |
|  | Const. crown/underpin of air vent & drop shafts  |     | U             | 18   |                 | -                | 26MAY10            | 15JUN10            | U         | 145   |      |              |                       |                    |            |
|  | on of Vortex Shaft (VS)  |     | 1             |      |                 |                  |                    |                    |           |       |      |              |                       |                    |            |
| Phase 3  |  |     |               |      |                 |                  |                    |                    |           |       |      |              |                       |                    |            |
| 06L1Cl3142   | Set up formworks   | 1   | 0             |      |                 |                  | 17JUN10            | 23JUN10            |           | 210   |      |              |                       |                    |            |
| 06L1Cl3144   | Construction of drop shaft; 4m high  | 1   | 0             | 6    |                 |                  | 24JUN10            | 30JUN10            | 0         | 210   |      |              | @4m/                  | 4days              |            |

| ID  | Activity Description   | Cal | Target<br>Dur | Orig | 1920/2004/00/00 | Target<br>Finish | Early<br>Start | Early<br>Finish | %<br>Comp | Total   | 2008 | 2009 | 2010                                      | 2011             | 2012           |
|---|--|-----|---------------|------|-----------------|------------------|----------------|-----------------|-----------|---------|------|------|---|------------------|----------------|
| 06L1CI3146 Co   | nstruction of vortex structure   | 1   | 0             |      | Otore           | 1 1111011        | 10JUL10        | 06AUG10         |           | 210     |      |      |   |                  |                |
| 06L1Cl3148 Co   | nstruct remaining of the vortex  | 1   | 0             |      |                 |                  |                | 13SEP10         | -         | 210     |      |      | 0   |                  |                |
| Construction  | of Air Vent Shaft Shaft (AVS)  |     | 717           |      |                 |                  |                |                 | TIT       |         |      |      |   |                  |                |
| Phase 3   |  |     |               |      |                 |                  |                |                 |           |         |      |      |   |                  |                |
| 06L1Cl3152 Set  | up formworks   | 1   | 0             | 6    |                 |                  | 17JUN10        | 23JUN10         | 0         | 220     |      |      |   |                  |                |
| 06L1Cl3514 Ca:  | st 15m high circular wall  | 1   | 0             | 15   |                 |                  | 24JUN10        | 12JUL10         | 0         | 0.000   |      |      |   |                  |                |
| 06L1Cl3516   Cor  | nstruct upstand wall   | 1   | 0             | 12   |                 |                  | 13JUL10        | 26JUL10         |           | 220     |      |      |   |                  |                |
| Backfill Aroun  | d Structure  |     |               |      |                 |                  |                |                 | 1         |         |      |      |   |                  |                |
| Phase 3   | - Alleria Service Serv |     |               |      |                 |                  |                |                 |           |         |      |      |   |                  |                |
| 06L1Cl3162 Gra  | nular fill up to +54mPD; 623m3   | 1   | 0             | 7    |                 |                  | 02JUL10        | 09JUL10         | 0         | 210     |      |      | I.  |                  |                |
| 06L1Cl3164 Gra  | nular fill above +54mPD; 1400m3  | 1   | 0             | 14   |                 |                  | 07AUG10        | 23AUG10         | 0         | 210     |      |      | a   |                  |                |
| Construction  | of Approach Channel  |     |               |      |                 |                  |                |                 |           |         |      |      |   |                  |                |
| Phase 3   |  |     |               |      |                 |                  |                |                 |           |         |      |      |   |                  | I              |
| I   | en excavation for Approach Channel   | 1   | 0             | 60   |                 |                  | 12APR10        | 23JUN10         | 0         | 145     |      |      | rock 2                                    | .940m3; @50n     | n3/day =60 day |
| 09R1Cl3174 Cor  | nstruction of Approach Channel   | 1   | 0             | 122  |                 | -                | 24JUN10        | 17NOV10         | 0         | 1000000 |      |      | -   |                  | 5.44,          |
|   | nstruction of boulder trap; 7 nos.   | 1   | 0             | 24   |                 |                  | 24JUN10        | 22JUL10         | 0         | A1-5-5  |      |      | 124                                       |                  |                |
| 09R1Cl3178 Cor  | nstruction of trash grill  | 1   | 0             | 12   |                 |                  | 18NOV10        | 01DEC10         | 0         |         |      |      | 1   |                  |                |
| 09R1Cl3179 Rei  | moval of concrete bolck bund   | 1   | 0             | 6    |                 |                  | 02DEC10        | 08DEC10         | 0         | 145     |      |      |   |                  |                |
| Junction Betw   | een Main Tunnel & Adit Tunnel  | T.  |               |      |                 |                  |                |                 |           |         |      |      |   |                  |                |
| 3CL1Cl3106 Ter  | np. support & excavation breakthrough  |     | 40            | 40   | 00 11 15 14 0   | 00 11 11 40      | 0055044        | 0740044         |           |         |      |      |   |                  |                |
|   | nstruct collar between MT & AT   | 1   | 12            | 48   | 22JUN10         | 06JUL10          | 26FEB11        | 27APR11         | 0         |         |      |      | 9   | (17.44)          |                |
| THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO |  | -   | 36            | 48   | 07JUL10         | 17AUG10          | 28APR11        | 24JUN11         | 0         | 21      |      |      |   |                  |                |
| Remaining Wo  | orks Prior to Handover to Client   |     | -             |      |                 |                  |                |                 | _         |         |      |      |   |                  |                |
| 09R1Cl3142 Fini   | shing & reinstatement works; Portion C   | 1   | 48            | 36   | 07FEB11         | 02APR11          | 13MAY11        | 24JUN11         | 0         | 21      |      |      |   | i w              |                |
|   | -handover inspections and remedial works   | 1   | 48            | 30   | 07MAR11         | 05MAY11          | 27MAY11        | 02JUL11         | 0         | 0.50    |      |      |   | - 5              |                |
|   | ntractor serve notice for Works completion   | 2   | 7             | 7    | 06MAY11         | 12MAY11          | 03JUL11        | 09JUL11         | 0         |         |      |      |   |                  |                |
|   | issues completion certificate  | 2   | 21            | 21   | 13MAY11         | 02JUN11          | 10JUL11        | 30JUL11         | 0         | 27.00   |      |      |   |                  |                |
|   | dscaping works at Portion C  | 1   | 120           |      | 06DEC10         | 05MAY11          | 02FEB11        | 02JUL11         | 0         | 200     | - 1  |      |   |                  |                |
|   | ablishment Works at Portion C  | 2   | 365           |      |                 | 04MAY12          | 03JUL11        | 01JUL12         | 0         |         |      |      |   |                  |                |
| 3DL1Cl3141 Inst   | all flow measurement devices at Intake I-3   | 1   | 24            | 12   | 07FEB11         | 05MAR11          | 09DEC10        | 22DEC10         | 0         | 7000    |      |      |   |                  |                |
| 3DL1Cl3143 Mai  | ntain & monitor flow monitoring  | 2   | 365           | 365  | 06MAR11         | 04MAR12          | 23DEC10        |                 | -         | 217     |      |      |   |                  |                |
| Schedule of M   | ilestones for Cost Centre No. 3cL  |     |               |      |                 |                  |                |                 |           |         |      |      |   |                  |                |
| 3CL1Cl3A02 3cL  | 1; On establishing tunnelling equipments   | 2   |               | 0    |                 | 210CT00          |                | 44ECD40         |           | 1.050   |      |      | A 40 (10000000000000000000000000000000000 |                  |                |
| HGOG-   | 2; On completion of 12.5% perm. tunnel linin   | 2   | 0             | 0    |                 | 21OCT09          |                | 11FEB10         | -         | 1,053   |      |      |   | or tunnelling at | intake I-3     |
|   | 3; On completion of 12.5% perm. tunnel lining  | 2   | 0             |      |                 | 11DEC09          |                | 24FEB10         |           | 1,040   |      |      |   | al at Intake I-3 |                |
|   | 4; On completion of 37.5 perm, tunnel lining   | 2   |               | 0    |                 | 15DEC09          |                | 05MAR10         |           | 1,031   |      |      |   | el at Intake I-3 |                |
| 100000  | 5; On completion of 50% perm, tunnel lining  | 2   | 0             | 0    |                 | 18DEC09          | -              | 15MAR10         |           | 1,021   |      |      |   | el at Intake I-3 |                |
| JOE TOISATU 3CL   | 5, On completion of 50% perm, tunnel lining  | 2   | 0             | 0    |                 | 22DEC09          |                | 24MAR10         | 0         | 1,012   |      |      | Adit Tunn                                 | el at Intake I-3 |                |

| IĐ         | Activity Description                             | Cal | Target<br>Dur | Orig<br>Dur | Target<br>Start  | Target<br>Finish | Early<br>Start | Early<br>Finish | %<br>Comp | Total     | 2008 2009 2010 2011 2012                     |
|------------|--|-----|---------------|-------------|--|------------------|----------------|-----------------|-----------|-----------|--|
| 3CL1Cl3A12 | 3cL 6; On completion of 62.5% perm. tunnel linin | 2   | 0             |             | Name of the last o | 28DEC09          | Curt           | 07APR10         |           | 998       | ◆Adit Tunnel at Intake I-3                   |
| 3CL1Cl3A14 | 3cL 7; On completion of 75% perm. tunnel lining  | 2   | 0             | 0           | -  | 31DEC09          |                | 16APR10         | 0         | -         | ◆Adit Tunnel at Intake I-3                   |
| 3CL1Cl3A16 | 3cL 8; On completion of 87.5% perm. tunnel linin | 2   | 0             | 0           |  | 08JAN10          |                | 28APR10         | 0         | 2000      | • Adit Tunnel at Intake I-3                  |
| 3CL1Cl3A18 | 3cL 9; On completion of perm. tunnel lining      | 2   | 0             | 0           |  | 20JUL10          |                | 24JUN11         | 0         | 9.591/107 | Adit Tunnel-at Intake I-3                    |
| 3CL1Cl3A20 | 3cL 10; On completion of all works under this CC | 2   | 0             | 0           |  | 17AUG10          |                | 24JUN11         | .035      | 555       | under this Cost Centre                       |
| Schedule o | of Milestones for Cost Centre No. 6L             |     |               |             |  |                  |                |                 |           |           |  |
| 06L1Cl3M02 | 6L 1; On completion of 50% of excavation         | 2   | 0             | 0           |  | 21OCT09          |                | 29SEP09         | 0         | 1,188     | ◆below G.L. except for Adit Tunnel at Intake |
| 06L1CI3M04 | 6L 2; On completion of excavation works          | 2   | 0             | 0           |  | 05NOV10          |                | 04FEB10         |           | 1,060     | ♦ belowe G.L. except for Adit Tunnel at I    |
| 06L1CI3M08 | 6L 3; On completion of vortex shaft              | 2   | 0             | 0           |  | 08JAN11          |                | 13SEP10         |           | 839       | ◆at Intake I-3                               |
| 06L1Cl3M10 | 6L 4; On completion of de-aeration chamber       | 2   | 0             | 0           |  | 18FEB10          |                | 15JUN10         | 0         | 100000    | • • chamber at Intake I-3                    |
| 06L1Cl3M12 | 6L 5; On completion of vent shaft                | 2   | 0             | 0           |  | 09FEB09          |                | 26JUL10         | 0         |           | ◆at Intake I-3                               |
| 06L1Cl3M14 | 6L 6; On completion of man access shaft          | 2   | 0             | 0           |  | 23NOV09          |                | 02AUG10         | 3         | 881       | ◆shaft at Intake I-3                         |
| 06L1CI3M16 | 6L 7; On completion of man access adit           | 2   | 0             | 0           |  | 29SEP09          |                | 16MAR10         | 7.5       | 1,020     |  |
| 06L1CI3M18 | 6L 8; On completion of all works under this CC   | 2   | 0             | 0           |  | 05MAY11          |                | 13SEP10         |           | 839       |  |
| Schedule o | of Milestone for Cost Centre No. 9R              |     |               |             |  |                  |                |                 |           |           |  |
| 09R1Cl3R02 | 9R 1; On completion of access road               | 2   | 0             | 0           |  | 26MAR10          |                | 22JUN10         | 0         | 922       | ◆at Intake I-3                               |
| 09R1Cl3R04 | 9R 2; On completion of 25% of excavation at G.L. | 2   | 0             | 0           |  | 05SEP08          |                | 30OCT08         | 0         | 1,522     | • 🔷 at Intake I-3                            |
| 09R1Cl3R06 | 9R 3; On completion of 50% of excavation at G.L  | 2   | 0             | 0           |  | 24FEB09          |                | 04DEC08         | 0         | 1,487     | ♦at Intake I-3                               |
| 09R1Cl3R08 | 9R 4; On completion of 75% of excavation at G.L  | 2   | 0             | 0           |  | 12MAY09          |                | 10DEC08         | 0         | 1,481     | ♦at Intake I-3                               |
| 09R1Cl3R10 | 9R 5; On completion of excavation at G.L.        | 2   | 0             | 0           |  | 23JUL09          |                | 13FEB09         | 0         | 1,416     | ♦at G.L. at Intake I-3                       |
| 09R1Cl3R12 | 9R 6; On completion of 50% of approach channel   | 2   | 0             | 0           |  | 20NOV10          |                | 21AUG10         | 0         | 862       | ◆channel at Intake I-3                       |
| 09R1Cl3R14 | 9R 7; On completion of approach channel          | 2   | 0             | 0           |  | 21JAN11          |                | 17NOV10         | 0         | 774       | channel and associated de                    |
| 09R1Cl3R16 | 9R 8; On completion of trash grill               | 2   | 0             | 0           |  | 19FEB11          |                | 01DEC10         | 0         | 760       | ◆at Intake I-3                               |
| 09R1Cl3R18 | 9R 9; On completion of all works under this CC   | 2   | 0             | 0           |  | 05MAY11          |                | 02JUL11         | 0         | 547       | under this Cost Centre◆                      |
| Schedule o | of Milestones for Cost Centre No. 13R            |     | J.            |             |  |                  |                |                 |           |           |  |
| 13R4Cl3S01 | 13R 1; On completion of 30% soil nailing         | 2   | 0             | 0           |  | 28AUG08          |                | 05NOV08         | 0         | 1,516     | ♦at intake I-3                               |
| 13R4Cl3S02 | 13R 2; On completion of 60% soil nailing         | 2   | 0             | 0           |  | 25NOV08          |                | 23FEB09         | 0         | 1,406     | ◆at Intake I-3                               |
| 13R4Cl3S03 | 13R 3; On completion of all soil naing works     | 2   | 0             | 0           |  | 12MAY09          |                | 20MAR09         | 0         | 1,381     | ♦at Intake I-3                               |
| 13R4Cl3S04 | 13R 4; On completion of 10% piles by number      | 2   | 0             | 0           |  | 26MAY08          |                | 27AUG08         | 0         | 1,586     | • oat Intake I-3                             |
| 13R4Cl3S05 | 13R 5; On completion of 20% piles by number      | 2   | 0             | 0           |  | 05JUN08          |                | 06SEP08         | 0         | 1,576     | at Intake I-3                                |
| 13R4Cl3S06 | 13R 6; On completion of 30% piles by number      | 2   | 0             | 0           |  | 17JUN08          |                | 18SEP08         |           | 1,564     | ◆at Intake I-3                               |
| 13R4Cl3S07 | 13R 7; On completion of 40% piles by number      | 2   | 0             | 0           |  | 27JUN08          |                | 29SEP08         | -54/1     | 1,553     | •   at Intake I-3                            |
| 13R4Cl3S08 | 13R 8; On completion of 50% piles by number      | 2   | 0             | 0           |  | 09JUL08          |                | 11OCT08         |           | 1,541     | • • at Intake I-3                            |
| 13R4Cl3S09 | 13R 9; On completion of 60% piles by number      | 2   | 0             | 0           |  | 19JUL08          |                | 22OCT08         |           | 1,530     | • • at Intake I-3                            |
| 13R4Cl3S10 | 13R 10; On completion of 70% piles by number     | 2   | 0             | 0           |  | 30JUL08          |                | 01NOV08         |           | 1,520     | • • at Intake I-3                            |
| 13R4Cl3S11 | 13R 11; On completion of 80% piles by number     | 2   | 0             | 0           |  | 07AUG08          |                | 26NOV08         |           | 1,495     | ◆at Intake I-3                               |
| 13R4Cl3S12 | 13R 12; On completion of 90% piles by number     | 2   | 0             | 0           |  | 28AUG08          |                | 22APR09         |           | 1,348     | ♦at Intake I-3                               |

| ID   | Activity  | Cal | Target |       | Target  | Target  | Early    | Early  |           | Total | 2008   | 3     | 2009          |        | 2010       |           | 2011      | 2        | 2012 |
|--|---|-----|--------|-------|---------|---------|----------|--|-----------|-------|--------|-------|---------------|--------|------------|-----------|-----------|----------|------|
|  | Description                                     | ID  | Dur    | Dur   | Start   | Finish  | Start    | Finish   | Comp      |       |        | ш     |               |        |            |           |           |          |      |
|  | 13R 13; On completion of all piling works       | 2   | 0      | 0     |         | 19SEP08 |          | 05JUN09  | 201       | 1,304 |        | *     | - at          | Intak  | POLY NO.   |           | 0 2 6 2   |          |      |
|  | 13R 14; On completion of boulder traps          | 2   | 0      | 0     |         | 04MAR10 |          | 22JUL10  | 0/11      | 892   |        | ш     |               |        |            |           | ntake I-3 | 10       |      |
| 13R4Cl3S15   | 13R 15; On completion of all work under this CC | 2   | 0      | 0     |         | 26MAR10 |          | 22JUL10  | 0         | 892   |        |       |               |        | * 🔷        | under thi | s Cost Ce | ntre     |      |
| Constructi   | ion of Outfall O-1                              |     | 1      |       |         |         |          |  |           |       |        | Н     |               |        |            |           |           |          |      |
| reliminary   | / Works   |     |        |       |         |         |          |  |           |       |        | Н     |               |        |            |           |           |          |      |
| O 6; Transp  | perant Hoarding at Outfall                      |     |        |       |         |         |          |  |           |       |        | ш     |               |        |            |           |           | 1.4      |      |
| 1R1DO0106  | Receive VO6 for transperant hoarding            | 1   | 0      | 0     |         |         |          | 16APR08A   | 100       |       |        | ш     |               |        |            |           |           |          |      |
| 1R1D00108  | Procurement for transperent hoarding            | 1   | 0      | 21    |         | 06MAR08 | 17APR08A | 20MAY08A   | 100       |       | - #    | Ш     |               |        |            |           |           |          |      |
| 01R1D00110   | Erect hoarding                                  | 1   | 0      | 18    |         | 26MAR08 | 21APR08A | 02JUL08A   | 100       |       | - 1100 |       |               |        |            |           |           |          |      |
| VO 16; Chair   | Link Fence at O-1                               |     |        |       |         |         |          |  |           |       |        |       |               |        |            |           |           |          |      |
| V01602   | Issue VO16 for chain link fence                 | 1   | 0      | 0     |         |         |          | 02JUL08A   | 100       |       | i i    | П     | k [           |        |            |           |           |          |      |
| V01612   | Preparation works for chain link fence          | 1   | 0      | 1     |         |         | 03JUL08A | 18AUG08A   | 100       |       |        |       |               |        |            |           |           |          |      |
| V01622   | Erect chain link fence; 460m                    | 1   | 0      | 38    |         |         | 19AUG08A | 03OCT08  | 21        | 0     |        | =     |               |        |            |           |           |          |      |
| Temporary C  | LP Power Supply for TBM Operation               |     |        |       |         |         |          |  |           |       |        |       |               |        |            |           |           | 7        |      |
|  | Application/approval for temp. CLP Power Supply | 2   | 0      | 200   | h       |         | 07MAR08A | 01AUG08A   | 100       |       |        |       |               |        |            |           |           | 1 1      |      |
|  | Appoint sub-contractor for design & build TX Rm | 1   | 0      | 67    |         |         | 14JUL08A | 30SEP08  | 59        | -54   |        | +     |               |        |            |           |           |          |      |
| The second secon | Design for transformer room                     | 1   | 0      | 12    |         |         | 02OCT08  | 16OCT08  | 0         | -54   |        | H     |               |        |            |           |           | 4 10     |      |
|  | Constuct transformer room                       | 1   | 0      | 60    |         |         | 17OCT08  | 27DEC08  | 0         | -54   |        | -     |               |        |            |           |           |          |      |
| 1R1DCLP44  | CLP inspection & defect rectification           | 1   | 0      | 14    |         |         | 29DEC08  | 14JAN09  | 0         | -54   |        | ш     | e ·           |        |            |           |           | 1 1      |      |
|  | CLP cabling to TX room & commissioning          | 1   | 0      | 60    |         |         | 15JAN09  | 28MAR09  | 0         | -54   |        | ш     |               |        |            |           |           |          |      |
| 01R1DCLP64   | Trech excavation from TX room to 24mPD platform | 1   | 0      | 24    | Ť T     |         | 02MAR09  | 28MAR09  | 0         | -54   |        | ш     | <b>■</b> Comp | lete 1 | wk after   | construc  | of 24mF   | D platfe | огт  |
|  | CLPE cabling from TX room to 24mPD platform     | 1   | 0      | 42    |         |         | 30MAR09  | 23MAY09  | 0         | -54   |        | Ш     | #             |        |            |           |           |          |      |
|  |   |     | 0      | 0     |         |         |          | 404555004  | 400       |       |        | П     |               |        |            |           |           |          |      |
|  | Obtain TTA (ingress & egress) approval          | 2   | 0      | - 10  |         |         | 40400004 | 18APR08A   | 100       |       |        | ш     |               |        |            |           |           |          |      |
|  | Implment TTA for diverting footpath             | 1   | 0      | 1     |         |         | 19APR08A | 19APR08A   | 100       |       |        | ш     |               |        |            |           |           |          |      |
|  | Obtain excavation permit                        | 2   | 0      | 0     |         |         |          | 29MAY08A   | 100       |       |        | ш     | i I           |        |            |           |           |          |      |
|  | Erect catch fencing                             | 1   | .0     | 10    |         | 20FEB08 | 26MAY08A | CONTRACTOR CONTRACTOR  | 100       |       |        |       | 3             |        |            |           |           |          |      |
|  | Site establishment                              | 1 1 | 30     | 30    | 14MAR08 | 22APR08 | 21APR08A | 174 - C. 1 (50 - C. 1 - | 100       |       | g tau  | e-all | gn footpat    | n, ere | ct noardii | ng/catch  | rence,    |          |      |
|  | Site clearance                                  | 1   | 30     | 30    | 14MAR08 | 22APR08 | 21APR08A |  | 75        | 0     | -      | 1.    |               | - 10   |            |           |           |          |      |
|  | Install remote contorl CCTV as per ER 4.4.10    | 1   | 30     | 12    | 14MAR08 | 22APR08 | 21OCT08  | 03NOV08  | 0         | 0     | -      | 11    |               |        |            |           |           |          |      |
|  | Apply for Marine Permit for Works at Portion E  | 2   | 14     | 14    | 30JUL09 | 12AUG09 | 30JUL09  | 12AUG09  | 0         | -67   |        | ш     |               |        |            |           |           |          |      |
|  | Obtain marine permit from Marine Department     | 2   | 45     | 45    | 13AUG09 | 26SEP09 | 13AUG09  | 26SEP09  | 0         | -67   |        | ш     | '             | =      |            |           |           |          |      |
|  | Tree inspection & report                        | 1   | 0      | 7     |         |         | 13MAR08A | 28MAR08A   | 100       |       | ,      | 1     | -             |        | _          | 12        |           |          |      |
| •  | oorary Access/Tree Felling                      |     | 1      |       |         |         |          |  |           |       |        |       |               |        |            |           |           |          |      |
|  | ension Due to Obstruct, from Villagers          |     |        | - 2 4 |         |         |          | DOWN OF STREET   | 1 2 2 2 1 |       |        |       |               | - 10   |            |           |           |          |      |
| WSO02  | Works suspension due to obstruct. frm villagers | 2   | 0      | 24    |         |         | 19JUL08A | 11AUG08A   | 100       |       | 1      | -     |               | -11    |            |           |           | +-       |      |
| 0R1DO0202  | Form temp. access road from +14mPD to +69mPD    | 1   | 60     | 99    | 18MAR08 | 02JUN08 | 19JUN08A | 06NOV08  | 3         | -96   | -      | -     |               |        |            |           |           |          |      |
| 4R1DO0202  | Existing boulder stabilization works            | 1   | 100    | 40    | 23JUN08 | 21OCT08 | 11SEP08  | 30OCT08  | 0         | -96   | 1      | 1007  |               |        | -          |           |           |          |      |
|  | Tree transplanting; 82 nos                      | 1   |        |       | 28MAR08 | 20AUG08 | 02JUN08A |  | 51        |       | C      | -     |               |        |            |           |           |          |      |

| ID                | Activity Description                             | Cal  | Target<br>Dur | Orig<br>Dur | Target<br>Start | Target<br>Finish | Early<br>Start     | Early<br>Finish    | %<br>Comp | Total      | 2008        |          | 2009          | 2010                                    | 2011                   | 2012    |
|-------------------|--|------|---------------|-------------|-----------------|------------------|--------------------|--------------------|-----------|------------|-------------|----------|---------------|---|------------------------|---------|
| own Tomy          |  | 10.  | Dui           | Dui         | Otalit          | 1 mustr          | Start              | rinish             | Comp      | rioat      |             |          |               | 1 |                        |         |
| orm remp          | oorary Launching Platform                        |      | -             |             |                 |                  |                    |                    |           |            |             | P.       |               |   |                        |         |
| 0D1D00303         | Cut slope (72 to 40mPD)/install perm. soil nails | 1    | 90            | 96          | 26APR08         | 13AUG08          | 07NOV08            | 05MAR09            |           | 00         |             | -        |               |   |                        |         |
| 30 1-1-11 (-0.00) | Cut slope & form launching platform; 40 to 24mPD |      |               | -           | 25JUN08         | 11OCT08          | 22JAN09            | 29MAY09            | 0         | 0,305.0    |             |          |               |   |                        |         |
|                   | Cut rock benching & form platform; 14 to 24 mPD  | 1    | 90<br>72      | 42          | 14AUG08         | 08NOV08          | 15APR09            | 05JUN09            | 0         |            |             |          |               | 1 1 1                                   |                        |         |
|                   | Excavate/Const. TBM launching chamber; 15m long  | 1    | 24            | 65          | 13OCT08         | 08NOV08          | 07MAR09            | 29MAY09            | 0         |            |             | 100      |               |   |                        |         |
|                   | Install steel platform,hopper & other facilities | 1    | 40            | 163*        | 13OCT08         | 27NOV08          | 18MAY09            | 28NOV09            | 0         |            |             |          |               |   |                        |         |
|                   | Construct foundation for steel platform          | 1    | 120           | 18          | 13OCT08         | 07MAR09          | 18MAY09            | 08JUN09            | 0         | 1          |             |          |               |   |                        |         |
|                   | Construct foundation for hopper                  | 1    | 0             | 18          | 1000100         | 07111111100      | 18MAY09            | 08JUN09            | 0         |            |             | 11       | <u>=</u>      |   |                        |         |
|                   | Install cranage/gantry/ rail system              | 1    | 0             | 30          |                 |                  | 09JUN09            | 14JUL09            | 0         | 1000       |             | ble      | =             |   |                        |         |
|                   | Install steel platform                           | 1    | 0             | 30          |                 |                  | 09JUN09            | 14JUL09            | 0         | 200000     |             |          | =             |   |                        |         |
|                   | Commence TBM initial assembly                    | 1    | 0             | 0           |                 |                  | 15JUL09            | 1.00200            | 0         | -          |             |          |               |   |                        |         |
|                   | Install hopper                                   | 1    | 0             | 7.0         |                 |                  |                    | 28NOV09            | 0         | 2033       |             |          |               | following TBM                           | initial driving        |         |
|                   | Spiral Ramp & Associ. Vehicular Access           |      |               | Nes         |                 |                  |                    |                    |           |            |             |          |               | 3                                       |                        |         |
| onstruct (        | opiral Kallip & Associ. Velliculai Acces         | ,    |               |             |                 |                  |                    |                    |           | -          |             |          |               |   |                        | 10      |
| 0P1D00402         | Install 273mm dia. temp. pipe piles; 40 nos.     | 1    | 12            | 12          | 07MAR09         | 20MAR09          | 30NOV09            | 12DEC09            | 0         | 95 /       | starts on   | ratina   | rony € night  | 40 pec *12m l                           | 000                    |         |
|                   | Soil excavation & install wailing & tie backs    | 1    | 120           | 24          | 21MAR09         | 17AUG09          | 14DEC09            | 13JAN10            | 0         |            | starts ope  | raung    |               | 40 nos.*13m l                           | ong<br>np. supports me |         |
|                   | Rock excavation for spiral ramp; 4000m3          | 3    | 0             | 70          | ZIMARUS         | 17/40009         | 14JAN10            | 13APR10            | 0         |            |             | 11       |               |   | temp, supports         |         |
|                   | Excavation for vehicular access underneath CPR   | 1    | 48            | 70          | 18AUG09         | 14OCT09          | 14APR10            | 08JUL10            | 0         |            | eet pilo ro | fina (   |               | 80m2 soil 6                             |                        | mesures |
|                   | Construct base for vehicular access              | 1    | 8             | 12          | 15OCT09         | 23OCT09          | 09JUL10            | 22JUL10            | 0         | 1,000      | cet plie 10 | Jillig c | x lagging - i | 301112                                  | 40III3 T               |         |
|                   | Construct wall & roof for vehicular access       | 1    | 16            | 24          | 24OCT09         | 12NOV09          | 23JUL10            | 19AUG10            | 0         | - 30       |             | 9.5      |               |   |                        |         |
|                   | Construct base of spiral ramp; Outfall O-1       | 1    | 12            | 12          | 13NOV09         | 26NOV09          | 20AUG10            | 02SEP10            | 0         |            |             |          |               |   |                        |         |
|                   | Cast sprial ramp up to +6.73mPD                  | 1    | 120           | 15          | 27NOV09         | 27APR10          | 03SEP10            | 20SEP10            | 0         |            |             |          |               |   |                        |         |
|                   | Cast sprial ramp up to +11.58mPD                 | 1    | 0             | 15          | 27110 100       | 277111110        | 21SEP10            | 09OCT10            | 0         | 2000       |             |          |               |   |                        |         |
|                   | Cast sprial ramp up to +16.00mPD                 | 1    | 12            | 15          | 28APR10         | 12MAY10          | 110CT10            | 28OCT10            | 0         | 1134.53    |             |          |               |   | 4 1 1:                 |         |
|                   | Cast sprial ramp up to +20.00mPD                 | 1    | 24            | 15          | 13MAY10         | 10JUN10          | 29OCT10            | 15NOV10            | 0         |            |             |          |               |   |                        |         |
|                   | Cast sprial ramp up to +24.23mPD                 | 1    | 12            | 15          | 11JUN10         | 25JUN10          | 16NOV10            | 02DEC10            | 0         |            |             |          |               |   |                        |         |
|                   | Backfill spiral ramp; 1700m3                     | 1    | 0             | 4           | niedenie.       |                  | 03DEC10            | 07DEC10            | 0         | 50.00      |             |          | @             | 5m3/5minutes                            | 480m3/day              |         |
|                   | Construct spiral ramp top; Outfall O-1           | 1    | 0             | 20          |                 |                  | 08DEC10            | 03JAN11            | 0         |            |             |          |               |   | <u>=</u>               |         |
|                   | Construct vehicular access bet, tunnel & s. ramp | . 1  | 0             | 10          |                 |                  | 04JAN11            | 14JAN11            | 0         | 235 1      |             |          |               | 1 1 1                                   | ,                      |         |
|                   | Commission of Spiral Ramp                        | 1    | 0             |             |                 |                  | 15JAN11            | 21JAN11            | 0         | -          |             |          |               |   | <b>H</b>               |         |
|                   | Lower Part Box Culvert & Open Channe             | NI.  |               |             |                 |                  |                    |                    |           |            |             |          |               |   |                        |         |
| onstructi         | Lower Fart Box Curvert & Open Chaining           | -1   | -             | _           |                 |                  |                    |                    | -         |            |             |          |               | 1111                                    |                        |         |
| 0R4D00502         | Site possession of Portion E-650d of DOC         | 2    | 0             | 0           | 08OCT09         |                  | 08OCT09            |                    | 0         | -78        |             |          |               |   |                        |         |
|                   | Divert exist, outfall "W" under CPR arch bridge  | 1    | 36            | 36          | 08OCT09         | 19NOV09          |                    | 10NOV00            | 0         |            |             |          | Ĭ             |   |                        |         |
|                   | Excavate & form pipe roofing platform @+2.3mPD   | 3    | 24            | 24          | 20NOV09         | 17DEC09          | 08OCT09<br>20NOV09 | 19NOV09<br>17DEC09 | 0         |            |             |          |               | ■940m3                                  |                        |         |
|                   | Install temp. pile for pipe roofing              | 1    | 48            | 96          | 18DEC09         | 18FEB10          | 18DEC09            | 20APR10            | 0         |            |             |          |               |   | 10 pos                 |         |
|                   | Excavate for box-culvert; 2 cells                | 1    | 44            | 44          | 19FEB10         | 15APR10          | 21APR10            |                    | 0         | 2.455      |             |          |               | ==4 cells; 2                            | Marine II              |         |
|                   | Construct base slabs of box culvert; 2 cells     | 1    | 20            | 20          | 16APR10         | 10MAY10          |                    | 12JUN10            | 0         | 0000       |             |          |               | 7-22                                    | ete 160m3              |         |
| 0111000012        | Construt wall & roof of box culvert; 2 cells     | . d. | 40            |             | 11MAY10         | 28JUN10          | 14JUN10            | 08JUL10<br>24AUG10 | U         | -65<br>-65 |             |          |               |   | crete 390m3            |         |

| ID                           | Activity Description   | Cal | Target | Orig | Target<br>Start    | Target<br>Finish | Early<br>Start | Early<br>Finish                         | %<br>Comp | Total<br>Float | 2008. 2009 2010. 2011                             | 2012          |
|------------------------------|--|-----|--------|------|--------------------|------------------|----------------|---|-----------|----------------|---|---------------|
| 10R1DO0516                   | Excavate for box-culvert; 2 cells  | 1   | 44     | 44   | 25AUG10            | 18OCT10          | 25AUG10        | 100000000000000000000000000000000000000 | C         | _              | =soil 2900m3                                      |               |
|                              | Construct base slabs of box culvert; 2 cells   | 1   | 20     | 20   | 19OCT10            | 10NOV10          | 19OCT10        |   | C         |                | Concete 160n                                      | 13            |
|                              | Construt wall & roof of box culvert; 2 cells   | 1   | 40     | 40   | 11NOV10            | 29DEC10          | 11NOV10        | 29DEC10                                 | C         | -65            | □concrete 39                                      | 0m3           |
|                              | Excavate for open channel  | 1   | 24     | 24   | 30DEC10            | 27JAN11          | 30DEC10        | 27JAN11                                 | C         | 73             |   |               |
|                              | Construct channel toe below 2.3mPD   | 1   | 24     | 24   | 14JAN11            | 14FEB11          | 14JAN11        | 14FEB11                                 | C         | 73             | <b>.</b>  |               |
|                              | Construct open channel at 2.3 mPD  | 1   | 24     | 24   | 28JAN11            | 28FEB11          | 28JAN11        | 28FEB11                                 |           | 73             | B.  |               |
|                              | Reinstate existing outfall "W"   | 1   | 6      | 6    | 01MAR11            | 07MAR11          | 01MAR11        | 07MAR11                                 | . (       | 73             | <u> </u>  |               |
| Construct                    | Portal Head & Associated Strutures   |     |        |      |                    |                  |                |   |           |                |   |               |
| 400400000                    | Fugurate topografic population of the production | 1 1 | 24     | 24   | 07JUL10            | 03AUG10          | 19FEB11        | 18MAR11                                 |           | -106           |   |               |
|                              | Excavate tapered open channel/ upper cascade   | 1   | 48     | 48   | 0/JUL10<br>04AUG10 | 29SEP10          | 19FEB11        | 19MAY11                                 |           | -100           |   | () ()         |
|                              | Construct tapered open channel & upper cascade Dismantle & removal of tower crane  | 1   | 12     | 12   | 18DEC10            | 04JAN11          | 22AUG11        | 03SEP11                                 |           | -106           |   |               |
|                              | Dismantle/remove TBM backup system   | 1   | 30     | 24   | 15MAY10            | 21JUN10          | 19JAN11        | 18FEB11                                 | -         | -106           | = #including                                      | gantry crane  |
|                              | Construct portal head wall   | 1   | 24     | 24   | 07JUL10            | 03AUG10          | 19MAR11        | 16APR11                                 | -         | -28            |   | junity crane  |
|                              | AND THE RESIDENCE OF THE PARTY  | 1 1 | 24     | 24   | 0730L10            | 03/10010         | TOWNSTI        | IOALIXII                                |           | -20            |   | -             |
| Construct                    | Cascade & Upper Part Box Culvert   |     | - 1    | -    |                    |                  |                |   |           |                |   |               |
| 10R1DO0704                   | Drive temp, sheet piles along footpath   | 1   | 12     | 18   | 18AUG10            | 31AUG10          | 19FEB11        | 11MAR11                                 | C         | -106           | <u>•</u>  | <u> </u>      |
| 10R1DO0706                   | Excavate/install support for BC (upper part)   | 1   | 66     | 60   | 01SEP10            | 19NOV10          | 12MAR11        | 26MAY11                                 | C         | -106           | soil 54   | 00m3          |
| 10R1DO0708                   | Construct base slab  | 1   | 66     | 24   | 15OCT10            | 04JAN11          | 27MAY11        | 24JUN11                                 | C         | -106           |   |               |
| 10R1DO0710                   | Construct side walls   | 1   | 36     | 18   | 05JAN11            | 18FEB11          | 25JUN11        | 16JUL11                                 | C         | -106           | <b>■</b>  |               |
| 10R1DO0712                   | Construct roof   | 1   | 48     | 24   | 19FEB11            | 16APR11          | 18JUL11        | 13AUG11                                 | (         | -106           |   |               |
| 10R1DO0714                   | Construct upstand  | 1   | 48     | 12   | 19FEB11            | 16APR11          | 15AUG11        | 27AUG11                                 | (         | -106           |   |               |
| 10R1DO0716                   | Backfill   | 1   | 0      | 6    |                    |                  | 29AUG11        | 03SEP11                                 | C         | -106           |   |               |
| 10R1DO0730                   | Excavate for lower cascade construction  | 1   | 0      | 13   |                    |                  | 05SEP11        | 20SEP11                                 | C         | -106           | soil 840m3, rock 600m3                            |               |
| 10R1DO0732                   | Construct lower cascade  | 1   | 0      | 48   |                    |                  | 21SEP11        | 17NOV11                                 |           | -106           |   | concrete 950m |
| 10R1DO0734                   | Construct retaining wall, baffle, railing etc.   | 1   | 0      | 48   |                    |                  | 21SEP11        | 17NOV11                                 | (         | -106           |   | <u>#</u>      |
| Seabed Pro                   | otection Works   |     | 4      |      |                    |                  |                |   |           |                |   |               |
| 10R1DO0804                   | Excavate & formation for 100m*16m slab   | 1   | 72     | 72   | 11MAY10            | 05AUG10          | 11MAY10        | 05AUG10                                 | (         | 127            | <b>≔</b> soil 4000m3                              |               |
|                              | Construct concrete apron with pre-cast RC slabs  | 1   | 72     | 72   | 26MAY10            | 19AUG10          |                | 19AUG10                                 | +         | 127            | ==1600*0.5m3                                      |               |
|                              | Installtion of precast stepped blocks  | 1   | 144    | 144  | 06AUG10            | 27JAN11          | 06AUG10        | 27JAN11                                 | 1         | 127 18         | t panel 2340m2, granular filter 700m3 including 3 | 00mm granular |
|                              | Removal of platform & formation  | 1   | 12     | 12   | 08MAR11            | 21MAR11          | 08MAR11        | 21MAR11                                 | (         | 73             |   | 15.423.42.0   |
|                              | Install remain. Concrete apron for rem. Area   | 1   | 12     | 12   | 22MAR11            | 04APR11          | 22MAR11        | 04APR11                                 | (         | 73             |   |               |
|                              | Removal of sea wall armour   | 1   | 72     | 72   | 26APR10            | 22JUL10          | 26APR10        | 22JUL10                                 | (         | 127            | 3640m3  |               |
| COLUMN TWO IS NOT THE OWNER. | Works Prior to Handover  |     | 1      |      |                    |                  |                |   |           |                |   |               |
| Long In Control              |  |     |        | 00   | MOMADA             | I do Maria       | 1400744        | 0400044                                 | (         | 100            |   |               |
|                              | Finishing & reinstatement works; Portion D   | 1   | 48     | 36   | 19MAR11            | 19MAY11          | 140CT11        | 24NOV11                                 | -         | -106           |   |               |
|                              | Pre-handover inspections and remedial works  | 1   | 48     | 30   | 18APR11            | 17JUN11          | 28OCT11        | 01DEC11                                 |           | -106           |   | f .           |
|                              | Contractor serve notice for Works completion   | 2   | 7      | 7    | 18JUN11            | 24JUN11          | 02DEC11        | 08DEC11                                 | 0         | -              |   |               |
| 10R1DO0910                   | SO issues completion certificate   | 2   | 21     | 21   | 25JUN11            | 15JUL11          | 09DEC11        | 29DEC11                                 |           | 0              |   | =             |

| ID                 | Activity Description  | Cal     | Target<br>Dur | Orig<br>Dur | Target<br>Start | Target<br>Finish                         | Early<br>Start | Early<br>Finish                          | %<br>Comp | Total                          | 2008 | 2009  | 2010   | 2011             | 2012         |
|--------------------|---|---------|---------------|-------------|-----------------|--|----------------|--|-----------|--------------------------------|------|---|--|------------------|--------------|
| 16R7DO0902 La      | andscaping works at Portion D   | 1       | 120           | 120         |                 | 17JUN11                                  | 12JUL11        | 01DEC11                                  |           | -106                           |      |   |  |                  |              |
| 16R7DO0904 Es      | stablishment Works at Portion D   | 2       | 365           | 365         | 18JUN11         | 16JUN12                                  | 02DEC11        | 30NOV12                                  |           | -127                           |      |   |  |                  |              |
| 3DL1DO0902 In      | stall flow measurement devices at Outfall O-1   | 1       | 24            | 12          | 18APR11         | 19MAY11                                  | 11NOV11        | 24NOV11                                  | -         | -106                           |      |   |  |                  |              |
|                    | & C for flow measurement system   | 1       | 0             | 28          |                 |  | 310CT11        | 01DEC11                                  | -         | -106                           |      |   |  |                  |              |
|                    | aintain & monitor flow monitoring   | 2       | 365           | 365         | 20MAY11         | 18MAY12                                  | 02DEC11        | 30NOV12                                  | 0         |                                |      |   |  |                  |              |
| Schedule of I      | Milestones for Cost Centre No. 10R  |         |               |             |                 |  |                |  |           |                                |      |   |  |                  |              |
| 10R1DO1002 10      | OR 1; On completion of 20% excavation works   | 2       | 0             | 0           |                 | 09JUL08                                  | _              | 06NOV08                                  | 0         | 1,515                          |      | ♦Outfll O-1   |  |                  |              |
|                    | DR 2; On completion of 40% excavation works   | 2       | 0             | 0           |                 | 03SEP08                                  |                | 05MAR09                                  |           | 1,396                          | l.   | Outfall O   | -1   |                  |              |
|                    | OR 3; On completion of 60% excavation works   | 2       | 0             | 0           |                 | 08NOV08                                  |                | 29MAY09                                  | -         | 1,311                          | - 1  | Outfa   |  |                  |              |
|                    | DR 4; On completion of 80% excavation works   | 2       | 0             | 0           | 1               | 14OCT09                                  |                | 08JUL10                                  | 0         |                                |      | · Odila   | Outf   | all O-1          |              |
|                    | DR 5; On completion all excavation works  | 2       | 0             | 0           |                 | 18FEB11                                  |                | 20SEP11                                  | 0         |                                |      |   | V Out  |                  | Outfall O-1  |
|                    | DR 6; On completion of cascade structure  | 2       | 0             | 0           | 1               | 16APR11                                  |                | 17NOV11                                  | 0         |                                |      |   |  |                  | at Outfall C |
| 10R1DO1014 10      | DR 7; On completion of spiral ramp to +16mPD  | 2       | 0             | 0           |                 | 23FEB10                                  | 1              | 28OCT10                                  | 0         |                                |      |   |  | at Outfall O-1   | at Outlan C  |
| 10R1DO1016 10      | OR 8; On completion of spiral access ramp   | 2       | 0             | 0           | -               | 25JUN10                                  |                | 21JAN11                                  | 0         |                                |      |   | . 1  | ♦at Outfall O-   | .1           |
| 10R1DO1018 10      | DR 9; On completion box-culvert & open channel  | 2       | 0             | 0           |                 | 07MAR11                                  | 1              | 24JUN11                                  | 0         |                                |      | and open cha  | innel underneal  |                  |              |
| 10R1DO1020 10      | OR 10; On completion of seabed protection wks   | 2       | 0             | 0           |                 | 04APR11                                  |                | 04APR11                                  | 0         |                                |      |   | vorks at Outfall   |                  |              |
|                    | OR 11; On completion of all works under this CC   | 2       | 0             | 0           |                 | 17JUN11                                  |                | 01DEC11                                  | _         | 395                            |      |   |  | Cost Gentre      |              |
| 4R5DO1104 14       | R 1; On complet. of remove exist. rock armour R 2; On complet. of 50% soil nailing by number R 3; On completion all soiling works | 2 2 2 2 | 0<br>0<br>0   | 0 0 0 0     |                 | 22JUL10<br>20JUN08<br>13AUG08<br>08NOV08 |                | 22JUL10<br>31DEC08<br>05MAR09<br>29MAY09 | 0         | 892<br>1,460<br>1,396<br>1,311 |      | <ul><li>number at 0</li><li>nailing at</li><li>ounder</li></ul> | Outfall O-1  | our at Outfall O | 4            |
| rainage Imp        | provement Works at Portion G  |         | 1             |             |                 |  | +++            |  |           |                                |      |   |  |                  |              |
| reliminary V       | Vorks   |         | 1             |             |                 |  |                |  |           |                                |      |   |  |                  |              |
| 1                  | O consent Drainage Impact Assessment Report.  | 1       | 90            | 0           | 30MAY09         | 27AUG09                                  |                | 09APR09                                  | 0         | 306                            |      | <b>.</b>  |  |                  |              |
|                    | btain TTA (ingress & egress) approval   | 2       | 0             | 0           |                 | 25NOV09                                  |                | 25NOV09                                  | 0         | 0                              |      |   |  |                  |              |
|                    | ossession of Portion G -700d of DOC   | 2       | 0             | 0           | 26NOV09         |  | 26NOV09        |  | 0         | 0                              |      |   |  |                  |              |
|                    | te clearance/Site Establishment   | 1       | 30            | 30          | 10DEC09         | 16JAN10                                  | 10DEC09        | 16JAN10                                  | 0         | 107                            |      |   | The state of the s |                  |              |
|                    | btain approval for Geotechnical Instrumentation   | 2       | 0             | 0           |                 | 25NOV09                                  |                | 25NOV09                                  | 0         | 0                              |      | 11111   |  |                  |              |
|                    | stallation of Geotechnical Instrumentation  | 1       | 12            | 12          | 26NOV09         | 09DEC09                                  | 26NOV09        | 09DEC09                                  | 0         | 0                              | - 1  |   | 1  |                  |              |
| DL6GG0108 M        | onitor/report Geotechnical Instrumentation  | 1       | 770           | 904         | 10DEC09         | 20JUL12                                  | 10DEC09        | 29DEC12                                  | 0         | 0                              |      |   | <del>- 1   1   1   1   1   1   1   1   1   1 </del>  |                  |              |
| iling Works        |   |         | 1             |             |                 |  |                |  |           |                                |      |   |  |                  |              |
| reservation of its | otain SO's consent for temp. works design   | 1       | 0             | 0           |                 | 24JAN09                                  |                | 02MAR09                                  | 0         | 368                            |      | •   |  |                  |              |
| 15R6GG0202 Mi      | bilization & set up for temp, platform  | 1       | 3             | 3           | 18JAN10         | 20JAN10                                  | 18JAN10        | 20JAN10                                  | 0         | 107                            |      |   | 1  |                  |              |
| 5R6GG0204 Co       | onstruct steel working platform for H-piling  | 1       | 110           | 110         | 21JAN10         | 08JUN10                                  | 21JAN10        | 08JUN10                                  | 0         | 107                            |      |   |  |                  |              |

| ID          | Activity Description                           | Cal | Target<br>Dur | Orig<br>Dur | Target<br>Start | Target<br>Finish | Early<br>Start | Early<br>Finish | %<br>Comp | Total<br>Float | 2008 2009 2010 2011 2012                          |
|-------------|--|-----|---------------|-------------|-----------------|------------------|----------------|-----------------|-----------|----------------|---|
| 15R6GG0206  | Mibilization & set up for H-piling; Wall 1     | 1   | 3             | 3           | 23APR10         | 26APR10          | 23APR10        | 26APR10         | 0         | 107            | 5   |
| 15R6GG0208  | 52 nos. 600mm dia. H-piles; Wall 1 @1.5 nr/day | 1   | 35            | 35          | 27APR10         | 08JUN10          | 27APR10        | 08JUN10         | 0         | 107            |   |
| 15R6GG0210  | Excavate & construct skin wall 1 at Portion G  | 1   | 35            | 35          | 09JUN10         | 21JUL10          | 09JUN10        | 21JUL10         | 0         | 107            | <b>□45m</b> , @ 1.3m/day                          |
| 15R6GG0212  | Mibilization & set up for H-piling; Wall 2     | 1   | 3             | 3           | 09JUN10         | 11JUN10          | 09JUN10        | 11JUN10         | 0         | 107            |   |
| 15R6GG0214  | 40 nos. 600mm dia. H-piles; Wall 2 @1.5 nr/day | 1   | 27            | 27          | 12JUN10         | 15JUL10          | 12JUN10        | 15JUL10         | 0         | 107            |   |
| 15R6GG0216  | Excavate & construct skin wall 2 at Portion G  | 1   | 27            | 27          | 16JUL10         | 16AUG10          | 16JUL10        | 16AUG10         | 0         | 107            | ■35m, @ 1.3m/day                                  |
| Drainage Ir | mprovement Works                               |     |               |             |                 |                  |                |                 |           |                |   |
| 15R6GG0301  | Obtain approval of ELS design package incl MS  | . 2 | 0             | 0           |                 | 07FEB09          | 1              | 17MAR09         | 0         | 645            | ◆as per ER B28.08, 4 weeks prior to work commence |
| 15R6GG0302  | Install ELS & excavate shaft for pipe jacking  | 1   | 18            | 18          | 01NOV10*        | 20NOV10          | 01NOV10*       | 20NOV10         | 0         | 45             |   |
| 15R6GG0304  | Construct 1.5m dia. drainage by pipe jacking   | 1   | 30            | 30          | 22NOV10         | 28DEC10          | 22NOV10        | 28DEC10         | 0         | 45             | ■85m, @3m/day                                     |
| 15R6GG0306  | Construct 1.5m dia. drainage by open trenching | 1   | 24            | 24          | 29DEC10         | 26JAN11          | 29DEC10        | 26JAN11         | 0         | 45             | 572m, @3m/day                                     |
| 15R6GG0308  | Construct .75m & 1.5m U and Stepped Channel    | 1   | 12            | 12          | 27JAN11         | 12FEB11          | 27JAN11        | 12FEB11         | 0         | 45             | ≣56m, @5m/day                                     |
| 15R6GG0310  | Construct 3 nos. manhole & 2 nos. catchpit     | 1   | 35            | 35          | 14FEB11         | 25MAR11          | 14FEB11        | 25MAR11         | 0         | 45             | ■@1nr/week  |
|             | Works Prior to Handover to Client              |     |               |             |                 |                  |                |                 |           |                |   |
|             | Reinstate carriageway & footway                | 1   | 6             | 6           | 26MAR11         | 01APR11          | 26MAR11        | 01APR11         | 0         |                | 72m, @12m/day                                     |
|             | Pre-handover inspections and remedial works    | 1   | 48            | 48          | 02APR11         | 02JUN11          | 02APR11        | 02JUN11         | 0         | 45             | including CCTV inspection                         |
|             | Contractor serve notice for Works completion   | 2   | 7             |             | 03JUN11         | 09JUN11          | 03JUN11        | 09JUN11         | 0         |                | 5   |
| 15R6GG0408  | SO issues completion certificate               | 2   | 21            | 21          | 10JUN11         | 30JUN11          | 10JUN11        | 30JUN11         | 0         | 549            |   |
| Schedule o  | of Milestones for Cost Centre No. 15R          |     |               |             |                 |                  |                |                 |           |                |   |
| 15R6GG0502  | 15R 1; On completion of all temp. works        | 2   | 0             | 0           |                 | 20NOV10          |                | 20NOV10         | 0         | 771            | ◆prior to commence pipe jac                       |
| 15R6GG0504  | 15R 2; On completion of 25% of pipejacking     | 2   | 0             | 0           |                 | 30NOV10          |                | 30NOV10         | 0         | 761            | ppe jacking method at Portion G                   |
| 15R6GG0506  | 15R 3; On completion of 50% of pipejacking     | 2   | 0             | 0           |                 | 08DEC10          |                | 08DEC10         | 0         | 753            | pipe jacking method at Portion G💠                 |
| 15R6GG0508  | 15R 4; On completion of 75% of pipejacking     | 2   | 0             | 0           |                 | 17DEC10          |                | 17DEC10         | 0         | 744            | pipe jacking method at Portion G💠                 |
| 15D6CC0510  | 15R 5; On completion of all pipejacking        | 2   | 0             | 0           |                 | 28DEC10          |                | 28DEC10         | 0         | 733            | pipe jacking method at Portion G�                 |
| 13K0GG0310  |  |     |               |             |                 | 02JUN11          |                | 02JUN11         |           | 577            |   |

## Appendix D

Implementation Status of Environmental Mitigation Measures

## IMPLEMENTATION SCHEDULE July 2009

| EIA<br>Ref. | Recommended Mitigation Measures   | Who to implement the measure ? | Location of the measure    | What requirements or standards for the measure to achieve? | Status   |
|-------------|---|--------------------------------|----------------------------|--|----------|
| Air Q       | uality  |                                |                            |  |          |
| 3.6.1       | As mentioned in Section 3.5, exceedances of 1-hour and 24-hour average TSP guideline levels have been predicted at most of the ASRs. Hence, mitigation measures are considered  | DSD's<br>Contractor            | Construction<br>Work Sites | Air Pollution Control<br>(Construction Dust)<br>Regulation | <b>√</b> |
|             | necessary in order to suppress the potential dust impact.   |                                |                            |  |          |
|             | The dust suppression measures set out in the <i>Air Pollution Control (Construction Dust) Regulation</i> , in fact, are more extensive. Therefore, it is expected that with watering the construction site every four times daily together with strict implementation of dust suppression measures as stipulated in the <i>Air Pollution Control (Construction Dust) Regulation</i> , the dust level is expected to be reduced by over 75%.   |                                |                            |  | ✓        |
|             | General   |                                |                            |  |          |
|             | To further ensure compliance with the guideline and AQO limit at the ASRs at all time, it is recommended to implement the <i>Air Pollution Control (Construction Dust) Regulation</i> and include good site practice in the contract clauses to minimize cumulative dust impact.In addition, a comprehensive dust monitoring and audit programme is recommended to ensure proper implementation of the identified mitigation measures. Details of the monitoring and audit requirements are provided in a separate EM&A Manual. |                                |                            |  |          |
|             | • effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building or if a canopy is provided at the first floor level, from the first floor level, up to the highest level of the scaffolding where a scaffolding is erected around the perimeter of a building under construction;   |                                |                            |  | N/A      |
|             | • dump truck for material transport should be totally enclosed by impervious sheeting;  |                                |                            |  | ✓        |
|             | <ul> <li>any excavated dusty materials or stockpile of dusty materials should be covered entirely<br/>by impervious sheeting or sprayed with water so as to maintain the entire surface wet,<br/>and recovered or backfilled or reinstated within 24 hours of the excavation or unloading;</li> </ul>   |                                |                            |  | ✓        |
|             | • stockpile of dusty materials should not extend beyond the pedestrian barriers, fencing or traffic cones;  |                                |                            |  | ✓        |
|             | <ul> <li>dusty materials remaining after a stockpile is removed should be wetted with water and<br/>cleared from the surface of roads;</li> </ul>   |                                |                            |  | ✓        |

| EIA<br>Ref. | Recommended Mitigation Measures   | Who to implement the measure ?  | Location of the measure       | What requirements or standards for the measure to achieve ?                      | Status       |
|-------------|---|---|-------------------------------|--|--------------|
| 3.6.1       | <ul> <li>the area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores;</li> </ul>  | DSD's<br>Contractor   | Construction<br>Work<br>Sites | Air Pollution Control<br>(Construction Dust)<br>Regulation                       | <b>√</b>     |
|             | <ul> <li>where a site boundary adjoins a road, street or other area accessible to the public,<br/>hoarding of not less than 2.4m high from ground level should be provided along the<br/>entire length except for a site entrance or exit;</li> </ul> |   |                               | standards for the measure to achieve?  Air Pollution Control (Construction Dust) | ✓            |
|             | • every main haul road should be scaled with concrete and kept clear of dusty materials or sprayed with water so as to maintain the entire road surface wet;  |   |                               |  | ✓            |
|             | • the portion of road leading only to a construction site that is within 30m of a designated  |   |                               |  | ✓            |
|             | • stockpile of dusty materials should be either covered entirely by impervious sheeting, placed in an area sheltered on the top and the 3 sides; or sprayed with water so as to maintain the entire surface wet;                                      | ing, unloading or ecess roads; om its body and wheels on site should be lusty materials do not nediately before, during |                               |  | ✓            |
|             | • all dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty material wet;  |   |                               | ✓  |              |
|             | <ul> <li>vehicle speed should be limited to 10 kph except on completed access roads;</li> </ul>   |   |                               |  | $\checkmark$ |
|             | • every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites;  |   |                               |  | ✓            |
|             | the load of dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle; and   |   |                               |  | ✓            |
|             | • the working area of excavation should be sprayed with water immediately before, during and immediately after the operations so as to maintain the entire surface wet.   |   |                               |  | ✓            |
| Noise       |   | _   | <del>-</del>                  |  |              |
| 4.6.1       | During Construction  Appropriate mitigation measures such as the use of quiet equipment and movable barriers will be developed to ensure that noise can be reduced to acceptable levels without causing   | DSD's<br>Contractor   | Construction<br>Work<br>Sites | Construction Activities &  | ✓            |
|             | programme delays  |   |                               |  |              |
|             | Good Site Practice Good site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs. The following package of measures should be followed during construction:                              |   |                               |  |              |
|             | <ul> <li>only well-maintained plant should be operated on-site and plant should be serviced<br/>regularly during the construction works;</li> </ul>   |   |                               |  | ✓            |
|             | <ul> <li>machines and plant that may be in intermittent use should be shut down between work<br/>periods or should be throttled down to a minimum;</li> </ul>   |   |                               |  | ✓            |

| EIA<br>Ref. | Recommended Mitigation Measures   | Who to implement the measure ? | Location of the measure    | What requirements or standards for the measure to achieve ? | Status       |
|-------------|---|--------------------------------|----------------------------|---|--------------|
| 4.6.1       | • plant known to emit noise strongly in one direction should, where possible, be orientated to direct noise away from the NSRs;   | DSD's<br>Contractor            | Construction<br>Work       | PN 2/93 Noise from<br>Construction Activities &             | ✓            |
|             | mobile plant should be sited as far away from NSRs as possible; and   |                                | Sites                      | EIAO  | $\checkmark$ |
|             | • material stockpiles and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.   |                                |                            |   | ✓            |
|             | <ul> <li>For Drill and Blast Works</li> <li>Charge mass per delay should be decreased by minimising the number of blastholes firing on each delay.</li> </ul>   |                                |                            |   | N/A          |
|             | Smaller blasthole patterns and longer delays should be used between dependent charges.  |                                |                            |   | N/A          |
|             | Times of blasting should be established to suit the situation and firing blasts when neighbours are busy with their daily tasks (and at a regular time such as lunch time).    The transfer   The tr | -                              |                            |   | N/A          |
|             | <ul> <li>For TBM Tunnelling</li> <li>For the tunnel excavation, it is anticipated that beyond the initial length (say within 30m), excavation will be carried out well within the tunnel and door should be provided to further minimize the noise nuisance to the nearby receivers.</li> </ul>   |                                |                            |   | N/A          |
| 4.6.2       | During Operation  Good site practice and noise management can significantly reduce the impact of maintenance activities on nearby NSRs. The following package of measures should be followed during construction  | DSD's<br>Contractor            | Project Area               | NCO & EIAO  |              |
|             | only well-maintained plant should be operated on-site;  | _                              |                            |   | N/A          |
|             | machines and plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; and   |                                |                            |   | N/A          |
|             | • plant known to emit noise strongly in one direction should, where possible, be orientated to direct noise away from the NSRs.   |                                |                            |   | N/A          |
|             | Quality   | 1                              | <b>.</b>                   |   |              |
| 5.9.1       | During Construction   | DSD's<br>Contractor            | Construction<br>Work Sites | Practice Note for<br>Professional Persons with              | ✓            |
|             | Mitigation measures and a spill control and response plan have been prepared for works at the intakes and work sites.   | -                              |                            | regard to site drainage<br>(ProPECC PN 1/94) and            |              |
|             | Precautions to be taken at any time of year when rainstorms are likely:  Temporarily exposed surfaces should be covered e.g. by tarpaulin.  |                                |                            | WQO   | $\checkmark$ |
|             | Temporarry exposed surfaces should be covered e.g. by tarpaum.      Temporary access roads should be protected by crushed stone or gravel.  |                                |                            |   | ✓            |
|             | Trenches should be dug and backfilled in short sections. Measures should be taken to minimize the ingress of rainwater into trenches.   |                                |                            |   | ✓            |
|             | Actions to be taken when a rainstorm is imminent or forecast:  • Silt removal facilities, should be checked to ensure that they can function properly.  |                                |                            |   | ✓            |

|   | Recommended Mitigation Measures  | Who to implement the measure ?                       | Location of the measure    | What requirements or standards for the measure to achieve ? | Status       |   |
|---|--|--|----------------------------|---|--------------|---|
|   | <ul> <li>Open stockpiles of construction materials on site should be covered with tarpaulin or<br/>similar fabric.</li> </ul>  | DSD's<br>Contractor                                  | Construction<br>Work Sites | WQO   | ✓            |   |
|   | All temporary covers to slopes and stockpiles should be secured.   |  |                            |   | ✓            |   |
|   | Actions to be taken during or after rainstorms:  • Silt removal facilities should be checked and maintained to ensure satisfactory working conditions.   |  |                            |   | ✓            |   |
|   | Spill Control and Response Plan  |  |                            |   |              |   |
|   | 1 Prevention and Precaution Measures   |  |                            |   |              |   |
|   | <ul><li>General Precautions</li><li>No discharge of silty water into watercourses.</li></ul>   |  |                            |   | ✓            |   |
|   | <ul> <li>All materials to be used during construction and operation shall be identified and their<br/>hazard potential evaluated.</li> </ul>   | nent involving activities with potential for leakage | ✓                          |   |              |   |
|   | <ul> <li>Maintenance of vehicles and equipment involving activities with potential for leakage<br/>and spillage shall only be undertaken with the areas appropriately equipped to control<br/>these discharges.</li> </ul> |  |                            |   | ✓            |   |
|   | <ul> <li>Any soil contaminated with chemicals/oils shall be removed from site and the void<br/>created shall be filled with suitable materials.</li> </ul>   |  |                            |   | ✓            |   |
|   | <ul> <li>Any construction plant which causes pollution to catchwaters or water gathering ground<br/>due to leakage of oil or fuel shall be removed off-site immediately.</li> </ul>  |  |                            |   | ✓            |   |
|   | <ul> <li>Suitable containers shall be used to hold the chemical wastes to avoid leakage or spillage<br/>during storage, handling and transport</li> </ul>  |  |                            | ✓   |              |   |
|   | <ul> <li>Chemical waste containers shall be suitably labelled to notify and warn the personnel<br/>who are handling the wastes to avoid accidents.</li> </ul>  |  |                            |   | ✓            |   |
|   | <ul> <li>Storage areas shall be selected at safe locations on site and adequate space shall be<br/>allocated to the storage area.</li> </ul>   |  |                            |   | ✓            |   |
|   | Prevent obstructions and tripping hazards.   |  |                            |   | $\checkmark$ |   |
|   | Storage Precautions  • All chemical storage containers shall be correctly labelled.  |  |                            |   | ✓            |   |
| F | Solid and impermeable enclosure walls or storage shelves shall be used.  |  |                            |   | ✓            |   |
| F | Only compatible chemical wastes shall be stored in the same storage area.  |  |                            |   | ✓            |   |
|   | <ul> <li>The storage areas shall be inspected to detect any leakages or defective containers on a<br/>regular basis.</li> </ul>  |  |                            |   |              | ✓ |
|   | <ul> <li>Suitable notices warning of hazards, emergency response plans, telephone numbers etc<br/>shall be posted around the site, including storage areas.</li> </ul>   | 1  |                            |   | ✓            |   |
|   | Large and heavy containers shall be stored at ground level.  |  |                            |   | ✓            |   |

| EIA<br>Ref. | Recommended Mitigation Measures  | Who to implement the measure? | Location of the measure | What requirements or standards for the measure to achieve ? | Status       |
|-------------|--|-------------------------------|-------------------------|---|--------------|
|             | Chemical waste containers shall be stored below eye level.   |                               |                         |   | ✓            |
| 5.9.1       | Adequate space for handling of the containers shall be provided  | DSD's                         | Construction            | WQO   | ✓            |
|             | • Spill response kits shall be located adjacent/near to the storage areas.   | Contractor                    | Work Sites              |   | $\checkmark$ |
|             | A log of chemical wastes shall be maintained.  |                               |                         |   | $\checkmark$ |
|             | Incompatible chemicals shall be stored separately.   |                               |                         |   | ✓            |
|             | 2 Responses/Action Plan  |                               |                         |   |              |
|             | All Workers shall be made aware of emergency telephone numbers and the location of all relevant pollution control equipment. Training be given in emergency response/action plans. The action include the following steps: |                               |                         |   | ✓            |
|             | • Only trained personnel who are equipped with protective clothing and equipment shall be allowed to enter the spillage area for clean up.   |                               |                         |   | ✓            |
|             | • Spills shall be transferred appropriate back into containers using suitable equipment.   |                               |                         |   | ✓            |
|             | <ul> <li>Absorbent materials shall be used to clean up the spills and shall be disposed of as<br/>chemical wastes.</li> </ul>  |                               |                         |   | ✓            |
|             | <ul> <li>Where appropriate suitable solvents may be used to clean the contaminated area after<br/>removal of all contaminated materials.</li> </ul>  |                               |                         |   | ✓            |
|             | <ul> <li>All necessary protective devices, safety equipment, containers and clean up materials for<br/>emergency use shall be maintained to a high standard.</li> </ul>  |                               |                         |   | ✓            |
|             | 3 Spill Clean Up and Disposal  |                               |                         |   |              |
|             | Effect the response plan.  |                               |                         |   | ✓            |
|             | Control the leakage and absorb the spillage using suitably absorbent materials.  |                               |                         |   | ✓            |
|             | Provide safety equipment and personal protective equipment for handling of chemical wastes would be similar to that for handling of chemicals.   |                               |                         |   | ✓            |
|             | Safety equipment includes but is not limited to: • Fire extinguishers.   |                               |                         |   | ✓            |
|             | • Spades, brushes, dustpan, mop and bucket (or similar readily available on site).   |                               |                         |   | ✓            |
|             | • Absorbent material such as dry sand, tissues and toweling (all materials readily available on-site).   |                               |                         |   | $\checkmark$ |
|             | Containers including plaster bags, drums, etc.   |                               |                         |   | ✓            |
|             | Absorbing materials.   |                               |                         |   | ✓            |
|             | • Pumps.   | 1                             |                         |   | ✓            |
|             | Personal protective equipment includes as appropriate:  • First-aid kits.  | 1                             |                         |   | ✓            |
|             | Safety helmet and goggles.   |                               |                         |   | ✓            |
|             | Gloves which can resist chemical reaction.   | 1                             |                         |   | ✓            |

| EIA<br>Ref. | Recommended Mitigation Measures   | Who to implement the measure? | Location of the measure       | What requirements or standards for the measure to achieve ?  | Status   |
|-------------|---|-------------------------------|-------------------------------|--|----------|
|             | Protective boot and clothing.   | DSD's                         | Construction                  | WQO  | ✓        |
| 5.9.1       | Respirators and gas masks.  | Contractor                    | Work Sites                    |  | ✓        |
|             | Face visor and masks.   |                               |                               |  | ✓        |
| 5.9.2       | Emergency Responses to Spillages  |                               |                               |  |          |
|             | Emergency plans and clean up procedures will need to be provided by the Contractor recognising his specific working methods and construction programme, activities and sequences. Agreement must be sought prior to commencement of the construction work but the following principles should be considered.  |                               |                               |  |          |
|             | The emergency plans should include the procedures for:  |                               |                               |  | ✓        |
|             | spill prevention and precaution;  | _                             |                               |  |          |
|             | response actions; and   |                               |                               |  | ✓        |
|             | spill clean up and disposal.  |                               |                               |  | ✓        |
|             | Spill prevention and precaution embraces good site practice and covers:   |                               |                               |  | ✓        |
|             | good housekeeping practices;  |                               |                               |  | ,        |
|             | chemical storage requirements; and  |                               |                               |  | <b>√</b> |
|             | chemical transfer and transport.  |                               |                               |  | <b>√</b> |
| 5.9.3       | During Operation  | DSD's<br>Contractor           | Project Area                  |  |          |
|             | Regular inspection of the tunnels is essential to monitor the structural integrity and proper functioning of the drainage tunnel, which allows repairing of structural deterioration when it begins to develop. It is recommended that routine inspection shall be carried out at least two times per year for the drainage tunnel at the beginning and end of wet season from April to September.                                |                               |                               |  | N/A      |
| Waste       | Management  |                               |                               |  |          |
| 6.5.1       | During Construction  Vegetation Removed from Site Clearance  Wastes generated from site clearance shall be sorted and excavated topsoil segregated from roots for re-use in landscaping works, thus eliminating the need for off-site disposal.   | DSD's<br>Contractor           | Construction<br>Work<br>Sites | Waste Disposal Ordinance<br>(Cap.354); Waste Disposal<br>(Chemical Wastes)<br>(General) Regulation (Cap<br>354) and ETWBTC No. | ✓        |
|             | Construction and Demolition Materials  The Contractor should reuse any C&D material on-site. C&D waste should be segregated and stored in different containers to other wastes to encourage the re-use or recycling of materials and their proper disposal. The use of wooden hoardings shall not be allowed. An alternative material, which can be reused or recycled, for example, metal (aluminium, alloy, etc) shall be used. |                               |                               | 15/2003, Waste anagement on Construction Site  | <b>√</b> |

| EIA<br>Ref. | Recommended Mitigation Measures  | Who to implement the measure ? | Location of the measure    | What requirements or standards for the measure to achieve ?  | Status       |
|-------------|--|--------------------------------|----------------------------|--|--------------|
| 6.5.1       | As referred to the section 6.4.1, the 317,936m3 of inert surplus material generated by the project is suitable for public fill. The public fill reception facility at Tuen Mun Area 38 provides a suitable facility for the reuse of surplus inert C&D material generated from the project.  | DSD's<br>Contractor            | Construction<br>Work Sites | standards for the measure  |              |
|             | Under the contract, the contractor will be required to minimise the generation of C&D material and reuse it on site through the following:   |                                |                            |  |              |
|             | (a) to plan in the design and construction, methods to minimise the generation of C&D material;  |                                |                            |  | ✓            |
|             | (b) to submit a Waste Management Plan (WMP) in accordance with Environment Transport and Works Bureau Technical Circular (ETWBTC) No. 15/2003 or any superseding circular(s);  |                                |                            |  | ✓            |
|             | (c) to reuse recycled aggregates in accordance with ETWBTC No. 12/2002 or any superseding circular(s);   |                                |                            |  | ✓            |
|             | (d) to observe the requirements of the Trip-Ticket System, stipulated in ETWBTC No. 31/2004 or any superceding circular(s), for disposal of C&D material;  |                                |                            |  | ✓            |
|             | (e) to incorporate a Waste Management System into the WMP for effective management and control of C&D materials to avoid/reduce/minimise the generation of C&D material during construction.   |                                |                            |  | ✓            |
|             | The contractor will be required to properly sort into inert C&D materials, metals, timber and other non-inert C&D material in the workplace to prevent cross-contamination.  |                                |                            |  | $\checkmark$ |
|             | In addition, DSD will conduct site inspection to monitor the contractors' performance in the implementation of the WMP and other relevant specified requirements.  | DSD                            | Construction<br>Work Sites |  | <b>√</b>     |
|             | Excavated Materials  Excavated materials should be segregated from other wastes to avoid contamination thereby ensuring acceptability at public filling areas and avoiding the need for disposal at landfill.  Municipal Waste   | DSD's<br>Contractor            | Construction<br>Work Sites | WDO (Cap.354), ETWBTC No. 15/2002 and ETWBTC No. 31/2004  WDO (Cap.354) and ETWBTC No. 15/2003  WDO (Cap.354) and ETWBTC No. 15/2003  WDO (Cap.354), ETWBTC No. 15/2003 and ETWBTC No. 15/2003 | <b>√</b>     |
|             | Temporary refuse collection facilities should be set-up by the contractor and wastes should be stored in appropriate containers prior to collection and disposal.  |                                |                            |  | ✓            |
|             | Domestic effluent generated by the workforce will be directed to foul sewer or chemical toilets if public facilities are not available.  |                                |                            |  | $\checkmark$ |
| 6.5.1       | Waste Management Plan  A Waste Management Plan (WMP) for the construction of the Project should be prepared as part of the contractors submission. It will provide recommendations for appropriate recycling or disposal route and should include method statement for stockpiling and transportation of the excavated material and other construction wastes should also be included in the WMP and approved before the commencement of construction. All mitigation measures arising from the approved WMP shall be fully implemented. | DSD's<br>Contractor            | Construction<br>Work Sites | No. 15/2003 and ETWBTC   | <b>√</b>     |

| EIA<br>Ref.    | Recommended Mitigation Measures  | Who to implement the measure ?  | Location of the measure       | What requirements or standards for the measure to achieve ? | Status |
|----------------|--|---|-------------------------------|---|--------|
|                | For the purpose of enhancing the management of C&D material including rock, and to minimize its generation at source, a C&D Material Management Plan (C&DMMP) has been prepared for this project and would be processed in accordance with the Environment, Transport and Works Bureau Technical Circular (Works) No. 33/2002 - Management of Construction and Demolition Material Including Rock.   |   |                               |   | N/A    |
| <b>Ecology</b> |  |   |                               |   |        |
| 7.7.1          | Avoidance  The surface structures are located mainly on existing disturbed areas (ie pollution and urbanisation) and have generally avoided the natural stream sections of higher species diversity and abundance of aquatic organisms.  | DSD's<br>Contractor   | Construction<br>Work<br>Sites | EIAO  | ✓      |
|                | The major construction activities at streams are scheduled to avoid wet season of high water flow which may adversely affect the downstream natural habitats due to the construction runoff.   |   |                               |   | ✓      |
| 7.7.2          | Minimisation   | 1   |                               |   |        |
|                | The previous discussion in Section 7.6.4 has indicated that the impacts on ecological resources due to the construction and operation of the proposed Project are generally expected to be low. The following mitigation measures to minimise impacts and disturbance to the surrounding habitats, are recommended.  | onstruction and operation of the proposed Project are generally are following mitigation measures to minimise impacts and disturbance |                               |   |        |
|                | Measures for Construction Runoff Install sheet piles/cofferdam/weir along the boundary of the works area within the stream habitats in particular Sam Dip Tam Stream and Tso Kung Tam Stream before the commencement of works to prevent construction runoff during construction. Provision of adequate designed sand/ silt removal facilities such as sand traps, silt traps and sediment basin in the areas which could potentially be affected may be required. |   |                               |   | ✓      |
|                | Good Construction Practice   |   |                               |   | ✓      |
|                | Erect fences along the boundary of the works area before the commencement of works to prevent tipping, vehicle movements, and encroachment of personnel onto adjacent areas, particularly the stream habitats.   | DSD's<br>Contractor   | Construction<br>Work<br>Sites | EIAO  | ✓      |
|                | Avoid any damage and disturbance, particularly those caused by filling and illegal dumping, to the remaining and surrounding natural stream habitats.  |   |                               |   | ✓      |
|                | Regularly check the work site boundaries to ensure that they are not breached and that no damage occurs to surrounding areas.  |   |                               |   | ✓      |
|                | Prohibit and prevent open fires within the site boundary during construction and provide temporary fire fighting equipment in the work areas.  |   |                               |   | ✓      |
|                | Treat any damage that may have occurred to individual major trees in the adjacent area with surgery.   |   |                               |   | ✓      |

| EIA<br>Ref. | Recommended Mitigation Measures   | Who to implement the measure ? | Location of the measure    | What requirements or standards for the measure to achieve? | Status   |
|-------------|---|--------------------------------|----------------------------|--|----------|
|             | Reinstate temporary work sites/disturbed areas, particularly stream of natural bottom and bank, plantation, intertidal habitat, and the areas located within the proposed Ecological Park, immediately after completion of the construction works, ie through on-site tree/shrub planting and reprovision of natural or semi-natural bottom (also refer to Section 7.7.3), in order to facilitate the recolonisation of the wildlife recorded during the baseline surveys. Tree/shrub species used should make reference from those in the surrounding area   | DSD's<br>Contractor            | Construction<br>Work Sites | EIAO   | <b>√</b> |
| 7.7.3       | Provide natural stream bed (approximately 0.03 ha) for the new Dry Weather Flow Channel (created from village-orchard) by laying natural stones at Intake I-2 (Figure 7.7). The reinstated stream bed shall mimic the existing natural conditions with certain portion of big boulders creating the lentic and lotic zones for the aquatic fauna, and while it will be developed during detailed design may draw on concepts shown in Figure 2.18.  Provide natural stream bed (approximately 0.5 ha,) for the Approach Channel and Dry   |                                |                            |  | N/A      |
|             | Weather Flow Channel by laying natural stones at Intake I-3 (Figure 7.8). The reinstated stream bed shall mimic the existing natural conditions (rocky bottom with very limited aquatic plants) with certain portion of big boulders creating the lentic and lotic zones for the aquatic fauna, and while it will be developed during detailed design may draw on concepts shown in Figure 2.18.  |                                |                            |  | N/A      |
|             | Provide natural bottom (ie retain the existing stream bed or reinstate the stream bed by providing boulders/ rocks, riprap or gabion) for the affected stream sections (Figure 7.8) in order to allow natural colonisation of aquatic fauna.  |                                |                            |  | N/A      |
|             | Provide at least 2.2 ha of compensatory planting on the permanent and temporary affected plantation areas, particularly the slopes along access road and adjacent to Intake I-3 and cascade at Outfall O-1, after construction to stabilise the slope to present soil erosion and consequent stream sedimentation. Among the 2.2 ha compensatory planting, at least 0.5 ha of compensatory tree planting on the new formed slope along the access road of the Intake I-3 and 0.5 ha of compensatory tree planting over the cascade (by constructing intermediate platform) at Outfall O-1 will be provided (location refer to Figures 7.4 – 7.6). Species used for planting should take reference from the species identified in Appendix F and be native to Hong Kong or South China region. |                                |                            |  | N/A      |
|             | Provide armour rocks for the affected intertidal habitat in order to allow natural colonisation of intertidal organisms.  |                                |                            |  | N/A      |

| EIA<br>Ref. | Recommended Mitigation Measures  | Who to implement the measure ?                              | Location of the measure       | What requirements or standards for the measure to achieve ? | Status   |
|-------------|--|---|-------------------------------|---|----------|
| Cultura     | Heritage   |   |                               |   |          |
| 8.6         | As no impacts on recorded archaeological sites or area with archaeological potential were identified within the Study Area, no mitigation measure for archaeological resources is considered necessary.  |   |                               |   | N/A      |
|             | The construction methods to be employed should seek to avoid potential vibration impacts to Kuen Yuen Tung Monastery at Lo Wai, the Western Monastery, Yuen Yuen Home for the Aged, Hong Hoi Chee Hong Temple, Chiu Yum Tsing Yuen, Tse's Grave, Wan Lin Bridge and Sam Dip Tam Rock Carving in Sam Dip Tam and the Tin Hau Temple, Yam Kom Tau Village Rural Committee and the Yeung's Ancestral Hall in Yau Kom Tau as these sites fall within 50 m of the Preferred Option of the drainage tunnel alignment or associated Intakes/Outfall construction activities. Construction works that generates excessive vibration in close proximity to these sites should be restricted to protect the building from adverse vibration impacts and to ensure that the building structures will not be damaged as a result of these impacts. | DSD's<br>Contractor   | Construction<br>Work Sites    | EIAO  | ✓        |
|             | In order to ensure that no structural or superficial damage will be caused by the construction activities, a precautionary approach involving a pre-construction condition survey and establishment of appropriate vibration limits for the potentially impacted structures should be adopted. Protection measures for the potentially impacted structures, if considered necessary from the pre-construction condition survey, should be implemented prior to the commencement of construction works. Vibration monitoring during the construction phase should be undertaken as part of the EM&A programme.  | Qualified<br>archaeologist/<br>built heritage<br>specialist | Construction<br>Work<br>Sites | EIAO  | <b>√</b> |
| Fisherie    | <u>s</u>   | •   | 1                             |   |          |
| 10.6        | In accordance with the guidelines in the <i>EIAO-TM</i> on fisheries impact assessment the general policy for mitigating impacts to fisheries, in order of priority are avoidance, minimization and compensation.  | DSD's<br>Contractor   | Construction<br>Work Sites    | EIAO  | N/A      |
| Remarks     | Impacts to fisheries resources and fishing operations have largely been avoided during the construction and operation of the drainage tunnel through the avoidance of dredging, reclamation and filling activities. Good construction practice and associated measures were recommended in Water Quality Assessment in Section 5 to control water quality impacts to within acceptable levels and are also expected to control impacts to fisheries resources. Hence, no fisheries-species mitigation measures are required during construction and operation of the drainage tunnel.  Compliance of mitigation measure  |   |                               |   | N/A      |

Remarks:

Compliance of mitigation measure

× Non-compliance of mitigation measure

N/A Not applicable

Appendix E

## Status of License and Permit







#### **Updated Status of Environmental Permit & Licence**

| Application Date | Environmental Permit / Licence  | <b>Issued Date</b> | Ref No.      | Account No.       | Permit / Licence<br>No. | Permit / Licence<br>Validity Date | Remarks  |
|------------------|---|--------------------|--------------|-------------------|-------------------------|-----------------------------------|--|
| 2 Jan 2008       | Registration as a Waste Producer  | 3 Jan 2008         | 001026707    |                   |                         |                                   | Contractor had received the acknowledge receipt on 3 Jan 2008.   |
| 2 Jan 2008       | Waste Disposal (Chemical Waste) (General) -<br>Chemical Waste Producer                                  | 26 Feb 2008        |              | 5111-324-M2703-01 |                         |                                   |  |
| 2 Jan 2008       | Waste Disposal (Charges for Disposal of<br>Construction Waste) Regulation - Billing<br>Account          | 17 Jan 2008        |              | 7006574           |                         |                                   |  |
| 10 Jan 2008      | Notification Pursuant to Section 3(1) of the Air<br>Pollution Control (Construction Dust)<br>Regulation | 10 Jan 2008        | 001026901    |                   |                         |                                   | Contractor had received the acknowledge receipt on 10 Jan 2008.  |
| 25 Feb 2008      | Water Pollution Control Ordinance – Outfall O-1   | 7 Aug 2008         | 001028154    |                   | EP760/323/012997I       | 7 Aug 2008 -<br>31 Aug 2013       | Contractor had received the acknowledge receipt on 3 March 2008. Public Notice had been issued on 16 June 2008. Application fees had been paid on 28 July 2008. Licence had been issued on 7 Aug 2008. |
| 9 Apr 2008       | Notification of Change in the Registration of Chemical Waste Producer                                   | 29 Apr 2008        |              | 5111-324-M2703-01 |                         |                                   | MCSJV's Managing Director had been changed from Mr. Richard Myrans to Mr. Christopher Shaw.  |
| 10 Apr 2008      | Further Environmental Permit  | 6 May 2008         | FEP-088/2008 |                   | FEP-01/275/2007         |                                   | Contractor had received the acknowledge receipt on 17 April 2008. FEP had been issued on 6 May 2008.   |
| 18 Apr 2008      | Water Pollution Control Ordinance – Intake I-1  | 19 Jun 2008        | 001029978    |                   | EP760/327/013315I       | 19 Jun 2008 -<br>30 Jun 2013      | Contractor had received the acknowledge receipt on 8 May 2008. Application fees had been paid on 13 June 2008. Licence had been issued on 19 June 2008.  |
| 18 Apr 2008      | Water Pollution Control Ordinance – Intake I-2  | 2 Jul 2008         | 001029959    |                   | EP760/321/013020I       | 2 Jul 2008 -<br>31 Jul 2013       | Contractor had received the acknowledge receipt on 8 May 2008. Application fees had been paid on 26 June 2008. Licence had been issued on 2 July 2008.   |
| 18 Apr 2008      | Water Pollution Control Ordinance – Intake I-3  | 5 Aug 2008         | 001029960    |                   | EP760/323/013324I       | 5 Aug 2008 -<br>31 Aug 2013       | Contractor had received the acknowledge receipt on 8 May 2008. Public Notice had been issued on 16 June 2008. Application fees had been paid on 28 July 2008. Licence had been issued on 5 Aug 2008.   |
| 18 Apr 2008      | Water Pollution Control Ordinance – Portion I   | 26 Jun 2008        | 001029974    |                   | EP760/350/013334I       | 26 Jun 2008 -<br>30 Jun 2013      | Contractor had received the acknowledge receipt on 8 May 2008. Application fees had been paid on 13 June 2008. Licence had been issued on 26 June 2008.  |
| 3 Jun 2008       | Variation of Environmental Permit   | 27 Jun 2008        | VEP-264/2008 |                   | EP-275/2007/A           |                                   | Application was submitted by DSD on 3 June 2008. Licence had been issued on 27 June 2008.  |

| 18 Jun 2008 | Variation of Environmental Permit   | 27 Jun 2008 | VEP-266/2008 | <br>FEP-01/275/2007/A |                                 | Contractor had received the acknowledge receipt on 23 June 2008. Licence had been issued on 27 June 2008.   |
|-------------|---|-------------|--------------|-----------------------|---------------------------------|---|
| 23 Jul 2008 | Water Pollution Control Ordinance – Intake I-1<br>(Intersection of Wo Yi Hop Lane and Ho Fung<br>College)   | 27 Aug 2008 | 001031974    | <br>EP760/325/013536I | 27 Aug 2008 -<br>31 Aug 2013    | Contractor had received the acknowledge receipt on 25 July 2008. Application fees had been paid on 19 Aug 2008. Licence had been issued on 27 Aug 2008.               |
| 2 Sep 2008  | Variation of Environmental Permit   | 25 Sep 2008 | VEP-271/2008 | <br>EP-275/2007/B     |                                 | Application was submitted by DSD on 2 Sept 2008. Licence had been issued on 25 Sept 2008.   |
| 21 Nov 2008 | Construction Noise Permit  1) Chai Wan Kok Valve House (Near Summit Terrace - Tusen Wan)  2) Valve House (Near The Wonderland - Castle Peak Road- Ting Kau) |             | 001034930    | <br>                  |                                 | Contractor had applied the permit on 21 Nov 2008. Contractor had received the acknowledge receipt on 2 Dec 2008. Notice of Refusal had been received on 6 Dec 2008.   |
| 13 Jan 2009 | Construction Noise Permit - Outfall O-1   |             | 301201       | <br>                  |                                 | Contractor had applied the permit on 13 Jan 2009. Contractor had received the acknowledge receipt on 13 Jan 2009. Notice of Refusal had been received on 20 Jan 2009. |
| 19 Jan 2009 | Construction Noise Permit - Intake I-1  | 3 Feb 2009  | 301401       | <br>GW-RW0052-09      | 23 Feb 2009 -<br>22 Aug 2009    | Contractor had applied the permit on 19 Jan 2009. Contractor had received the acknowledge receipt on 20 Jan 2009. CNP had been issued on 3 Feb 2009.                  |
| 22 Jan 2009 | Construction Noise Permit - Intake I-3  |             | 301474       | <br>                  |                                 | Contractor had applied the permit on 22 Jan 2009. Contractor had received the acknowledge receipt on 22 Jan 2009. Notice of Refusal had been received on 2 Feb 2009.  |
| 3 Feb 2009  | Construction Noise Permit - Outfall O-1   |             | 301841       | <br>                  |                                 | Contractor had applied the permit on 3 Feb 2009. Contractor had received the acknowledge receipt on 6 Feb 2009. Notice of Refusal had been received on 12 Feb 2009.   |
| 25 Feb 2009 | Construction Noise Permit - Intake I-3  | 10 Mar 2009 | 302429       | <br>GW-RW0079-09      | 16 March 2009 -<br>15 Sept 2009 | Contractor had applied the permit on 25 Feb 2009. Contractor had received the acknowledge receipt on 26 Feb 2009. CNP had been issued on 10 March 2009.               |
| 2 Mar 2009  | Construction Noise Permit - Outfall O-1   | 12 Mar 2009 | 302525       | <br>GW-RW0080-09      | 16 March 2009 -<br>15 May 2009  | Contractor had applied the permit on 2 March 2009. Contractor had received the acknowledge receipt on 2 March 2009. CNP had been issued on 12 March 2009.             |
| 23 Mar 2009 | Construction Noise Permit - Intake I-1  | 3 Apr 2009  | 303326       | <br>GW-RW0108-09      | 6 April 2009 -<br>5 Oct 2009    | Contractor had applied the permit on 23 March 2009. Contractor had received the acknowledge receipt on 24 March 2009. CNP had been issued on 3 April 2009.            |
| 29 Apr 2009 | Water Pollution Control Ordinance – Intake I-3<br>(Additional Discharge Point)  |             | 305058       | <br>                  |                                 | Contractor had applied the Licence on 29 April 2009. Contractor had received the acknowledge receipt on 11 May 2009. Waiting for EPD further notification.            |
| 12 May 2009 | Construction Noise Permit - Outfall O-1   | 29 May 2009 | 305266       | <br>GW-RW0198-09      | 29 May 2009 -<br>24 Nov 2009    | Contractor had applied the permit on 12 May 2009. Contractor had received the acknowledge receipt on 15 May 2009. CNP had been issued on 29 May 2009.                 |

Appendix F

Calibration Certificates

**Project Title:** 

Design and Construction of Tsuen Wan Drainage Tunnel

**Monitoring Location:** 

Ho Fung College

Calibration Date:

05-Jun-09

**Calibration Due Date** 

05-Aug-09

Time:

11:20

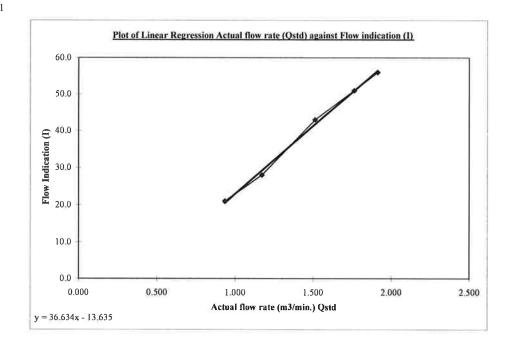
| Sampler Model:          | BM2000HX |
|-------------------------|----------|
| Serial No.:             | 4994     |
| Calibrator Orifice no.: | 1559     |
| Slope (m):              | 1.97702  |
| Intercept (b):          | -0.00070 |
| Correction coeff. (r)   | 0.99992  |

$$Flow(corrected) = \sqrt{H \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta}}$$

$$Qstd = \frac{1}{m} \times (\sqrt{H \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta}} - b)$$

| Sample no. | Pressure Drop (H), inch | Flow (correted), m <sup>3</sup> /min | Actual flow rate (Qstd), m3/min | Flow indication (I), arbitrary |
|------------|-------------------------|--------------------------------------|---------------------------------|--------------------------------|
| 1          | 14.7                    | 3.781                                | 1.913                           | 56.0                           |
| 2          | 12.5                    | 3.486                                | 1.764                           | 51.0                           |
| 3          | 9.2                     | 2.991                                | 1.513                           | 43.0                           |
| -4         | 5.5                     | 2.313                                | 1.170                           | 28.0                           |
| 5          | 3,5                     | 1.845                                | 0.933                           | 21.0                           |

Correlation Coefficient: 0.9981



1HPa = 0.750062 mmHg

Calibrated by:

Mak Kei Ho

Ho

Date: 8-6-09

Checked by:

Tang Hiu Yeung

h. )

)

Date: 8-6-09

Project Title:

Design and Construction of Tsuen Wan Drainage Tunnel

**Monitoring Location:** 

Heng Hoi Chi Hong Ship Temple

Calibration Date:
Calibration Due Date

05-Jun-09 05-Aug-09

Time:

12:35

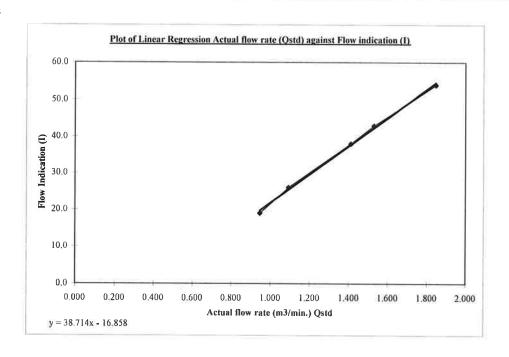
| Sampler Model:          | BM2000HX |
|-------------------------|----------|
| Serial No.:             | 5875     |
| Calibrator Orifice no.: | 1559     |
| Slope (m):              | 1.97702  |
| Intercept (b):          | -0.00070 |
| Correction coeff. (r)   | 0.99992  |

$$Flow(corrected) = \sqrt{H \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta}}$$

| Oxid | _1 | 1 H | × Pa | Tsid | <i>b</i> ) |
|------|----|-----|------|------|------------|
| 2314 | m  | 1   | Psid | Ta   | -0)        |

| Sample no. | Pressure Drop (H), inch | Flow (corrcted), m <sup>3</sup> /min | Actual flow rate (Qstd), m3/min | Flow indication (I), arbitrary |
|------------|-------------------------|--------------------------------------|---------------------------------|--------------------------------|
| 1          | 13.7                    | 3.650                                | 1.846                           | 54.0                           |
| 2          | 9.4                     | 3.023                                | 1,530                           | 43.0                           |
| 3          | 8.0                     | 2.789                                | 1,411                           | 38.0                           |
| 4          | 4.8                     | 2.160                                | 1.093                           | 26.0                           |
| 5          | 3.6                     | 1,871                                | 0.947                           | 19.0                           |

Correlation Coefficient: 0.9988



Remark 1HPa = 0.750062 mmHg

Calibrated by:

Mak Kei Ho

(

Date: 8-6-0

110

)

Checked by:

Tang Hiu Yeung

Date: 8-6-09

**Project Title:** 

Design and Construction of Tsuen Wan Drainage Tunnel

Monitoring Location:

Long Beach Gardan

Calibration Date: Calibration Due Date 05-Jun-09

Time:

05-Aug-09 08:15

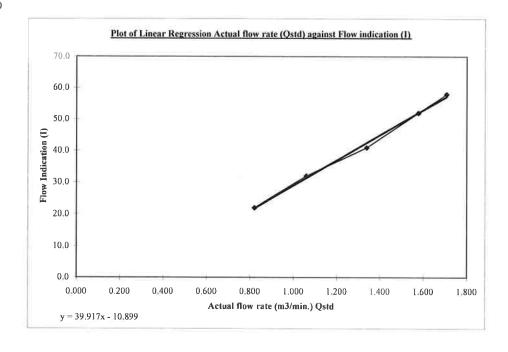
| Sampler Model:          | TE5005X  |
|-------------------------|----------|
| Serial No.:             | 0390     |
| Calibrator Orifice no.: | 1559     |
| Slope (m):              | 1.97702  |
| Intercept (b):          | -0.00070 |
| Correction coeff. (r)   | 0.99992  |

$$F$$
low(corrected) =  $\sqrt{H \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta}}$ 

$$Qstd = \frac{1}{m} \times (\sqrt{H \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta}} - b)$$

| Sample no. | Pressure Drop (H), inch | Flow (correted), m3/min | Actual flow rate (Qstd), m3/min | Flow indication (I), arbitrary |
|------------|-------------------------|-------------------------|---------------------------------|--------------------------------|
|            | 11.7                    | 3.373                   | 1,706                           | 58.0                           |
| 2          | 10.0                    | 3,118                   | 1,578                           | 52,0                           |
| 3          | 7.2                     | 2.646                   | 1,339                           | 41.0                           |
| 4          | 4.5                     | 2.092                   | 1.058                           | 32.0                           |
| 5          | 2.7                     | 1.620                   | 0,820                           | 22.0                           |

Correlation Coefficient: 0.9980



Remark

1HPa = 0.750062 mmHg

Calibrated by:

Mak Kei Ho

)

Date: 8-6-09

Checked by:

Tang Hiu Yeung

Date: 8-6-09

Project Title:

Design and Construction of Tsuen Wan Drainage Tunnel

**Monitoring Location:** 

Greenview Terrance

Calibration Date: **Calibration Due Date**  05-Jun-09 05-Aug-09

Time:

09:45

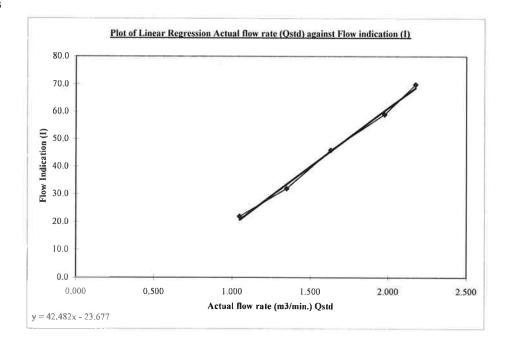
| Sampler Model:          | TE5005X  |
|-------------------------|----------|
| Serial No.:             | 0646     |
| Calibrator Orifice no.: | 1559     |
| Slope (m):              | 1.97702  |
| Intercept (b):          | -0.00070 |
| Correction coeff. (r)   | 0.99992  |

$$Flow(corrected) = \sqrt{H \times \frac{Pa}{Pstd}} \times \frac{Tstd}{Ta}$$

| Oxid | $=\frac{1}{-}\times(\sqrt{\frac{1}{1}})$ | HV   | Pa   | _ | Tstd | <i>b</i> ) |
|------|--|------|------|---|------|------------|
| Qara | - m ^ (1                                 | 11 ^ | Psid | ^ | Ta   | - 0)       |

| Sample no. | Pressure Drop (H), inch | Flow (correted), m <sup>3</sup> /min | Actual flow rate (Qstd), m <sup>3</sup> /min | Flow indication (I), arbitrary |
|------------|-------------------------|--------------------------------------|--|--------------------------------|
| 1          | 19.0                    | 4.298                                | 2.174  | 70.0                           |
| 2          | 15.7                    | 3,907                                | 1.977  | 59.0                           |
| 3          | 10.7                    | 3.225                                | 1.632  | 46.0                           |
| 4          | 7.3                     | 2.664                                | 1.348  | 32.0                           |
| 5          | 4.4                     | 2.068                                | 1.047  | 22.0                           |

Correlation Coefficient: 0.9975



Remark 1HPa = 0.750062 mmHg

Calibrated by:

Mak Kei Ho

Ho

)

)

Checked by:

Tang Hiu Yeung



TISCH ENVIROMENTAL, INC. 145 SOUTH MIAMI AVE. VILLAGE OF CLEVES, OH 45002 513.467.9000 877.263.7610 TOLL FREE 513.467.9009 FAX WWW.TISCH-ENV.COM

#### AIR POLLUTION MONITORING EQUIPMENT

#### ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

| Date - M<br>Operator     |   | Rootsmeter<br>Orifice I.I           |  | 833620<br>1559  | Ta (K) -<br>Pa (mm) -                   | 293<br>- 765.81                                |
|--------------------------|---|-------------------------------------|--|---|---|--|
| PLATE OR Run # 1 2 3 4 5 | VOLUME START (m3)  NA NA NA NA NA NA NA | VOLUME STOP (m3)  NA NA NA NA NA NA | DIFF<br>VOLUME<br>(m3)<br><br>1.00<br>1.00<br>1.00<br>1.00 | DIFF<br>TIME<br>(min)<br><br>1.4130<br>0.9900<br>0.8850<br>0.8420<br>0.6970 | METER DIFF Hg (mm) 3.2 6.4 7.9 8.7 12.7 | ORFICE DIFF H2O (in.) 2.00 4.00 5.00 5.50 8.00 |

#### DATA TABULATION

| Vstd  | (x axis)<br>Qstd                               | (y axis)                                       |                | Va   | (x axis)<br>Qa                                 | (y axis)                                       |
|---|--|--|----------------|--|--|--|
| 1.0205<br>1.0163<br>1.0142<br>1.0132<br>1.0078  | 0.7222<br>1.0266<br>1.1460<br>1.2033<br>1.4459 | 1.4317<br>2.0247<br>2.2637<br>2.3742<br>2.8633 |                | 0.9958<br>0.9917<br>0.9896<br>0.9886<br>0.9834 | 0.7047<br>1.0017<br>1.1182<br>1.1741<br>1.4109 | 0.8748<br>1.2371<br>1.3831<br>1.4506<br>1.7495 |
| Qstd slop<br>intercept<br>coefficie<br>y axis = | (b) =<br>ent (r) =                             | 1.97702<br>-0.00070<br>0.99992<br>             | <br>  <br>[a)] | Qa slope<br>intercept<br>coefficie<br>y axis = | = (b) $=$                                      | 1.23797<br>-0.00043<br>0.99992                 |

#### CALCULATIONS

Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta)
Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa] Qa = Va/Time

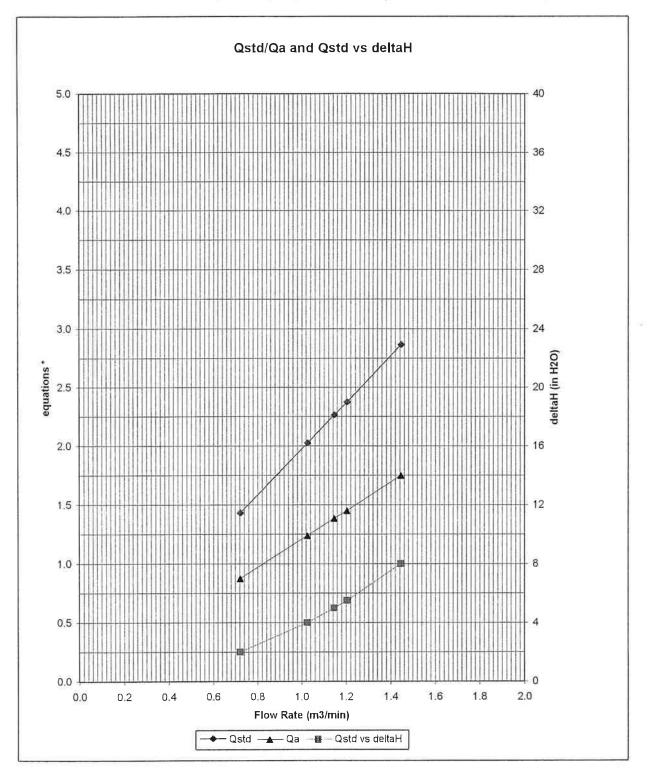
For subsequent flow rate calculations:

Qstd =  $1/m\{ [SQRT (H2O (Pa/760) (298/Ta))] - b\}$ Qa =  $1/m\{ [SQRT H2O (Ta/Pa)] - b\}$ 



TISCH ENVIROMENTAL, INC.
145 SOUTH MIAMI AVE.
VILLAGE OF CLEVES, OH 45002
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877.263.7610 TOLL FREE
513.467.9009 FAX
WWW.TISCH-ENV.COM

#### AIR POLLUTION MONITORING EQUIPMENT



\* y-axis equations:

Qstd series:

$$\sqrt{\Delta H \left(\frac{P a}{P s t d}\right) \left(\frac{T s t d}{T a}\right)}$$

Qa series:

$$\sqrt{(\Delta H (Ta / Pa))}$$

# 1559

Certificate No.: C090316

## Certificate of Calibration

## This is to certify that the equipment

Description: Integrating Sound Level Meter

Manufacturer: Bruel & Kjaer

Model No.: 2238

Serial No.: 2285726

has been calibrated for the specific items and ranges. The results are shown in the Calibration Report No. C090316.

The equipment is supplied by

Co. Name: Hyder Consulting Limited

Address: 47/F., Hopewell Centre, 183 Queen's Road East, Wanchai, Hong Kong

Date of Issue: 21 January 2009

Certified by:

C Lee

The test equipment used for calibration are traceable to the National Standards as specified in this report. This report shall not be reproduced except in full and with prior written approval from this laboratory.



Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No.: C090563

## Certificate of Calibration

## This is to certify that the equipment

Description: Acoustical Calibrator

Manufacturer: Bruel & Kjaer

Model No.: 4231

Serial No.: 1770806

has been calibrated for the specific items and ranges. The results are shown in the Calibration Report No. C090563.

### The equipment is supplied by

Co. Name: Hyder Consulting Limited

Address: 47/F., Hopewell Centre, 183 Queen's Road East, Wanchai, Hong Kong

Date of Issue: 6 February 2009

Certified by:

Tel: 2927 2606

Fax: 2744 8986

E-mail: callab@suncreation.com

Website: www.suncreation.com



### 輝 創 工 程 有 限 公 司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No.: C083507

# Certificate of Calibration

## This is to certify that the equipment

Description: Precision Sound Level Meter

Manufacturer: Rion

Model No.: NA-27

Serial No.: 00201194

has been calibrated for the specific items and ranges. The results are shown in the Calibration Report No. C083507.

### The equipment is supplied by

Co. Name: Envirotech Services Co.

Address: Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,

Hong Kong

Date of Issue: 11 July 2008

Certified by:

K C/Lee

The test equipment used for testing are traceable to the National Standards as specified in this report. This report shall not be reproduced except in full and with prior written approval from this laboratory.



Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No.: C083506

# Certificate of Calibration

## This is to certify that the equipment

Description: Sound Level Calibrator

Manufacturer: Rion

Model No.: NC-73

Serial No.: 10786708

has been calibrated for the specific items and ranges. The results are shown in the Calibration Report No. C083506.

The equipment is supplied by

Co. Name: Envirotech Services Co.

Address: Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road, Hong Kong

Date of Issue: 11 July 2008

Certified by:

K C/Lee

The test equipment used for testing are traceable to the National Standards as specified in this report. This report shall not be reproduced except in full and with prior written approval from this laboratory.



Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No.: C093473

# Certificate of Calibration

### This is to certify that the equipment

Description: Precision Integrating Sound Level Meter

Manufacturer: Rion

Model No.: NL-18

Serial No.: 00360030

has been calibrated for the specific items and ranges. The results are shown in the Calibration Report No. C093473.

The equipment is supplied by

Co. Name: Envirotech Services Co.

Address: Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,

Hong Kong

Date of Issue: 6 July 2009

Certified by: Clan line (HC Chan



Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No.: C093472

# Certificate of Calibration

This is to certify that the equipment

Description: Sound Level Calibrator

Manufacturer: Rion

Model No.: NC-73

Serial No.: 10997142

has been calibrated for the specific items and ranges. The results are shown in the Calibration Report No. C093472.

The equipment is supplied by

Co. Name: Envirotech Services Co.

Address: Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road, Hong Kong

Date of Issue: 6 July 2009

Certified by: Clan iAn Chan

ALS

Batch:

HK0913034

Date of Issue:

30/06/2009

Client:

HYDER CONSULTING LTD

Client Reference:

TWDT

#### Calibration of Turbidity System

Item:

Turbidimeter

Model No.:

Eutech Instruments TN-100

Serial No.:

215619

Equipment No.:

215619

Calibration Method:

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

Date of Calibration:

30 June, 2009

#### Testing Results:

| Expected Reading   | Recording Reading |
|--------------------|-------------------|
|                    |                   |
| 0.00 NTU           | 0.00 NTU          |
| 4.00 NTU           | 3.86 NTU          |
| 16.0 NTU           | 16.3 NTU          |
| 40.0 NTU           | 39.8 NTU          |
| 160 NTU            | 173 NTU           |
|                    |                   |
| Allowing Deviation | ±10%              |

Ms Wong Wai Man, Alice Laboratory Manager - Hong Kong



Batch:

HK0906207

Date of Issue:

06/04/2009

Client:

HYDER CONSULTING LTD

**Client Reference:** 

#### Calibration of DO System

Item:

Multi-parameter Instrument / Mehrparameter-MeBgerat

Model No.:

WTW pH / Oxi 340i

Serial No.:

08101283

Equipment No.:

--

Calibration Method:

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

Date of Calibration:

06 April, 2009

Testing Results:

| Expected Reading   | Recording Reading |  |
|--------------------|-------------------|--|
| 4.70 mg/L          | 4.87 mg/L         |  |
| 6.64 mg/L          | 6.70 mg/L         |  |
| 8.52 mg/L          | 8.68 mg/L         |  |
| Allowing Deviation | ±0.2 mg/L         |  |

Ms Wong Wai Man, Alice Laboratory Manager - Hong Kong



Batch:

HK0906207

Date of Issue:

06/04/2009

Client: Client Reference: HYDER CONSULTING LTD

#### Calibration of pH System

Item:

Multi-parameter Instrument / Mehrparameter-MeBgerat

Model No.:

WTW pH / Oxi 340i

Serial No.:

08101283

Equipment No.:

---

Calibration Method:

This meter was calibrated in accordance with standard method APHA (19th Ed.) 4500-H<sup>+</sup>B

Date of Calibration:

06 April, 2009

Testing Results:

| Expected Reading   | Recording Reading |
|--------------------|-------------------|
| 4.00               | 4.11              |
| 7.00               | 7.02              |
| 10.0               | 9.85              |
| Allowing Deviation | ± 0.2             |

Ms Wong Wai Man Alice

Laboratory Manager - Hong Kong



Batch:

HK0906207

Date of Issue:

06/04/2009

Client:

HYDER CONSULTING LTD

Client Reference:

#### Calibration of Thermometer

Item:

Multi-parameter Instrument / Mehrparameter-MeBgerat

Model No.:

WTW pH / Oxi 340i

Serial No.:

08101283

Equipment No.:

Calibration Method:

In-house Method

Date of Calibration:

06 April, 2009

Testing Results:

| Reference Temperature (°C) | Recorded Temperature (°C) |  |
|----------------------------|---------------------------|--|
| 22.0 °C<br>33.0 °C         | 22.3 °C<br>33.5 °C        |  |
| Allowing Deviation         | ±2.0°C                    |  |

Ms Wong Wai Man, Alice

Laboratory Manager - Hong Kong



Batch:

HK0913489

Date of Issue:

16/07/2009

Client:

HYDER CONSULTING LTD

Client Reference:

#### Calibration of DO System

Item:

Multi-parameter Instrument / Mehrparameter-MeBgerat

Model No.:

WTW pH / Oxi 340i

Serial No.:

08101283

Equipment No.:

0901264

Calibration Method:

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

Date of Calibration:

07 July, 2009

Testing Results:

| Expected Reading                    | Recording Reading                   |
|-------------------------------------|-------------------------------------|
| 5.27 mg/L<br>6.58 mg/L<br>7.73 mg/L | 5.37 mg/L<br>6.68 mg/L<br>7.67 mg/L |
| Allowing Deviation                  | ±0.2 mg/L                           |

Mr Chan Kwok Fai, Godfrey Laboratory Manager - Hong Kong

Laboratory Intallager Florig



Batch:

HK0913489

Date of Issue:

16/07/2009

Client:

HYDER CONSULTING LTD

Client Reference:

#### Calibration of pH System

Item:

Multi-parameter Instrument / Mehrparameter-MeBgerat

Model No.:

WTW pH / Oxi 340i

Serial No.:

08101283

Equipment No.:

--

Calibration Method:

This meter was calibrated in accordance with standard method APHA (19th Ed.) 4500-H<sup>+</sup>B

Date of Calibration:

07 July, 2009

Testing Results:

| Expected Reading   | Recording Reading |
|--------------------|-------------------|
| 4.00               | 4.13              |
| 7.00               | 7.13              |
| 10.0               | 9.97              |
|                    |                   |
| Allowing Deviation | <u>+</u> 0.2      |

Mr Chan Kwok Fai, Godfrey

Laboratory Manager- Hong Kong



Batch:

HK0913489

Date of Issue:

16/07/2009

Client:

HYDER CONSULTING LTD

**Client Reference:** 

#### Calibration of Thermometer

Item:

Multi-parameter Instrument / Mehrparameter-MeBgerat

Model No.:

WTW pH / Oxi 340i

Serial No.:

08101283

Equipment No.:

--

Calibration Method:

In-house Method

Date of Calibration:

07 July, 2009

Testing Results:

| Reference Temperature (°C) | Recorded Temperature (°C) |
|----------------------------|---------------------------|
| 27.0 °C<br>33.5 °C         | 27.4 °C<br>33.8 °C        |
| Allowing Deviation         | ±2.0°C                    |

Mr Chan Kwok Fail Godfrey

Laboratory Manager - Hong Kong



## **Monitoring Locations**

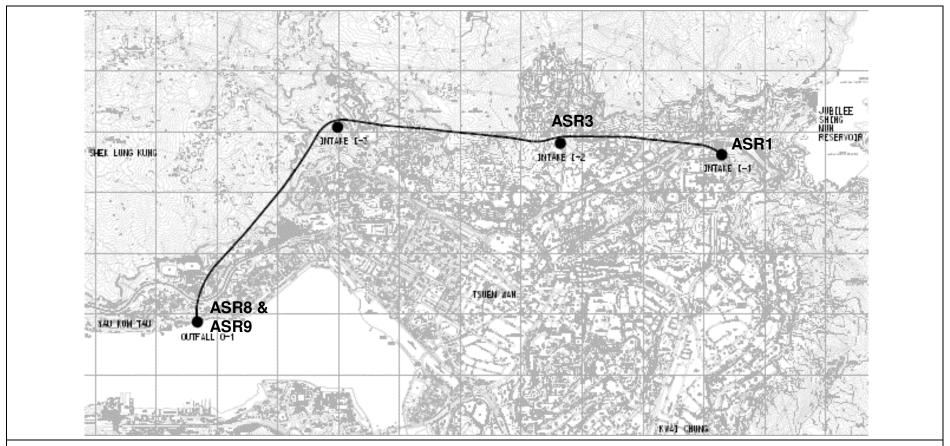


Figure 1 Air Quality Monitoring Stations

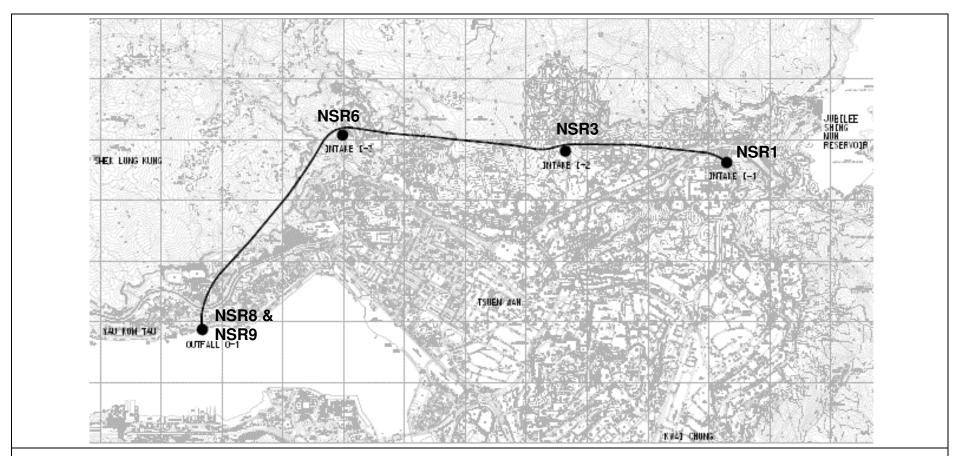


Figure 2 Noise Monitoring Stations

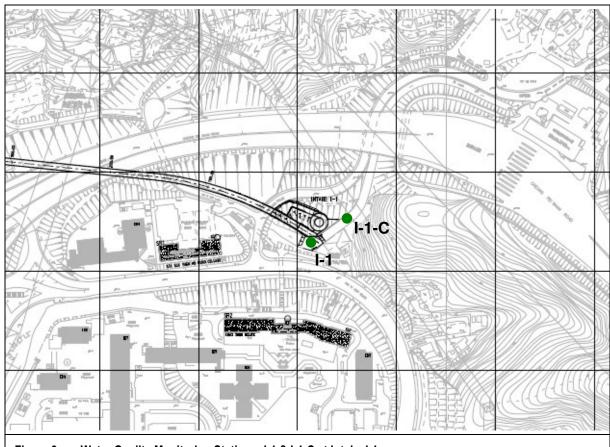
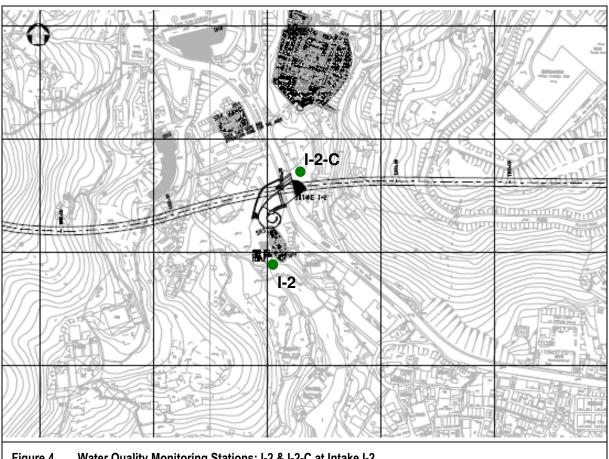
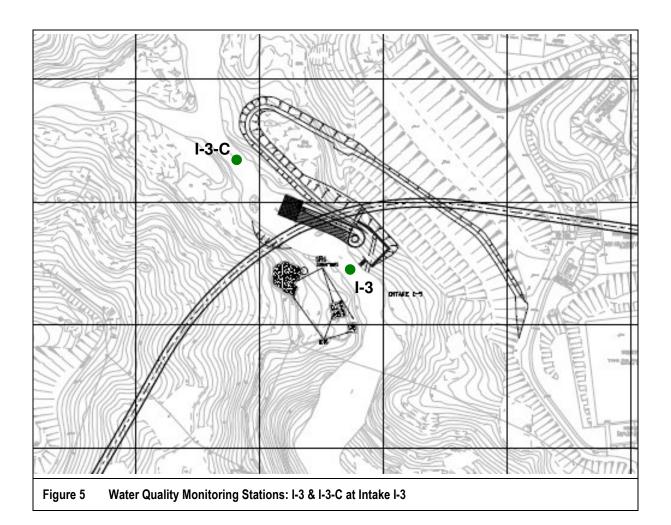


Figure 3 Water Quality Monitoring Stations: I-1 & I-1-C at Intake I-1



Water Quality Monitoring Stations: I-2 & I-2-C at Intake I-2 Figure 4



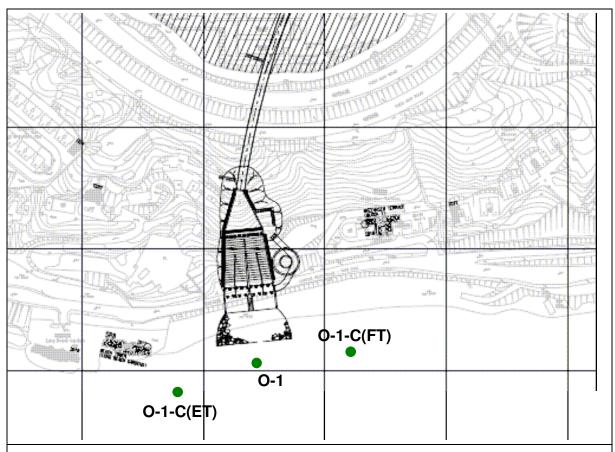


Figure 6 Water Quality Monitoring Stations: O-1, O-1-C(ET) & O-1-C(FT) at Outfall O-1



## **EM&A Schedule**

# Contract No. DC/2007/12 – Design and Construction of Tsuen Wan Drainage Tunnel Impact Monitoring Programme – July 2009

| Date       |     | Air | Noise | Water |
|------------|-----|-----|-------|-------|
| 01-July-09 | Wed |     |       |       |
| 02-July-09 | Thu |     |       | ✓     |
| 03-July-09 | Fri |     |       |       |
| 04-July-09 | Sat |     |       |       |
| 05-July-09 | Sun |     |       |       |
| 06-July-09 | Mon | ✓   | ✓     | ✓     |
| 07-July-09 | Tue |     |       |       |
| 08-July-09 | Wed |     |       | ✓     |
| 09-July-09 | Thu |     |       |       |
| 10-July-09 | Fri | ✓   |       | ✓     |
| 11-July-09 | Sat |     |       |       |
| 12-July-09 | Sun |     |       |       |
| 13-July-09 | Mon |     |       | ✓     |
| 14-July-09 | Tue |     |       |       |
| 15-July-09 | Wed |     |       | ✓     |
| 16-July-09 | Thu | ✓   | ✓     |       |
| 17-July-09 | Fri |     |       | ✓     |
| 18-July-09 | Sat |     |       |       |
| 19-July-09 | Sun |     |       |       |
| 20-July-09 | Mon |     |       | ✓     |
| 21-July-09 | Tue |     |       |       |
| 22-July-09 | Wed | ✓   | ✓     | ✓     |
| 23-July-09 | Thu |     |       |       |
| 24-July-09 | Fri |     |       | ✓     |
| 25-July-09 | Sat |     |       |       |
| 26-July-09 | Sun |     |       |       |
| 27-July-09 | Mon |     |       |       |
| 28-July-09 | Tue | ✓   | ✓     |       |
| 29-July-09 | Wed |     |       | ✓     |
| 30-July-09 | Thu |     |       |       |
| 31-July-09 | Fri |     |       | ✓     |

#### Note:

Shaded area indicates public holiday.

Air – Monitoring 1-hour TSP is undertaken three times per every six days

Noise – Noise measurements is undertaken once every week at (0700-1900 Monday to Saturday)

# Contract No. DC/2007/12 – Design and Construction of Tsuen Wan Drainage Tunnel Impact Monitoring Programme – August 2009 (Tentative)

| Date      |     | Air | Noise | Water |
|-----------|-----|-----|-------|-------|
| 01-Aug-09 | Sat |     |       |       |
| 02-Aug-09 | Sun |     |       |       |
| 03-Aug-09 | Mon | ✓   | ✓     | ✓     |
| 04-Aug-09 | Tue |     |       |       |
| 05-Aug-09 | Wed |     |       | ✓     |
| 06-Aug-09 | Thu |     |       |       |
| 07-Aug-09 | Fri | ✓   |       | ✓     |
| 08-Aug-09 | Sat |     |       |       |
| 09-Aug-09 | Sun |     |       |       |
| 10-Aug-09 | Mon |     |       | ✓     |
| 11-Aug-09 | Tue |     |       |       |
| 12-Aug-09 | Wed |     |       | ✓     |
| 13-Aug-09 | Thu | ✓   | ✓     |       |
| 14-Aug-09 | Fri |     |       | ✓     |
| 15-Aug-09 | Sat |     |       |       |
| 16-Aug-09 | Sun |     |       |       |
| 17-Aug-09 | Mon |     |       | ✓     |
| 18-Aug-09 | Tue |     |       |       |
| 19-Aug-09 | Wed | ✓   | ✓     | ✓     |
| 20-Aug-09 | Thu |     |       |       |
| 21-Aug-09 | Fri |     |       | ✓     |
| 22-Aug-09 | Sat |     |       |       |
| 23-Aug-09 | Sun |     |       |       |
| 24-Aug-09 | Mon |     |       | ✓     |
| 25-Aug-09 | Tue | ✓   | ✓     |       |
| 26-Aug-09 | Wed |     |       | ✓     |
| 27-Aug-09 | Thu |     |       |       |
| 28-Aug-09 | Fri |     |       | ✓     |
| 29-Aug-09 | Sat |     |       |       |
| 30-Aug-09 | Sun |     |       |       |
| 31-Aug-09 | Mon | ✓   | ✓     | ✓     |

#### Note:

Shaded area indicates public holiday.

Air – Monitoring 1-hour TSP is undertaken three times per every six days

Noise – Noise measurements is undertaken once every week at (0700-1900 Monday to Saturday)

# Contract No. DC/2007/12 – Design and Construction of Tsuen Wan Drainage Tunnel Impact Monitoring Programme – September 2009 (Tentative)

| Date       |     | Air | Noise | Water |
|------------|-----|-----|-------|-------|
| 01-Sept-09 | Tue |     |       |       |
| 02-Sept-09 | Wed |     |       | ✓     |
| 03-Sept-09 | Thu |     |       |       |
| 04-Sept-09 | Fri | ✓   |       | ✓     |
| 05-Sept-09 | Sat |     |       |       |
| 06-Sept-09 | Sun |     |       |       |
| 07-Sept-09 | Mon |     |       | ✓     |
| 08-Sept-09 | Tue |     |       |       |
| 09-Sept-09 | Wed |     |       | ✓     |
| 10-Sept-09 | Thu | ✓   | ✓     |       |
| 11-Sept-09 | Fri |     |       | ✓     |
| 12-Sept-09 | Sat |     |       |       |
| 13-Sept-09 | Sun |     |       |       |
| 14-Sept-09 | Mon |     |       | ✓     |
| 15-Sept-09 | Tue |     |       |       |
| 16-Sept-09 | Wed | ✓   | ✓     | ✓     |
| 17-Sept-09 | Thu |     |       |       |
| 18-Sept-09 | Fri |     |       | ✓     |
| 19-Sept-09 | Sat |     |       |       |
| 20-Sept-09 | Sun |     |       |       |
| 21-Sept-09 | Mon |     |       | ✓     |
| 22-Sept-09 | Tue | ✓   | ✓     |       |
| 23-Sept-09 | Wed |     |       | ✓     |
| 24-Sept-09 | Thu |     |       |       |
| 25-Sept-09 | Fri |     |       | ✓     |
| 26-Sept-09 | Sat |     |       |       |
| 27-Sept-09 | Sun |     |       |       |
| 28-Sept-09 | Mon | ✓   | ✓     | ✓     |
| 29-Sept-09 | Tue |     |       |       |
| 30-Sept-09 | Wed |     |       | ✓     |

#### Note:

Shaded area indicates public holiday.

Air – Monitoring 1-hour TSP is undertaken three times per every six days

Noise – Noise measurements is undertaken once every week at (0700-1900 Monday to Saturday)

# Contract No. DC/2007/12 – Design and Construction of Tsuen Wan Drainage Tunnel Impact Monitoring Programme – October 2009 (Tentative)

| Date      |     | Air      | Noise | Water |  |  |
|-----------|-----|----------|-------|-------|--|--|
| 01-Oct-09 | Thu |          |       |       |  |  |
| 02-Oct-09 | Fri | <b>✓</b> |       | ✓     |  |  |
| 03-Oct-09 | Sat |          |       |       |  |  |
| 04-Oct-09 | Sun |          |       |       |  |  |
| 05-Oct-09 | Mon |          |       | ✓     |  |  |
| 06-Oct-09 | Tue |          |       |       |  |  |
| 07-Oct-09 | Wed |          |       | ✓     |  |  |
| 08-Oct-09 | Thu | ✓        | ✓     |       |  |  |
| 09-Oct-09 | Fri |          |       | ✓     |  |  |
| 10-Oct-09 | Sat |          |       |       |  |  |
| 11-Oct-09 | Sun |          |       |       |  |  |
| 12-Oct-09 | Mon |          |       | ✓     |  |  |
| 13-Oct-09 | Tue |          |       |       |  |  |
| 14-Oct-09 | Wed | ✓        | ✓     | ✓     |  |  |
| 15-Oct-09 | Thu |          |       |       |  |  |
| 16-Oct-09 | Fri |          |       | ✓     |  |  |
| 17-Oct-09 | Sat |          |       |       |  |  |
| 18-Oct-09 | Sun |          |       |       |  |  |
| 19-Oct-09 | Mon |          |       | ✓     |  |  |
| 20-Oct-09 | Tue | ✓        | ✓     |       |  |  |
| 21-Oct-09 | Wed |          |       | ✓     |  |  |
| 22-Oct-09 | Thu |          |       |       |  |  |
| 23-Oct-09 | Fri |          |       | ✓     |  |  |
| 24-Oct-09 | Sat | ✓        |       |       |  |  |
| 25-Oct-09 | Sun |          |       |       |  |  |
| 26-Oct-09 | Mon |          |       |       |  |  |
| 27-Oct-09 | Tue |          |       | ✓     |  |  |
| 28-Oct-09 | Wed |          |       |       |  |  |
| 29-Oct-09 | Thu |          |       | ✓     |  |  |
| 30-Oct-09 | Fri | ✓        | ✓     |       |  |  |
| 31-Oct-09 | Sat |          |       | ✓     |  |  |

#### Note:

Shaded area indicates public holiday.

Air – Monitoring 1-hour TSP is undertaken three times per every six days

Noise – Noise measurements is undertaken once every week at (0700-1900 Monday to Saturday)



## **Monitoring Results**

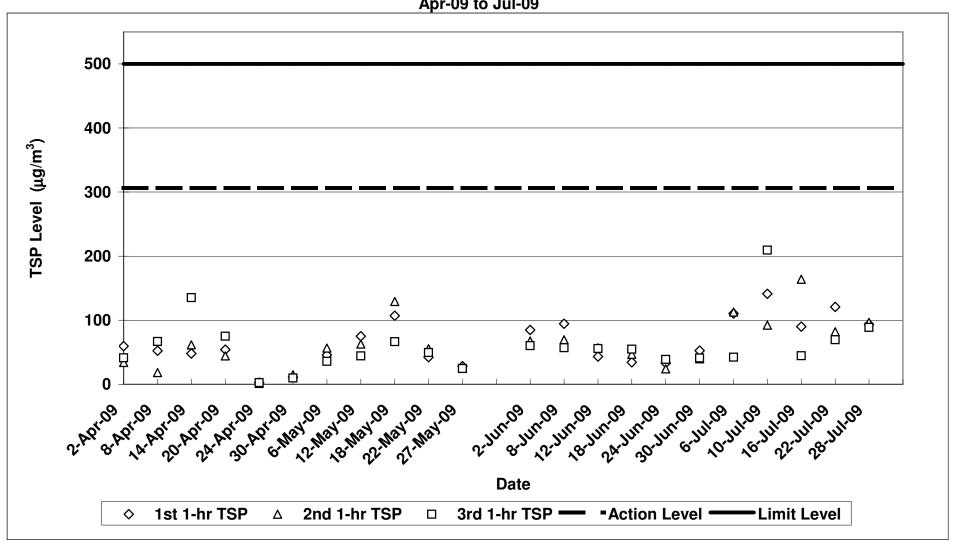
#### Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel

Air Quality Impact Monitoring Results (1-Hour TSP)

| March   Marc   | Location                | Monitoring Date | Weather<br>Conditions | Wind Speed<br>with Direction<br>(m/s) | Temp<br>(°C) | Timer-I | Timer-F | Time (mins) | Flow-I<br>(CFM) | Flow-F<br>(CFM) | Flow-I<br>(m³/min) | Flow-F<br>(m³/min) | Flow-avg<br>(m³/min) | Volume<br>(m³) | Weight-I (g) | Weight-f (g) | Weight-diff. (g) | 1-hr TSP<br>(µg/m³) | Average 1-Hr TSP<br>(μg/m³) | Action/Limit<br>Levels<br>(µg/m³)     | Observation / Site Condition             | Remark  |
|--|-------------------------|-----------------|-----------------------|---------------------------------------|--------------|---------|---------|-------------|-----------------|-----------------|--------------------|--------------------|----------------------|----------------|--------------|--------------|------------------|---------------------|-----------------------------|---------------------------------------|--|---------|
| March   Marc   |                         |                 | Sunny                 |                                       | 31           |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     |                             | , , , , , , , , , , , , , , , , , , , |  |         |
| Part   |                         |                 | Sunny                 |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     | 88.4                        |                                       | Excavation by backhoe                    | Traffic |
| March   Marc   |                         |                 |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     |                             |                                       |  |         |
| Part   Company   Part   |                         |                 | Sunny                 | 0.28                                  | 32           | 577442  | 577542  | 60.0        | 40              | 40              | 1.46               | 1.46               | 1.46                 | 87.84          | 2.8518       | 2.8599       | 0.0081           | 92.2                | 147.6                       |                                       | Nil                                      | Nil     |
| March   Marc   |                         |                 |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      | 0.10.          |              |              |                  |                     |                             |                                       |  |         |
| Second Property   Second Pro   |                         |                 |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     | 99.4                        | 000 0/500                             | Excavation by backhoe Soil Nailing       | Traffic |
| Service (Autor)  - Service (Autor) - Service (Au |                         |                 | Sunny                 | 0.3E                                  |              | 5777842 | 577942  | 60.0        | 40              | 40              | 1.46               | 1.46               | 1.46                 | 87.84          | 2.8405       | 2.8444       | 0.0039           | 44.4                | ***                         |                                       |  |         |
| Section   Control   Cont   | College - Intake (ASR1) |                 |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     |                             | 306.6/300                             |  |         |
| Part      |                         | 22-Jul-09       |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     | 90.7                        | Breaking by backhoe, excavation work  | Traffic                                  |         |
| Part   18  |                         | 28-Jul-09       |                       |                                       | _            |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     |                             |                                       |  |         |
| Comparison   Com   |                         |                 |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  | 96.8                | 93.0                        | 93.0                                  | Breaking by backhoe, excavation work     | Traffic |
| March   Marc   |                         |                 | Fine                  | 0.2E                                  | 30           | 578442  | 578542  | 60.0        | 40              | 40              | 1.46               | 1.46               | 1.46                 | 87.84          | 2.8631       | 2.8709       | 0.0078           | 88.8                |                             |                                       |  |         |
| March   Marc   |                         |                 | -                     | -                                     | -            |         |         |             |                 |                 |                    |                    |                      |                | -            | -            | -                |                     |                             |                                       |  |         |
| March   Marc   |                         |                 |                       | -                                     | -            |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     |                             |                                       |  |         |
| Part   194   |                         |                 |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     |                             |                                       |  |         |
| 10.14/19   |                         | 06-Jul-09       |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     | 32.2                        |                                       | Excavation by backhoe                    | Traffic |
| 10-34-09    |                         |                 |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     |                             |                                       |  |         |
| Surry   Color   Surry   Colo   |                         | 10-Jul-09       |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     | 132.8                       |                                       | Nil                                      | Nil     |
| The property of the property o |                         |                 | Sunny                 | 0.3S                                  | 32           | 545990  | 546090  | 60.0        | 40              | 40              | 1.47               | 1.47               | 1.47                 | 88.12          | 2.8686       | 2.8803       | 0.0117           | 132.8               |                             |                                       |  |         |
| Part   Marker   Mar   |                         | 40.1.100        |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     | 05.4                        |                                       |  | 7 10    |
| Temple - Name (ASP)  2 - 3-4-0   | Here Hei Chee Hees      | 16-Jul-09       |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     | 65.1                        |                                       | Excavation by backhoe                    | Traffic |
| Part   | Temple - Intake (ASR3)  |                 |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     |                             | 327.4/500                             |  |         |
| Prod.   Prod.  |                         | 22-Jul-09       |                       |                                       |              |         |         |             |                 |                 | 1.47               | 1.47               | 1.47                 |                |              |              |                  |                     | 90.8                        |                                       | Breaking by backhoe, excavation work     | Traffic |
| 28-July   Free   0.5E   30   54990   60.0   40   40   1.47   1.47   1.47   81.0   2.8484   2.8513   0.0099   67.0   10.4   69.0   1.48   1.48   1.47   1.47   81.0   2.8487   2.8711   0.0044   69.0   1.48   |                         |                 | Sunny                 | 0.3E                                  |              |         | 546690  | 60.0        |                 |                 |                    |                    |                      | 88.12          | 2.8918       |              | 0.0090           | 102.1               |                             |                                       |  |         |
| Fine 0.5E 30 64999 54709 600 40 60 147 147 147 147 811 2.8857 2.8871 0.0044 49 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9   |                         | 00 1-1 00       |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     | 104.0                       |                                       | Delline Francisco by beather             | T45-    |
| Company   Comp   |                         | 20-301-09       |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     | 104.0                       | 104.8                                 | Drilling, Excavation by backride         | Tranic  |
| Post      |                         |                 | -                     | -                                     | -            | -       | -       | -           |                 |                 | 1.47               | 1.47               | 1.47                 | 00.12          | -            | -            | -                | 40.0                |                             |                                       |  |         |
| Post      |                         | -               | -                     | -                                     | -            |         |         | -           |                 |                 |                    |                    |                      |                | -            | -            | -                |                     |                             |                                       |  | -       |
| Post      |                         |                 | -                     | -                                     | -            | -       | -       | -           |                 |                 |                    |                    |                      |                | -            | -            | -                |                     |                             |                                       |  |         |
| Sumy   0.58   31 60790   60080   60080   600   40   40   1.28   1.28   1.28   7.51   2.8821   2.8890   0.0039   51.0   |                         | 06-101-09       |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     | 62.3                        | 62.2                                  | Soil Nailing Excavation by backhoe       | Traffic |
| Sumy   0.25   32   60080   60080   600   40   40   128   1.28     |                         | 10-Jul-09       | Sunny                 |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     | 02.3                        | Soil Naming, Excavation by backride   | Tallo                                    |         |
| Sumy   0.25   32   0.01000   0.01   40   1.28   1.28   1.28   76.51   2.8500   2.8647   0.0121   1.59.2  |                         |                 |                       | 0.2S                                  | 32           |         |         | 60.0        | 40              |                 |                    | 1.28               |                      | 76.51          | 2.8346       | 2.8402       | 0.0056           |                     |                             |                                       |  |         |
| Summy   0.5E   32   601180   601280   60.0   40   40   1.28   1.28   7.85   1.28460   2.28461   0.0041   53.6      |                         |                 |                       |                                       |              |         |         | 60.0        | 40              | 40              |                    |                    | 1.28                 | 76.51          |              |              |                  | 116.3               | 59.7                        |                                       | Nil                                      | Nil     |
| Long Beach Cardinal (ASPA)  Cuttal (ASPA)  Surry 0.5E 32 601280 601480 60.0 40 40 1.28 1.28 1.28 76.51 2.8648 2.8701 0.0063 69.3 59.7   Surry 0.5E 32 601280 601480 60.0 40 40 1.28 1.28 1.28 76.51 2.8891 0.0069 115.3   Surry 0.4E 31 601480 601580 60.0 40 40 1.28 1.28 1.28 76.51 2.8891 0.0069 115.3   Surry 0.4E 31 601480 601580 60.0 40 40 1.28 1.28 1.28 76.51 2.8798 2.8890 0.0089 115.3   Fine 0.3E 30 601780 60180 60.0 40 40 1.28 1.28 1.28 76.51 2.8798 0.0069 137.2   Pine 0.3E 30 601780 60180 60.0 40 40 1.28 1.28 1.28 76.51 2.8798 0.0069 137.2   Fine 0.3E 30 601780 60180 60.0 40 40 1.28 1.28 1.28 1.28 76.51 2.8798 0.0069 137.2   Fine 0.3E 30 601780 60.0 40 40 1.28 1.28 1.28 1.28 76.51 2.8781 0.0069 90.2   Fine 0.3E 30 601780 60.0 40 40 1.28 1.28 1.28 76.51 2.8161 2.8228 0.0067 87.6   Fine 0.3E 30 601780 60.0 40 40 1.28 1.28 1.28 76.51 2.8161 2.8228 0.0067 87.6   Fine 0.3E 30 601780 60.0 40 40 1.28 1.28 1.28 76.51 2.8161 2.8228 0.0067 87.6   Fine 0.3E 30 601780 60.0 40 40 1.28 1.28 1.28 76.51 2.8161 2.8228 0.0067 87.6   Fine 0.3E 30 601780 60.0 40 40 1.28 1.29 1.28 1.28 76.51 2.8161 2.8228 0.0067 87.6   Fine 0.3E 30 601780 60.0 40 40 1.28 1.29 1.28 1.28 76.51 2.8161 2.8228 0.0067 87.6   Fine 0.3E 30 601780 60.0 40 40 1.28 1.29 1.29 1.29 1.20 76.51 2.8161 2.8228 0.0060 89.0   General Fine 0.3E 30 601780 60.0 40 40 1.50 1.50 1.50 1.50 69.94 2.8765 2.8804 0.0062 46.5 7   Fine 0.3E 30 601780 60.0 40 40 1.50 1.50 1.50 69.94 2.8765 2.8804 0.0071 73.9   Fine 0.3E 32 63580 60.0 40 40 40 1.50 1.50 1.50 69.94 2.8765 0.0071 73.9   Fine 0.5E 30 53580 53580 60.0 40 40 40 1.50 1.50 1.50 69.94 2.8765 2.8805 0.0011 1.23 1.50 1.50 69.94 2.8765 0.0011 1.23 1.50 69.94 2.8765 0.0011 1.23 1.50 69.94 2.8765 0.0011 1.23 1.50 69.94 2.8765 0.0011 1.23 1.50 69.94 2.8765 0.0011 1.23 1.50 69.94 2.8765 0.0011 1.23 1.50 69.94 2.8765 0.0011 1.50 1.50 69.94 2.8765 0.0011 1.50 1.50 69.94 2.8765 0.0011 1.50 1.50 69.94 2.8765 0.0011 1.50 1.50 69.94 2.8765 0.0011 1.50 1.50 69.94 2.8765 0.0011 1.50 1.50 69.94 2.8765 0.0011 1.50 1.50 69.94 2.8765 0.001 |                         |                 |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     |                             |                                       |  |         |
| Long Beach Cardenia- Outfall (ASR8)    Sumy   0.5E   32   601380   601480   60.0   40   40   1.28   1.28   1.28   76.51   2.8902   0.0098   116.3     Sumy   0.4E   31   601480   601580   60.0   40   40   1.28   1.28   1.28   1.28   76.51   2.8772   2.7733   0.0068   60.3     Sumy   0.4E   31   601480   601780   60.0   40   40   1.28   1.28   1.28   1.28   76.51   2.8772   2.7773   0.0068   60.3     Fine   0.5E   30   601780   601880   60.0   40   40   1.28   1 |                         |                 |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     |                             |                                       |  |         |
| Sumy 0.4E 31 601680 601580 60.0 40 40 1.28 1.28 1.28 76.51 2.8981 2.8980 0.0069 116.3  Sumy 0.4E 31 601680 601680 60.0 40 40 1.28 1.28 1.28 76.51 2.8798 2.8980 0.0062 107.2  Sumy 0.4E 31 601680 60780 60.0 40 40 1.28 1.28 1.28 76.51 2.8797 2.8993 0.0066 86.3  Fine 0.3E 30 60780 601880 60.0 40 40 1.28 1.28 1.28 76.51 2.8797 2.8993 0.0066 86.3  Fine 0.3E 30 601680 600.0 40 40 1.28 1.28 1.28 1.28 76.51 2.8960 0.0067 87.6  Fine 0.3E 30 60780 600.0 40 40 1.28 1.28 1.28 1.28 76.51 2.8960 0.0067 87.6  Fine 0.3E 30 60780 600.0 40 40 1.28 1.28 1.28 1.28 76.51 2.8960 0.0067 87.6  Fine 0.3E 30 60780 600.0 40 40 1.28 1.28 1.28 1.28 76.51 2.8960 0.0067 87.6  Fine 0.3E 30 60780 600.0 40 40 1.28 1.28 1.28 1.28 76.51 2.8960 0.0067 87.6  Fine 0.3E 30 60780 600.0 40 40 1.28 1.28 1.28 1.28 76.51 2.8960 0.0067 87.6  Fine 0.3E 30 60780 600.0 40 40 1.50 1.50 1.50 1.50 1.50 8.894 2.8960 0.0069 90.2  Fine 0.4E 31 601880 600.0 40 40 1.50 1.50 1.50 1.50 8.894 2.8760 0.0060 89.0  Sumry 0.4E 31 50880 50890 50.0 40 40 1.50 1.50 1.50 8.894 2.8760 0.0062 46.7  Sumry 0.4E 31 601880 600.0 40 40 1.50 1.50 1.50 1.50 8.894 2.8860 0.0062 46.7  Sumry 0.4E 31 601880 600.0 40 40 1.50 1.50 1.50 8.894 2.8860 0.0062 46.7  Sumry 0.4E 31 601880 600.0 40 40 1.50 1.50 1.50 8.894 2.8860 0.0062 46.7  Sumry 0.4E 31 601880 600.0 40 40 1.50 1.50 1.50 8.894 2.8860 0.0062 46.7  Sumry 0.4E 31 601880 600.0 40 40 1.50 1.50 1.50 8.894 2.8860 0.0062 46.7  Sumry 0.4E 31 601880 600.0 40 40 1.50 1.50 1.50 8.894 2.8860 0.0062 46.7  Sumry 0.4E 31 601880 600.0 40 40 1.50 1.50 1.50 8.894 2.8860 0.0062 46.7  Sumry 0.4E 31 601880 600.0 40 40 1.50 1.50 1.50 8.894 2.8860 0.0062 46.7  Sumry 0.4E 31 601880 600.0 40 40 1.50 1.50 1.50 8.894 2.8860 0.0062 46.7  Sumry 0.4E 31 601880 600.0 40 40 1.50 1.50 1.50 8.894 2.8860 0.0062 46.7  Sumry 0.4E 31 601880 600.0 40 40 40 1.50 1.50 1.50 8.894 2.8860 0.0062 46.7  Sumry 0.4E 31 601880 600.0 40 40 40 1.50 1.50 1.50 8.894 2.8860 0.0062 46.7  Sumry 0.4E 31 601880 600.0 40 40 40 1.50 1.50 1.50 8.894 2.8860 0.0062 60.006 7.7  Sumry 0.4E 31 60188 | Long Beach Gardens -    |                 |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     |                             | 226 6/600                             |  |         |
| Surry   0.4E   31   601890   601790   60190   600   40   40   1.28   1.28   1.28   7.551   2.8755   2.8755   2.8890   0.0105   1.372   | Outfall (ASR8)          |                 |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     |                             | 330.0/300                             |  |         |
| Fine 0.3E 30 601780 601800 60.0 40 40 1.28 1.28 1.28 76.51 2.8365 2.8860 0.0105 137.2 Fine 0.3E 30 601800 60.0 40 40 1.28 1.28 1.28 76.51 2.8161 2.8228 0.0067 87.6 105.0 Fine 0.3E 30 601800 60.0 40 40 1.28 1.28 1.28 76.51 2.8131 2.8200 0.0069 90.2 Fine 0.3E 30 601800 60.0 40 40 1.28 1.28 1.28 76.51 2.8131 2.8200 0.0069 90.2 Fine 0.3E 30 601800 60.0 40 40 1.50 1.50 1.50 89.04 2.8463 2.8553 0.0080 80.0 Fine 0.40 40 1.50 1.50 1.50 89.04 2.8463 2.8854 0.0042 46.7 Fine 0.4E 30 5.2580 5.2580 60.0 40 40 1.50 1.50 1.50 89.04 2.8378 2.8840 0.0042 46.7 Fine 0.4E 30 5.2580 5.25800 60.0 40 40 1.50 1.50 1.50 89.04 2.8378 2.8400 0.0042 46.7 Fine 0.4E 30 5.2580 5.25800 60.0 40 40 1.50 1.50 1.50 89.04 2.8378 2.8400 0.0042 46.7 Fine 0.4E 30 5.2580 5.25800 60.0 40 40 1.50 1.50 1.50 89.04 2.8378 2.8400 0.0042 46.7 Fine 0.4E 30 5.2580 5.25800 60.0 40 40 1.50 1.50 1.50 89.04 2.8378 2.8400 0.0042 46.7 Fine 0.4E 30 5.25800 60.0 40 40 1.50 1.50 1.50 89.04 2.8378 2.8400 0.0042 46.7 Fine 0.4E 30 5.25800 5.25800 60.0 40 40 1.50 1.50 1.50 89.04 2.8378 2.8400 0.0042 46.7 Fine 0.4E 30 5.25800 5.25800 60.0 40 40 1.50 1.50 1.50 89.04 2.8378 2.8400 0.0042 46.7 Fine 0.4E 30 5.25800 5.25800 60.0 40 40 1.50 1.50 1.50 89.04 2.8378 2.8400 0.0042 46.7 Fine 0.4E 30 5.25800 5.25800 60.0 40 40 1.50 1.50 1.50 89.04 2.8378 2.8400 0.0042 46.7 Fine 0.4E 30 5.25800 60.0 40 40 1.50 1.50 1.50 89.04 2.8378 2.8400 0.0041 1.50 1.50 89.04 2.8378 2.8380 0.0041 1.50 1.50 89.04 2.8378 2.8380 0.0041 1.50 1.50 89.04 2.8378 2.8380 0.0041 1.50 1.50 89.04 2.8378 2.8380 0.0041 1.50 1.50 89.04 2.8378 2.8380 0.0041 1.50 1.50 89.04 2.8378 2.8380 0.0041 1.50 1.50 89.04 2.8380 2.83800 0.0041 1.50 1.50 89.04 2.8380 2.83800 0.0041 1.50 1.50 89.04 2.8380 2.83800 0.0041 1.50 1.50 89.04 2.8380 2.83800 0.0041 1.50 1.50 89.04 2.8380 2.83800 0.0041 1.50 1.50 89.04 2.8380 2.83800 0.0041 1.50 1.50 89.04 2.8380 2.83800 0.0041 1.50 1.50 89.04 2.83800 2.83800 0.004 1.50 1.50 89.04 2.83800 2.83800 0.004 1.50 1.50 89.04 2.83800 2.83800 0.004 1.50 1.50 89.04 2.83800 2.83800 0.004 1.50 1.50 89 |                         | 22-Jul-09       |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     |                             | Soil Nailing,Breaking by backhoe      | Traffic                                  |         |
| Fine   0.3E   30   601890   60.090   60.0   40   40   1.28   1.28   1.28   7.55   2.8161   2.8228   0.0067   87.6   105.0  |                         |                 |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     |                             | )                                     |  |         |
| Fine 0.3E 50 600980 60.00 40 40 1.28 1.28 1.28 76.51 2.8131 2.8200 0.0698 90.2   |                         | 28-Jul-09       | Fine                  |                                       |              |         |         |             |                 |                 |                    | 1.28               | 1.28                 |                |              |              |                  |                     | 105.0                       |                                       | Soil Nailing,Breaking by backhoe         | Traffic |
| Sumy   0.4S   31   \$2880   \$60.0   40   40   1.50   1.50   1.50   8.94   2.8782   2.8824   0.0042   46.7   60.8  |                         |                 | Fine                  | 0.3E                                  | 30           | 601980  | 602080  | 60.0        | 40              | 40              |                    | 1.28               | 1.28                 | 76.51          | 2.8131       | 2.8200       | 0.0069           | 90.2                |                             |                                       |  |         |
| Sumy   0.4S   31   \$2880   \$60.0   40   40   1.50   1.50   1.50   8.94   2.8782   2.8824   0.0042   46.7   60.8  |                         | -               | -                     | -                                     |              | -       |         |             |                 |                 |                    |                    |                      |                | -            | -            | -                |                     |                             |                                       |  | -       |
| Sumy   0.4S   31   \$2880   \$60.0   40   40   1.50   1.50   1.50   8.94   2.8782   2.8824   0.0042   46.7   60.8  |                         |                 |                       |                                       |              |         |         | <del></del> |                 |                 |                    |                    |                      |                |              |              | -                |                     |                             |                                       |  |         |
| Sumy   0.4S   31   532880   532780   60.0   40   40   1.50   1.50   1.50   89.44   2.8378   2.8480   0.0042   46.7   |                         |                 |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     |                             |                                       |  |         |
| Sumy   0.2S   32   532780   532890   60.0   40   40   1.50   1.   |                         | 06-Jul-09       |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     | 60.8                        |                                       | Soil Nailing, Excavation by backhoe      | raffic  |
| 10-Jul-09   Summy   0.28   32   532880   63.09   60.0   40   40   1.50   1.50   1.50   1.50   89.04   2.8032   2.8103   0.0071   78.9   101.6   1.50   1.5   |                         |                 |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              | 0.00.0           |                     |                             |                                       |  |         |
| Sumy   0.25   32   532980   533980   60.0   40   40   1.50   1.50   1.50   1.50   89.44   2.8902   2.8945   0.0143   1.59   0.143   1.59   0.143   1.59   0.143   1.59   0.143   1.59   0.143   0.14   |                         | 10-Jul-09       |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     | 101.6                       |                                       | Nil                                      | Nil     |
| 16-Jul-99   Sumy   0.3E   32   533180   533280   60.0   40   40   1.50   1.50   8.94   2.8038   2.8075   0.0037   41.1   66.3  |                         |                 |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     |                             |                                       |  |         |
| Green/ew Terrance- Outsall (ASRe)  22-Jul-09  Sumny 0.3E 32 533280 533380 60.0 40 40 1.50 1.50 1.50 89.94 2.8162 2.8163 0.0041 45.6  Sumny 0.6E 32 533380 533480 60.0 40 40 1.50 1.50 1.50 89.94 2.8878 0.0176 195.7  Sumny 0.6E 32 533480 533580 60.0 40 40 1.50 1.50 1.50 89.94 2.8866 2.8892 0.0138 151.2  Sumny 0.6E 32 533580 533580 60.0 40 40 1.50 1.50 1.50 89.94 2.8846 2.8892 0.0138 151.2  Fine 0.5E 30 533580 60.0 40 40 1.50 1.50 1.50 89.94 2.8840 2.8892 0.0082 91.2  Soil Nailing, Breaking by backhoe Traffic  28-Jul-09 Fine 0.5E 30 533580 60.0 40 40 1.50 1.50 1.50 89.94 2.8848 2.8892 0.0082 91.2  Soil Nailing, Breaking by backhoe Traffic   |                         | 40.1.100        |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     |                             |                                       |  |         |
| Outfall (ASR9)  Sumy 0.6E 32 533380 533480 60.0 40 40 1.50 1.50 1.50 89.34 2.8878 2.8854 0.0176 195.7  Sumy 0.6E 32 533480 53580 60.0 40 40 1.50 1.50 1.50 89.34 2.8862 0.0186 151.2  Sumy 0.6E 32 53580 53580 60.0 40 40 1.50 1.50 1.50 89.34 2.8802 0.0082 91.2  Fine 0.5E 30 53580 53580 60.0 40 40 1.50 1.50 1.50 89.34 2.8802 0.0082 91.2  Sumy 0.6E 32 53580 53580 53580 60.0 40 40 1.50 1.50 1.50 89.34 2.8802 0.0082 91.2  Sumy 0.6E 32 53580 53580 53580 53580 60.0 40 40 1.50 1.50 1.50 89.34 2.8802 0.0082 91.2  Sumy 0.6E 32 53580 53580 53580 53580 60.0 40 40 1.50 1.50 1.50 89.34 2.8802 0.0082 91.2  Sumy 0.6E 32 53580 53580 53580 53580 60.0 40 40 1.50 1.50 1.50 89.34 2.8802 0.0085 91.2  Sumy 0.6E 32 53580 53580 53580 53580 60.0 40 40 1.50 1.50 1.50 89.34 2.8802 0.0085 91.2  Sumy 0.6E 32 53580 53580 53580 53580 60.0 40 40 1.50 1.50 1.50 89.34 2.8802 0.0085 91.2  Sumy 0.6E 32 53580 53580 53580 53580 60.0 40 40 1.50 1.50 1.50 89.34 2.8802 0.0085 91.2  Sumy 0.6E 32 53580 53580 53580 53580 60.0 40 40 1.50 1.50 1.50 89.34 2.8802 0.0085 91.2  Sumy 0.6E 32 53580 53580 53580 53580 60.0 40 40 1.50 1.50 1.50 89.34 2.8802 0.0085 91.2  Sumy 0.6E 32 53580 53580 53580 53580 60.0 40 40 1.50 1.50 1.50 89.34 2.8802 0.0085 91.2  Sumy 0.6E 32 53580 53580 53580 53580 60.0 40 40 1.50 1.50 89.34 2.8802 0.0085 91.2  Sumy 0.6E 32 53580 53580 53580 53580 53580 60.0 40 40 1.50 1.50 1.50 89.34 2.8802 0.0085 91.2  Sumy 0.6E 32 53580 53580 53580 53580 60.0 40 40 1.50 1.50 1.50 89.34 2.8802 0.0085 91.2  Sumy 0.6E 32 53580 53580 53580 53580 53580 60.0 40 40 1.50 1.50 1.50 89.34 2.8802 0.0085 91.2  Sumy 0.6E 32 53580 53580 53580 53580 60.0 40 40 1.50 1.50 1.50 89.34 2.8802 0.0085 91.2  Sumy 0.6E 32 53580 53580 53580 53580 60.0 40 40 1.50 1.50 1.50 89.34 2.8802 0.0085 91.2  Sumy 0.6E 32 53580 53580 53580 53580 53580 60.0 40 40 1.50 1.50 1.50 89.34 2.8802 0.0085 91.2  Sumy 0.6E 32 53580 53580 53580 53580 60.0 40 40 1.50 1.50 1.50 89.34 2.8802 0.0085 91.2  Sumy 0.6E 32 53580 53580 53580 53580 60.0 40 40 1.50 1.50 1.50 89.34 2.8802 0.0085 91.2  Sumy 0.6E 32 |                         | 16-Jul-09       |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     | 66.3                        |                                       | Soil Nailing, Excavation by backhoe      | Traffic |
| 22-Jul-09 Sumy 0.6E 32 553480 53550 60.0 40 40 1.50 1.50 1.50 89.94 2.8846 2.8892 0.0136 151.2 146.0 Soil Nailing, Breaking by backhoe Traffic 28-Jul-09 Fine 0.5E 30 53580 53580 60.0 40 40 1.50 1.50 1.50 89.94 2.8846 2.8892 0.0082 91.2 146.0 Soil Nailing, Breaking by backhoe Traffic 28-Jul-09 Fine 0.5E 30 53580 60.0 40 40 1.50 1.50 1.50 89.94 2.8846 2.8892 0.0085 94.5 10.0082 91.2 10.0082 91. |                         |                 |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     |                             | 329.2/500                             |  |         |
| Sunny 0.6E 32 533580 533580 60.0 40 40 1.50 1.50 1.50 89.94 2.8840 2.8922 0.0082 91.2  Fine 0.5E 30 533580 60.0 40 40 1.50 1.50 1.50 89.94 2.8586 2.8752 0.0166 184.6 8  28-Jul-09 Fine 0.5E 30 533580 60.0 40 40 1.50 1.50 1.50 89.94 2.8433 2.8428 0.0085 94.5 120.5 Soil Nailing, Breaking by backhoe Traffic   |                         | 22-Jul-09       | Sunny                 |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     | 146.0                       | 146.0                                 | Soil Nailing,Breaking by backhoe Traffic | Traffic |
| 28-Jul-09 Fine 0.5E 30 533780 533880 60.0 40 40 1.50 1.50 89.94 2.8343 2.8428 0.0085 94.5 120.5 Soil Nailing, Breaking by backhoe Traffic  |                         |                 | Sunny                 | 0.6E                                  | 32           | 533580  | 533680  | 60.0        | 40              |                 | 1.50               | 1.50               | 1.50                 | 89.94          | 2.8840       | 2.8922       | 0.0082           | 91.2                |                             |                                       |  |         |
|  |                         | 28-Jul-09       |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     | 120.5                       |                                       | Soil Nailing, Breaking by backhoe        | Traffic |
| 1 100  |                         |                 |                       |                                       |              |         |         |             |                 |                 |                    |                    |                      |                |              |              |                  |                     | 120.5                       |                                       |  |         |
|  |                         | ÷               | - 1110                | - U.UL                                | -            | -       | -       | - 00.0      | 40              | 40              | 1.30               | 1.50               | 1.50                 | 00.04          | 2.021        | 2.0204       | 0.0074           | 02.3                |                             |                                       |  |         |
|  |                         |                 | -                     | -                                     | -            | -       | -       |             |                 |                 |                    |                    |                      |                | -            | -            | -                |                     |                             |                                       | -  | -       |
|  |                         |                 | -                     | -                                     | -            | -       | -       | -           |                 |                 |                    |                    |                      |                | -            | -            | -                |                     |                             |                                       |  |         |

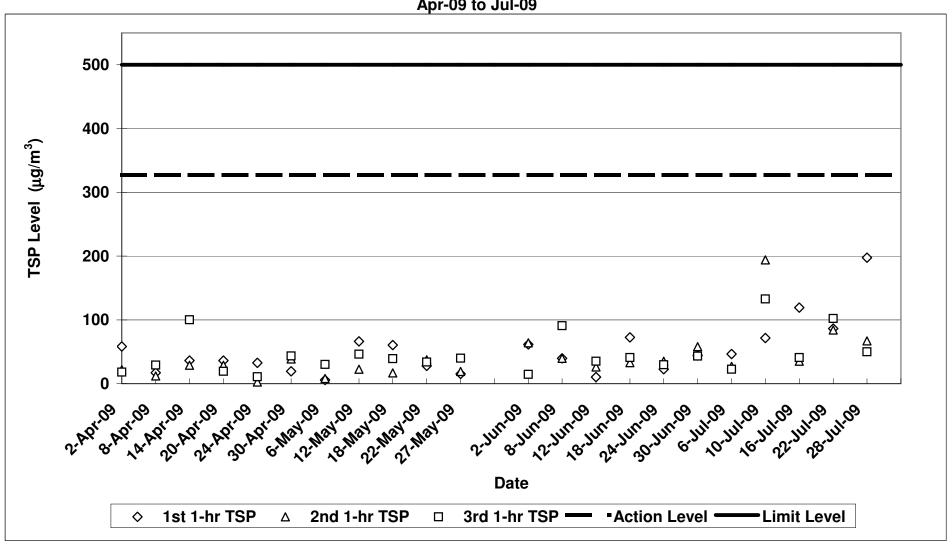
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Air Quality Monitoring (1-hr TSP) Results at Sik Sik Yuen Ho Fung College - Intake (ASR1)

Apr-09 to Jul-09



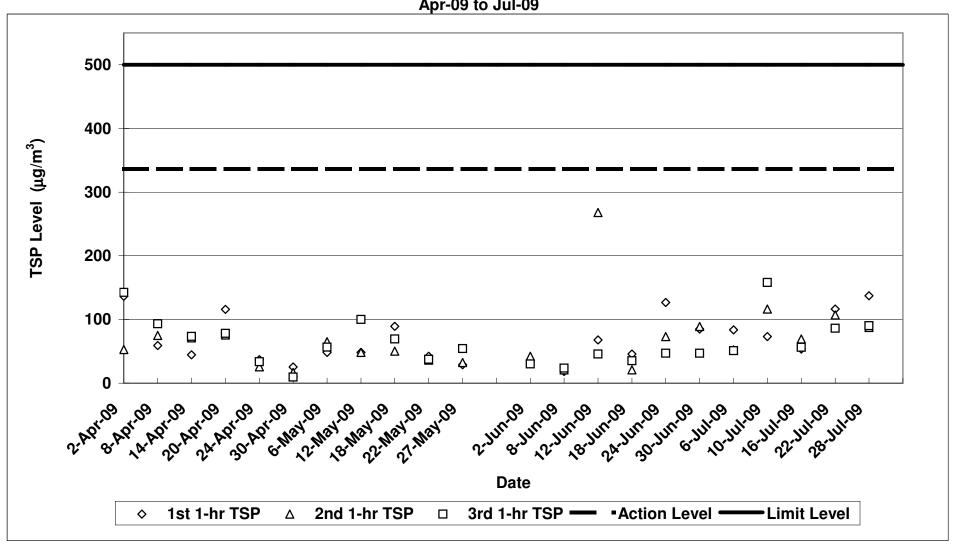
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Air Quality Monitoring (1-hr TSP) Results at Hong Hoi Chee Hong Temple - Intake (ASR3)

Apr-09 to Jul-09



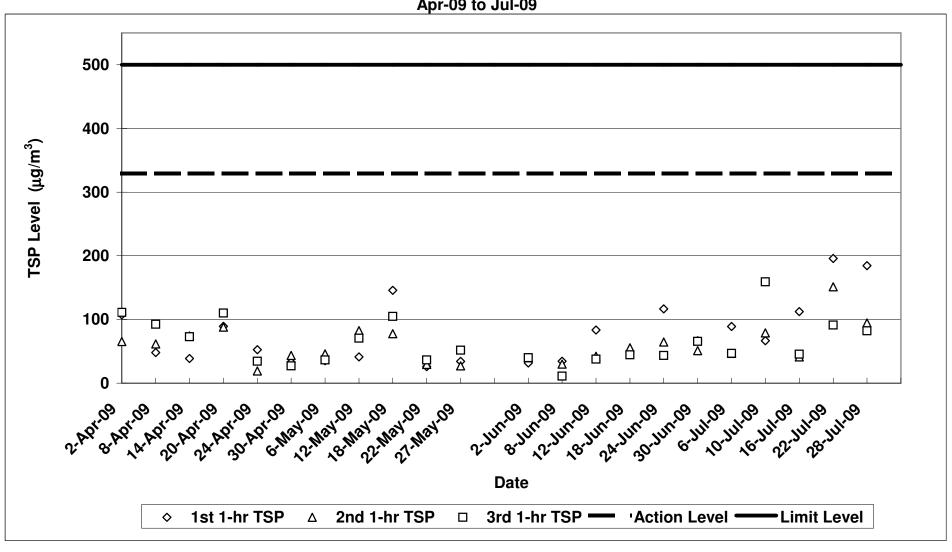
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Air Quality Monitoring (1-hr TSP) Results at Long Beach Gardens - Outfall (ASR8)

Apr-09 to Jul-09



Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Air Quality Monitoring (1-hr TSP) Results at Greenview Terrance - Outfall (ASR9)

Apr-09 to Jul-09



#### Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel

#### **Noise Impact Monitoring Results**

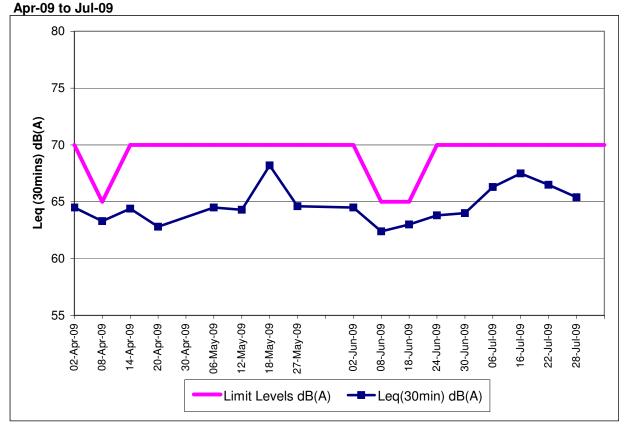
| Monitoring Locations         | Date      | Weather    | Temperature | Wind Speed | Wind      | Start Time | End Time | BL <sup>1</sup> | LL <sup>2</sup> | L <sub>eq(30min)</sub> | L <sub>10(30min)</sub> | L <sub>90(30min)</sub> | CNL <sup>3</sup> | Observation /                                  | Remark                        |
|------------------------------|-----------|------------|-------------|------------|-----------|------------|----------|-----------------|-----------------|------------------------|------------------------|------------------------|------------------|--|-------------------------------|
|                              |           | Conditions | (°C)        | (m/s)      | Direction |            |          | dB(A)           | dB(A)           | dB(A)                  | dB(A)                  | dB(A)                  | dB(A)            | Site Condition                                 |                               |
| Sik Sik Yuen Ho Fung College | 06-Jul-09 | Sunny      | 31          | 0.3        | S         | 13:05      | 13:35    |                 | 70              | 66.3                   | 68.9                   | 61.9                   | -                | Excavation by backhoe                          | Traffic noise                 |
| NSR 1                        | 16-Jul-09 | Sunny      | 32          | 0.3        | E         | 15:20      | 15:50    |                 | 70              | 67.5                   | 70.0                   | 62.6                   | -                | Excavation by backhoe, Soil Nailing            | Traffic noise                 |
|                              | 22-Jul-09 | Sunny      | 31          | 0.2        | E         | 16:42      | 17:12    | 66.1            | 70              | 66.5                   | 69.1                   | 61.8                   | -                | Breaking by backhoe, excavation work           | Traffic noise                 |
|                              | 28-Jul-09 | Fine       | 30          | 0.2        | E         | 17:00      | 17:30    |                 | 70              | 65.4                   | 67.1                   | 60.3                   | -                | Breaking by backhoe, excavation work           | Traffic noise, aircraft noise |
|                              | -         | -          | -           | -          | -         | -          | -        |                 | -               | -                      | -                      | -                      | -                | -  | -                             |
| Hong Hoi Chee Hong Temple    | 06-Jul-09 | Sunny      | 31          | 0.3        | S         | 11:11      | 11:41    |                 | 75              | 72.4                   | 75.3                   | 67.5                   | -                | Excavation by backhoe                          | Traffic noise                 |
| NSR 3                        | 16-Jul-09 | Sunny      | 32          | 0.2        | Е         | 14:43      | 15:13    |                 | 75              | 69.9                   | 71.8                   | 62.7                   | -                | Excavation by backhoe                          | Traffic noise                 |
|                              | 22-Jul-09 | Sunny      | 31          | 0.3        | E         | 16:00      | 16:30    | 57.9            | 75              | 71.0                   | 72.4                   | 68.9                   | -                | Breaking by backhoe, excavation work           | Traffic noise                 |
|                              | 28-Jul-09 | Fine       | 30          | 0.2        | E         | 16:20      | 16:50    |                 | 75              | 71.5                   | 73.9                   | 66.9                   | -                | Drilling, Excavation by backhoe                | Traffic noise, aircraft nosse |
|                              | -         | -          | -           | -          | -         | -          | -        |                 | -               | -                      | -                      | -                      | -                | -  | -                             |
| Squatters                    | 06-Jul-09 | Sunny      | 31          | 0.3        | S         | 14:33      | 15:03    |                 | 75              | 57.4                   | 61.4                   | 49.1                   | -                | Excavation by backhoe                          | Aircrft noise, Insect noise   |
| NSR 6                        | 16-Jul-09 | Sunny      | 32          | 0.2        | E         | 14:00      | 14:30    |                 | 75              | 52.4                   | 55.4                   | 46.9                   | -                | Excavation by backhoe                          | Aircrft noise, birds noise    |
|                              | 22-Jul-09 | Sunny      | 31          | 0.3        | E         | 13:00      | 13:30    | 61.2            | 75              | 55.4                   | 58.2                   | 49.8                   | -                | Excavation by backhoe                          | Aircrft noise, birds noise    |
|                              | 28-Jul-09 | Fine       | 30          | 0.2        | E         | 13:50      | 14:20    |                 | 75              | 55.1                   | 58.3                   | 50.4                   | -                | Excavation by backhoe                          | Aircrft noise, birds noise    |
|                              | -         | -          | 1           | 1          | -         | -          | -        |                 | -               | -                      | -                      | -                      | -                | -  | -                             |
| Long Beach Gardens           | 06-Jul-09 | Sunny      | 31          | 0.5        | S         | 13:20      | 13:50    |                 | 75              | 62.7                   | 65.0                   | 59.8                   | -                | Soil Nailing, Excavation by backhoe            | Traffic noise                 |
| NSR 8                        | 16-Jul-09 | Sunny      | 32          | 0.5        | E         | 10:55      | 11:25    |                 | 75              | 63.5                   | 65.8                   | 60.7                   | -                | Soil Nailing, Excavation by backhoe            | Traffic noise                 |
|                              | 22-Jul-09 | Sunny      | 31          | 0.4        | E         | 15:07      | 15:37    | 60.9            | 75              | 65.4                   | 67.7                   | 62.1                   | -                | Soil Nailing,Breaking by backhoe               | Traffic noise, aircraft nosse |
|                              | 28-Jul-09 | Fine       | 30          | 0.3        | E         | 14:40      | 15:10    |                 | 75              | 64.0                   | 65.9                   | 61.5                   | -                | Soil Nailing,Breaking by backhoe               | Traffic noise, aircraft nosse |
|                              | -         | -          | -           | -          | -         | -          | -        |                 | -               | -                      | -                      | -                      | -                | -  | -                             |
| Greenview Terrace            | 06-Jul-09 | Sunny      | 31          | 0.5        | S         | 15:05      | 15:35    |                 | 75              | 72.4                   | 74.6                   | 72.4                   | -                | Soil Nailing, Excavation by backhoe            | Traffic noise                 |
| NSR 9                        | 16-Jul-09 | Sunny      | 32          | 0.3        | E         | 10:05      | 10:35    |                 | 75              | 71.4                   | 73.8                   | 67.9                   | -                | Soil Nailing, Excavation by backhoe            | Traffic noise                 |
|                              | 22-Jul-09 | Sunny      | 31          | 0.6        | E         | 14:05      | 14:35    | 59.7            | 75              | 72.7                   | 75.2                   | 69.2                   | -                | Soil Nailing, Excavation & Breaking by backhoe | Traffic noise                 |
|                              | 28-Jul-09 | Fine       | 30          | 0.5        | E         | 15:18      | 15:48    |                 | 75              | 71.4                   | 74.6                   | 64.0                   | -                | Soil Nailing,Breaking by backhoe               | Traffic noise, aircraft nosse |
|                              | -         | -          | -           | -          | -         | -          | -        |                 | -               | -                      | -                      | -                      | -                | -  | -                             |

<sup>1:</sup> Baseline Noise Level 2: Limit Level

Note: The limit level of NSR1 is 65dB(A) during school examination period. Red Bold indicates an exceedance of Limit Level

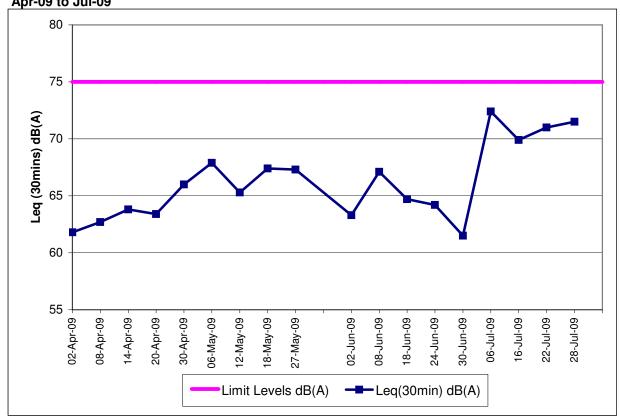
<sup>3:</sup> Corrected Noise Level

Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Noise Monitoring Results at Sik Sik Yuen Ho Fung College (NSR 1)

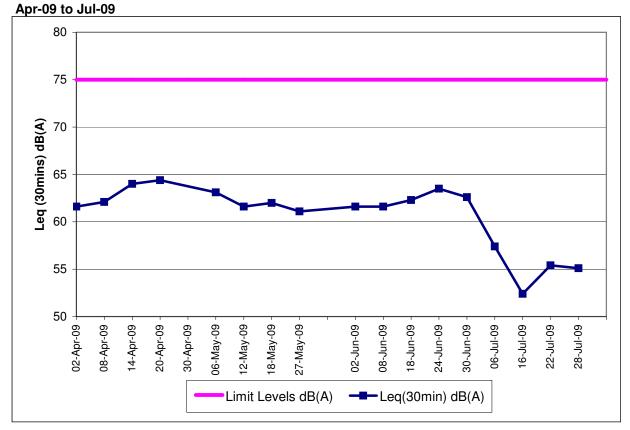


Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Noise Monitoring Results at Hong Hoi Chee Hong Temple (NSR 3)

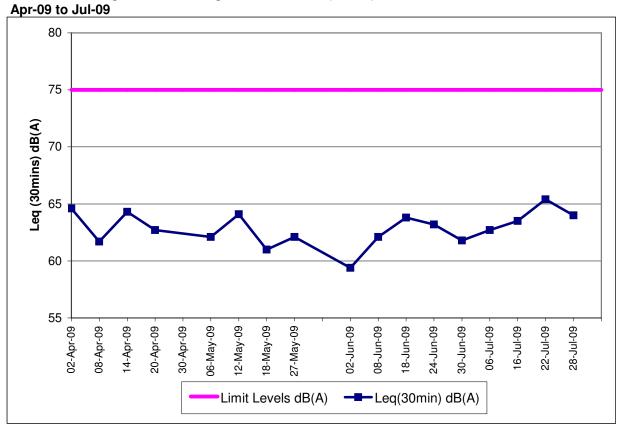
Apr-09 to Jul-09



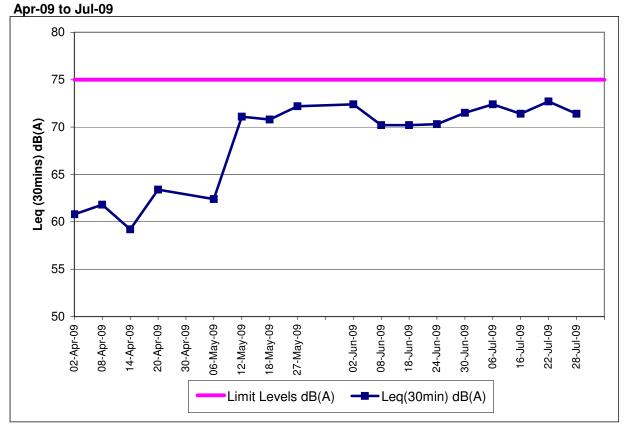
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Noise Monitoring Results at Squatters (NSR 6)



Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Noise Monitoring Results at Long Beach Gardens (NSR 8)



Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Noise Monitoring Results at Greenview Terrace (NSR 9)



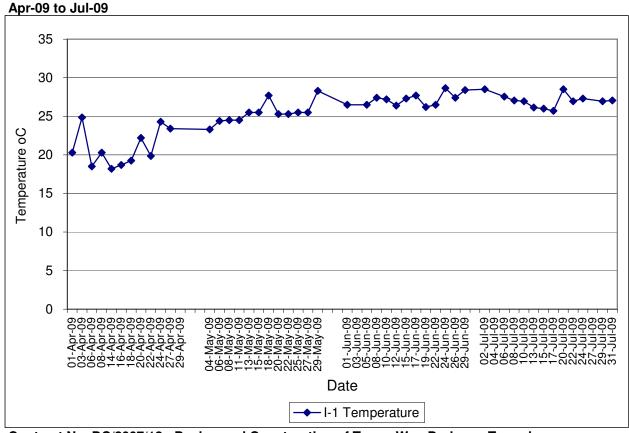
#### Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel

Water Quality Impact Monitoring Results

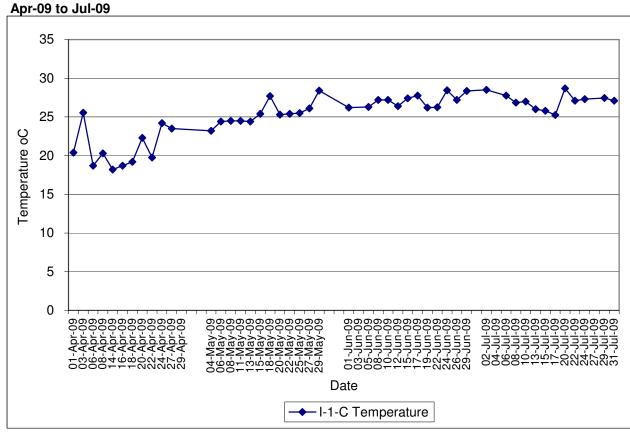
|                                    |   |  | T   |  |  |  |  |                     |   |  |  |              |   |   |   |                                   |  |   |
|------------------------------------|---|--|---|--|--|--|--|---------------------|---|--|--|--------------|---|---|---|-----------------------------------|--|---|
| Monitoring Locations               | Date Start  |  |   | Temp   |  | DO(m   | ,  | Action/Limit        | pH  | Δνα  | Turbidity(NTU)   | Action/Limit |   | SS (mg/L)   | Δισ   | Action/Limit<br>Level of SS(mg/L) | Remarks:   | Action to be taken                            |
| Cilc Cilc Vuon Ho Euna Collogo     | Time  | Fine   | Depth(m)  |  | Avg  | 1 2<br>6.77 6.71                                     | Ū  | Level of DO(mg/L)   | 1 2   | Avg  | 1 2 Avg<br>2.86 2.88 2.87  | Level of Tby | 2.0   | 2.0   | Avg   | Level of SS(mg/L)                 | NEI CONTRACTOR CONTRAC | NEI .   |
| Sik Sik Yuen Ho Fung College       | 02-Jul-09 00:00<br>04-Jul-09 -  | Fine   | <1 28   | 8.50 28.50   | 28.50  | 6.77 6.71  | 6.74   |                     | 6.43 6.40   | 6.42   | 2.86 2.88 2.87   | -            | 2.0   | 2.0   | 2.0   |                                   | งแ<br>Monitoring was cancelled due to thunderstorm warning.  | Nii   |
| 1-1                                | 06-Jul-09 00:00   | Sunny  | <1 27   | 7.60 27.50   | 27.55  | 6.45 6.48  | 6.47   |                     | 7.76 7.76   | 7.76   | 3.99 4.04 4.02   | -            | 2.0   | 2.0   | 2.0   |                                   | violing was cancelled due to thunderstorm warning.   | Nil   |
|                                    | 08-Jul-09 00:00   |  |   |  |  | 6.04 5.97  |  |                     | 7.75 7.74   |  | 3.71 3.70 3.71   |              | 2.0   | 2.0   | 2.0   |                                   | VII  | Nil   |
|                                    | 10-Jul-09 00:00   |  |   |  | 26.95  |  | 5.73   |                     | 7.57 7.56   |  | 2.34 2.33 2.34   |              | 3.1   | 3.0   | 3.1   |                                   | Vil  | Nil   |
|                                    |   | Sunny  |   |  |  | 6.70 6.73  |  |                     | 7.38 7.38   |  | 3.67 3.69 3.68   |              | 2.0   | 2.0   | 2.0   | İ                                 | vil  | Nil   |
|                                    | 15-Jul-09 21:36   |  |   |  |  | 6.62 6.58  |  |                     | 7.62 7.61   |  | 3.65 3.63 3.64   |              | 2.6   | 2.9   | 2.8   |                                   | vil  | Nil   |
|                                    | 17-Jul-09 00:00   |  |   |  |  | 6.06 6.03  |  | 3.42 / 3.34         | 7.18 7.19   |  | 3.77 3.74 3.76   | 9.75 / 12.47 | 2.0   | 2.0   | 2.0   | 8.85 / 10.17                      | vil  | Nil   |
|                                    | 20-Jul-09 07:12   | ? Fine   | <1 28   | 8.50 28.50   | 28.50  | 5.97 5.95  | 5.96   |                     | 7.14 7.13   | 7.14   | 3.11 3.15 3.13   |              | 2.6   | 2.3   | 2.5   | Ī                                 | Nil  | Nil   |
|                                    | 22-Jul-09 00:00   | Sunny  | <1 26   | 6.90 27.00   | 26.95  | 6.37 6.42  | 6.40   |                     | 7.02 7.01   | 7.02   | 2.19 2.23 2.21   |              | 2.0   | 2.0   | 2.0   | Ī                                 | Breaking by backhoe,excavation work  | Nil   |
|                                    | 24-Jul-09 00:00   | Cloudy   | <1 27   | 7.30 27.30   | 27.30  | 6.08 6.12  | 6.10   |                     | 7.67 7.67   | 7.67   | 3.10 3.13 3.12   |              | 2.0   | 2.0   | 2.0   |                                   | Nil Nil  | Nil   |
|                                    | 27-Jul-09 -   | -  | -   |  | -  |  | -  |                     |   |  |  |              | -   | -   |   |                                   | Monitoring was cancelled due to thunderstorm warning.  | Nil   |
|                                    | 29-Jul-09 00:00   | Fine   | <1 26   |  | 26.95  |  | 7.13   |                     | 5.31 5.32   | 5.32   | 2.78 2.86 2.82   |              | 2.0   | 2.0   | 2.0   |                                   | Nil  | Nil   |
|                                    | 31-Jul-09   | Sunny  |   |  | 27.05  |  |  |                     | 5.70 5.69   | 5.70   | 2.95 2.90 2.93   |              | 2.0   | 2.0   | 2.0   |                                   | Nil  | Nil   |
| Sik Sik Yuen Ho Fung College       | 02-Jul-09 09:30   | Fine   | <1 28   | 8.50 28.50   | 28.50  | 6.71 6.72  | 6.72   |                     | 6.55 6.53   | 6.54   | 3.25 3.27 3.26   |              | 2.0   | 2.0   | 2.0   |                                   | Nil  | Nil   |
| I-1-C                              | 04-Jul-09 -   | -  | -   |  | -  |  | -  |                     |   | -  |  |              | -   | -   | -   |                                   | Monitoring was cancelled due to thunderstorm warning.  | Nil   |
|                                    | 06-Jul-09 10:27   |  |   |  | 27.75  |  |  |                     | 7.47 7.45   | 7.46   | 3.86 3.88 3.87   |              | 2.0   | 2.0   | 2.0   |                                   | Excavation by backhoe  | Nil   |
|                                    | 08-Jul-09 13:15   |  |   |  | 26.85  |  | 6.29   |                     | 7.59 7.59   |  | 3.51 3.47 3.49   | _            | 2.8   | 2.9   | 2.9   |                                   | Nil  | Nil   |
|                                    | 10-Jul-09 09:55   |  |   |  | 27.00  | 5.98 6.01  | 6.00   |                     | 7.60 7.59   |  | 2.67 2.65 2.66   |              | 2.2   | 2.1   | 2.2   |                                   | NII  | Nil   |
|                                    | 13-Jul-09 10:12   |  |   |  | 26.00  |  |  |                     | 7.20 7.21   |  | 3.50 3.54 3.52   | _            | 2.3   | 2.5   | 2.4   |                                   | NII  | NII<br>NEI                                    |
|                                    | 15-Jul-09 13:10<br>17-Jul-09 09:10  |  |   |  | 25.80  |  |  | - /-                | 7.53 7.53<br>7.23 7.24  |  | 3.70 3.71 3.71<br>3.84 3.81 3.83   | - /-         | 3.3   | 3.2<br>2.4  | 3.3   | - /-                              | NII  | Nil   |
|                                    | 20-Jul-09 09:10   | Sunny<br>Fine  |   |  |  | 6.28 6.24<br>6.39 6.42                               |  | 1                   | 6.93 6.94   |  | 3.84 3.81 3.83<br>3.04 3.00 3.02   | <b>⊣</b> !   | 2.3   | 2.4   | 2.4   |                                   | NII  | Nil   |
|                                    | 22-Jul-09 10:50   |  |   |  | 27.10  |  |  |                     | 6.95 6.95   |  | 2.30 2.35 2.33   | ┥ !          | 2.0   | 2.0   | 2.0   |                                   | Breaking by backhoe,excavation work  | Nil   |
|                                    | 24-Jul-09 09:28   |  |   | 7.30 27.30   |  | 6.44 6.40  |  |                     | 7.71 7.72   |  | 3.05 3.09 3.07   | ╡ !          | 2.0   | 2.0   | 2.0   | ŀ                                 | Vil  | Nil   |
|                                    | 27-Jul-09 -   | - Cloudy   | - 21  |  | -  |  | -  | 1                   |   | -  |  | ┪ !          | -   | -   | -   | l l                               | Monitoring was cancelled due to thunderstorm warning.  | Nil   |
|                                    | 29-Jul-09 09:18   | Fine   | <1 27   | 7.50 27.40   | 27.45  | 6.98 6.94  | 6.96   | 1                   | 5.27 5.28   | 5.28   | 2.95 2.90 2.93   | ┪ !          | 2.0   | 2.0   | 2.0   | l H                               | Vil  | Nil   |
|                                    | 31-Jul-09 14:18   |  |   |  | 27.10  |  |  | 1                   | 5.46 5.45   |  | 3.12 3.18 3.15   | 7            | 2.0   | 2.0   | 2.0   | ľ                                 | Nil  | Nil   |
| Hong Hoi Chee Hong Temple          | 02-Jul-09 10:19   |  |   |  | 28.40  | 7.18 7.17  | 7.18   |                     | 6.53 6.52   |  | 4.88 4.84 4.86   |              | 4.7   | 5.0   | 4.9   |                                   | Backhoe excavation   | Nil   |
| I-2                                | 04-Jul-09 -   | -  |   |  | -  |  | -  | 1                   |   |  |  | 7            | -   | -   | -   |                                   | Monitoring was cancelled due to thunderstorm warning.  | Nil   |
|                                    | 06-Jul-09 09:28   | Sunny  | <1 28   | 8.30 28.30   | 28.30  | 6.50 6.58  | 6.54   |                     | 7.28 7.27   | 7.28   | 5.11 5.07 5.09   |              | 4.3   | 3.9   | 4.1   | Ī                                 | Excavation by backhoe  | Nil   |
|                                    | 08-Jul-09 13:58   |  | <1 27   | 7.10 27.10   | 27.10  | 6.16 6.11  | 6.14   |                     | 7.62 7.62   | 7.62   | 4.60 4.62 4.61   |              | 3.9   | 3.4   | 3.7   |                                   | Nil  | Nil   |
|                                    | 10-Jul-09 10:40   | Sunny  |   |  |  | 5.51 5.48  |  |                     | 7.16 7.16   |  | 2.43 2.40 2.42   |              | 2.0   | 2.0   | 2.0   |                                   | Nil  | Nil   |
|                                    | 13-Jul-09 10:45   | Sunny  |   |  |  | 5.68 5.65  | 5.67   |                     | 7.80 7.81   |  | 2.74 2.73 2.74   |              | 5.9   | 5.6   | 5.8   |                                   | Nil  | Nil   |
|                                    | 15-Jul-09 14:15   |  |   | 6.40 26.50   |  |  |  | 3.66 / 3.63         | 7.20 7.19   |  | 3.07 3.09 3.08   | 6.63 / 6.99  | 2.2   | 2.1   | 2.2   | 7.68 / 8.34                       | Nil  | Nil   |
|                                    | 17-Jul-09 10:05   |  |   |  |  | 6.29 6.22  |  | 0.007 0.00          | 7.25 7.26   |  | 2.33 2.35 2.34   | 0.007 0.00   | 2.0   | 2.3   | 2.2   | 7.007 0.04                        | Nil  | Nil   |
|                                    | 20-Jul-09 10:48   |  |   |  |  | 6.09 6.01  |  |                     | 7.03 7.03   |  | 2.61 2.65 2.63   |              | 2.9   | 2.6   | 2.8   |                                   | Nil  | Nil   |
|                                    | 22-Jul-09 11:35   |  |   |  | 26.90  |  |  |                     | 7.26 7.26   |  | 2.07 2.10 2.09   |              | 2.0   | 2.0   | 2.0   |                                   | Breaking by backhoe,excavation work  | Nil   |
|                                    | 24-Jul-09 09:16   | Cloudy   | <1 27   | 7.00 27.10   | 27.05  | 6.01 6.06  | 6.04   |                     | 7.59 7.60   | 7.60   | 40.20 40.60 <b>40.40</b>   | _            | 61.4  | 57.5  | 59.5  |                                   | Nil  | Nil   |
|                                    | 27-Jul-09 -   | -  | -   |  | - 07.70  |  | -  |                     |   |  |  |              | -   | -   | -   |                                   | Monitoring was cancelled due to thunderstorm warning.  | Nil   |
|                                    | 29-Jul-09 10:30   | _  | <1 27   | 7.70 27.70   | 27.70  | 6.91 6.86  | 6.89   |                     | 5.41 5.41   | 5.41   | 2.77 2.83 2.80   |              | 2.0   | 2.0   | 2.0   |                                   | Backhoe excavation   | Nil   |
| ·                                  |   |  | 1 0   | 7 10 07 00   | 07.15  | F 00 F 00  | E 00   | 1                   | E 47 E 40   | E 47   |  |              | 0.0   | 0.0   | 0.0   |                                   |  | N III   |
| Hana Hai Chao Hana Tampla          | 31-Jul-09 14:00   |  |   | 7.10 27.20   |  |  |  |                     | 5.47 5.46   |  | 2.47 2.52 2.50   |              | 2.0   | 2.0   | 2.0   |                                   | Backhoe excavation   | Nil<br>Nii                                    |
| Hong Hoi Chee Hong Temple          | 02-Jul-09 10:08   |  |   |  |  |  |  |                     | 5.47 5.46<br>6.43 6.42  |  |  |              | 6.2   | 2.0<br>6.1  | 2.0<br>6.2  |                                   | Nil  | Nii<br>Nii                                    |
| Hong Hoi Chee Hong Temple<br>I-2-C | 02-Jul-09 10:08<br>04-Jul-09 -  | Fine -   | <1 28   | 8.50 28.50   | 28.50  | 7.28 7.24  | 7.26   |                     | 6.43 6.42   | 6.43   | 2.47 2.52 2.50<br>4.91 4.95 4.93   |              | 6.2   | 6.1   | 6.2   |                                   | Nil<br>Monitoring was cancelled due to thunderstorm warning.   | Nil<br>Nil<br>Nil                             |
|                                    | 02-Jul-09 10:08<br>04-Jul-09 -<br>06-Jul-09 09:15   | Fine<br>-<br>Sunny   | <1 28<br>-<br><1 28   | 8.50 28.50<br><br>8.10 28.10   | 28.50  | 7.28 7.24<br><br>6.62 6.65                           | 7.26<br>-<br>6.64  |                     | 6.43 6.42<br><br>7.40 7.41  | 6.43<br>-<br>7.41  | 2.47     2.52     2.50       4.91     4.95     4.93       -     -     -       4.56     4.50     4.53   |              | 6.2<br>-<br>2.3   | 6.1<br>-<br>2.0   | 6.2<br>-<br>2.2   |                                   | Nil  | Nii<br>Nii                                    |
|                                    | 02-Jul-09 10:08<br>04-Jul-09 -<br>06-Jul-09 09:15<br>08-Jul-09 13:45  | Fine Sunny Sunny   | <1 28<br>-<br><1 28<br><1 27  | 8.50 28.50<br><br>8.10 28.10<br>7.00 27.00   | 28.50<br>-<br>28.10<br>27.00   | 7.28 7.24<br><br>6.62 6.65<br>5.79 5.83              | 7.26<br>-<br>6.64<br>5.81  |                     | 6.43 6.42<br>   | 6.43<br>-<br>7.41<br>7.63  | 2.47     2.52     2.50       4.91     4.95     4.93       -     -     -       4.56     4.50     4.53       3.92     3.95     3.94  |              | 6.2<br>-<br>2.3<br>2.6  | 6.1<br>-<br>2.0<br>2.6  | 6.2<br>-<br>2.2<br>2.6  |                                   | Nil<br>Monitoring was cancelled due to thunderstorm warning.   | Nii<br>Nii<br>Nii<br>Nii<br>Nii               |
|                                    | 02-Jul-09 10:08<br>04-Jul-09 -<br>06-Jul-09 09:15<br>08-Jul-09 13:45<br>10-Jul-09 10:30   | Fine Sunny Sunny Sunny   | <1 28<br>-<br><1 28<br><1 27<br><1 26   | 8.50 28.50<br><br>8.10 28.10<br>7.00 27.00<br>6.80 26.70   | 28.50<br>-<br>28.10<br>27.00<br>26.75  | 7.28 7.24<br><br>6.62 6.65<br>5.79 5.83<br>6.33 6.29 | 7.26<br>-<br>6.64<br>5.81<br>6.31  |                     | 6.43 6.42<br>   | 7.41<br>7.63<br>7.61   | 2.47     2.52     2.50       4.91     4.95     4.93       -     -     -       4.56     4.50     4.53       3.92     3.95     3.94       2.61     2.60     2.61   |              | 6.2<br>-<br>2.3<br>2.6<br>2.9   | 6.1<br>-<br>2.0<br>2.6<br>3.0   | 6.2<br>-<br>2.2<br>2.6<br>3.0   |                                   | Nil<br>Monitoring was cancelled due to thunderstorm warning.   | Nii<br>Nii                                    |
|                                    | 02-Jul-09 10:08<br>04-Jul-09 -<br>06-Jul-09 09:15<br>08-Jul-09 13:45<br>10-Jul-09 10:30<br>13-Jul-09 10:35  | Fine Sunny Sunny Sunny Sunny Sunny   | <1 28<br><1 28<br><1 27<br><1 26<br><1 26<br><1 26  | 8.50 28.50<br>   | 28.50<br>-<br>28.10<br>27.00<br>26.75<br>25.75   | 7.28 7.24<br>  | 7.26<br>-<br>6.64<br>5.81<br>6.31<br>5.80  | ,                   | 6.43 6.42<br>   | 6.43<br>-<br>7.41<br>7.63<br>7.61<br>7.32  | 2.47         2.52         2.50           4.91         4.95         4.93           -         -         -           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29  |              | 6.2<br>-<br>2.3<br>2.6  | 6.1<br>-<br>2.0<br>2.6  | 6.2<br>-<br>2.2<br>2.6<br>3.0<br>2.2  |                                   | Nil<br>Monitoring was cancelled due to thunderstorm warning.   | Nii<br>Nii                                    |
|                                    | 02-Jul-09 10:08<br>04-Jul-09 -<br>06-Jul-09 09:15<br>08-Jul-09 13:45<br>10-Jul-09 10:30<br>13-Jul-09 10:35  | B Fine - Sunny Sunny Sunny Sunny Sunny Sunny Sunny   | <1 28<br><1 28<br><1 27<br><1 26<br><1 26<br><1 25<br><1 26   | 8.50 28.50<br>   | 28.50<br>-<br>28.10<br>27.00<br>26.75<br>25.75<br>26.20  | 7.28 7.24<br><br>6.62 6.65<br>5.79 5.83<br>6.33 6.29 | 7.26<br>-<br>6.64<br>5.81<br>6.31<br>5.80<br>5.49  | - /-                | 6.43 6.42<br>7.40 7.41<br>7.63 7.62<br>7.62 7.60<br>7.32 7.31   | 6.43<br>-<br>7.41<br>7.63<br>7.61<br>7.32<br>7.26  | 2.47         2.52         2.50           4.91         4.95         4.93           -         -         -           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29  | -/-          | 6.2<br>-<br>2.3<br>2.6<br>2.9<br>2.2  | 6.1<br>-<br>2.0<br>2.6<br>3.0<br>2.2  | 6.2<br>-<br>2.2<br>2.6<br>3.0   |                                   | Nil<br>Monitoring was cancelled due to thunderstorm warning.   | Nii<br>Nii                                    |
|                                    | 02-Jul-09 10:08<br>04-Jul-09 -<br>06-Jul-09 09:15<br>08-Jul-09 13:45<br>10-Jul-09 10:30<br>13-Jul-09 10:35<br>15-Jul-09 13:50   | B Fine   | <1 28 <1 28 <1 27 <1 26 <1 27 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1    | 8.50 28.50<br>   | 28.50<br>-<br>28.10<br>27.00<br>26.75<br>25.75<br>26.20<br>26.00<br>28.70  | 7.28 7.24<br>  | 7.26<br>-<br>6.64<br>5.81<br>6.31<br>5.80<br>5.49<br>6.45<br>6.33  | - /-                | 6.43 6.42<br>   | 6.43<br>-<br>7.41<br>7.63<br>7.61<br>7.32<br>7.26<br>7.33  | 2.47     2.52     2.50       4.91     4.95     4.93       -     -     -       4.56     4.50     4.53       3.92     3.95     3.94       2.61     2.60     2.61       2.28     2.29     2.29       2.70     2.68     2.69   | -/-          | 2.3<br>2.6<br>2.9<br>2.2<br>2.6   | 6.1<br>-<br>2.0<br>2.6<br>3.0<br>2.2<br>2.3   | 6.2<br>-<br>2.2<br>2.6<br>3.0<br>2.2<br>2.5   |                                   | Nil<br>Monitoring was cancelled due to thunderstorm warning.   | Nii<br>Nii                                    |
|                                    | 02-Jul-09 10:08<br>04-Jul-09 -<br>06-Jul-09 09:15<br>08-Jul-09 13:45<br>10-Jul-09 10:30<br>13-Jul-09 10:35<br>15-Jul-09 13:50<br>17-Jul-09 09:50<br>22-Jul-09 11:23   | Fine Sunny   | <1 28 -1 28 -1 27 -1 26 | 8.50 28.50<br>   | 28.50<br>  | 7.28 7.24<br>  | 7.26<br>   | - /-                | 6.43 6.42<br>   | 6.43<br>-<br>7.41<br>7.63<br>7.61<br>7.32<br>7.26<br>7.33<br>7.01<br>7.23  | 2.47         2.52         2.50           4.91         4.95         4.93           -         -         -           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29           2.70         2.68         2.69           2.18         2.17         2.18           2.85         2.88         2.87           2.21         2.20         2.21  |              | 6.2<br>-<br>2.3<br>2.6<br>2.9<br>2.2<br>2.6<br>2.4<br>3.9<br>2.0  | 6.1<br>-<br>2.0<br>2.6<br>3.0<br>2.2<br>2.3<br>2.6<br>42<br>2.0   | 6.2<br>-<br>2.2<br>2.6<br>3.0<br>2.2<br>2.5<br>2.5<br>2.5<br>3.9<br>2.0   | - /-                              | Nil<br>Monitoring was cancelled due to thunderstorm warning.   | Nii       |
|                                    | 02-Jul-09 10:08<br>04-Jul-09 -<br>06-Jul-09 09:15<br>08-Jul-09 13:45<br>10-Jul-09 10:30<br>13-Jul-09 10:35<br>15-Jul-09 13:50<br>17-Jul-09 09:50<br>20-Jul-09 11:23<br>22-Jul-09 09:05  | B Fine - Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Fine  | <1 28 -1 28 -1 27 -1 26 | 8.50 28.50<br>   | 28.50<br>  | 7.28 7.24<br>  | 7.26<br>   | - /-                | 6.43 6.42<br>   | 6.43<br>-<br>7.41<br>7.63<br>7.61<br>7.32<br>7.26<br>7.33<br>7.01<br>7.23  | 2.47         2.52         2.50           4.91         4.95         4.93           -         -         -           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29           2.70         2.68         2.69           2.18         2.17         2.18           2.85         2.88         2.87   |              | 6.2<br>-<br>2.3<br>2.6<br>2.9<br>2.2<br>2.6<br>2.4<br>3.9   | 6.1<br>-<br>2.0<br>2.6<br>3.0<br>2.2<br>2.3<br>2.6<br>42  | 6.2<br>-<br>2.2<br>2.6<br>3.0<br>2.2<br>2.5<br>2.5<br>3.9   | -/-                               | Nil Monitoring was cancelled due to thunderstorm warning. Excavation by backhoe  Nil Nil Nil Nil Nil Nil Nil Nil Nil Ni  | Nii<br>Nii<br>Nii<br>Nii<br>Nii<br>Nii<br>Nii |
|                                    | 02-Jul-09 10:08<br>04-Jul-09 -<br>06-Jul-09 09:15<br>08-Jul-09 13:45<br>10-Jul-09 10:30<br>13-Jul-09 10:35<br>15-Jul-09 10:35<br>20-Jul-09 10:35<br>22-Jul-09 11:23<br>24-Jul-09 09:05<br>27-Jul-09 -   | Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Cloudy   | <1 28 -1 28 -1 26 -1 26 -1 26 -1 26 -1 26 -1 26 -1 26 -1 26 -1 26 -1 26 -1 26 -1 27 -1 27 -1 27 -1 27 -1 28 -1 27 -1 27 -1 27 -1 28 -1 27 -1 27 -1 27 -1 28 -1 27 -1 27 -1 27 -1 28 -1 27 -1 27 -1 28 -1 27 -1 28 -1 27 -1 28 -1 27 -1 28 -1 27 -1 28 -1 27 -1 28 -1 27 -1 28 -1 27 -1 28 -1 27 -1 28 -1 27 -1 28 -1 27 -1 28 | 8.50 28.50<br>   | 28.50<br>  | 7.28 7.24<br>  | 7.26<br>-<br>6.64<br>5.81<br>6.31<br>5.80<br>5.49<br>6.45<br>6.33<br>5.82<br>5.82                        | - /-                | 6.43 6.42<br>   | 6.43<br>-<br>7.41<br>7.63<br>7.61<br>7.32<br>7.26<br>7.33<br>7.01<br>7.23<br>7.62  | 2.47         2.52         2.50           4.91         4.93         4.93           -         -         -           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29           2.70         2.68         2.69           2.18         2.17         2.18           2.85         2.88         2.87           2.21         2.20         2.21           41.20         41.70         41.45           -         -         -  |              | 6.2<br>-<br>2.3<br>2.6<br>2.9<br>2.2<br>2.6<br>2.4<br>3.9<br>2.0<br>59.8  | 6.1<br>-<br>2.0<br>2.6<br>3.0<br>2.2<br>2.3<br>2.6<br>42<br>2.0<br>57.9   | 6.2<br>-<br>2.2<br>2.6<br>3.0<br>2.2<br>2.5<br>2.5<br>2.5<br>2.9<br>2.0<br>58.9   | -/-                               | Nil Monitoring was cancelled due to thunderstorm warning. Excavation by backhoe Nil Nil Nil Nil Nil  | Nii       |
|                                    | 02-Jul-09 10:08<br>04-Jul-09 -<br>06-Jul-09 09:15<br>08-Jul-09 10:30<br>13-Jul-09 10:30<br>15-Jul-09 13:50<br>17-Jul-09 9:50<br>20-Jul-09 11:23<br>24-Jul-09 9:05<br>27-Jul-09 -<br>27-Jul-09 -<br>29-Jul-09 10:45  | Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny County County Sunny Sunny Sunny Sunny Fine Sunny County Fine   | <1 28 <1 28 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 26 <1 27 <1 26 <1 26 <1 27 <1 26 <1 27 <1 28 <1 27 <1 28 <1 27 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1 28 <1  | 8.50 28.50<br>- 28.10<br>7.00 27.00<br>6.80 26.70<br>6.80 25.70<br>6.80 25.70<br>6.80 26.20<br>6.00 26.00<br>8.70 28.70<br>6.80 27.10<br>- 28.10   | 28.50<br>  | 7.28 7.24<br>  | 7.26<br>- 6.64<br>5.81<br>6.31<br>5.80<br>5.49<br>6.45<br>6.33<br>5.82<br>5.82<br>5.89                   | - /-                | 6.43 6.42<br>7.40 7.41<br>7.63 7.62<br>7.62 7.60<br>7.32 7.31<br>7.25 7.26<br>7.33 7.33<br>7.01 7.01<br>7.23 7.22<br>7.62 7.61<br>5.55 5.55                           | 6.43<br>-<br>7.41<br>7.63<br>7.61<br>7.32<br>7.26<br>7.33<br>7.01<br>7.23<br>7.62<br>-<br>5.55   | 2.47         2.52         2.50           4.91         4.93         4.93           -         -         -           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29           2.70         2.68         2.69           2.18         2.17         2.18           2.85         2.88         2.87           2.21         2.20         2.21           41.20         41.70         41.45  |              | 6.2<br>-<br>2.3<br>2.6<br>2.9<br>2.2<br>2.6<br>2.4<br>3.9<br>2.0<br>59.8<br>-<br>2.0  | 6.1<br>-<br>2.0<br>2.6<br>3.0<br>2.2<br>2.3<br>2.6<br>42<br>2.0<br>57.9   | 6.2<br>2.2<br>2.6<br>3.0<br>2.2<br>2.5<br>2.5<br>3.9<br>2.0<br>58.9   | -/-                               | Nil Monitoring was cancelled due to thunderstorm warning. Excavation by backhoe  Nil Nil Nil Nil Nil Nil Nil Nil Nil Ni  | Nii       |
| I-2-C                              | 02-Jul-09 10:08<br>04-Jul-09 -<br>06-Jul-09 09:15<br>08-Jul-09 10:30<br>13-Jul-09 10:30<br>13-Jul-09 13:50<br>17-Jul-09 09:50<br>20-Jul-09 11:23<br>22-Jul-09 11:23<br>24-Jul-09 09:05<br>27-Jul-09 -<br>29-Jul-09 10:45<br>31-Jul-09 13:50   | Fine Sunny Sunny Sunny Sunny Sunny Sunny Sunny Cloudy Fine Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny   | 1   28   1   27   28   28   28   28   28   28   28  | 8.50 28.50<br>- 28.10<br>7.00 27.00<br>6.80 26.70<br>5.80 25.70<br>6.20 26.20<br>6.00 26.00<br>8.70 28.70<br>6.80 27.10<br>  | 28.50<br>-28.10<br>27.00<br>26.75<br>25.75<br>26.20<br>26.00<br>28.70<br>26.75<br>   | 7.28 7.24<br>  | 7.26<br>- 6.64<br>5.81<br>6.31<br>5.80<br>5.49<br>6.45<br>6.33<br>5.82<br>5.98<br>- 6.50<br>6.33         | - /-                | 6.43 6.42<br>7.40 7.41<br>7.63 7.62<br>7.62 7.60<br>7.32 7.31<br>7.25 7.26<br>7.33 7.33<br>7.01 7.01<br>7.01 7.01<br>7.02 7.61<br>                                    | 6.43<br>-<br>7.41<br>7.63<br>7.61<br>7.32<br>7.26<br>7.33<br>7.01<br>7.23<br>7.62<br>-<br>5.55<br>5.50   | 2.47         2.52         2.50           4.91         4.95         4.93           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29           2.70         2.68         2.69           2.18         2.17         2.18           2.85         2.88         2.87           2.21         2.20         2.21           41.20         41.70         41.45           -         -         -           3.24         3.21         3.23           2.51         2.60         2.56  |              | 6.2<br>2.3<br>2.6<br>2.9<br>2.2<br>2.6<br>2.4<br>3.9<br>2.0<br>59.8<br>-<br>2.0<br>2.0  | 6.1<br>- 2.0<br>2.6<br>3.0<br>2.2<br>2.3<br>2.6<br>42<br>2.0<br>57.9<br>- 2.0<br>2.0  | 6.2<br>2.2<br>2.6<br>3.0<br>2.2<br>2.5<br>2.5<br>2.5<br>3.9<br>2.0<br>58.9  | -/-                               | Nil Monitoring was cancelled due to thunderstorm warning. Excavation by backhoe  Nil Nil Nil Nil Nil Nil Nil Nil Nil Ni  | Nii       |
| I-2-C                              | 02-Jul-09 10:08<br>04-Jul-09 -<br>06-Jul-09 09:15<br>08-Jul-09 10:30<br>13-Jul-09 10:30<br>13-Jul-09 10:35<br>15-Jul-09 10:35<br>20-Jul-09 10:35<br>22-Jul-09 10:35<br>22-Jul-09 10:35<br>27-Jul-09 -<br>29-Jul-09 10:45<br>31-Jul-09 13:50<br>02-Jul-09 11:17  | Fine Sunny Sunny Sunny Sunny Sunny Sunny Sunny Cloudy Fine Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny   | 1   28   1   27   28   28   28   28   28   28   28  | 8.50 28.50<br>- 28.10<br>7.00 27.00<br>6.80 26.70<br>5.80 25.70<br>6.20 26.20<br>6.00 26.00<br>8.70 28.70<br>6.80 27.10<br>  | 28.50<br>  | 7.28 7.24<br>  | 7.26<br>- 6.64<br>5.81<br>6.31<br>5.80<br>5.49<br>6.45<br>6.33<br>5.82<br>5.82<br>5.89                   | - /-                | 6.43 6.42<br>7.40 7.41<br>7.63 7.62<br>7.62 7.60<br>7.32 7.31<br>7.25 7.26<br>7.33 7.33<br>7.01 7.01<br>7.23 7.22<br>7.62 7.61<br>5.55 5.55                           | 6.43<br>-<br>7.41<br>7.63<br>7.61<br>7.32<br>7.26<br>7.33<br>7.01<br>7.23<br>7.62<br>-<br>5.55   | 2.47         2.52         2.50           4.91         4.93         4.93           -         -         -           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29           2.70         2.68         2.69           2.18         2.17         2.18           2.85         2.88         2.87           2.21         2.20         2.21           41.20         41.70         41.45  |              | 6.2<br>-<br>2.3<br>2.6<br>2.9<br>2.2<br>2.6<br>2.4<br>3.9<br>2.0<br>59.8<br>-<br>2.0  | 6.1<br>-<br>2.0<br>2.6<br>3.0<br>2.2<br>2.3<br>2.6<br>42<br>2.0<br>57.9   | 6.2<br>2.2<br>2.6<br>3.0<br>2.2<br>2.5<br>2.5<br>3.9<br>2.0<br>58.9   | -/-                               | Nil Monitoring was cancelled due to thunderstorm warning. Excavation by backhoe  Vil Vil Vil Vil Vil Vil Vil Vil Vil Vi  | Nii       |
| I-2-C                              | 02-Jul-09 10:08<br>04-Jul-09 -<br>06-Jul-09 09:15<br>08-Jul-09 10:30<br>13-Jul-09 10:30<br>13-Jul-09 13:50<br>15-Jul-09 10:35<br>20-Jul-09 11:23<br>24-Jul-09 09:05<br>27-Jul-09 09:05<br>27-Jul-09 10:45<br>31-Jul-09 13:50<br>02-Jul-09 11:17<br>04-Jul-09 -  | Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny County Sunny Fine Sunny Fine   | 1   28   1   26   26  | 8.50 28.50<br>   | 28.50<br>27.00<br>26.75<br>25.75<br>26.20<br>26.00<br>28.75<br>27.05<br>   | 7.28 7.24<br>  | 7.26<br>- 6.64<br>5.81<br>6.31<br>5.80<br>6.45<br>6.33<br>5.82<br>6.33<br>5.82<br>- 6.50<br>6.33         | - /-                | 6.43 6.42<br>7.40 7.41<br>7.63 7.62<br>7.62 7.60<br>7.32 7.31<br>7.25 7.25<br>7.33 7.33<br>7.01 7.01<br>7.23 7.22<br>7.62 7.60<br>7.55 5.55<br>5.50 5.50<br>7.00 7.00 | 6.43<br>-<br>7.41<br>7.63<br>7.61<br>7.32<br>7.26<br>7.33<br>7.01<br>7.23<br>7.62<br>-<br>5.55<br>5.50<br>7.00   | 2.47         2.52         2.50           4.91         4.93         4.93           -         -         -           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29           2.70         2.68         2.69           2.18         2.17         2.18           2.85         2.88         2.87           2.21         2.20         2.21           41.20         41.70         41.45           -         -         -           3.24         3.21         3.23           2.51         2.60         2.56           3.45         3.47         3.46   |              | 6.2<br>-<br>2.3<br>2.6<br>2.9<br>2.2<br>2.6<br>2.4<br>3.9<br>2.0<br>59.8<br>-<br>2.0<br>2.0   | 6.1<br>- 2.0<br>2.6<br>3.0<br>2.2<br>2.3<br>2.6<br>42<br>2.0<br>57.9<br>- 2.0<br>2.0<br>2.0   | 6.2<br>- 2.2<br>2.6<br>3.0<br>2.2<br>2.5<br>2.5<br>3.9<br>- 2.0<br>58.9<br>- 2.0<br>2.0   | -/-                               | Nil Monitoring was cancelled due to thunderstorm warning. Excavation by backhoe  Nil Nil Nil Nil Sreaking by backhoe, excavation work Nil Monitoring was cancelled due to thunderstorm warning.  Nil Nil Nil Nil Nil Nil Nil Nil Nil Ni  | Nii       |
| I-2-C                              | 02-Jul-09 10:08<br>04-Jul-09 -<br>06-Jul-09 09:15<br>08-Jul-09 10:30<br>13-Jul-09 10:30<br>13-Jul-09 13:50<br>17-Jul-09 09:50<br>20-Jul-09 11:23<br>24-Jul-09 09:05<br>27-Jul-09 -<br>29-Jul-09 10:45<br>31-Jul-09 13:50<br>02-Jul-09 11:35<br>02-Jul-09 13:50<br>02-Jul-09 13:50<br>02-Jul-09 11:17<br>04-Jul-09 -<br>06-Jul-09 14:25  | Fine Sunny Sunny Sunny Sunny Sunny Sunny Sunny County Sunny Sunny Fine Sunny Fine Sunny Fine Sunny Fine Sunny  | 1   28   1   27   28   28   28   28   28   28   28  | 8.50 28.50<br>   | 28.50<br>28.10<br>27.00<br>26.75<br>26.75<br>26.20<br>28.70<br>28.70<br>27.30<br>28.10<br>27.30<br>28.55   | 7.28 7.24<br>  | 7.26<br>- 6.64<br>5.81<br>6.31<br>5.80<br>5.49<br>6.45<br>6.33<br>5.82<br>5.98<br>- 6.50<br>6.33<br>6.58 | - /-                | 6.43 6.42<br>7.40 7.41<br>7.63 7.62<br>7.62 7.60<br>7.32 7.31<br>7.25 7.26<br>7.33 7.33<br>7.01 7.01<br>7.01 7.01<br>   | 6.43<br>   | 2.47         2.52         2.50           4.91         4.93         4.93           -         -         -           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29           2.70         2.68         2.69           2.18         2.17         2.18           2.85         2.88         2.87           2.21         2.20         2.21           41.20         41.70         41.45           -         -         -           3.24         3.21         3.23           2.51         2.60         2.56           3.45         3.47         3.46           3.41         3.40         3.41  |              | 6.2<br>-3<br>2.6<br>2.9<br>2.2<br>2.6<br>2.9<br>2.2<br>2.6<br>2.4<br>3.9<br>2.0<br>59.8<br>-<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0  | 6.1<br>- 2.0<br>2.6<br>3.0<br>2.2<br>2.3<br>2.6<br>42<br>2.0<br>57.9<br>- 2.0<br>2.0<br>2.0<br>2.0  | 6.2<br>- 2.2<br>2.6<br>3.0<br>2.2<br>2.5<br>3.9<br>2.0<br>58.9<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0                                  | -/-                               | Nil Monitoring was cancelled due to thunderstorm warning. Excavation by backhoe  Vil Vil Vil Vil Vil Vil Vil Vil Vil Vi  | Nii       |
| I-2-C                              | 02-Jul-09 10:08<br>04-Jul-09 -<br>06-Jul-09 09:15<br>08-Jul-09 10:30<br>13-Jul-09 10:30<br>13-Jul-09 10:35<br>15-Jul-09 10:35<br>22-Jul-09 11:23<br>24-Jul-09 09:05<br>27-Jul-09 11:23<br>24-Jul-09 10:35<br>27-Jul-09 10:35<br>31-Jul-09 13:50<br>02-Jul-09 11:17<br>04-Jul-09 13:50<br>02-Jul-09 11:17<br>04-Jul-09 14:25<br>08-Jul-09 14:27  | Fine Sunny Sunny Sunny Sunny Sunny Sunny Cloudy Sunny Sunny Fine Sunny Sunny Sunny Fine Sunny  | 1   28   2  | 8.50 28.50<br>   | 28.50<br>27.00<br>26.75<br>25.75<br>26.20<br>26.02<br>26.07<br>26.75<br>27.05<br>27.05<br>28.10<br>27.30<br>28.35<br>28.55<br>27.00  | 7.28 7.24<br>  | 7.26   | - <i>I-</i>         | 6.43 6.42<br>   | 6.43<br>-<br>7.41<br>7.63<br>7.61<br>7.32<br>7.26<br>7.33<br>7.01<br>7.23<br>7.62<br>-<br>5.55<br>5.50<br>7.00<br>-<br>7.22<br>7.60  | 2.47         2.52         2.50           4.91         4.93         4.93           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29           2.70         2.68         2.69           2.18         2.17         2.18           2.85         2.88         2.87           2.21         2.20         2.21           2.21         2.20         2.21           2.51         2.60         2.56           3.24         3.21         3.23           2.51         2.60         2.56           3.45         3.47         3.46           -         -         -           3.41         3.40         3.41           3.22         3.25         3.24   |              | 6.2<br>- 2.3<br>2.6<br>2.9<br>2.2<br>2.6<br>2.4<br>3.9<br>2.0<br>59.8<br>- 2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0   | 6.1<br>- 2.0<br>2.6<br>3.0<br>2.2<br>2.3<br>2.6<br>42<br>2.0<br>57.9<br>- 2.0<br>2.0<br>2.0<br>2.2<br>2.3   | 6.2<br>- 2.2<br>2.6<br>3.0<br>2.2<br>2.5<br>2.5<br>3.9<br>- 2.0<br>58.9<br>- 2.0<br>2.0   | -/-                               | Nil Monitoring was cancelled due to thunderstorm warning. Excavation by backhoe  Nil Nil Nil Nil Sreaking by backhoe, excavation work Nil Monitoring was cancelled due to thunderstorm warning.  Nil Nil Nil Nil Nil Nil Nil Nil Nil Ni  | Nii       |
| I-2-C                              | 02-Jul-09 10:08<br>04-Jul-09 -<br>06-Jul-09 09:15<br>08-Jul-09 10:30<br>13-Jul-09 10:30<br>13-Jul-09 13:50<br>15-Jul-09 10:35<br>20-Jul-09 11:23<br>24-Jul-09 09:05<br>27-Jul-09 10:45<br>31-Jul-09 13:50<br>02-Jul-09 13:50<br>02-Jul-09 11:17<br>04-Jul-09 14:25<br>08-Jul-09 14:25<br>08-Jul-09 14:27<br>10-Jul-09 13:30   | Fine Sunny Fine Sunny Cloudy Sunny Fine Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Fine Sunny Fine Sunny Sunny  | 1   28   1   26   26   | 8.50 28.50<br>   | 28.50<br>28.10<br>27.00<br>26.75<br>25.75<br>26.20<br>26.00<br>28.70<br>27.05<br>27.05<br>28.35<br>28.35<br>27.00<br>26.55<br>27.00<br>28.35   | 7.28 7.24<br>  | 7.26   | - /-                | 6.43 6.42<br>   | 6.43<br>- 7.41<br>7.63<br>7.61<br>7.32<br>7.26<br>7.33<br>7.01<br>7.23<br>7.62<br>- 5.55<br>5.50<br>7.00<br>- 7.22<br>7.22<br>7.26   | 2.47         2.52         2.50           4.91         4.93         4.93           -         -         -           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29           2.70         2.68         2.69           2.18         2.17         2.18           2.85         2.88         2.87           2.21         2.20         2.21           41.20         41.70         41.45           -         -         -           3.24         3.21         3.23           3.45         3.47         3.46           -         -         -           3.41         3.40         3.41           3.22         3.25         3.24           3.02         3.06         3.04   |              | 6.2<br>- 2.3<br>2.6<br>2.9<br>2.2<br>2.6<br>2.4<br>3.9<br>2.0<br>59.8<br>- 2.0<br>2.0<br>2.0<br>- 2.0<br>- 3.0<br>- | 6.1<br>- 2.0<br>2.6<br>3.0<br>2.2<br>2.3<br>2.6<br>4.2<br>2.0<br>57.9<br>- 2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>3.0<br>2.6<br>4.2<br>2.0<br>57.9<br>2.0<br>3.0<br>3.0<br>2.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3 | 6.2<br>2.2<br>2.6<br>3.0<br>2.2<br>2.5<br>2.5<br>3.9<br>2.0<br>58.9<br>-<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0          | -/-                               | Nil Monitoring was cancelled due to thunderstorm warning. Excavation by backhoe  Nil Nil Nil Nil Sreaking by backhoe, excavation work Nil Monitoring was cancelled due to thunderstorm warning.  Nil Nil Nil Nil Nil Nil Nil Nil Nil Ni  | Nii       |
| I-2-C                              | 02-Jul-09 10:08<br>04-Jul-09 -<br>06-Jul-09 09:15<br>08-Jul-09 10:30<br>13-Jul-09 10:30<br>13-Jul-09 10:35<br>15-Jul-09 10:35<br>22-Jul-09 11:23<br>24-Jul-09 09:05<br>27-Jul-09 11:23<br>24-Jul-09 10:35<br>27-Jul-09 10:35<br>31-Jul-09 13:50<br>02-Jul-09 11:17<br>04-Jul-09 13:50<br>02-Jul-09 11:17<br>04-Jul-09 14:25<br>08-Jul-09 14:27  | Fine Sunny Sunny Sunny Sunny Sunny Sunny Sunny Cloudy Fine Sunny   | 1   28   1   27   28   28   28   28   28   28   28  | 8.50 28.50<br>   | 28.50<br>28.10<br>27.00<br>26.75<br>25.75<br>26.20<br>26.00<br>28.70<br>27.05<br>27.05<br>28.35<br>27.00<br>28.35<br>28.55<br>27.00<br>26.60<br>28.70<br>28.35   | 7.28 7.24<br>  | 7.26   |                     | 6.43 6.42<br>   | 6.43<br>-<br>7.41<br>7.63<br>7.61<br>7.32<br>7.26<br>7.33<br>7.01<br>7.23<br>7.62<br>-<br>5.55<br>5.50<br>7.00<br>-<br>7.22<br>7.66<br>7.56<br>7.56<br>7.57<br>7.62  | 2.47         2.52         2.50           4.91         4.93         4.93           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29           2.70         2.68         2.69           2.18         2.17         2.18           2.85         2.88         2.87           2.21         2.20         2.21           2.21         2.20         2.21           2.51         2.60         2.56           3.24         3.21         3.23           2.51         2.60         2.56           3.45         3.47         3.46           -         -         -           3.41         3.40         3.41           3.22         3.25         3.24   |              | 6.2<br>- 2.3<br>2.6<br>2.9<br>2.2<br>2.6<br>2.4<br>3.9<br>2.0<br>59.8<br>- 2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0   | 6.1<br>- 2.0<br>2.6<br>3.0<br>2.2<br>2.3<br>2.6<br>42<br>2.0<br>57.9<br>- 2.0<br>2.0<br>2.0<br>- 2.4<br>3.9   | 6.2<br>2.2<br>2.6<br>3.0<br>2.2<br>2.5<br>2.5<br>2.5<br>3.9<br>2.0<br>58.9<br>2.0<br>2.0<br>2.0<br>2.0                                    | -/-                               | Nil Monitoring was cancelled due to thunderstorm warning. Excavation by backhoe  Nil Nil Nil Nil Sreaking by backhoe, excavation work Nil Monitoring was cancelled due to thunderstorm warning.  Nil Nil Nil Nil Nil Nil Nil Nil Nil Ni  | Nii       |
| I-2-C                              | 02-Jul-09 10:08<br>04-Jul-09 -<br>06-Jul-09 09:15<br>08-Jul-09 10:30<br>13-Jul-09 10:30<br>13-Jul-09 10:30<br>17-Jul-09 09:50<br>20-Jul-09 10:35<br>22-Jul-09 11:23<br>24-Jul-09 09:05<br>27-Jul-09 -<br>29-Jul-09 10:45<br>02-Jul-09 11:17<br>04-Jul-09 -<br>06-Jul-09 14:27<br>10-Jul-09 14:27<br>10-Jul-09 13:25<br>08-Jul-09 14:27<br>10-Jul-09 13:25<br>13-Jul-09 13:25<br>13-Jul-09 11:15   | Fine Sunny Sunny Sunny Sunny Sunny Sunny Sunny Cloudy Fine Sunny   | 1   28   2  | 8.50 28.50<br>   | 28.50<br>28.10<br>27.00<br>26.75<br>25.75<br>26.20<br>26.00<br>28.70<br>27.05<br>  | 7.28 7.24<br>  | 7.26   | - /-<br>3.65 / 3.51 | 6.43 6.42<br>   | 6.43<br>-<br>7.41<br>7.63<br>7.61<br>7.32<br>7.26<br>7.33<br>7.01<br>7.23<br>7.62<br>-<br>5.55<br>5.50<br>7.00<br>-<br>7.22<br>7.66<br>7.66<br>7.66<br>7.66<br>7.66<br>7.66  | 2.47         2.52         2.50           4.91         4.93         4.93           -         -         -           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29           2.70         2.68         2.69           2.18         2.17         2.18           2.85         2.88         2.87           2.21         2.20         2.21           41.20         41.70         41.45           -         -         -           3.24         3.21         3.23           2.51         2.60         2.56           3.45         3.47         3.46           -         -         -           3.41         3.40         3.41           3.22         3.25         3.24           3.02         3.06         3.04           2.29         2.27         2.28   | 3.09 / 4.18  | 6.2<br>- 2.3<br>2.6<br>2.9<br>2.2<br>2.6<br>2.4<br>3.9<br>2.0<br>59.8<br>- 2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0   | 6.1<br>- 2.0<br>2.6<br>3.0<br>2.2<br>2.3<br>2.6<br>42<br>2.0<br>57.9<br>- 2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0  | 6.2<br>2.2<br>2.6<br>3.0<br>2.2<br>2.5<br>2.5<br>2.5<br>2.0<br>58.9<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0 | -/-                               | Nil Monitoring was cancelled due to thunderstorm warning. Excavation by backhoe  Nil Nil Nil Nil Sreaking by backhoe, excavation work Nil Monitoring was cancelled due to thunderstorm warning.  Nil Nil Nil Nil Nil Nil Nil Nil Nil Ni  | Nii       |
| I-2-C                              | 02-Jul-09 10:08<br>04-Jul-09 -<br>06-Jul-09 09:15<br>08-Jul-09 10:30<br>13-Jul-09 10:30<br>13-Jul-09 10:30<br>17-Jul-09 09:50<br>20-Jul-09 10:35<br>22-Jul-09 11:23<br>24-Jul-09 09:05<br>27-Jul-09 -<br>29-Jul-09 10:45<br>02-Jul-09 11:17<br>04-Jul-09 -<br>06-Jul-09 14:27<br>10-Jul-09 14:27<br>10-Jul-09 13:25<br>08-Jul-09 14:27<br>10-Jul-09 13:25<br>13-Jul-09 13:25<br>13-Jul-09 11:15   | Fine Sunny Fine Sunny  | 1   28   1   26   26   | 8.50 28.50<br>- 28.10<br>7.00 27.00<br>6.80 26.70<br>6.80 26.70<br>6.20 26.20<br>6.00 26.00<br>8.70 28.70<br>7.700 27.10<br>- 3.10 28.10<br>7.30 27.30<br>8.40 28.30<br>- 3.60 26.60<br>6.60 26.60<br>6.60 26.60<br>6.60 26.60<br>6.60 26.60<br>6.60 26.60<br>6.60 26.60<br>6.60 26.60 | 28.50<br>  | 7.28 7.24<br>  | 7.26   |                     | 6.43 6.42   | 6.43<br>- 7.41<br>7.63<br>7.61<br>7.32<br>7.26<br>7.33<br>7.01<br>7.22<br>- 5.55<br>5.50<br>7.00<br>- 7.22<br>7.66<br>7.66<br>7.66<br>7.66<br>7.54<br>7.54   | 2.47         2.52         2.50           4.91         4.93         4.93           -         -         -           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29           2.70         2.68         2.69           2.18         2.17         2.18           2.85         2.88         2.87           2.21         2.20         2.21           2.21         2.20         2.21           3.24         3.21         3.23           2.51         2.60         2.56           3.45         3.47         3.46           -         -         -           3.41         3.40         3.41           3.22         3.25         3.24           3.02         3.06         3.04           2.29         2.27         2.28  | 3.99 / 4.18  | 6.2<br>- 2.3<br>2.6<br>2.9<br>2.2<br>2.6<br>2.4<br>3.9<br>2.0<br>59.8<br>- 2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0   | 6.1<br>- 2.0<br>2.6<br>3.0<br>2.2<br>2.3<br>2.6<br>42<br>2.0<br>57.9<br>- 2.0<br>2.0<br>2.0<br>2.4<br>3.9<br>2.5<br>2.0<br>2.0  | 6.2<br>2.2<br>2.6<br>3.0<br>2.2<br>2.5<br>2.5<br>3.9<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.4<br>4.1<br>2.0                       | -/-                               | Nil Monitoring was cancelled due to thunderstorm warning. Excavation by backhoe  Nil Nil Nil Nil Sreaking by backhoe, excavation work Nil Monitoring was cancelled due to thunderstorm warning.  Nil Nil Nil Nil Nil Nil Nil Nil Nil Ni  | Nii       |
| I-2-C                              | 02-Jul-09 10:08<br>04-Jul-09 -<br>06-Jul-09 09:15<br>08-Jul-09 10:30<br>13-Jul-09 10:30<br>13-Jul-09 10:30<br>17-Jul-09 09:50<br>20-Jul-09 10:35<br>22-Jul-09 11:23<br>24-Jul-09 09:05<br>27-Jul-09 -<br>29-Jul-09 10:45<br>02-Jul-09 11:17<br>04-Jul-09 14:27<br>10-Jul-09 14:27<br>10-Jul-09 13:55<br>08-Jul-09 14:27<br>10-Jul-09 13:25<br>13-Jul-09 14:50<br>13-Jul-09 11:17<br>15-Jul-09 13:55<br>17-Jul-09 13:25<br>13-Jul-09 11:15<br>15-Jul-09 10:35<br>20-Jul-09 11:17<br>22-Jul-09 10:35  | Fine Sunny Sunny Sunny Sunny Sunny Sunny Sunny Cloudy Sunny Fine Sunny   | 1   28   1   26   26   | 8.50 28.50   | 28.50<br>28.10<br>27.00<br>26.75<br>25.75<br>26.20<br>26.00<br>28.70<br>27.05<br>27.05<br>28.10<br>28.35<br>27.00<br>26.60<br>28.55<br>27.00<br>26.60<br>28.55<br>27.00<br>26.60<br>27.00<br>26.70<br>27.00<br>28.35<br>27.00<br>27.00<br>28.35<br>27.00<br>27.00<br>28.35<br>27.00<br>28.35<br>27.00<br>28.35<br>27.00<br>28.35<br>27.00<br>28.35<br>27.00<br>28.35<br>27.00<br>28.35<br>27.00<br>28.35<br>27.00<br>28.35<br>27.00<br>28.35<br>27.00<br>28.35<br>27.00<br>28.35<br>27.00<br>28.35<br>27.00<br>28.35<br>28.35<br>27.00<br>28.35<br>28.35<br>27.00<br>28.35<br>28.35<br>27.00<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28 | 7.28 7.24<br>  | 7.26   |                     | 6.43 6.42   | 6.43<br>- 7.41<br>7.63<br>7.61<br>7.26<br>7.26<br>7.33<br>7.01<br>7.22<br>7.62<br>- 5.55<br>5.50<br>7.00<br>- 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| 2.47         2.52         2.50           4.91         4.95         4.93           -         -         -           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29           2.70         2.68         2.69           2.18         2.17         2.18           2.85         2.88         2.57           2.21         41.70         41.45           -         -         -           3.24         3.21         3.23           2.51         2.60         2.56           3.45         3.47         3.46           3.22         3.25         3.24           3.02         3.06         3.04           2.29         2.27         2.28           3.12         3.12         3.12           3.83         3.16         3.17           3.98         4.02         4.00           2.31         2.23         2.35           2.31         2.35         2.35   | 3.99 / 4.18  | 6.2<br>- 2.3<br>2.6<br>2.9<br>2.2<br>2.6<br>2.4<br>3.9<br>2.0<br>59.8<br>- 2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0   | 6.1<br>- 2.0<br>2.6<br>3.0<br>2.2<br>2.3<br>2.6<br>42<br>2.0<br>57.9<br>- 2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0  | 6.2<br>2.2<br>2.6<br>3.0<br>2.2<br>2.5<br>2.5<br>2.5<br>3.9<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0                       | - /-<br>6.13 / 7.23               | Nil Monitoring was cancelled due to thunderstorm warning. Excavation by backhoe  Nil Nil Nil Nil Sreaking by backhoe, excavation work Nil Monitoring was cancelled due to thunderstorm warning.  Nil Nil Nil Nil Nil Nil Nil Nil Nil Ni  | Nii       |
| I-2-C                              | 02-Jul-09 10:08 04-Jul-09 - 06-Jul-09 09:15 08-Jul-09 10:30 13-Jul-09 10:30 13-Jul-09 10:35 15-Jul-09 13:50 17-Jul-09 09:50 20-Jul-09 11:23 22-Jul-09 11:23 24-Jul-09 10:35 22-Jul-09 11:23 31-Jul-09 13:50 02-Jul-09 13:50 02-Jul-09 14:27 10-Jul-09 13:25 08-Jul-09 14:27 10-Jul-09 13:25 13-Jul-09 13:25 13-Jul-09 11:15 15-Jul-09 14:50 17-Jul-09 14:50 17-Jul-09 10:35 20-Jul-09 11:17 22-Jul-09 13:18 24-Jul-09 13:18   | Fine Sunny Sunny Sunny Sunny Sunny Sunny Sunny Cloudy Sunny Fine Sunny   | 1   28   1   26   26   | 8.50 28.50   | 28.50<br>28.10<br>27.00<br>26.75<br>25.75<br>26.20<br>26.00<br>28.70<br>27.05<br>27.05<br>28.10<br>28.35<br>27.00<br>26.60<br>28.55<br>27.00<br>26.60<br>28.55<br>27.00<br>26.60<br>27.00<br>26.70<br>27.00<br>28.35<br>27.00<br>27.00<br>28.35<br>27.00<br>27.00<br>28.35<br>27.00<br>28.35<br>27.00<br>28.35<br>27.00<br>28.35<br>27.00<br>28.35<br>27.00<br>28.35<br>27.00<br>28.35<br>27.00<br>28.35<br>27.00<br>28.35<br>27.00<br>28.35<br>27.00<br>28.35<br>27.00<br>28.35<br>27.00<br>28.35<br>27.00<br>28.35<br>28.35<br>27.00<br>28.35<br>28.35<br>27.00<br>28.35<br>28.35<br>27.00<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28 | 7.28 7.24<br>  | 7.26   |                     | 6.43 6.42   | 6.43<br>- 7.41<br>7.63<br>7.61<br>7.26<br>7.26<br>7.33<br>7.01<br>7.22<br>7.62<br>- 5.55<br>5.50<br>7.00<br>- 7.22<br>7.66<br>7.66<br>7.66<br>7.66<br>7.66<br>7.66<br>7.75<br>7.66<br>7.66<br>7.75<br>7.66<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75<br>7.75 | 2.47         2.52         2.50           4.91         4.93         4.93           -         -         -           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29           2.70         2.68         2.69           2.18         2.17         2.18           2.85         2.88         2.87           2.21         2.20         2.21           41.70         41.46         -           -         -         -           3.24         3.21         3.23           2.51         2.60         2.56           3.45         3.47         3.46           -         -         -           3.11         3.40         3.41           3.22         3.25         3.24           3.02         3.06         3.04           2.29         2.27         2.28           3.18         3.16         3.17           3.98         4.02         4.00   | 3.99 / 4.18  | 6.2<br>- 2.3<br>2.6<br>2.9<br>2.2<br>2.6<br>2.4<br>3.9<br>2.0<br>59.8<br>- 2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0   | 6.1<br>- 2.0<br>2.6<br>3.0<br>2.2<br>2.3<br>2.6<br>42<br>2.0<br>57.9<br>- 2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0  | 6.2<br>2.2<br>2.6<br>3.0<br>2.2<br>2.5<br>2.5<br>2.0<br>58.9<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0                      | -/-<br>6.13 / 7.23                | Nil Monitoring was cancelled due to thunderstorm warning. Excavation by backhoe  Vil Vil Vil Vil Vil Vil Vil Vil Vil Monitoring was cancelled due to thunderstorm warning.  Vil Vil Vil Vil Vil Vil Vil Vil Vil Vi   | Nii       |
| I-2-C                              | 02-Jul-09 10:08 04-Jul-09 - 06-Jul-09 09:15 08-Jul-09 10:30 13-Jul-09 10:35 15-Jul-09 13:50 17-Jul-09 10:35 22-Jul-09 11:23 24-Jul-09 10:35 22-Jul-09 11:23 24-Jul-09 10:45 31-Jul-09 10:45 31-Jul-09 14:27 08-Jul-09 14:25 13-Jul-09 13:25 20-Jul-09 11:17 22-Jul-09 13:18 24-Jul-09 10:15 27-Jul-09 10:15 27-Jul-09 10:15   | Fine Sunny Fine Sunny  | 1   28   1   26   1   27   27   | 8.50 28.50   | 28.50<br>28.10<br>27.00<br>26.75<br>25.75<br>26.20<br>26.00<br>28.70<br>27.05<br>27.05<br>28.10<br>27.30<br>28.35<br>27.00<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.05<br>28.55<br>27.00<br>28.55<br>27.05<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.05<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.05<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.05<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.00<br>28.55<br>27.00<br>27.55<br>27.00<br>27.55<br>27.00<br>27.55<br>27.00<br>27.55<br>27.00<br>27.55  | 7.28 7.24<br>  | 7.26   |                     | 6.43 6.42   | 6.43<br>- 7.41<br>7.63<br>7.61<br>7.32<br>7.26<br>7.33<br>7.01<br>7.23<br>7.62<br>- 7.23<br>7.62<br>- 7.20<br>7.00<br>- 7.22<br>7.66<br>7.54<br>7.64<br>7.30<br>7.18<br>7.16<br>7.58   | 2.47         2.52         2.50           4.91         4.93         4.93           -         -         -           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29           2.70         2.68         2.69           2.18         2.17         2.18           2.85         2.88         2.87           2.21         2.20         2.21           41.20         41.70         41.45           -         -         -           3.24         3.21         3.23           2.51         2.60         2.56           3.41         3.40         3.41           3.22         3.25         3.24           3.02         3.06         3.04           2.29         2.27         2.28           3.18         3.16         3.17           3.18         3.16         3.17           3.98         4.02         4.00           2.31         2.35         2.33           2.08         2.10         2.09   | 3.99 / 4.18  | 6.2<br>- 2.3<br>2.6<br>2.9<br>2.2<br>2.6<br>2.4<br>3.9<br>2.0<br>59.8<br>- 2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0   | 6.1<br>- 2.0<br>2.6<br>3.0<br>2.2<br>2.3<br>2.6<br>42<br>2.0<br>57.9<br>- 2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0  | 6.2<br>2.2<br>2.6<br>3.0<br>2.2<br>2.5<br>2.5<br>3.9<br>2.0<br>58.9<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0               | -/-<br>6.13 / 7.23                | Nil Monitoring was cancelled due to thunderstorm warning. Excavation by backhoe  Nil Nil Nil Nil Nil Preaking by backhoe, excavation work Nil Monitoring was cancelled due to thunderstorm warning. Nil  | Nii       |
| I-2-C                              | 02-Jul-09 10:08 04-Jul-09 - 06-Jul-09 09:15 08-Jul-09 10:30 13-Jul-09 10:35 15-Jul-09 13:50 17-Jul-09 10:35 22-Jul-09 11:23 24-Jul-09 09:05 27-Jul-09 10:35 31-Jul-09 11:23 24-Jul-09 10:45 31-Jul-09 11:25 08-Jul-09 14:27 10-Jul-09 14:27 10-Jul-09 14:25 13-Jul-09 14:50 17-Jul-09 11:5 15-Jul-09 11:5 20-Jul-09 11:17 22-Jul-09 13:18 24-Jul-09 10:35 20-Jul-09 11:17 22-Jul-09 13:18 24-Jul-09 10:15 27-Jul-09 10:15 22-Jul-09 10:15 22-Jul-09 10:15   | Fine Sunny Sunny Sunny Sunny Sunny Sunny Sunny Cloudy Sunny Fine Sunny Fine Sunny  | 1   28   1   27   1   28   2  | 8.50 28.50   | 28.50<br>28.10<br>27.00<br>26.75<br>25.75<br>26.20<br>26.00<br>28.70<br>27.05<br>27.05<br>28.35<br>27.00<br>26.60<br>28.35<br>27.00<br>26.60<br>27.30<br>28.35<br>27.00<br>26.80<br>26.90<br>27.30<br>28.35<br>27.00<br>26.80<br>26.90<br>27.90<br>28.10<br>27.90<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28.80<br>28 | 7.28 7.24<br>  | 7.26   |                     | 6.43 6.42   | 6.43<br>- 7.41<br>7.63<br>7.61<br>7.32<br>7.26<br>7.33<br>7.01<br>7.22<br>7.62<br>- 5.55<br>5.50<br>7.00<br>- 7.22<br>7.66<br>7.66<br>7.66<br>7.70<br>7.22<br>7.66<br>7.66<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70 | 2.47         2.52         2.50           4.91         4.93         4.93           -         -         -           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29           2.70         2.68         2.69           2.18         2.17         2.18           2.85         2.88         2.87           2.21         2.20         2.21           41.20         41.70         41.45           -         -         -           3.24         3.21         3.23           2.51         2.60         2.56           3.45         3.47         3.46           -         -         -           3.41         3.40         3.41           3.22         3.25         3.24           3.02         3.06         3.04           2.29         2.27         2.28           3.31         2.27         2.29           3.38         3.02         3.6           3.98         4.02         4.00           2.98 <td>3.99 / 4.18</td> <td>6.2</td> <td>6.1<br/>- 2.0<br/>2.6<br/>3.0<br/>2.2<br/>2.3<br/>2.6<br/>42<br/>2.0<br/>57.9<br/>- 2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0</td> <td>6.2<br/>2.2<br/>2.6<br/>3.0<br/>2.2<br/>2.5<br/>2.5<br/>2.5<br/>3.9<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0</td> <td>6.13 / 7.23</td> <td>Wil Wonitoring was cancelled due to thunderstorm warning.  Excavation by backhoe  Wil Wil Wil Wil Wil Wil Wil Wil Wonitoring was cancelled due to thunderstorm warning.  Wil Wonitoring was cancelled due to thunderstorm warning.  Wil Wil Wonitoring was cancelled due to thunderstorm warning.  Wil Wil Wil Wil Wil Wil Wil Wil Wil Wil</td> <td>Nii Nii Nii Nii Nii Nii Nii Nii Nii Nii</td>                    | 3.99 / 4.18  | 6.2   | 6.1<br>- 2.0<br>2.6<br>3.0<br>2.2<br>2.3<br>2.6<br>42<br>2.0<br>57.9<br>- 2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0  | 6.2<br>2.2<br>2.6<br>3.0<br>2.2<br>2.5<br>2.5<br>2.5<br>3.9<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0                       | 6.13 / 7.23                       | Wil Wonitoring was cancelled due to thunderstorm warning.  Excavation by backhoe  Wil Wil Wil Wil Wil Wil Wil Wil Wonitoring was cancelled due to thunderstorm warning.  Wil Wonitoring was cancelled due to thunderstorm warning.  Wil Wil Wonitoring was cancelled due to thunderstorm warning.  Wil   | Nii       |
| Squatters                          | 02-Jul-09 10:08 04-Jul-09 - 06-Jul-09 09:15 08-Jul-09 10:30 13-Jul-09 10:30 13-Jul-09 10:35 15-Jul-09 13:50 17-Jul-09 09:50 20-Jul-09 11:23 24-Jul-09 10:35 22-Jul-09 11:23 24-Jul-09 10:35 31-Jul-09 13:50 02-Jul-09 13:50 02-Jul-09 11:17 04-Jul-09 13:25 08-Jul-09 14:27 10-Jul-09 13:25 13-Jul-09 14:27 10-Jul-09 13:25 13-Jul-09 11:17 22-Jul-09 14:50 17-Jul-09 10:35 20-Jul-09 11:17 22-Jul-09 13:18 24-Jul-09 10:15 27-Jul-09 13:20 31-Jul-09 10:15 27-Jul-09 10:15 27-Jul-09 10:15 27-Jul-09 10:15 31-Jul-09 10:15   | Fine Sunny   | 1   28   28  | 8.50 28.50   | 28.50<br>28.10<br>27.00<br>26.75<br>25.75<br>26.20<br>26.00<br>28.70<br>27.05<br>  | 7.28 7.24<br>  | 7.26   |                     | 6.43 6.42   | 6.43<br>- 7.41<br>7.63<br>7.61<br>7.26<br>7.26<br>7.33<br>7.01<br>7.23<br>7.62<br>- 5.55<br>5.50<br>7.00<br>- 7.22<br>7.66<br>7.66<br>7.66<br>7.66<br>7.58<br>- 7.58<br>- 7.58   | 2.47         2.52         2.50           4.91         4.93         4.93           -         -         -           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29           2.70         2.68         2.67           2.18         2.17         2.18           2.85         2.88         2.87           2.21         2.20         2.21           41.20         41.70         41.45           -         -         -           3.24         3.21         3.23           2.51         2.60         2.56           3.45         3.47         3.46           3.22         3.25         3.24           3.02         3.06         3.04           2.29         2.27         2.28           2.31         2.27         2.29           3.18         3.16         3.17           3.98         4.02         4.00           2.31         2.27         2.29           3.31         2.35         2.33 <t< td=""><td>3.99 / 4.18</td><td>6.2</td><td>6.1<br/>- 2.0<br/>2.6<br/>3.0<br/>2.2<br/>2.3<br/>2.6<br/>42<br/>2.0<br/>57.9<br/>- 2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0</td><td>6.2<br/>2.2<br/>2.6<br/>3.0<br/>2.2<br/>2.5<br/>2.5<br/>2.5<br/>3.9<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0</td><td>6.13 / 7.23</td><td>Nil Monitoring was cancelled due to thunderstorm warning. Excavation by backhoe  Vil Vil Vil Vil Vil Vil Vil Vil Vil Monitoring was cancelled due to thunderstorm warning.  Vil Vil Vil Vil Vil Vil Vil Vil Vil Vi</td><td>Nii Nii Nii Nii Nii Nii Nii Nii Nii Nii</td></t<>  | 3.99 / 4.18  | 6.2   | 6.1<br>- 2.0<br>2.6<br>3.0<br>2.2<br>2.3<br>2.6<br>42<br>2.0<br>57.9<br>- 2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0  | 6.2<br>2.2<br>2.6<br>3.0<br>2.2<br>2.5<br>2.5<br>2.5<br>3.9<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0                       | 6.13 / 7.23                       | Nil Monitoring was cancelled due to thunderstorm warning. Excavation by backhoe  Vil Vil Vil Vil Vil Vil Vil Vil Vil Monitoring was cancelled due to thunderstorm warning.  Vil Vil Vil Vil Vil Vil Vil Vil Vil Vi   | Nii       |
| Squatters I-3                      | 02-Jul-09 10:08 04-Jul-09 - 06-Jul-09 09:15 08-Jul-09 10:30 13-Jul-09 10:30 13-Jul-09 13:50 17-Jul-09 09:50 20-Jul-09 11:23 24-Jul-09 13:50 22-Jul-09 11:23 24-Jul-09 13:50 02-Jul-09 13:50 02-Jul-09 11:17 04-Jul-09 - 06-Jul-09 14:25 08-Jul-09 14:25 13-Jul-09 13:50 02-Jul-09 11:15 15-Jul-09 13:50 02-Jul-09 11:15 15-Jul-09 13:25 20-Jul-09 11:15 22-Jul-09 13:25 20-Jul-09 11:15 22-Jul-09 10:35 20-Jul-09 10:35 20-Jul-09 10:35 21-Jul-09 10:35   | Fine Sunny   | 1   28   1   26   26   | 8.50 28.50   | 28.50<br>28.10<br>27.00<br>26.75<br>26.75<br>26.75<br>26.20<br>26.00<br>28.70<br>28.10<br>27.30<br>28.35<br>28.35<br>27.00<br>26.60<br>25.80<br>26.60<br>25.80<br>26.05<br>27.00<br>27.30<br>28.35<br>27.00<br>27.30<br>28.35<br>28.35<br>27.00<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28 | 7.28 7.24<br>  | 7.26   |                     | 6.43 6.42<br>   | 6.43   | 2.47         2.52         2.50           4.91         4.93         4.93           -         -         -           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29           2.70         2.68         2.69           2.18         2.17         2.18           2.85         2.88         2.87           2.21         2.20         2.21           41.70         41.45         -           -         -         -           3.24         3.21         3.23           3.45         3.47         3.46           -         -         -           3.41         3.40         3.41           3.22         3.25         3.24           3.02         3.06         3.04           2.29         2.27         2.28           2.31         2.27         2.29           3.18         3.16         3.17           3.98         4.02         4.00           2.98         2.93         2.96           2.18   | 3.99 / 4.18  | 6.2<br>-3<br>2.3<br>2.6<br>2.9<br>2.2<br>2.6<br>2.4<br>3.9<br>2.0<br>59.8<br>-2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0  | 6.1  - 2.0  2.6  3.0  2.6  3.0  2.6  4.2  2.0  57.9  2.0  2.0  2.0  2.0  2.8  2.4  3.9  2.5  2.0  2.6  2.0  2.0  2.0  2.0  2.0  2.0   | 6.2<br>2.2<br>2.6<br>3.0<br>2.2<br>2.5<br>2.5<br>3.9<br>2.0<br>58.9<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0               | -/-<br>6.13 / 7.23                | Nil  Monitoring was cancelled due to thunderstorm warning.  Excavation by backhoe  Nil  Nil  Nil  Breaking by backhoe, excavation work  Nil  Monitoring was cancelled due to thunderstorm warning.  Excavation by backhoe  Nil  Nil  Nil  Excavation by backhoe  Nil  Monitoring was cancelled due to thunderstorm warning.  | Nii       |
| Squatters<br>I-3                   | 02-Jul-09 10:08 04-Jul-09 - 06-Jul-09 09:15 08-Jul-09 10:30 13-Jul-09 10:35 15-Jul-09 13:50 17-Jul-09 10:35 22-Jul-09 11:23 24-Jul-09 - 29-Jul-09 10:45 31-Jul-09 10:45 31-Jul-09 11:23 08-Jul-09 14:27 08-Jul-09 14:27 10-Jul-09 14:25 08-Jul-09 14:50 17-Jul-09 14:50 17-Jul-09 15:51 22-Jul-09 13:55 02-Jul-09 13:55 02-Jul-09 14:27 10-Jul-09 14:50 17-Jul-09 13:51 22-Jul-09 13:18 24-Jul-09 10:15 27-Jul-09 10:15 27-Jul-09 10:15 27-Jul-09 13:20 02-Jul-09 11:05 31-Jul-09 13:20 02-Jul-09 11:05 31-Jul-09 13:20 02-Jul-09 11:05   | Fine Sunny   | 1   28   1   27   1   28   28  | 8.50 28.50   | 28.50<br>28.10<br>27.00<br>26.75<br>25.75<br>26.20<br>26.00<br>28.70<br>27.05<br>27.05<br>28.35<br>27.00<br>26.50<br>28.35<br>27.00<br>26.80<br>26.90<br>25.90<br>26.90<br>26.90<br>28.35  | 7.28 7.24  | 7.26   |                     | 6.43 6.42   | 6.43   | 2.47         2.52         2.50           4.91         4.93         4.93           -         -         -           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29           2.70         2.68         2.69           2.18         2.17         2.18           2.85         2.88         2.87           2.21         2.20         2.21           41.70         41.45         -           -         -         -           3.24         3.21         3.23           2.51         2.60         2.56           3.45         3.47         3.46           -         -         -           3.02         3.06         3.04           2.29         2.27         2.28           2.31         2.27         2.29           3.18         3.16         3.17           3.98         4.02         4.00           2.31         2.35         2.33           2.08         2.93         2.96           2.18   | 3.99 / 4.18  | 6.2   | 6.1<br>- 2.0<br>2.6<br>3.0<br>2.2<br>2.3<br>2.6<br>42<br>2.0<br>57.9<br>- 2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0  | 6.2<br>2.2<br>2.6<br>3.0<br>2.2<br>2.5<br>2.5<br>2.5<br>3.9<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0                       | 6.13 / 7.23                       | Wil Wonitoring was cancelled due to thunderstorm warning.  Excavation by backhoe  Vil  | Nii       |
| Squatters I-3  Squatters           | 02-Jul-09 10:08 04-Jul-09 - 06-Jul-09 09:15 08-Jul-09 10:30 13-Jul-09 10:30 13-Jul-09 10:35 15-Jul-09 13:50 17-Jul-09 09:50 20-Jul-09 11:23 24-Jul-09 10:35 22-Jul-09 11:23 24-Jul-09 10:35 31-Jul-09 13:50 02-Jul-09 11:17 04-Jul-09 14:25 08-Jul-09 14:25 08-Jul-09 14:25 13-Jul-09 14:25 13-Jul-09 13:50 17-Jul-09 13:55 13-Jul-09 13:55 13-Jul-09 11:17 22-Jul-09 13:18 24-Jul-09 10:35 20-Jul-09 11:17 22-Jul-09 13:18 24-Jul-09 13:18 24-Jul-09 13:18 24-Jul-09 13:18 24-Jul-09 13:18 24-Jul-09 13:20 02-Jul-09 11:05 04-Jul-09 11:05 04-Jul-09 11:05 04-Jul-09 11:05 04-Jul-09 11:05 04-Jul-09 11:05   | Fine Sunny Fine Sunny              | 1   28   1   26   26   | 8.50 28.50   | 28.50<br>28.10<br>27.00<br>26.75<br>25.75<br>26.20<br>26.00<br>28.70<br>26.75<br>27.05<br>28.10<br>28.35<br>27.00<br>26.60<br>28.55<br>27.00<br>26.60<br>28.55<br>27.00<br>26.60<br>28.55<br>27.00<br>26.60<br>28.55<br>27.00<br>26.60<br>26.60<br>28.50<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>26.60<br>27.00<br>27.00<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28 | 7.28 7.24  | 7.26   |                     | 6.43 6.42   | 6.43   | 2.47         2.52         2.50           4.91         4.93         4.93           -         -         -           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29           2.70         2.68         2.69           2.18         2.17         2.18           2.85         2.88         2.87           2.21         2.20         2.21           41.20         41.70         41.45           -         -         -           3.24         3.21         3.23           2.51         2.60         2.56           3.45         3.47         3.46           -         -         -           3.41         3.40         3.41           3.22         3.25         3.24           3.02         3.06         3.04           2.29         2.27         2.28           2.31         2.27         2.29           3.18         3.16         3.17           3.98         4.02         4.00           2.98 <td>3.99 / 4.18</td> <td>6.2</td> <td>6.1 </td> <td>6.2<br/>2.2<br/>2.6<br/>3.0<br/>2.2<br/>2.5<br/>2.5<br/>3.9<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0</td> <td>6.13 / 7.23</td> <td>Nil  Monitoring was cancelled due to thunderstorm warning.  Excavation by backhoe  Nil  Nil  Nil  Breaking by backhoe, excavation work  Nil  Monitoring was cancelled due to thunderstorm warning.  Excavation by backhoe  Nil  Nil  Nil  Excavation by backhoe  Nil  Monitoring was cancelled due to thunderstorm warning.</td> <td>Nii Nii Nii Nii Nii Nii Nii Nii Nii Nii</td> | 3.99 / 4.18  | 6.2   | 6.1   | 6.2<br>2.2<br>2.6<br>3.0<br>2.2<br>2.5<br>2.5<br>3.9<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0                              | 6.13 / 7.23                       | Nil  Monitoring was cancelled due to thunderstorm warning.  Excavation by backhoe  Nil  Nil  Nil  Breaking by backhoe, excavation work  Nil  Monitoring was cancelled due to thunderstorm warning.  Excavation by backhoe  Nil  Nil  Nil  Excavation by backhoe  Nil  Monitoring was cancelled due to thunderstorm warning.  | Nii       |
| Squatters I-3  Squatters           | 02-Jul-09 10:08 04-Jul-09 - 06-Jul-09 09:15 08-Jul-09 10:30 13-Jul-09 10:30 13-Jul-09 13:50 17-Jul-09 09:50 20-Jul-09 11:23 24-Jul-09 13:50 22-Jul-09 11:23 24-Jul-09 13:50 02-Jul-09 10:35 31-Jul-09 13:50 02-Jul-09 11:17 04-Jul-09 14:25 08-Jul-09 14:25 13-Jul-09 13:50 02-Jul-09 11:15 15-Jul-09 13:25 13-Jul-09 13:50 20-Jul-09 11:15 15-Jul-09 13:25 20-Jul-09 10:35 20-Jul-09 11:15 22-Jul-09 10:35 20-Jul-09 10:35 20-Jul-09 10:35 21-Jul-09 10:35 | Fine Sunny Fine Sunny Fine Sunny   | 1   28   1   26   26   | 8.50 28.50   | 28.50<br>28.10<br>27.00<br>26.75<br>26.20<br>26.00<br>28.70<br>28.70<br>28.70<br>28.70<br>28.30<br>28.35<br>27.00<br>25.80<br>26.05<br>25.80<br>26.05<br>25.80<br>26.05<br>27.00<br>28.35<br>28.40<br>27.30<br>28.35<br>28.40<br>27.30<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28 | 7.28 7.24<br>  | 7.26   |                     | 6.43 6.42   | 6.43   | 2.47         2.52         2.50           4.91         4.93         4.93           -         -         -           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29           2.70         2.68         2.69           2.18         2.17         2.18           2.85         2.88         2.87           2.21         2.20         2.21           41.70         41.45         -           -         -         -           3.24         3.21         3.23           2.51         2.60         2.56           3.45         3.47         3.46           -         -         -           3.41         3.40         3.41           3.22         3.25         3.24           3.02         3.06         3.04           2.29         2.27         2.28           2.31         2.27         2.28           2.31         2.35         2.33           2.08         2.90         2.9           2.98  | 3.99 / 4.18  | 6.2   | 6.1  - 2.0  2.6  3.0  2.2  2.3  2.6  42  2.0  57.9  2.0  2.0  2.0  2.0  2.0  2.0  2.0  2  | 6.2<br>2.2<br>2.6<br>3.0<br>2.2<br>2.5<br>2.5<br>3.9<br>2.0<br>58.9<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0               | 6.13 / 7.23                       | Wil Wonitoring was cancelled due to thunderstorm warning.  Excavation by backhoe  Vil  | Nii       |
| Squatters I-3  Squatters           | 02-Jul-09 10:08 04-Jul-09 - 06-Jul-09 09:15 08-Jul-09 10:35 13-Jul-09 10:35 15-Jul-09 10:35 15-Jul-09 10:35 22-Jul-09 11:23 24-Jul-09 11:23 24-Jul-09 11:23 24-Jul-09 10:45 31-Jul-09 10:45 31-Jul-09 11:27 04-Jul-09 14:27 10-Jul-09 14:27 10-Jul-09 14:27 10-Jul-09 14:50 17-Jul-09 14:50 17-Jul-09 10:35 20-Jul-09 11:17 22-Jul-09 13:18 24-Jul-09 10:35 20-Jul-09 11:17 22-Jul-09 13:18 24-Jul-09 10:15 27-Jul-09 10:15 27-Jul-09 10:15 27-Jul-09 10:05 31-Jul-09 11:05 31-Jul-09 11:15 15-Jul-09 11:05 31-Jul-09 11:05 31-Jul-09 11:05 31-Jul-09 11:05   | Fine Sunny   | 1   28   1   26   26   | 8.50   | 28.50<br>28.10<br>27.00<br>26.75<br>25.75<br>26.20<br>26.00<br>28.70<br>27.05<br>27.05<br>28.35<br>27.00<br>28.35<br>27.00<br>26.60<br>26.60<br>26.90<br>28.40<br>27.00<br>27.30<br>28.35<br>28.35<br>27.00<br>26.80<br>26.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28.90<br>28 | 7.28 7.24  | 7.26   |                     | 6.43 6.42   | 6.43   | 2.47         2.52         2.50           4.91         4.93         4.93           -         -         -           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29           2.70         2.68         2.69           2.18         2.17         2.18           2.85         2.88         2.87           2.21         2.20         2.21           41.20         41.70         41.45           -         -         -           3.24         3.21         3.23           2.51         2.60         2.56           3.41         3.40         3.41           3.22         3.25         3.24           3.02         3.06         3.04           2.29         2.27         2.28           3.18         3.16         3.17           3.98         4.02         4.00           2.31         2.35         2.33           2.08         2.10         2.09           -         -         -           2.98 <td>3.99 / 4.18</td> <td>6.2</td> <td>6.1  - 2.0  2.6  3.0  2.2  2.3  2.6  42  2.0  57.9  - 2.0  2.0  2.0  2.0  2.0  2.0  2.0  2.0</td> <td>6.2<br/>2.2<br/>2.6<br/>3.0<br/>2.2<br/>2.5<br/>2.5<br/>2.5<br/>2.0<br/>58.9<br/>-<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0</td> <td>6.13 / 7.23</td> <td>Wil Wonitoring was cancelled due to thunderstorm warning.  Excavation by backhoe  Vil Vil Vil Vil Vil Vil Vil Vil Vil Vil</td> <td>Nii Nii Nii Nii Nii Nii Nii Nii Nii Nii</td>  | 3.99 / 4.18  | 6.2   | 6.1  - 2.0  2.6  3.0  2.2  2.3  2.6  42  2.0  57.9  - 2.0  2.0  2.0  2.0  2.0  2.0  2.0  2.0  | 6.2<br>2.2<br>2.6<br>3.0<br>2.2<br>2.5<br>2.5<br>2.5<br>2.0<br>58.9<br>-<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0          | 6.13 / 7.23                       | Wil Wonitoring was cancelled due to thunderstorm warning.  Excavation by backhoe  Vil  | Nii       |
| Squatters I-3  Squatters           | 02-Jul-09 10:08 04-Jul-09 - 06-Jul-09 09:15 08-Jul-09 10:30 13-Jul-09 10:30 13-Jul-09 10:30 17-Jul-09 10:30 17-Jul-09 10:30 22-Jul-09 11:23 24-Jul-09 10:35 22-Jul-09 11:23 24-Jul-09 10:45 31-Jul-09 11:41 06-Jul-09 14:27 10-Jul-09 14:27 10-Jul-09 13:25 08-Jul-09 14:27 10-Jul-09 13:25 13-Jul-09 13:25 13-Jul-09 13:25 13-Jul-09 13:25 20-Jul-09 13:25 31-Jul-09 13:25 31-Jul-09 13:35 20-Jul-09 13:35 20-Jul-09 13:35 20-Jul-09 13:35 20-Jul-09 13:35 24-Jul-09 13:35 24-Jul-09 13:35 24-Jul-09 13:35 24-Jul-09 13:35 24-Jul-09 13:35 24-Jul-09 13:35 25-Jul-09 13:35 26-Jul-09 13:35 26-Jul-09 13:35 27-Jul-09 13:35 31-Jul-09 11:05 31-Jul-09 13:30 02-Jul-09 14:10 08-Jul-09 14:15 10-Jul-09 14:15 10-Jul-09 14:15   | Fine Sunny   | <1  | 8.50 28.50   | 28.50<br>28.10<br>27.00<br>26.75<br>25.75<br>26.20<br>26.00<br>28.70<br>26.75<br>27.05<br>28.10<br>28.35<br>27.00<br>26.80<br>26.80<br>26.80<br>26.80<br>26.90<br>28.95<br>27.00<br>26.80<br>26.80<br>26.80<br>26.90<br>27.95<br>28.10<br>28.10<br>28.10<br>28.10<br>28.55<br>27.00<br>28.60<br>28.60<br>28.60<br>28.60<br>28.60<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.85<br>27.00<br>26.80<br>26.80<br>26.80<br>27.00<br>27.55<br>28.10<br>28.50<br>28.50<br>28.70<br>28.70<br>28.70<br>28.80<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28 | 7.28 7.24  | 7.26   | 3.65 / 3.51         | 6.43 6.42   | 6.43   | 2.47         2.52         2.50           4.91         4.93         4.93           -         -         -           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29           2.70         2.68         2.69           2.18         2.17         2.18           2.85         2.88         2.87           2.21         2.20         2.21           41.20         41.70         41.45           -         -         -           3.24         3.21         3.23           2.51         2.60         2.56           3.41         3.40         3.41           3.42         3.25         3.24           3.02         3.06         3.04           2.29         2.27         2.28           2.31         2.27         2.29           3.18         3.16         3.17           3.98         4.02         4.00           2.98         2.93         2.96           2.18         2.25         2.22 <t< td=""><td>3.99 / 4.18</td><td>6.2</td><td>6.1  - 2.0  2.6  3.0  2.2  2.3  2.6  42  2.0  57.9  - 2.0  2.0  2.0  2.0  2.0  2.0  2.0  2.0</td><td>6.2<br/>2.2<br/>2.6<br/>3.0<br/>2.2<br/>2.5<br/>2.5<br/>2.5<br/>3.9<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0</td><td>6.13 / 7.23</td><td>Wil Wonitoring was cancelled due to thunderstorm warning.  Excavation by backhoe  Vil Vil Vil Vil Vil Vil Vil Vil Vil Vil</td><td>Nii Nii Nii Nii Nii Nii Nii Nii Nii Nii</td></t<>  | 3.99 / 4.18  | 6.2   | 6.1  - 2.0  2.6  3.0  2.2  2.3  2.6  42  2.0  57.9  - 2.0  2.0  2.0  2.0  2.0  2.0  2.0  2.0  | 6.2<br>2.2<br>2.6<br>3.0<br>2.2<br>2.5<br>2.5<br>2.5<br>3.9<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0                       | 6.13 / 7.23                       | Wil Wonitoring was cancelled due to thunderstorm warning.  Excavation by backhoe  Vil  | Nii       |
| Squatters I-3  Squatters           | 02-Jul-09 10:08 04-Jul-09 - 06-Jul-09 09:15 08-Jul-09 10:30 13-Jul-09 10:30 13-Jul-09 13:50 17-Jul-09 09:50 20-Jul-09 11:23 24-Jul-09 13:50 22-Jul-09 13:50 22-Jul-09 13:50 23-Jul-09 13:50 02-Jul-09 13:50 02-Jul-09 14:25 08-Jul-09 14:25 08-Jul-09 14:25 13-Jul-09 13:50 02-Jul-09 11:17 04-Jul-09 13:25 13-Jul-09 13:50 02-Jul-09 13:50 02-Jul-09 13:50 03-Jul-09 13:50 04-Jul-09 13:50 03-Jul-09 13:50 13-Jul-09 13:50                 | Fine Sunny Fine Sunny Sunny Fine Sunny   | 1   28   1   26   26   | 8.50 28.50   | 28.50<br>28.10<br>27.00<br>26.75<br>26.20<br>26.00<br>26.75<br>27.05<br>28.10<br>27.30<br>28.35<br>27.00<br>28.35<br>27.00<br>26.05<br>25.80<br>26.05<br>25.80<br>26.05<br>25.80<br>26.05<br>27.00<br>28.40<br>27.30<br>28.35<br>28.40<br>27.30<br>28.35<br>28.40<br>27.30<br>28.40<br>28.40<br>28.40<br>28.40<br>28.40<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28 | 7.28 7.24  | 7.26   |                     | 6.43 6.42   | 6.43   | 2.47         2.52         2.50           4.91         4.93         4.93           -         -         -           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29           2.70         2.68         2.69           2.18         2.17         2.18           2.85         2.88         2.87           2.21         2.20         2.21           41.70         41.45         -           -         -         -           3.24         3.21         3.23           2.51         2.60         2.56           3.45         3.47         3.46           3.02         3.06         3.04           3.02         3.06         3.04           3.02         3.06         3.04           3.29         2.27 <t>2.28           2.31         2.27         2.29           2.08         2.10         2.09           2.08         2.10         2.09           2.18         2.25         2.22           3.8</t>  | 3.99 / 4.18  | 6.2   | 6.1  - 2.0  2.6  3.0  2.2  2.3  2.6  42  2.0  57.9  - 2.0  2.0  2.0  2.0  2.0  2.0  2.0  2.0  | 6.2<br>2.2<br>2.6<br>3.0<br>2.2<br>2.5<br>2.5<br>3.9<br>2.0<br>58.9<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0               | 6.13 / 7.23                       | Wil Wonitoring was cancelled due to thunderstorm warning.  Excavation by backhoe  Vil  | Nii       |
| Squatters I-3 Squatters            | 02-Jul-09 10:08 04-Jul-09 - 06-Jul-09 09:15 08-Jul-09 10:30 13-Jul-09 10:35 15-Jul-09 13:50 17-Jul-09 10:35 22-Jul-09 11:23 24-Jul-09 11:23 24-Jul-09 10:35 27-Jul-09 10:45 31-Jul-09 10:45 31-Jul-09 10:45 31-Jul-09 11:17 04-Jul-09 13:50 02-Jul-09 11:17 15-Jul-09 13:20 08-Jul-09 11:17 15-Jul-09 13:20 17-Jul-09 13:20 20-Jul-09 11:17 22-Jul-09 13:18 24-Jul-09 10:35 20-Jul-09 11:17 22-Jul-09 13:18 24-Jul-09 10:15 27-Jul-09 10:5 27-Jul-09 10:5 27-Jul-09 10:5 27-Jul-09 13:20 02-Jul-09 11:05 13-Jul-09 11:05  | Fine Sunny   | 1   28   1   27   1   28   2  | 8.50 28.50   | 28.50<br>28.10<br>27.00<br>26.75<br>25.75<br>26.20<br>26.00<br>28.70<br>27.30<br>28.35<br>27.00<br>28.35<br>27.00<br>26.65<br>25.80<br>26.05<br>25.80<br>26.05<br>25.80<br>26.05<br>25.80<br>26.05<br>27.00<br>27.30<br>28.35<br>27.00<br>28.35<br>27.00<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.30<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.30<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.30<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28.35<br>28 | 7.28 7.24  | 7.26   | 3.65 / 3.51         | 6.43 6.42   | 6.43   | 2.47         2.52         2.50           4.91         4.93         4.93           -         -         -           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29           2.70         2.68         2.69           2.18         2.17         2.18           2.85         2.88         2.87           2.21         2.20         2.21           41.20         41.70         41.45           -         -         -           3.24         3.21         3.23           3.45         3.47         3.46           -         -         -           3.41         3.40         3.41           3.22         3.25         3.24           3.02         3.06         3.04           2.29         2.27         2.28           3.18         3.16         3.17           3.18         3.16         3.7           3.98         2.93         2.96           2.18         2.25         2.22           3.17 <td>3.99 / 4.18</td> <td>6.2</td> <td>6.1  - 2.0  2.6  3.0  2.2  2.3  2.6  42  2.0  57.9  - 2.0  2.0  2.0  2.0  2.0  2.0  2.0  2.0</td> <td>6.2<br/>2.2<br/>2.6<br/>3.0<br/>2.2<br/>2.5<br/>2.5<br/>2.0<br/>58.9<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0</td> <td>6.13 / 7.23</td> <td>Wil Wonitoring was cancelled due to thunderstorm warning.  Excavation by backhoe  Vil Vil Vil Vil Vil Vil Vil Vil Vil Vil</td> <td>Nii Nii Nii Nii Nii Nii Nii Nii Nii Nii</td>   | 3.99 / 4.18  | 6.2   | 6.1  - 2.0  2.6  3.0  2.2  2.3  2.6  42  2.0  57.9  - 2.0  2.0  2.0  2.0  2.0  2.0  2.0  2.0  | 6.2<br>2.2<br>2.6<br>3.0<br>2.2<br>2.5<br>2.5<br>2.0<br>58.9<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0                      | 6.13 / 7.23                       | Wil Wonitoring was cancelled due to thunderstorm warning.  Excavation by backhoe  Vil  | Nii       |
| Squatters I-3 Squatters            | 02-Jul-09 10:08 04-Jul-09 - 06-Jul-09 10:30 13-Jul-09 10:35 15-Jul-09 13:50 17-Jul-09 10:35 22-Jul-09 11:23 24-Jul-09 10:35 27-Jul-09 - 29-Jul-09 10:45 31-Jul-09 10:45 31-Jul-09 11:23 08-Jul-09 14:27 08-Jul-09 14:27 10-Jul-09 14:27 10-Jul-09 13:50 02-Jul-09 14:25 08-Jul-09 14:27 10-Jul-09 13:50 17-Jul-09 11:15 15-Jul-09 11:15   | Fine Sunny   | <1  | 8.50 28.50   | 28.50<br>28.10<br>27.00<br>26.75<br>25.75<br>26.20<br>26.00<br>28.70<br>27.05<br>27.05<br>28.10<br>27.30<br>28.35<br>27.00<br>26.60<br>28.55<br>27.00<br>26.75<br>28.10<br>27.30<br>28.35<br>27.00<br>26.80<br>26.90<br>26.90<br>28.70<br>28.55<br>27.00<br>26.80<br>26.80<br>26.90<br>26.90<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28 | 7.28 7.24  | 7.26   | 3.65 / 3.51         | 6.43 6.42   | 6.43   | 2.47         2.52         2.50           4.91         4.95         4.93           -         -         -           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29           2.70         2.68         2.69           2.18         2.17         2.18           2.85         2.88         2.87           2.21         2.20         2.21           41.20         41.70         41.45           -         -         -           3.24         3.21         3.23           2.51         2.60         2.56           3.45         3.47         3.46           3.22         3.25         3.24           3.02         3.06         3.04           2.29         2.27         2.28           3.31         2.35         2.33           2.08         2.10         2.09           -         -         -           3.89         4.02         4.00           2.31         2.35         2.33           2.08 <td>3.99 / 4.18</td> <td>6.2</td> <td>6.1  - 2.0  2.6  3.0  2.2  2.3  2.6  42  2.0  57.9  - 2.0  2.0  2.0  2.0  2.0  2.0  2.0  2.0</td> <td>6.2 2.2 2.6 3.0 2.2 2.5 2.5 2.5 3.9 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0</td> <td>- /-<br/>6.13 / 7.23</td> <td>Will Will Will Will Will Will Will Will</td> <td>Nii Nii Nii Nii Nii Nii Nii Nii Nii Nii</td>  | 3.99 / 4.18  | 6.2   | 6.1  - 2.0  2.6  3.0  2.2  2.3  2.6  42  2.0  57.9  - 2.0  2.0  2.0  2.0  2.0  2.0  2.0  2.0  | 6.2 2.2 2.6 3.0 2.2 2.5 2.5 2.5 3.9 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0   | - /-<br>6.13 / 7.23               | Will Will Will Will Will Will Will Will  | Nii       |
| Squatters I-3                      | 02-Jul-09 10:08 04-Jul-09 - 06-Jul-09 09:15 08-Jul-09 10:30 13-Jul-09 10:30 13-Jul-09 13:50 15-Jul-09 11:35 15-Jul-09 11:35 22-Jul-09 11:23 24-Jul-09 13:50 22-Jul-09 13:50 02-Jul-09 13:50 02-Jul-09 13:50 02-Jul-09 14:25 08-Jul-09 14:25 08-Jul-09 14:25 13-Jul-09 13:50 02-Jul-09 11:17 04-Jul-09 13:25 13-Jul-09 13:50 17-Jul-09 13:25 13-Jul-09 13:25 13-Jul-09 13:25 20-Jul-09 11:15 27-Jul-09 10:35 20-Jul-09 10:35 27-Jul-09 10:35 27-Jul-09 10:35 27-Jul-09 10:35 08-Jul-09 11:17 22-Jul-09 13:18 24-Jul-09 13:10 08-Jul-09 11:05 04-Jul-09 14:15 15-Jul-09 13:10 13-Jul-09 13:10   | Fine Sunny Fine Sunny Sunny Fine Sunny   | 1   28  | 8.50 28.50   | 28.50<br>28.10<br>27.00<br>26.75<br>26.20<br>26.07<br>26.75<br>27.05<br>28.10<br>27.30<br>28.35<br>27.05<br>28.55<br>27.00<br>26.60<br>25.80<br>26.05<br>25.80<br>26.05<br>25.80<br>26.05<br>25.80<br>26.05<br>25.80<br>26.05<br>25.80<br>26.05<br>25.80<br>26.05<br>25.80<br>26.05<br>25.80<br>26.05<br>26.00<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28 | 7.28 7.24  | 7.26   | 3.65 / 3.51         | 6.43 6.42   | 6.43   | 2.47         2.52         2.50           4.91         4.93         4.93           -         -         -           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29           2.70         2.68         2.69           2.18         2.17         2.18           2.85         2.88         2.87           2.21         2.20         2.21           41.20         41.70         41.45           -         -         -           3.24         3.21         3.23           2.51         2.60         2.56           3.45         3.47         3.4           3.22         3.25         3.24           3.22         3.25         3.24           3.22         3.25         3.24           3.22         3.25         3.24           3.22         3.25         3.24           3.18         3.16         3.17           3.98         4.02         4.00           2.31         2.35         2.34 <td< td=""><td>3.99 / 4.18</td><td>6.2</td><td>6.1  - 2.0  2.6  3.0  2.6  3.0  2.2  2.3  2.6  4.2  2.0  57.9  - 2.0  2.0  2.0  2.0  2.0  2.0  2.0  2.0</td><td>6.2<br/>2.2<br/>2.6<br/>3.0<br/>2.2<br/>2.5<br/>2.5<br/>2.5<br/>3.9<br/>2.0<br/>58.9<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0<br/>2.0</td><td>- /-<br/>6.13 / 7.23</td><td>Wil Wonitoring was cancelled due to thunderstorm warning.  Excavation by backhoe  Vil Vil Vil Vil Vil Vil Vil Vil Vil Vil</td><td>Nii Nii Nii Nii Nii Nii Nii Nii Nii Nii</td></td<>  | 3.99 / 4.18  | 6.2   | 6.1  - 2.0  2.6  3.0  2.6  3.0  2.2  2.3  2.6  4.2  2.0  57.9  - 2.0  2.0  2.0  2.0  2.0  2.0  2.0  2.0   | 6.2<br>2.2<br>2.6<br>3.0<br>2.2<br>2.5<br>2.5<br>2.5<br>3.9<br>2.0<br>58.9<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0        | - /-<br>6.13 / 7.23               | Wil Wonitoring was cancelled due to thunderstorm warning.  Excavation by backhoe  Vil  | Nii       |
| Squatters I-3  Squatters           | 02-Jul-09 10:08 04-Jul-09 - 06-Jul-09 09:15 08-Jul-09 10:30 13-Jul-09 10:35 15-Jul-09 13:50 17-Jul-09 13:50 17-Jul-09 11:25 22-Jul-09 11:25 22-Jul-09 11:25 23-Jul-09 10:45 31-Jul-09 10:45 31-Jul-09 14:27 04-Jul-09 14:25 08-Jul-09 14:27 10-Jul-09 13:50 17-Jul-09 13:50 22-Jul-09 11:17 22-Jul-09 13:50 17-Jul-09 13:25 13-Jul-09 13:25 13-Jul-09 13:25 20-Jul-09 11:15 15-Jul-09 13:26 20-Jul-09 10:5 27-Jul-09 10:5 27-Jul-09 10:5 27-Jul-09 13:05 24-Jul-09 11:05 15-Jul-09 11:05  | Fine Sunny   | 1   28   1   26   1   26   1   26   1   26   1   27   1   27   1   27   1   27   1   27   27  | 8.50   | 28.50<br>28.10<br>27.00<br>26.75<br>26.20<br>26.07<br>26.75<br>27.05<br>28.10<br>27.30<br>28.35<br>27.05<br>28.55<br>27.00<br>26.60<br>25.80<br>26.05<br>25.80<br>26.05<br>25.80<br>26.05<br>25.80<br>26.05<br>25.80<br>26.05<br>25.80<br>26.05<br>25.80<br>26.05<br>25.80<br>26.05<br>25.80<br>26.05<br>26.00<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28 | 7.28 7.24  | 7.26   | 3.65 / 3.51         | 6.43 6.42   | 6.43   | 2.47         2.52         2.50           4.91         4.95         4.93           -         -         -           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29           2.70         2.68         2.69           2.18         2.17         2.18           2.85         2.88         2.87           2.21         2.20         2.21           41.20         41.70         41.45           -         -         -           3.24         3.21         3.23           2.51         2.60         2.56           3.45         3.47         3.46           3.22         3.25         3.24           3.02         3.06         3.04           2.29         2.27         2.28           3.31         2.35         2.33           2.08         2.10         2.09           -         -         -           3.89         4.02         4.00           2.31         2.35         2.33           2.08 <td>3.99 / 4.18</td> <td>6.2</td> <td>6.1  - 2.0  2.6  3.0  2.2  2.3  2.6  42  2.0  57.9  - 2.0  2.0  2.0  2.0  2.0  2.0  2.0  2.0</td> <td>6.2 2.2 2.6 3.0 2.2 2.5 2.5 2.5 3.9 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0</td> <td>-/-<br/>6.13 / 7.23</td> <td>Will Will Will Will Will Will Will Will</td> <td>Nii Nii Nii Nii Nii Nii Nii Nii Nii Nii</td>   | 3.99 / 4.18  | 6.2   | 6.1  - 2.0  2.6  3.0  2.2  2.3  2.6  42  2.0  57.9  - 2.0  2.0  2.0  2.0  2.0  2.0  2.0  2.0  | 6.2 2.2 2.6 3.0 2.2 2.5 2.5 2.5 3.9 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0   | -/-<br>6.13 / 7.23                | Will Will Will Will Will Will Will Will  | Nii       |
| Squatters I-3 Squatters            | 02-Jul-09 10:08 04-Jul-09 - 06-Jul-09 10:30 13-Jul-09 10:35 15-Jul-09 13:50 17-Jul-09 11:25 22-Jul-09 11:23 24-Jul-09 10:35 27-Jul-09 - 29-Jul-09 10:45 31-Jul-09 10:45 31-Jul-09 11:23 08-Jul-09 14:27 08-Jul-09 14:27 10-Jul-09 14:25 08-Jul-09 14:25 13-Jul-09 14:25 13-Jul-09 13:50 22-Jul-09 13:50 22-Jul-09 14:25 08-Jul-09 14:25 13-Jul-09 13:50 22-Jul-09 11:17 22-Jul-09 13:18 24-Jul-09 10:35 20-Jul-09 11:17 22-Jul-09 11:15 15-Jul-09 13:18 24-Jul-09 11:15 15-Jul-09 11:15   | Fine Sunny | <1  | 8.50   | 28.50<br>28.10<br>27.00<br>26.75<br>25.75<br>26.20<br>26.00<br>28.70<br>27.05<br>28.35<br>27.00<br>28.35<br>27.00<br>26.60<br>28.35<br>27.00<br>26.80<br>26.05<br>25.95<br>28.10<br>26.90<br>28.50<br>26.05<br>26.00<br>26.75<br>27.00<br>26.75<br>28.10<br>26.05<br>25.95<br>28.10<br>26.05<br>26.00<br>26.75<br>27.00<br>26.70<br>27.00<br>27.00<br>27.00<br>27.00<br>27.00<br>27.00<br>27.00<br>27.00<br>27.00<br>27.00<br>27.00<br>27.00<br>27.00<br>27.00<br>27.00<br>27.00<br>27.00<br>27.00<br>27.00<br>27.00<br>27.00<br>27.00<br>27.00<br>27.00<br>27.00<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28.70<br>28 | 7.28 7.24  | 7.26   | 3.65 / 3.51         | 6.43 6.42   | 6.43   | 2.47         2.52         2.50           4.91         4.95         4.93           -         -         -           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29           2.70         2.68         2.69           2.18         2.17         2.18           2.85         2.88         2.87           2.21         2.20         2.21           41.20         41.70         41.45           -         -         -           3.24         3.21         3.23           2.51         2.60         2.56           3.45         3.47         3.46           3.02         3.06         3.04           2.29         2.27         2.28           3.31         2.35         3.23           2.02         3.27         2.28           3.31         2.35         2.33           2.08         2.10         2.09           -         -         -           3.18         3.16         3.17           3.98 <td>3.99 / 4.18</td> <td>6.2</td> <td>6.1  - 2.0  2.6  3.0  2.2  2.3  2.6  42  2.0  57.9  - 2.0  2.0  2.0  2.0  2.0  2.0  2.0  2.0</td> <td>6.2</td> <td>-/-<br/>6.13 / 7.23</td> <td>Will Will Will Will Will Will Will Will</td> <td>Nii Nii Nii Nii Nii Nii Nii Nii Nii Nii</td>   | 3.99 / 4.18  | 6.2   | 6.1  - 2.0  2.6  3.0  2.2  2.3  2.6  42  2.0  57.9  - 2.0  2.0  2.0  2.0  2.0  2.0  2.0  2.0  | 6.2   | -/-<br>6.13 / 7.23                | Will Will Will Will Will Will Will Will  | Nii       |
| Squatters I-3                      | 02-Jul-09 10:08 04-Jul-09 - 06-Jul-09 09:15 08-Jul-09 10:30 13-Jul-09 10:35 15-Jul-09 13:50 17-Jul-09 13:50 17-Jul-09 11:25 22-Jul-09 11:25 22-Jul-09 11:25 23-Jul-09 10:45 31-Jul-09 10:45 31-Jul-09 14:27 04-Jul-09 14:25 08-Jul-09 14:27 10-Jul-09 13:50 17-Jul-09 13:50 22-Jul-09 11:17 22-Jul-09 13:50 17-Jul-09 13:25 13-Jul-09 13:25 13-Jul-09 13:25 20-Jul-09 11:15 15-Jul-09 13:26 20-Jul-09 10:5 27-Jul-09 10:5 27-Jul-09 10:5 27-Jul-09 13:05 24-Jul-09 11:05 15-Jul-09 11:05  | Fine Sunny Fine Sunny  | <1  | 8.50 28.50   | 28.50<br>28.10<br>27.00<br>26.75<br>26.20<br>26.07<br>26.75<br>27.05<br>28.10<br>27.30<br>28.35<br>28.35<br>27.00<br>26.60<br>28.80<br>26.60<br>26.80<br>26.80<br>26.80<br>26.80<br>26.80<br>26.80<br>26.80<br>26.80<br>26.95<br>27.00<br>28.10<br>28.35<br>27.00<br>28.50<br>28.50<br>27.00<br>28.70<br>28.10<br>28.10<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28 | 7.28 7.24  | 7.26   | 3.65 / 3.51         | 6.43 6.42   | 6.43   | 2.47         2.52         2.50           4.91         4.93         4.93           -         -         -           4.56         4.50         4.53           3.92         3.95         3.94           2.61         2.60         2.61           2.28         2.29         2.29           2.70         2.68         2.69           2.18         2.17         2.18           2.85         2.88         2.87           2.21         2.20         2.21           41.70         41.45         -           -         -         -           3.24         3.21         3.23           3.45         3.47         3.46           3.41         3.40         3.41           3.22         3.25         3.24           3.02         3.06         3.04           2.29         2.27         2.28           2.31         2.27 <t>2.28           2.31         2.35         2.33           2.08         2.10         2.09           3.18         3.16         3.17           3.98         4.02         4.00           2.1</t>  | 3.99 / 4.18  | 6.2   | 6.1  - 2.0  2.6  3.0  2.6  3.0  2.6  4.2  2.0  57.9  2.0  2.0  2.0  2.0  2.0  2.0  2.1  2.0  2.0  | 6.2<br>2.2<br>2.6<br>3.0<br>2.2<br>2.5<br>2.5<br>2.5<br>3.9<br>2.0<br>58.9<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0        | -/-<br>6.13 / 7.23                | Will Will Will Will Will Will Will Will  | Nii       |

Note:
Blue Italic indicates an exceedance of Action Level
Red Bold indicates an exceedance of Limit Level

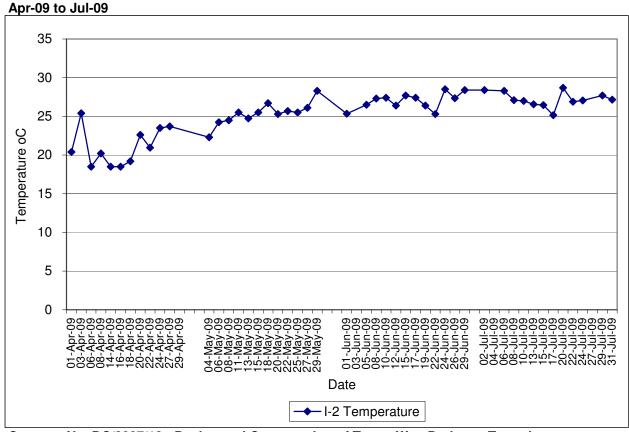
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Sik Sik Yuen Ho Fung College (I-1)



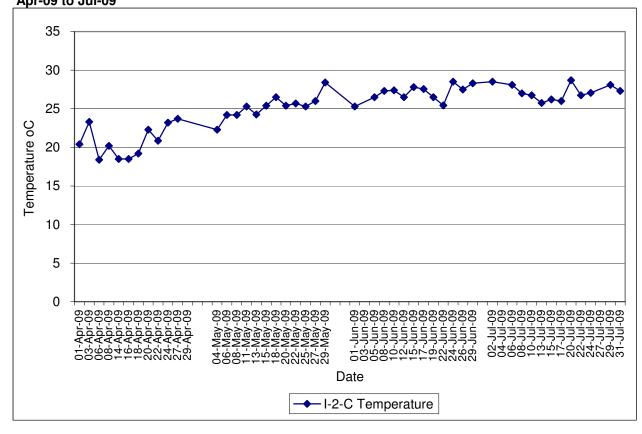
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Sik Sik Yuen Ho Fung College (I-1-C)



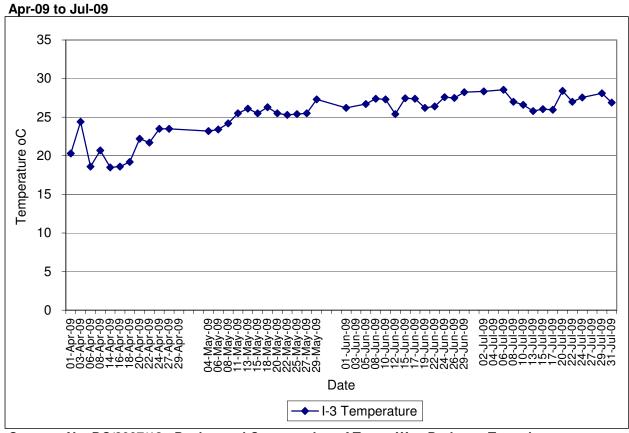
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Hong Hoi Chee Hong Temple (I-2)



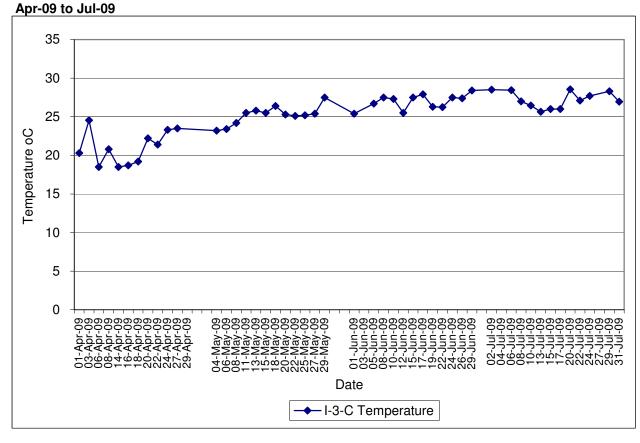
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Hong Hoi Chee Hong Temple (I-2-C) Apr-09 to Jul-09



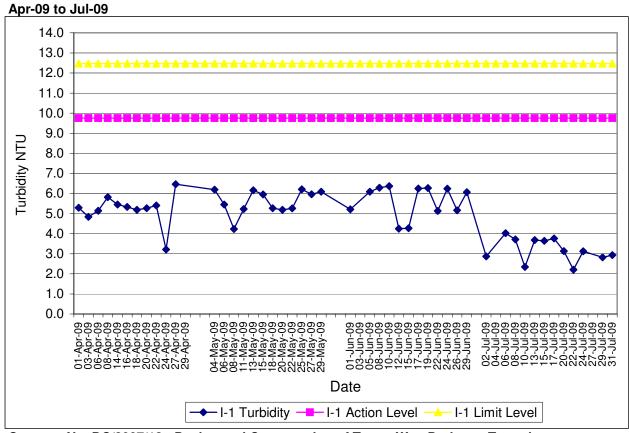
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Squatters (I-3)



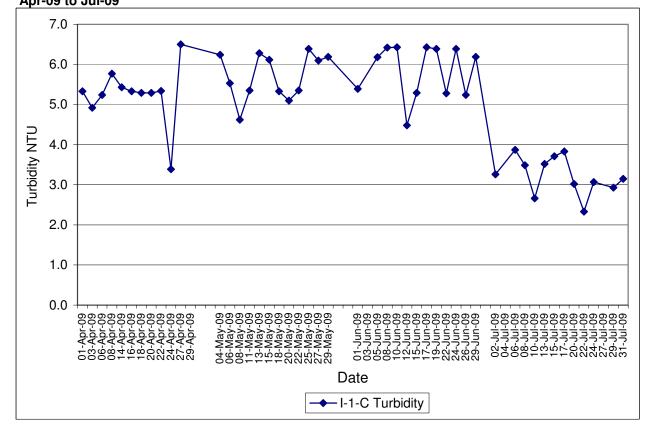
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Squatters (I-3-C)



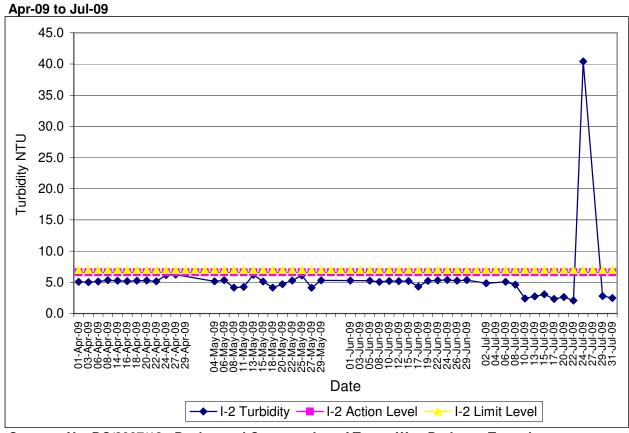
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Sik Sik Yuen Ho Fung College (I-1)



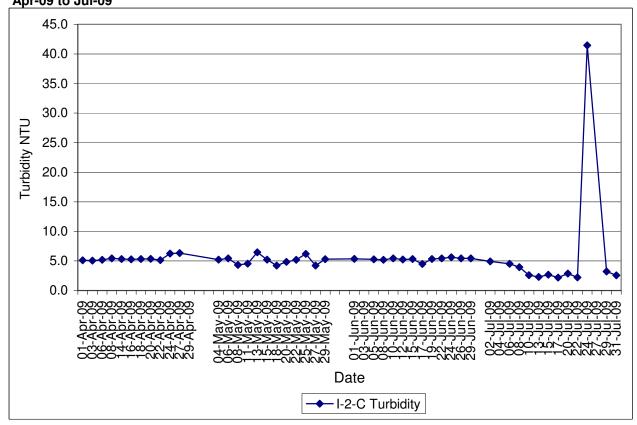
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Sik Sik Yuen Ho Fung College (I-1-C) Apr-09 to Jul-09



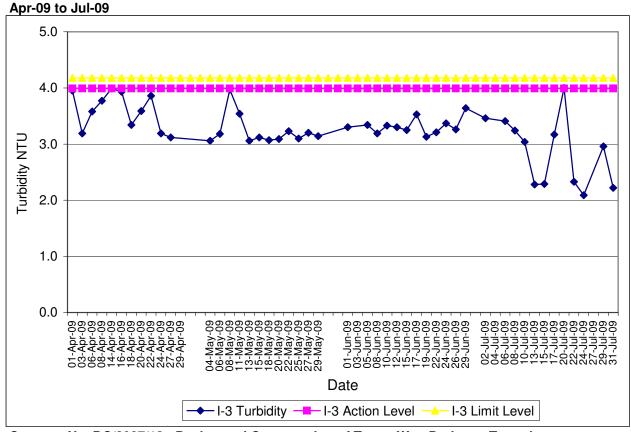
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Hong Hoi Chee Hong Temple (I-2)



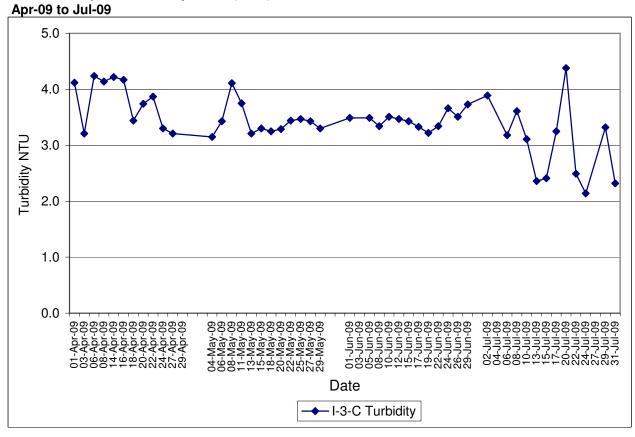
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Hong Hoi Chee Hong Temple (I-2-C) Apr-09 to Jul-09



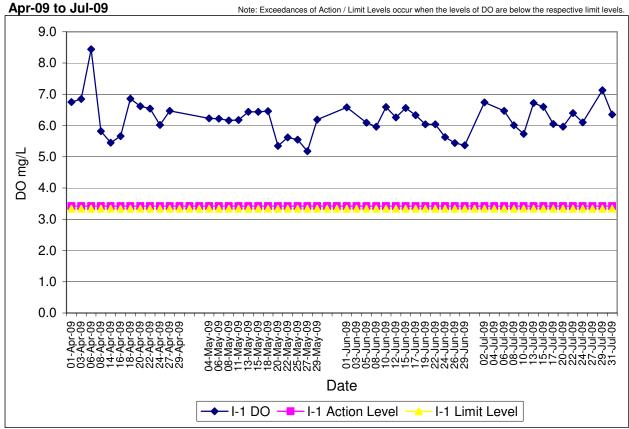
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Squatters (I-3)



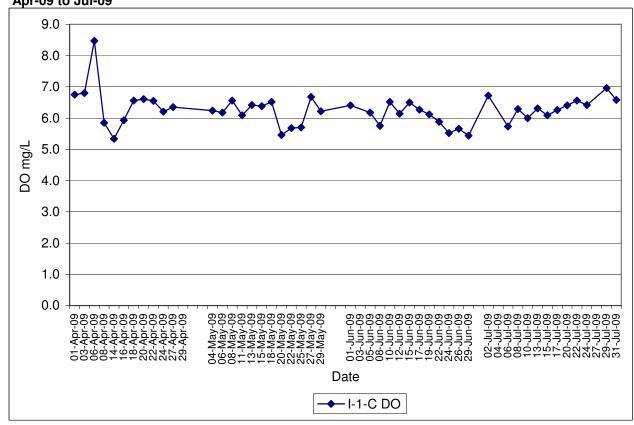
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Squatters (I-3-C)



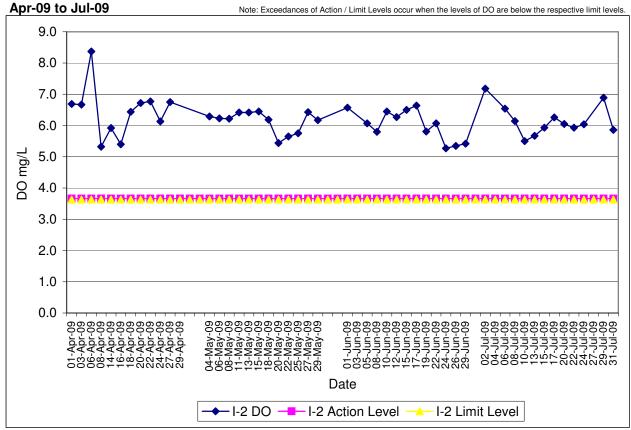
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Sik Sik Yuen Ho Fung College (I-1)



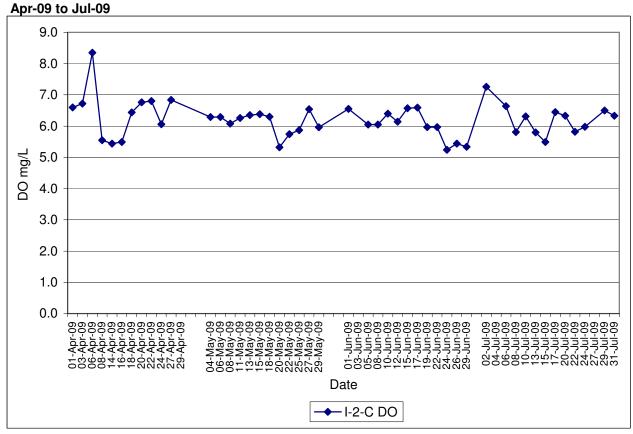
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Sik Sik Yuen Ho Fung College (I-1-C) Apr-09 to Jul-09



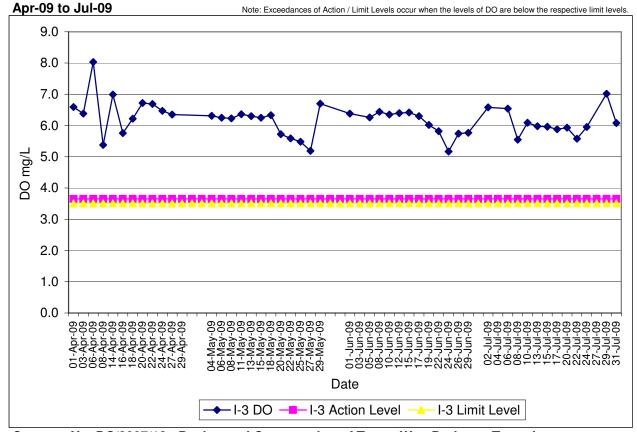
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Hong Hoi Chee Hong Temple (I-2)



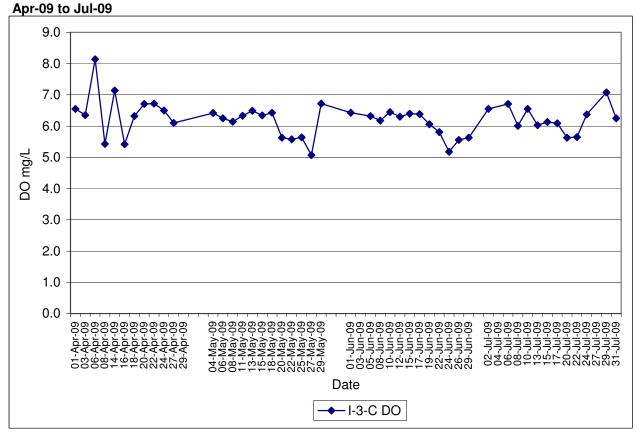
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Hong Hoi Chee Hong Temple (I-2-C)



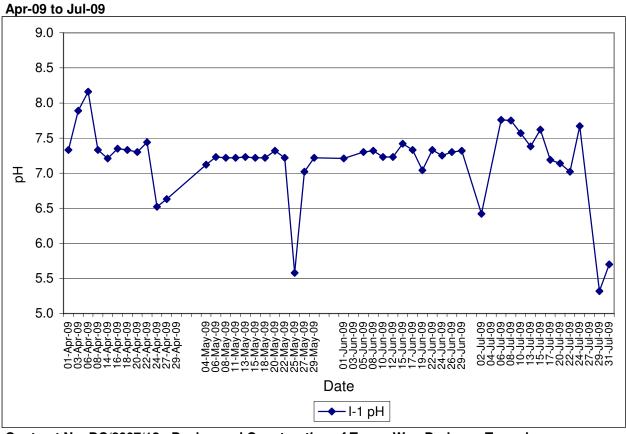
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Squatters (I-3)



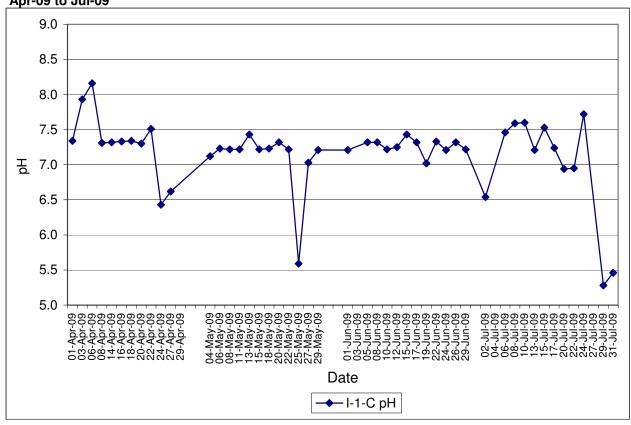
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Squatters (I-3-C)



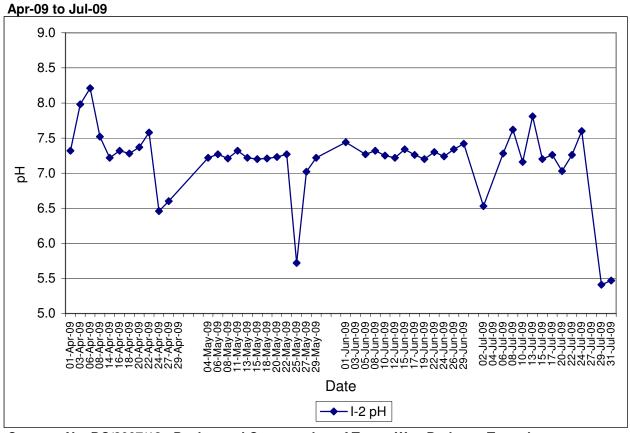
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Sik Sik Yuen Ho Fung College (I-1)



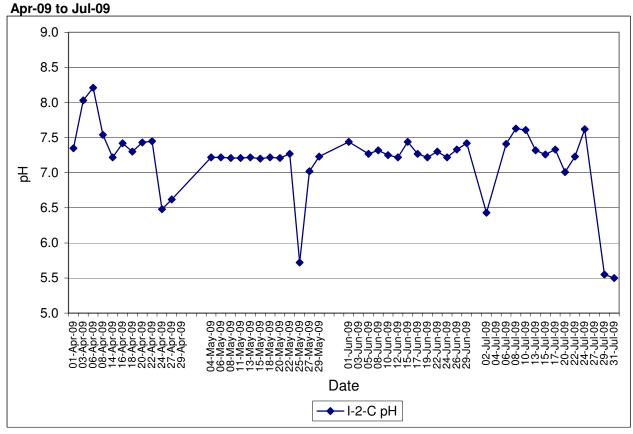
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Sik Sik Yuen Ho Fung College (I-1-C) Apr-09 to Jul-09



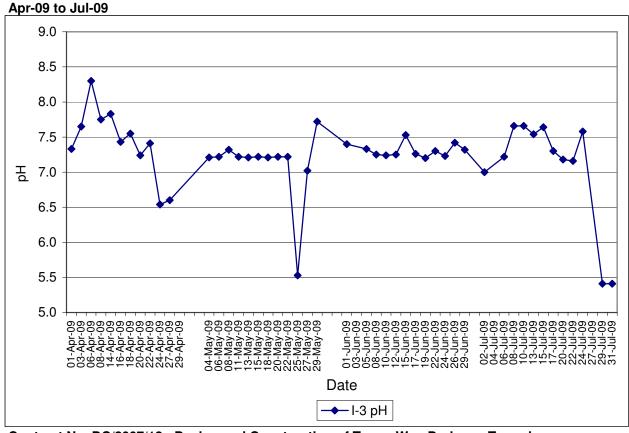
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Hong Hoi Chee Hong Temple (I-2)



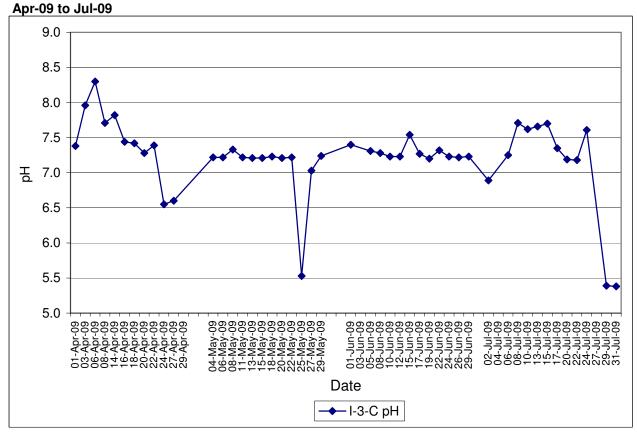
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Hong Hoi Chee Hong Temple (I-2-C)



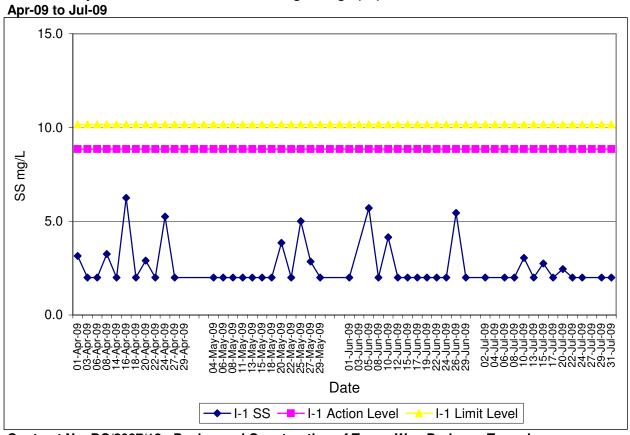
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Squatters (I-3)



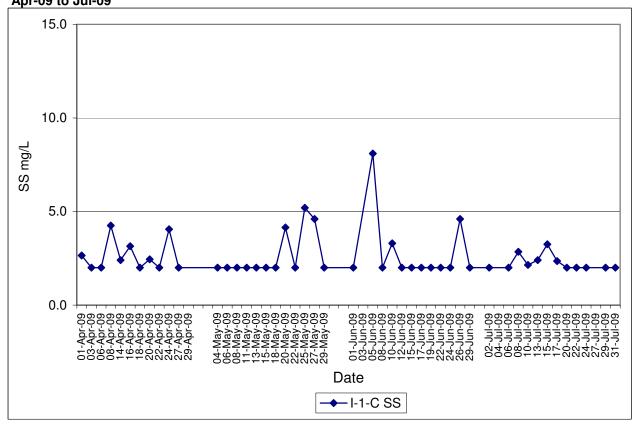
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Squatters (I-3-C)



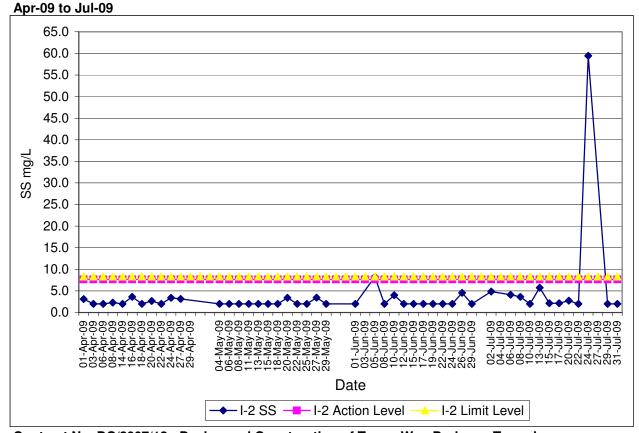
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Sik Sik Yuen Ho Fung College (I-1)



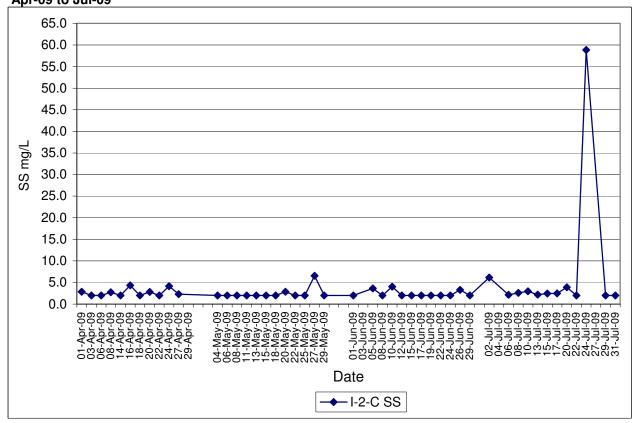
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Sik Sik Yuen Ho Fung College (I-1-C) Apr-09 to Jul-09



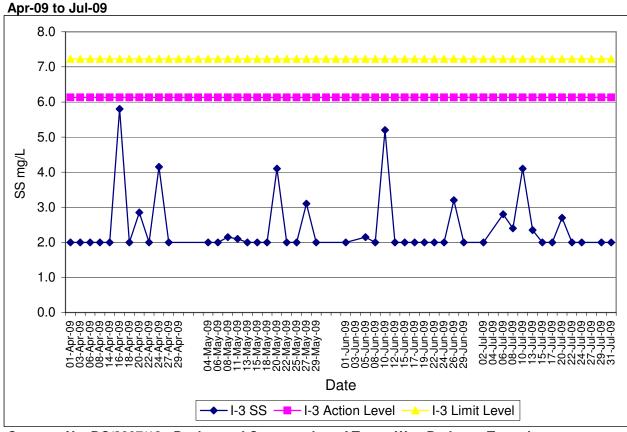
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Hong Hoi Chee Hong Temple (I-2)



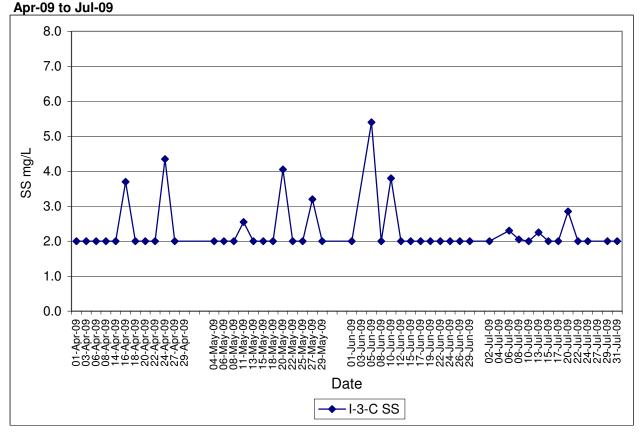
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Hong Hoi Chee Hong Temple (I-2-C) Apr-09 to Jul-09



Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Squatters (I-3)



Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Squatters (I-3-C)



## Appendix J

Interim Notifications of Environmental Quality Limits Exceedances

#### Incident Report on Action Level or Limit Level Non-compliance

| Project   | Tsuen Wan Drainage Tunnel   |
|---|---|
| Date  | 06-Jul-09   |
| Time  | 9:28 AM   |
| Monitoring Location   | Hong Hoi Chee Hong Temple (I-2)   |
| Parameter   | Suspended Solid   |
| Action & Limit Levels                                       | 7.68 / 8.34   |
| Measured Level  | 4.1 (higher than 130% of control station's SS)  |
| Possible reason for Action or<br>Limit Level Non-compliance | A low SS level of 2.2 is recorded at Control Station (I-2-C)  |
| Actions taken / to be taken                                 | The measured SS level was below baseline Action / Limit Level and was within the range of baseline SS concentration (1-8.5mg/L). Site tidiness & cleanliness, installation of safety net and noise barrier, demolition of piling platform and excavated and disposed C&D materials were undertaken during the measurement and no direct disturbance was observed from the site. Thus, the exceedance is considered to be contributed by natural variation and no action should be required. |
| Remarks   | Following mitigation measures were provided: (1) exposed surfaces were covered by tarpaulin. (2) sandbags were used to avoid wastewater from site activities directly running down to the river of I-2. (3) sand/silts removal facilites was installed at the location of I-2.  |

| Prepared by: | l erence Kor | ıg |
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| Designation: | Environmental Team | Loodor  |
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| Designation: | Environmental Leam | i eager |

| Signature: | The took |
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Date: 14-Jul-09

# Photographic record for exceedance of Suspended Solid recorded at Hong Hoi Chee Hong Temple (I-2) on 06-Jul-09



Site photo



Photo taken at I-2

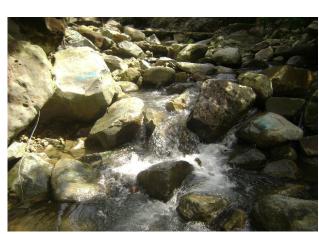


Photo taken at I-2-C

#### Incident Report on Action Level or Limit Level Non-compliance

| Project   | Tsuen Wan Drainage Tunnel   |
|---|---|
| Date  | 06-Jul-09   |
| Time  | 9:28 AM   |
| Monitoring Location   | Squatters (I-3)   |
| Parameter   | Suspended Solid   |
| Action & Limit Levels                                       | 6.13 / 7.23   |
| Measured Level  | 2.8 (higher than 120% of control station's SS)  |
| Possible reason for Action or<br>Limit Level Non-compliance | A low SS level of 2.3 is recorded at Control Station (I-3-C)  |
| Actions taken / to be taken                                 | The measured SS level was below baseline Action / Limit Level and was within the range of baseline SS concentration (1- 7.5mg/L). Site tidiness & cleanliness, backfilled and compacted road embankment were undertaken during measurement. No direct disturbance was observed from the site. Thus, the exceedance is considered to be contributed by natural variation and no action should be required. |
| Remarks   | Following mitigation measures were provided: (1) Gabion wall has been constructed to avoid any water from rainstorm and from site activities directly running down to the river of I-3. (2) Sedimentation Pond and Sand/silts removal facilities was installed at the location of I-3.  |

| Prepared by: | Terence Kong |
|--------------|--------------|

Designation: Environmental Team Leader

Signature:

Date: 14-Jul-09

# Photographic record for exceedance of Suspended Solid recorded at Squatters (I-3) on 06-Jul-



Site photo



Photo taken at I-3



Photo taken at I-3-C

#### Incident Report on Action Level or Limit Level Non-compliance

| Project   | Tsuen Wan Drainage Tunnel   |
|---|---|
| Date  | 08-Jul-09   |
| Time  | 1:58 PM   |
| Monitoring Location   | Hong Hoi Chee Hong Temple (I-2)   |
| Parameter   | Suspended Solid   |
| Action & Limit Levels                                       | 7.68 / 8.34   |
| Measured Level  | 3.7 (higher than 130% of control station's SS)  |
| Possible reason for Action or<br>Limit Level Non-compliance | A low SS level of 2.6 is recorded at Control Station (I-2-C)  |
| Actions taken / to be taken                                 | The measured SS level was below baseline Action / Limit Level and was within the range of baseline SS concentration (1-8.5mg/L). Site tidiness & cleanliness, installation of safety net and noise barrier, demolition of piling platform and excavated and disposed C&D materials were undertaken during the measurement and no direct disturbance was observed from the site. Thus, the exceedance is considered to be contributed by natural variation and no action should be required. |
| Remarks   | Following mitigation measures were provided: (1) exposed surfaces were covered by tarpaulin. (2) sandbags were used to avoid wastewater from site activities directly running down to the river of I-2. (3) sand/silts removal facilities was installed at the location of I-2.   |

| Prepared by: | Terence Kong |
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| Signature: | The toy |
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Date: 15-Jul-09

# Photographic record for exceedance of Suspended Solid recorded at Hong Hoi Chee Hong Temple (I-2) on 08-Jul-09





Site photo



Photo taken at I-2



Photo taken at I-2-C

#### Incident Report on Action Level or Limit Level Non-compliance

| Project   | Tsuen Wan Drainage Tunnel   |
|---|---|
| Date  | 10-Jul-09   |
| Time  | 10:10 AM  |
| Monitoring Location   | Sik Sik Yuen Ho Fung College (I-1)  |
| Parameter   | Suspended Solid   |
| Action & Limit Levels                                       | 8.85 / 10.17  |
| Measured Level  | 3.1 (higher than 130% of control station's SS)  |
| Possible reason for Action or<br>Limit Level Non-compliance | A low SS level of 2.2 is recorded at Control Station (I-1-C)  |
| Actions taken / to be taken                                 | The measured SS level was below baseline Action / Limit Level and was within the range of baseline SS concentration (1- 10.5mg/L). Site cleaning & tidying, shotcrete to skin wall and excavation and break up rock strata were carried out during measurement. No direct disturbance was observed from the site. Thus, the exceedance is considered to be contributed by natural variation and no action should be required. |
| Remarks   | Following mitigation measures were provided: (1) sandbags were used at the gap of the bridge to avoid wastewater from site activities directly running down to the channel of I-1. (2) The working site was segregated with a wall and no wastewater was observed down to the channel-I1. (3) Sand/silts removal facilites was installed at the location of I-1.  |

| Prepared by: | Terence Kong |
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| Designation: | ±nvironmental | l eam | Leader |
|--------------|---------------|-------|--------|
|--------------|---------------|-------|--------|

Signature:

Date: 21-Jul-09

# Photographic record for exceedance of Suspended Solid recorded at Sik Sik Yuen Ho Fung College (I-1) on 10-Jul-09



Site photo



Photo taken at I-1



Photo taken at I-1-C

#### Incident Report on Action Level or Limit Level Non-compliance

| Project   | Tsuen Wan Drainage Tunnel  |
|---|--|
| Date  | 10-Jul-09  |
| Time  | 1:25 PM  |
| Monitoring Location   | Squatters (I-3)  |
| Parameter   | Suspended Solid  |
| Action & Limit Levels                                       | 6.13 / 7.23  |
| Measured Level  | 4.1 (higher than 130% of control station's SS)   |
| Possible reason for Action or<br>Limit Level Non-compliance | A low SS level of 2.0 is recorded at Control Station (I-3-C)   |
| Actions taken / to be taken                                 | The measured SS level was below baseline Action / Limit Level and was within the range of baseline SS concentration (1- 7.5mg/L). Site cleaning & tidying, backfill skin wall toe and excavated and disposed C & D materials were undertaken during measurement. No direct disturbance was observed from the site. Thus, the exceedance is considered to be contributed by natural variation and no action should be required. |
| Remarks   | Following mitigation measures were provided: (1) Gabion wall has been constructed to avoid any water from rainstorm and from site activities directly running down to the river of I-3. (2) Sedimentation Pond and sand/silts removal facilities was installed at the location of I-3.   |

| Prepared by: | Terence Kong |
|--------------|--------------|
|--------------|--------------|

Designation: Environmental Team Leader

Signature:

Date: 21-Jul-09

# Photographic record for exceedance of Suspended Solid recorded at Squatters (I-3) on 10-Jul-09



Site photo



Photo taken at I-3



Photo taken at I-3-C

#### Incident Report on Action Level or Limit Level Non-compliance

| Project   | Tsuen Wan Drainage Tunnel   |
|---|---|
| Date  | 13-Jul-09   |
| Time  | 10:45 AM  |
| Monitoring Location   | Hong Hoi Chee Hong Temple (I-2)   |
| Parameter   | Suspended Solid   |
| Action & Limit Levels                                       | 7.68 / 8.34   |
| Measured Level  | 5.8 (higher than 130% of control station's SS)  |
| Possible reason for Action or<br>Limit Level Non-compliance | A low SS level of 2.2 is recorded at Control Station (I-2-C)  |
| Actions taken / to be taken                                 | The measured SS level was below baseline Action / Limit Level and was within the range of baseline SS concentration (1-8.5mg/L). Site cleaning & tidying, installation of safety net & noise barrier, demolition of piling platform & installation of temporary bund wall, erecting formwork to protect existing water main and installation of temporary steel decking were undertaken during the measurement. No direct disturbance was observed from the site. Thus, the exceedance is considered to be contributed by natural variation and no action should be required. |
| Remarks   | Following mitigation measures were provided: (1) exposed surfaces were covered by tarpaulin. (2) sandbags were used to avoid wastewater from site activities directly running down to the river of I-2. (3) sand/silts removal facilites was installed at the location of I-2.  |

| Prepared by: | Terence Kong |
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| Designation: | Environmental Team | Leader |
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| Signature: | The start of |
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Date: 21-Jul-09

# Photographic record for exceedance of Suspended Solid recorded at Hong Hoi Chee Hong Temple (I-2) on 13-Jul-09



Site photo



Photo taken at I-2



Photo taken at I-2-C

### Incident Report on Action Level or Limit Level Non-compliance

| Project   | Tsuen Wan Drainage Tunnel   |
|---|---|
| Date  | 20-Jul-09   |
| Time  | 9:30 AM   |
| Monitoring Location   | Sik Sik Yuen Ho Fung College (I-1)  |
| Parameter   | Suspended Solid   |
| Action & Limit Levels                                       | 8.85 / 10.17  |
| Measured Level  | 2.5 (higher than 120% of control station's SS)  |
| Possible reason for Action or<br>Limit Level Non-compliance | A low SS level of 2.0 is recorded at Control Station (I-1-C)  |
| Actions taken / to be taken                                 | The measured SS level was below baseline Action / Limit Level and was within the range of baseline SS concentration (1- 10.5mg/L). Site cleaning & tidying, shotcrete to skin wall, installation of noise barrier, excavation and breaking up the rock were carried out during measurement. No direct disturbance was observed from the site. Thus, the exceedance is considered to be contributed by natural variation and no action should be required. |
| Remarks   | Following mitigation measures were provided: (1) sandbags were used at the gap of the bridge to avoid wastewater from site activities directly running down to the channel of I-1. (2) The working site was segregated with a wall and no wastewater was observed down to the channel-I1. (3) Sand/silts removal facilites was installed at the location of I-1.  |

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| Prepared by: | Terence Kong |
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|--------------|--------------|

Designation: Environmental Team Leader

Signature:

Date: 28-Jul-09

# Photographic record for exceedance of Suspended Solid recorded at Sik Sik Yuen Ho Fung College (I-1) on 20-Jul-09



Site photo



Photo taken at I-1



Photo taken at I-1-C

### Incident Report on Action Level or Limit Level Non-compliance

| Project   | Tsuen Wan Drainage Tunnel   |
|---|---|
| Date  | 20-Jul-09   |
| Time  | 11:17 AM  |
| Monitoring Location   | Squatters (I-3)   |
| Parameter   | turbidity   |
| Action & Limit Levels                                       | 3.99 / 4.18   |
| Measured Level  | 4.00 (higher than Baseline Action Level)  |
| Possible reason for Action or<br>Limit Level Non-compliance | Turbidity level of 4.38 NTU is recorded at Control Station (I-3-C)  |
| Actions taken / to be taken                                 | The measured turbidity level was slightly higher than baseline Action Level and was far below the turbidity level at the upstream control station (i.e. I-3-C). No exceedance was recorded for SS level at I-3 at this monitoring. Site cleaning & tidying, disposal C&D material, erecting working platform for soil nail and breaking up the boulder were carried out during measurement. No direct disturbance was observed from the site. Thus, the exceedance is considered to be contributed by natural variation and no action should be required. |
| Remarks   | Following mitigation measures were provided: (1) Gabion wall has been constructed to avoid any water from rainstorm and from site activities directly running down to the river of I-3. (2) Sedimentation Pond and sand/silts removal facilities was installed  |

| Prepared by: | Terence Kong  |
|--------------|---------------|
| riepaieu by. | referice Kong |

Designation: Environmental Team Leader

Signature:

Date: 28-Jul-09

## Photographic record for exceedance of turbidity recorded at Squatters (I-3) on 20-Jul-09





Site photo



Photo taken at I-3



Photo taken at I-3-C

### Incident Report on Action Level or Limit Level Non-compliance

| Project   | Tsuen Wan Drainage Tunnel  |
|---|--|
| Date  | 24-Jul-09  |
| Time  | 9:16 AM  |
| Monitoring Location   | Hong Hoi Chee Hong Temple (I-2)  |
| Parameter   | turbidity  |
| Action & Limit Levels                                       | 6.63 / 6.99  |
| Measured Level  | 40.40 (higher than Baseline Limit Level)   |
| Possible reason for Action or<br>Limit Level Non-compliance | turbidity level of 41.45 is recorded at Control Station (I-2-C)  |
| Actions taken / to be taken                                 | The measured turbidity level was higher than baseline Limit Level and was below the turbidity level at the upstream control station (i.e. I-2-C). Site cleaning & tidying, installation of safety net & noise barrier, preparation of grout curtain and installation of steel platform for drop shaft were carried out during measurement. No direct disturbance was observed from the site. Thus, the exceedance is considered to be contributed by other sources at upstream and no action should be required. |
| Remarks   | Following mitigation measures were provided: (1) exposed surfaces were covered by tarpaulin. (2) sandbags & concrete block were used to avoid wastewater from site activities directly running down to the river of I-2. (3) sand/silts removal facilities was installed at the location of I-2.   |

| Prepared by | <i>r</i> : | Terence | Kona |
|-------------|------------|---------|------|
|             |            |         |      |

| Designation: | Environmental Team Leader |
|--------------|---------------------------|
|              |                           |

| Signature: | The Long |
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Date: 29-Jul-09

## Photographic record for exceedance of turbidity recorded at Hong Hoi Chee Hong Temple (I-2) on 24-Jul-09



Site photo



Photo taken at I-2



Photo taken at I-2-C

### Incident Report on Action Level or Limit Level Non-compliance

| Project   | Tsuen Wan Drainage Tunnel  |
|---|--|
| Date  | 24-Jul-09  |
| Time  | 9:16 AM  |
| Monitoring Location   | Hong Hoi Chee Hong Temple (I-2)  |
| Parameter   | Suspended Solid  |
| Action & Limit Levels                                       | 7.68 / 8.34  |
| Measured Level  | 59.5 (higher than baseline Limit Level)  |
| Possible reason for Action or<br>Limit Level Non-compliance | SS level of 58.9 is recorded at Control Station (I-2-C)  |
| Actions taken / to be taken                                 | The measured SS level was higher than baseline Limit Level and was slightly above the SS level at the upstream control station (i.e. I-2-C). It is still complied with the Action and Limit level of water quality at control station, I-2-C. Site cleaning & tidying, installation of safety net & noise barrier, preparation of grout curtain and installation of steel platform for drop shaft were carried out during measurement. No direct disturbance was observed from the site. Thus, the exceedance is considered to be contributed by other sources at upstream and no action should be required. |
| Remarks   | Following mitigation measures were provided: (1) exposed surfaces were covered by tarpaulin. (2) sandbags & concrete block were used to avoid wastewater from site activities directly running down to the river of I-2. (3) sand/silts removal facilites was installed at the location of I-2.  |

| Prepared b | y: | Terence | Kong |
|------------|----|---------|------|
|            |    |         |      |

Designation: Environmental Team Leader

Signature:

Date: 29-Jul-09

# Photographic record for exceedance of Suspended Solid recorded at Hong Hoi Chee Hong Temple (I-2) on 24-Jul-09



Site photo



Photo taken at I-2



Photo taken at I-2-C



## Complaint Log

#### **APPENDIX K**

### **COMPLAINT LOG**

| Log Ref. | Data/Location              | Complainant / Data of Contract | Details of Complaint  | Investigation / Mitigation Action  | File<br>Closed |
|----------|----------------------------|--------------------------------|---|--|----------------|
| CIR-001  | 9 March 2009<br>at Outfall | EPD                            | EPD has received a complaint (EPD ref: EP3/N22/RW/04846-09) regarding to muddy effluent discharged from the outfall of the construction site from a public on 9 March 2009. Site investigation was also carried out by EPD with the Contractor on the same day. | Findings/ Observations In the afternoon on 9 March 2009, the Contractor was carrying out regular maintenance for removing silt accumulated in the wastewater treatment plant. During the maintenance works, some residual silt inside the plant was accidentally leaked out to the outfall discharge outlet. The reason was that a flexible pipe for disposing silt was found connecting to the concrete platform of the outfall discharge outlet.  Conclusion/Remedial Action The complaint was valid and it was due to maintenance works at the wastewater treatment plant at the outfall area. The contractor had cleaned up the silt at discharge outlet and the channel at the outfall area on 12 March 2009 as shown in the attached photo. The ET will closely inspect the discharge outlet and the channel during the routine site inspections and provide advice to the Contractor. The Contractor was also advised to provide mitigation measures during any occasion of the maintenance work on the wastewater treatment plant. The discharge pipe of the treatment plant should be plugged and ensure not functioned when carrying out maintenance works on the wastewater treatment plant in order to prevent the discharge of silt or muddy water to the outlet.  Flexible pipe for discharge of sludge should not be placed on the concrete platform under the outfall discharge outlet. For disposal of slit or sludge in the wastewater treatment plant, tanker should be used. | Closed         |
| CIR-002  | 8 May 2009<br>at Outffall  | EPD                            | EPD has received a complaint (EPD ref: EP3/N22/RW/09755-09) regarding to construction dust from the outfall construction site on 8 May  | Findings/ Observations  Regular 1-hour TSP monitoring, in accordance with EM&A Manual, are performed by Environmental Team. The monitoring station concerned is ASR9 (i.e. at the podium level of Greenview Terrace facing to the construction site).  The closest date for the 1-hour TSP concentration monitoring was on 6 May 2009 and 12   |                |

| Log Ref. | Data/Location             | Complainant /<br>Data of Contract | Details of Complaint   | Investigation / Mitigation Action  | File<br>Closed |
|----------|---------------------------|-----------------------------------|--|--|----------------|
|          |                           |                                   | 2009. Site investigation was also carried out by EPD with the Contractor on 14 May 2009.   | May 2009 at Greenview Terrace, ASR9. Soil nailing works and loading & unloading excavated materials were observed during monitoring. In accordance with the EM&A Manual and the Baseline Monitoring Report, all 1-hour TSP concentrations at ASR9 were below the established Action and Limit Levels. No exceedance was recorded on 6 and 12 May 2009.   |                |
|          |                           |                                   |  | The contractor and the environmental team were also undertaken site investigation on the subject area in response to the complaint. It was confirmed that the air quality mitigation measures as recommended in EIA have been provided by the Contractor. The mitigation measures are as follows:  • Water spraying was provided to the exposed surface.  • Several automatic sprinklers were provided at the outfall construction site for water spraying of the haul road.  • Water spraying was provided during dust generating works (e.g. rock breaking and soil nailing works).  |                |
|          |                           |                                   |  | Conclusion/Remedial Action  Based on the site inspection and monitoring results, the complaint is considered not justifiable since no action & limit level exceedance on construction dust are identified. Air quality mitigation measures as recommended in EIA have been implemented in order to control and minimise the air quality impact and nuisance arising from the construction activities. Nevertheless, in view of the recent dry and sunny weather, the haul road and the exposed area would be dry very quickly. The Contractor was recommended to provide more frequent water spraying especially in the dry and sunny weather. |                |
| CIR-003  | 14 May 2009<br>at Outfall | EPD                               | EPD has received a complaint (EPD ref: EP/RW/080206) regarding to daytime construction rock breaking at 7:15 am and dusty at the outfall construction site on 14 May | The closest date to the complaint for the 1-hour TSP monitoring & daytime construction noise monitoring was on 12, 18 and 27 May 2009 at Greenview Terrace, ASR9 and NSR9. Soil nailing, excavation, rock breaking, loading and unloading the materials were observed during monitoring period. The measured noise levels complied with the limit level in accordance with the EIAO-TM. All 1-hour TSP concentrations at ASR9 were below the established Action and Limit Levels. No 1-hour TSP exceedance was recorded.  The contractor and the environmental team were also undertaken site investigation on the                             | Closed         |

| Log Ref. | Data/Location              | Complainant /<br>Data of Contract | Details of Complaint  | Investigation / Mitigation Action   |        |
|----------|----------------------------|-----------------------------------|---|---|--------|
|          | 2009.                      |                                   | 2009.   | subject area in response to the complaint. Air quality mitigation measures as recommended in EIA have been implemented by the Contractor. However, noise mitigation measures could be further improved.   |        |
|          |                            |                                   |   | Based on our site inspection and monitoring results, the complaint for dust is considered not justifiable since no action & limit level exceedance on construction dust is identified. Air quality mitigation measures as recommended in EIA have also been implemented in order to control and minimise the air quality impact arising from the construction activities. In view of the recent dry and sunny weather, the haul road and the exposed area would be dry very quickly. The Contractor was recommended to enhance water spraying especially in the dry and sunny weather.  |        |
|          |                            |                                   |   | On the other hand, the complaint for noise is considered due to works and the Contractor was agreed to improve the on-site noise mitigation measures such as the following measures. ET's site inspection and the joint inspection with relevant parties was conducted on 29 May 2009 and 4 June 2009 respectively to confirm all the below measures have been implemented.   |        |
|          |                            |                                   |   | <ul> <li>For the idling plant, it should be switched off to reduce noise level generated.</li> <li>The sound insulation sheets and noise insulation materials should be placed to enclose the breaking tip tightly and also aside or surrounding the breaking activities as recommended in the following photos 1-3 in noise mitigation measures.</li> <li>Noise monitoring frequency was increased in order to check the effectiveness of the mitigation measures. The additional measurement was taken on 27 May, 8 June, 10 June and 12 June 2009 after all the measures implemented. The noise levels (Leq, 30 min) were 70.9 dB (A), 70.5 dB (A), 70.3 dB (A) and 70.3 dB (A) respectively, which comply with the limit level in accordance with the EIAO-TM. Soil nailing, excavation and rock breaking were observed during monitoring period. The measures were well in place and seemed effective during the measurement.</li> </ul> |        |
| CIR-004  | 10 July 2009<br>at Outfall | EPD                               | EPD has received a complaint (EPD ref: EP3/N22/RW/15137-09) regarding to construction | Findings/ Observations  1-hour TSP concentration monitoring was on 10 July 2009 at Greenview Terrace, ASR9. Soil nailing works, concrete breaking, excavation and loading & unloading excavated materials were observed during monitoring. All 1-hour TSP concentrations at ASR9 were   | Closed |

Design and Construction of Tsuen Drainage Tunnel Environmental Monitoring and Audit

| Log Ref. | Data/Location | Complainant /<br>Data of Contract | Details of Complaint                                     | Investigation / Mitigation Action   |        |
|----------|---------------|-----------------------------------|--|---|--------|
|          |               | Data of Contract                  | dust from the outfall construction site on 10 July 2009. | below the established Action and Limit Levels. No exceedance was recorded on 10 July 2009.  The contractor and the environmental team were also undertaken site investigation on the subject area in response to the complaint. It was confirmed that the air quality mitigation measures as recommended in EIA have been provided by the Contractor. The mitigation measures are as follows:  • Water spraying was provided to the exposed surface.  • Automatic sprinklers were provided at the outfall construction site for water spraying of the haul road.  • Water spraying was provided during dust generating works (e.g. rock breaking and soil nailing works). | Closed |
|          |               |                                   |  | Tarpaulin was used for covering the dusty works in the Portal area.      Conclusion/Remedial Action     The complaint is considered not justifiable since no action & limit level exceedance on construction dust are identified  |        |

| Signed by Environmental Team Leader: | mtory | Date: | 31 July 2009 |
|--------------------------------------|-------|-------|--------------|
| Signed by Environmental Team Leader: | W-4 J | Date: |              |

### **Noise Mitigation Measures**



1. Sound insulation sheet erected with the green net.



2. Sound insulation sheet surrounding the rock breaking activities as far as possible.



3. Noise insulation material for rock breaking.

### **Air Quality Mitigation Measures**



1. Water spraying for the exposed area.



2. Automatic sprinkler spraying the haul road.





4. Water Spraying for soil nail work.

Tarpaulin will be opened for dusty works in Portal area

