Maeda - CREC - SELI Joint Venture







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

Monthly EM&A Report

(May 2008)

June 2008

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Monthly EM&A Report (May 2008)

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Executive Summary

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) (Permit No. FEP-01/275/2007). The notified date of commencement work is January 2008. This Monthly EM&A Report summarises the EM&A works undertaken during the period of May 2008.

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).

During non-restricted hours, major construction activities undertaken by the Contractor at TWDT were site clearance, hoarding erection & fencing erection, tree survey & transplanting, slope stabilization, site office formation and pre-construction survey. No construction activities were undertaken during restricted hours.

No Action / Limit Levels exceedance of air quality and noise monitoring was recorded in the reporting month.

Two limit levels exceedances of DO were recorded at I-1-C on 7 May 2008 and I-2-C on 9 May 2008. Three limit levels exceedances of SS were recorded at I-1-C on 23 and 28 May 2008 and at I-3 on 26 May 2008 respectively during the reporting month. However these exceedances were caused by natural fluctuation and were not related to the Project's construction activities since no construction activities were undertaken on the scheduled monitoring dates above.

In the reporting month, no C&D material was disposed of to public fill at Tuen Mun. A total of 19.435m³ C&D waste were disposed of to NENT Landfill and 70m³ inert C&D material were reused in the Contract. A total of 100kg of paper/cardboard were recycled and no chemical waste was disposed of in the reporting month. In addition, no metals were generated.

In this reporting month, bi-weekly site inspections and 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. No non-compliance was received in the reporting month.

No environmental complaints were received during the reporting month.

No summons and prosecution were received in this reporting month.



The major construction works for the upcoming three months are:

- Site clearance;
- Hoarding & fencing erection;
- Trees survey & transplanting;
- Slope stabilization;
- Site office formation; and
- Pre-construction survey.

An alternative monitoring location was proposed to the Contractor on 21 May 2008 to replace the air quality and noise monitoring location at Intake 2 due to its inaccessibility. Relocation of monitoring location is upon confirmation from DSD.



1 INTRODUCTION

The Drainage Services Department (DSD) proposes to construct a tunnel of an internal diameter of 6.5m and length 5.13km, with the purpose to alleviate the flooding risk in Tsuen Wan and Kwai Chung.

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.

The Maeda - CREC - SELI Joint Venture (MCSJV) was awarded by DSD with the Contract – Design and Construction of Tsuen Wan Drainage Tunnel.

Hyder was commissioned by the MCSJV as the 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.

The construction works of the Project commenced on January 2008. This is the second monthly EM&A report summarising the impact monitoring results and audit findings of the EM&A program during the reporting month in May 2008.

2 PROJECT INFORMATION

2.1 Project Organization and Management Structure

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

2.2 Construction Progress

This report marks the second month of the civil works contract. It is anticipated that 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.

The major construction activities undertaken in the reporting month are:

- Site clearance;
- Hoarding & fencing erection;
- Tree survey & transplanting;



- Slope stabilisation;
- Site office formation; and
- Pre-construction survey.

As confirmed by the Contractor, there were no construction activities undertaken at TWDT during the restricted hours.

2.3 Mitigation Measures

The environmental mitigation measures implemented and their status are given in Appendix D.

2.4 Status of License and Permit

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

3.1.1 Air Quality Parameters

1-hour Total Suspended Particulates (TSP) levels are measured at the designated air monitoring locations in accordance with the EM&A Manual. Monitoring under typical weather conditions (with no adverse weather such as typhoon signal or rain storm warning) is undertaken at each monitoring location every six days. Information such as date of monitoring, duration, weather condition, equipment used and monitoring results are recorded on the field data sheet developed for the Project. The monitoring results are presented in Section 4.

3.1.2 Monitoring Methodology

1-hour TSP monitoring is carried out three times every six days using HVASs and follows 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.

After 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 a dessicator for 24 hours before obtaining the weight under laboratory conditions.

The average concentration of the suspended particulates is calculated based on the following information obtained from monitoring:

Flow rate



- Weight of the filter paper before and after sampling
- Sampling period indicated by the elapsed-time meter

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 will be carried out by ALS Technichem (HK) Pty Limited (HOKLAS Registration Number 066).

3.1.3 Monitoring Equipment and Calibration

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.

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 Number | Location |
|----------------|----------|---------------|-------------------------------|----------|
| HVAS | BM2000HX | 4994 | 517N | ASR 1 |
| HVAS | BM2000HX | 5875 | 517N | ASR 3 |
| HVAS | TE5005X | 0390 | 517N | ASR 8 |
| HVAS | TE5005X | 0646 | 517N | ASR 9 |

Table 3-1 Air Quality Monitoring Equipment

3.1.4 Monitoring Location

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



3.1.5 Action and Limit Levels

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.

| Station | 1-hr TSP Level in µg/m³ | | |
|---------|-------------------------|-------------|--|
| Station | Action Level | Limit Level | |
| ASR 1 | 307 | 500 | |
| ASR 3 | 327 | 500 | |
| ASR 8 | 337 | 500 | |
| ASR 9 | 329 | 500 | |

Table 3-3 Action & Limit Levels for Air Quality

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



| EVENT | ACTION | | | |
|---|---|---|--|--|
| LVLINI | ET | IEC | SOR | CONTRACTOR |
| | Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and SOR; If exceedance stops, cease additional monitoring. | Supervise Implementation of remedial measures. | | |
| LIMIT LEVEL | , 3 | 1 | • | 1 |
| Exceedance for one sample | Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC, SOR, Contractor and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and SOR informed of the results. | Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise SOR on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures. | Confirm receipt of notification of exceedance in writing; Notify Contractor; Ensure remedial measures properly implemented. | Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate. |
| Exceedance for two or more consecutive samples | Notify IEC, SOR, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible | Discuss amongst SOR, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise SOR accordingly; | 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; | Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; |



| CVCNT | ACTION | | | |
|-------|---|--|--|---|
| EVENT | ET | IEC | SOR | CONTRACTOR |
| | mitigation to be implemented; • Arrange meeting with IEC and SOR to discuss the remedial actions to be taken; • Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and SOR informed of the results; • If exceedance stops, cease additional monitoring. | Supervise the implementation of remedial measures. | 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. | Stop the relevant portion of works as determined by SOR until the exceedance is abated. |

Table 3-4 Event/Action Plan for Air Quality

3.2 Noise

3.2.1 Noise Parameters

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.

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.

3.2.2 Monitoring Methodology

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 measurements that are carried out under free field conditions.

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 presented during the baseline monitoring period.

3.2.3 Monitoring Equipment and Calibration

Bruel & Kjaer (B&K) Precision Integrating Sound Level Meters of Type 2238 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, is used for noise monitoring.

Prior to and following each noise measurement, the accuracy of the sound level meter is checked using an acoustic calibrator (B&K Type 4231(S/N 1770806) 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 calibrators shall be calibrated annually to ensure they perform to the same level of accuracy as stated in the manufacturers 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, NSR6, NSR8 and NSR9 |
| Sound Level Calibrator | Bruel & Kjaer | 4231 | 1770806 | NSR1, NSR3, NSR6, NSR8 and NSR9 |

Table 3-5 Noise Monitoring Equipment

3.2.4 Monitoring Location

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.

| 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 | Greenview Terrace (Block 1) | G/F |

Table 3-6 Noise Monitoring Locations



3.2.5 Construction Groundborne Noise

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 would 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.

The criterion include TM 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 open 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.

3.2.6 Action and Limit Levels

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 | | 75 dB(A)* |
| 0700 – 2300 hrs on holidays; and | When one documented complaint is | 70 dB(A) |
| 1900 – 2300 hrs on all other days | received | |
| 2300 – 0700 hrs of next day | | 55 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 | Notify IEC and the Contractor. Carry out investigation. Report the results of investigation to IEC and the Contractor. Discuss with the Contractor and formulate remedial measures. Increase monitoring frequency to check mitigation measures. | Review with analysed results submitted by ET. Review the proposed remedial measures by the Contractor and advise SOR accordingly. Supervise the implement of remedial measures. | Confirm receipt of notification of exceedance in writing. Notify the Contractor. Require the Contractor to propose remedial measures for the analysed noise problem. Ensure remedial measures are properly implemented. | Submit noise mitigation proposals to IEC. Implement noise mitigation proposals. | | | | | | |
| Limit Level | Identify the source. Notify IEC, SOR, EPD and the Contractor. Repeat measurement to confirm findings. Increase monitoring frequency. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented. Inform IEC, SOR, and EPD the causes & actions taken for the exceedances. Assess effectiveness of the Contractor's remedial actions and keep IEC, EPD and SOR informed of the results. If exceedance stops, cease additional monitoring. | 1. Discuss amongst SOR, ET Leader and the Contractor on the potential remedial actions. 2. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise SOR accordingly. 3. Supervise the implementation of remedial measures. | Confirm receipt of notification of exceedance in writing. Notify the Contractor. Require the Contractor to propose remedial measures for the analysed noise problem. Ensure remedial measures are properly implemented. 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. | 1. Take immediate action to avoid further exceedance. 2. Submit proposals for remedial actions to IEC within 3 working days of notification. 3. Implement the agreed proposals. 4. Resubmit proposals if problem still not under control. 5. Stop the relevant activity of works as determined by the SOR until the exceedance is abated. | | | | | | |

Table 3-8 Event/Action Plan for Noise



3.3 Water Quality

As there is no dredging or reclamation required for the project, 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.

3.3.1 Water Quality Parameters

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.

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.

3.3.2 Monitoring Methodology

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.

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.

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.

3.3.3 Monitoring Equipment and Calibration

All the water samples collected should be transferred to clearly labelled and precleaned sample containers with necessary preservatives immediately after collection. The sample containers should be provided by 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.

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

Table 3-9 Water Quality Monitoring Equipment

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 shall be attached in the next monthly report.

3.3.4 Monitoring Location

Four designated monitoring locations were identified in the contract specific EM&A Manual for water quality monitoring. While the construction of the outfall does not require dredging or reclamation, monitoring of water quality is only required during which the rip rap is placed. 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 |

Table 3-10 Water Quality Monitoring Locations

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 base on the tidal information provided by the Hong Kong Observatory.



3.3.5 Action and Limit Levels

The Action and Limit levels for water quality monitoring parameters are defined in Table 3-11. In case of any exceedance, appropriate action 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 and middle layer. | 4mg/l except 5mg/l for FCZ or 1%-ile of baseline data for surface and |
| | <u>Bottom</u> | middle layer <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 (depth-averaged) | 95%-ile of baseline data or 120% of upstream control station's SS at the same tide of the same day | 99%-ile of baseline or 130% of 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 NTU (depth-averaged) | 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



Consulting

| Event | | ET Leader | | IEC | | SOR | | Contractor | | | | | | | |
|---|----|--|----|--|----|---|----|--|--------------------------------|----|---|--|--|----|--|
| Action Level being exceeded by one sampling | 1. | Repeat in-situ measurement to confirm finding; | 1. | Discuss with ET and Contractor on the mitigation measures; | 1. | Discuss with IEC on the proposed mitigation measures; and | 1. | Inform the SOR and confirm notification of the non-compliance in writing; | | | | | | | |
| day | 2. | Identify source(s) of impact; | 2. | Review proposals on mitigation measures | 2. | Make agreement on the mitigation measures to | 2. | Rectify unacceptable practice; | | | | | | | |
| | 3. | Inform IEC and Contractor; | | submitted by Contractor and advise the SOR accordingly; | | be implemented. | 3. | Check all plant and equipment; | | | | | | | |
| | 4. | data, all plant, | 3. | and Assess the | | | 4. | Consider changes of working methods; | | | | | | | |
| | | equipment and Contractor's working methods; | | effectiveness of the implemented mitigation measures. | | | 5. | Discuss with ET and IEC and propose mitigation measures to IEC and | | | | | | | |
| | 5. | Discuss mitigation measures with IEC and Contractor; and | | | | | 6. | SOR; and Implement the agreed mitigation measures. | | | | | | | |
| | 6. | Repeat measurement on next day of exceedance. | | | | | | minganon measures. | | | | | | | |
| Action Level being exceeded by more than one | 1. | Repeat in-situ measurement to confirm finding; | 1. | Discuss with ET and Contractor on the mitigation measures; | 1. | Discuss with IEC on the proposed mitigation measures; | 1. | Inform the Engineer and confirm notification of the non-compliance in writing; | | | | | | | |
| consecutive sampling day | 2. | Identify source(s) of impact; | 2. | Review proposals on mitigation measures | 2. | mitigation measures to | 2. | Rectify unacceptable practice; | | | | | | | |
| | 3. | Inform IEC and Contractor; | | submitted by Contractor and advise the SOR accordingly; | 3. | 3. | | 3. | Check all plant and equipment; | | | | | | |
| | 4. | data, all plant, | 3. | and Assess the | | of the implemented mitigation measures. | 4. | Consider changes of working methods; | | | | | | | |
| | | equipment and Contractor's working methods; | 0. | 0. | | | | 0. | | 0. | effectiveness of the implemented mitigation measures. | | | 5. | Discuss with ET and IEC and propose mitigation measures to IEC and SOR |
| | 5. | Discuss mitigation measures with IEC and Contractor; | | | | | 6. | within 3 working days; and Implement the agreed mitigation measures. | | | | | | | |
| | 6. | Ensure mitigation measures are implemented; | | | | | | magaton measures. | | | | | | | |
| | 7. | Prepare to increase the monitoring frequency to daily; and | | | | | | | | | | | | | |
| | 8. | Repeat measurement on next day of exceedance. | | | | | | | | | | | | | |



Consulting

| Event | | ET Leader | | IEC | | SOR | | Contractor |
|---|--|--|----------|---|------------------------------------|--|--|--|
| Limit Level being exceeded by one sampling day | 2. 3. 4. 7. | Repeat in-situ measurement to confirm finding; Identify source(s) of impact; Inform IEC, Contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, SOR and Contractor; Ensure mitigation measures are implemented; and Increase the monitoring frequency to daily until no exceedance of Limit level. | 1. 2. 3. | 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. | 3. 4. | 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. | 3. 4. 6. | Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and SOR and propose mitigation measures to IEC and SOR within 3 working days; and Implement the agreed mitigation measures. |
| Limit Level being exceeded by more than one consecutive sampling day | 2. 3. 4. 7. | Repeat in-situ measurement to confirm finding; Identify source(s) of impact; Inform IEC, Contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, SOR and Contractor; Ensure mitigation measures are implemented; and Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. | 1. 2. 3. | 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. | 3. 5. | 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; Assess the effectiveness of 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. | 5. 6. | Inform the SOR and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and SOR and propose mitigation measures to IEC and SOR within 3 working days; Implement the agreed mitigation measures; and As directed by the Engineer, to slow down or to stop all or part of the marine work or construction activities. |

Table 3-12 Event/Action Plan for Water Quality



4 MONITORING RESULT

4.1 Air Quality

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

4.1.1 1-hr TSP Monitoring

Results of 1-hours TSP level are shown in Table 4-1. All measurements are recorded to the nearest $0.1 \mu g/m^3$ and presented in round numbers in this report. Detailed results, including weather conditions, and graphical presentations are presented in Appendix I.

| Station | Monitoring Date | Monitoring Result (μg/m³) | Action/Limit Levels (μg/m³) | | |
|---------|-----------------|---------------------------|-----------------------------|--|--|
| | | 66 | | | |
| | 02-May-08 | 35 | | | |
| | | 69 | | | |
| | | 65 | | | |
| | 08-May-08 | 84 | | | |
| | | 89 | | | |
| | | 133 | | | |
| | 14-May-08 | 73 | | | |
| ASR 1 | | 112 | 307/500 | | |
| ASICT | | 63 | 307/300 | | |
| | 20-May-08 | 43 | | | |
| | | 49 | | | |
| | | 79 | | | |
| | 26-May-08 | 69 | | | |
| | | 69 | | | |
| | | 143 | | | |
| | 31-May-08 | 106 | | | |
| | | 136 | | | |
| ASR 3 | | 100 | 327/500 | | |
| | 02-May-08 | 44 | | | |
| | | 44 | | | |
| | | 90 | | | |
| | 07-May-08 (1) | 48 | | | |
| | | 75 | | | |
| | | Voided (2) | | | |
| | 13-May-08 | 66 | | | |
| | | 57 | | | |
| | | 20 | | | |
| | 21-May-08 (3) | 52 | | | |
| | | 66 | | | |



| Station | Monitoring Date | Monitoring Result (μg/m³) | Action/Limit Levels (μg/m³) |
|---------|-----------------|---------------------------|-----------------------------|
| | | 113 | |
| | 30-May-08 (4) | 156 | |
| | | 141 | |
| | | 112 | |
| | 31-May-08 | Voided (5) | |
| | | 155 | |
| | | 47 | |
| | 02-May-08 | 55 | |
| | | 45 | |
| | | 66 | |
| | 08-May-08 | 131 | |
| | | 83 | |
| | | 248 | |
| | 14-May-08 | 197 | |
| ACD 0 | | 158 | 227/500 |
| ASR 8 | | 36 | 337/500 |
| | 20-May-08 | 30 | |
| | | 27 | |
| | | 95 |] |
| | 26-May-08 | 88 | |
| | | 9 | |
| | | 114 | |
| | 31-May-08 | 64 | |
| | | 100 | |
| | | 8 | |
| | 02-May-08 | 55 | |
| | | 41 | |
| | | 105 | |
| | 08-May-08 | 70 | |
| | | 101 | |
| | | 62 | |
| | 14-May-08 | 168 | |
| ACDO | | 127 | 320/500 |
| ASR 9 | | 99 | 329/500 |
| | 20-May-08 | 62 | |
| | | 65 | |
| | | 68 | |
| | 26-May-08 | 44 | |
| | | 47 | |
| | | _ (6) | |
| | 31-May-08 | _ (6) | |
| | | _ (6) | |



Note:

- (1) As the temple was inaccessible on 08 May, the measurement was set on 07 May
- (2) The first measurement was void as there is no weight difference between the initial and final weight of filter paper
- (3) As the temple was inaccessible on 20 May, the measurement was set on 21 May
- (4) The monitoring was originally scheduled on 26 May but was postponed to 30 May because the temple was inaccessible from 26 29 May
- (5) The second measurement was void as the final weight was greater than the initial weight of filter paper
- (6) No result was recorded on 31 May due to power failure at ASR9

Table 4-1 Air Quality Monitoring Results

No exceedances of 1-hr TSP Action / Limit Level were recorded during the reporting month.

4.2 Noise

The noise monitoring schedule of the reporting period is given in Appendix H. Results of measured noise level, in terms of $L_{eq(30min)}$, during the construction are shown in Table 4-2. Detailed results, including weather conditions and graphical presentation are presented in Appendix I.

| Station | Monitoring Date | Leq (30 min) dB(A) | Limit Levels dB(A) | L ₁₀ dB(A) | L ₉₀ dB(A) |
|---------|-----------------|--------------------|--------------------|-----------------------|-----------------------|
| | 2-May-08 | 62 | | 64 | 60 |
| | 8-May-08 | 65 | | 69 | 63 |
| NSR 1 | 14-May-08 | 65 | 70 | 68 | 62 |
| | 20-May-08 | 67 | | 69 | 66 |
| | 26-May-08 | 70 | | 72 | 68 |
| | 2-May-08 | 60 | 75 | 63 | 58 |
| | 8-May-08 | 60 | | 62 | 57 |
| NSR 3 | 14-May-08 (1) | - | | - | - |
| | 20-May-08 (2) | - | | - | - |
| | 26-May-08 (2) | - | | - | - |
| | 2-May-08 | 62 | | 64 | 59 |
| | 8-May-08 | 64 | | 65 | 61 |
| NSR 6 | 14-May-08 | 63 | | 64 | 60 |
| | 20-May-08 (2) | - | | - | - |
| | 26-May-08 (2) | - | | - | - |
| | 2-May-08 | 64 | | 66 | 61 |
| | 8-May-08 | 61 | | 63 | 58 |
| NSR 8 | 14-May-08 | 60 | | 61 | 58 |
| | 20-May-08 (2) | - | | - | - |
| | 26-May-08 (2) | - |] Γ | - | - |
| NSR 9 | 2-May-08 | 66 |] Γ | 68 | 62 |
| | 8-May-08 | 67 | | 70 | 62 |
| | 14-May-08 | 64 | | 67 | 61 |

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| Co | me | | 100 |
|----|-------|-----|-----|
| | וכווי | ulu | 112 |

| Station | Monitoring Date | Leq (30 min) dB(A) | Limit Levels dB(A) | L ₁₀ dB(A) | L ₉₀ dB(A) |
|---------|-----------------|--------------------|--------------------|-----------------------|-----------------------|
| | 20-May-08 (2) | - | | - | - |
| | 26-May-08 (2) | - | | - | - |

Note:

- (1) No result was recorded on 14 May as the NSR was inaccessible.
- (2) No result was recorded on 20 and 26 May due to the bad weather.

Table 4-2 Noise Monitoring Results

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

4.3 Water Quality Monitoring

The water quality monitoring schedule of the reporting period is given in Appendix H. Results of measured water quality parameters during the reporting month are shown in Table 4-3.

Two limit levels exceedances of DO were recorded at I-1-C on 7 May 2008 and I-2-C on 9 May 2008. Three limit levels exceedances of SS were recorded at I-1-C on 23 and 26 May 2008 and at I-3 on 26 May 2008 respectively during the reporting month. However these exceedances at I-1-C, I-2-C and I-3 were caused by natural fluctuation and were not related to the Project's construction activities since no construction activities were undertaken on the scheduled monitoring dates above.

Detailed results, including weather conditions, and graphical presentations are presented in Appendix I.

Interim Notifications of Environmental Quality Limits Exceedances is summarized in Appendix J.



| Station | Date | Temperature | DO (mg/L) | Action/Limit Level for DO (mg/L) | рН | Turbidity (NTU) | Action/Limit Level for Turbidity (NTU) | SS (mg/L) | Action/Limit Level for SS (mg/L) |
|-----------|-----------|-------------------------|-----------|----------------------------------|------|--------------------|--|-----------|----------------------------------|
| I-1 | 7-May-08 | 26.35 | 3.68 | 3.42 / 3.34 | 8.13 | 2.54 | 9.75 / 12.47 | 1.50 | 8.85 / 10.17 |
| | 9-May-08 | 25.60 | 3.51 | | 8.27 | 4.23 | | 2.50 | |
| | 13-May-08 | 26.30 | 4.05 | | 8.05 | 4.05 | | 1.50 | |
| | 15-May-08 | 26.65 | 5.65 | | 8.04 | 4.04 | 1 | 4.00 | |
| | 17-May-08 | 20.75 | 5.79 | | 8.00 | 5.60 | 1 | 7.00 | |
| | 19-May-08 | - | - | | - | - | | - | |
| | 21-May-08 | 27.55 | 5.38 | | 7.28 | 8.48 | 1 | 1.50 | |
| | 23-May-08 | 26.00 | 6.08 | | 7.98 | 7.07 | 1 | 8.00 | |
| | 26-May-08 | 22.35 | 5.71 | | 7.97 | 4.87 | 1 | 5.00 | |
| | 28-May-08 | - | - | | - | - | | - | |
| | 30-May-08 | - | - | | - | - | | - | |
| I-1C | 7-May-08 | 26.05 | 3.47 | 3.76 / 3.71 | 8.02 | 2.51 | 10.88 / 12.95 | 1.00 | 6.68 / 7.34 |
| | 9-May-08 | 25.95 | 3.97 | | 8.12 | 4.96 | | 6.00 | |
| | 13-May-08 | 26.55 | 3.89 | | 8.11 | 3.81 | | 1.50 | |
| | 15-May-08 | 26.55 | 6.02 | | 7.98 | 3.64 | | 3.50 | |
| | 17-May-08 | 21.00 | 5.92 | | 7.90 | 5.70 | | 4.50 | |
| | 19-May-08 | - | - | | - | - | | - | |
| | 21-May-08 | 27.80 | 5.43 | | 7.72 | 8.01 | | 2.00 | 1 |
| | 23-May-08 | 08 24.95 5.92 7.70 7.20 |] | 7.50 | | | | | |
| 26-May-08 | 26-May-08 | 23.25 | 5.78 | | 7.90 | 5.06 | 1 | 13.00 | |
| | 28-May-08 | - | - | | - | - |] | - | |
| | 30-May-08 | - | - | | - | - | | - | |



Consulting

| Station | Date | Temperature | DO (mg/L) | Action/Limit Level for DO (mg/L) | рН | Turbidity (NTU) | Action/Limit Level for Turbidity (NTU) | SS (mg/L) | Action/Limit Level for SS (mg/L) |
|---------|-----------|-------------|-----------|----------------------------------|------|--------------------|--|-----------|----------------------------------|
| I-2 | 7-May-08 | 26.00 | 4.84 | 3.66 / 3.63 | 7.96 | 2.80 | 6.63 / 6.99 | 1.00 | 7.68 / 8.34 |
| | 9-May-08 | 25.30 | 4.21 | | 8.06 | 2.99 | | 2.50 | |
| | 13-May-08 | 26.65 | 4.37 | | 7.96 | 3.19 | | 1.50 | |
| | 15-May-08 | 25.75 | 5.27 | | 7.97 | 3.70 | | 1.50 | |
| | 17-May-08 | 19.95 | 6.26 | | 7.52 | 4.41 | | 3.50 | |
| | 19-May-08 | - | - | | - | - | | - | |
| | 21-May-08 | 27.05 | 4.57 | | 7.90 | 5.98 | | 1.50 | |
| | 23-May-08 | 25.05 | 6.94 | | 7.80 | 3.09 | | 3.00 | |
| | 26-May-08 | 23.00 | 4.96 | | 7.91 | 4.76 | | 4.00 | |
| | 28-May-08 | - | - | | - | - | | - | |
| | 30-May-08 | - | - | | - | - | | - | |
| I-2-C | 7-May-08 | 25.65 | 5.13 | 3.83 / 3.67 | 7.86 | 2.59 | 6.73 / 8.27 | 1.00 | 6.98 / 9.4 |
| | 9-May-08 | 25.05 | 3.30 | | 7.97 | 3.30 | | 2.50 | |
| | 13-May-08 | 26.30 | 4.42 | | 8.01 | 2.45 | | 2.00 | |
| | 15-May-08 | 25.25 | 5.64 | | 7.93 | 3.18 | | 1.50 | - - - |
| | 17-May-08 | 19.90 | 6.36 | | 7.65 | 4.63 | | 3.50 | |
| | 19-May-08 | - | - | | - | - | | - | |
| | 21-May-08 | 25.70 | 4.75 | | 7.90 | 5.77 | | 1.00 | |
| | 23-May-08 | 24.95 | 7.19 | | 7.35 | 3.11 | | 1.00 | |
| | 26-May-08 | 22.75 | 4.95 | | 7.92 | 4.79 | | 1.50 | |
| | 28-May-08 | - | - | | - | - | | - | |
| | 30-May-08 | - | - | | - | - |] | - | |
| I-3 | 7-May-08 | 25.75 | 4.86 | 3.65 / 3.51 | 7.91 | 2.41 | 3.99 / 4.18 | 2.00 | 6.13 / 7.23 |
| | 9-May-08 | 25.30 | 4.88 | | 8.05 | 2.05 | | 1.50 | |
| | 13-May-08 | 26.25 | 4.80 | | 7.97 | 2.08 | | 1.00 | 1 |



| Station | Date | Temperature | DO (mg/L) | Action/Limit Level for DO (mg/L) | рН | Turbidity (NTU) | Action/Limit Level for Turbidity (NTU) | SS (mg/L) | Action/Limit Level for SS (mg/L) |
|---------|-----------|-------------|-----------|----------------------------------|------|--------------------|--|-----------|----------------------------------|
| | 15-May-08 | 25.95 | 6.24 | | 8.03 | 1.89 | | 1.00 | |
| | 17-May-08 | 19.70 | 7.60 | | 7.91 | 3.10 | 1 | 2.00 | |
| | 19-May-08 | - | - | | - | - | | - | |
| | 21-May-08 | 25.00 | 6.40 | | 7.75 | 3.21 | | 1.00 | |
| | 23-May-08 | 20.45 | 6.75 | | 7.60 | 1.69 | | 1.00 | |
| | 26-May-08 | 19.95 | 5.05 | | 7.91 | 2.97 | | 9.50 | |
| | 28-May-08 | - | - | | - | - | | - | |
| | 30-May-08 | - | - | | - | - | | - | |
| I-3-C | 7-May-08 | 25.35 | 4.39 | 3.63 / 3.62 | 7.86 | 2.20 | 4.28 / 5.06 | 2.00 | 5.73 / 5.95 |
| | 9-May-08 | 25.65 | 4.30 | | 8.11 | 1.81 | | 1.00 | |
| | 13-May-08 | 25.90 | 4.55 | | 7.92 | 1.94 | | 1.00 | |
| | 15-May-08 | 26.40 | 5.86 | | 8.11 | 2.18 | | 1.00 | |
| | 17-May-08 | 19.35 | 6.81 | | 7.96 | 2.81 | | 1.00 | |
| | 19-May-08 | - | - | | - | - | | - | |
| | 21-May-08 | 26.90 | 6.47 | | 7.89 | 2.87 | | 1.50 | |
| | 23-May-08 | 20.95 | 7.04 | | 7.61 | 1.72 | | 1.00 | |
| | 26-May-08 | 19.95 | 4.99 | | 7.93 | 2.95 | | 4.00 | |
| | 28-May-08 | - | - | | - | - | | - | |
| | 30-May-08 | - | - | | - | - | | - | |

Note:

- 1. Italic indicates the occurrence of exceedance of action level.
- 2. Bold indicates the occurrence of exceedance of limit level.
- 3. No monitoring was undertaken on 19, 28 and 30 May 2008 due to bad weather condition.

Table 4-3 Water Quality Monitoring Results



4.4 Summary of Exceedances

Table 4-4 summarises the exceedance results recorded in May 2008.

| Environmental Monitoring | Total No. of Measurement | Action Level Exceedance | % of Action Level Exceedance | Limit Level Exceedance | % of Limit Level Exceedance |
|-----------------------------|-----------------------------|----------------------------|------------------------------------|---------------------------|--------------------------------|
| Air Quality | 45 | 0 | 0 | 0 | 0 |
| Noise | 16 | 0 | 0 | 0 | 0 |
| Water | 8 | 0 | 0 | 0 | 0 |

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

Table 4-4 Summary of Exceedances

5 WASTE MANAGEMENT

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) | Nil |
| Inert C&D Material Reused in the Contract (m³) | 70 |
| Metals Generated (kg) | Nil |
| Paper / Cardboard Packaging (kg) | 100 |
| Plastics (kg) | Nil |
| Chemical Waste (kg) | Nil |
| General Waste Disposed of to NENT Landfill (m³) | 19.435 |

Table 5-1 Waste Generated in May 2008

6 NON-COMPLIANCE AND DEFICIENCY

6.1 Site Audit by ET

ET carried out two bi-weekly 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.



Consulting

| Inspection Date | Observation | Recommendation | Status |
|--|---|---|---|
| 18 April 2008 Follow up observations | Stagnant water was observed in U-channel at location H-I. General refuse was found in outfall. Dust was generated at location portion-I. | The Contractor was required to remove the stagnant water. The Contractor was required to clear the general refuse. The Contractor was reminded to provide water spraying more frequently. | 1. During the site inspection on 5 May 2008, stagnant water was still observed in U-channel. Contractor informed that the removal of stagnant water had been done on 6 May 2008. During the site inspection on 23 May 2008, stagnant water was found removed. (Closed) 2. During the site inspection on 5 May 2008, general refuse was still found. Contractor informed the removal of refuse has been done on 6 May 2008. During the site inspection on 23 May 2008, those refuse was found removed. (Closed) 3. During the site inspection on 5 May 2008, the condition is improved. (Closed) |
| 5 May 2008 | Stagnant water was observed from airconditioner at location H-I. Drinking water at location H-I was not covered. Water leakage was observed at location H-I. General refuse was found in steel container at location H-I. | 1. The Contractor was reminded to fix the problem. 2. The Contractor was reminded to cover the drinking water immediately. 3. The Contractor was reminded to remove the leakage and maintain the water pipe in good condition. 4. The Contractor was reminded to remove the refuse or dispose it in a proper container. | During the site inspection on 23 May 2008, water from airconditioner was collected and removed regularly. (Closed) During the site inspection on 23 May 2008, drinking water was properly covered. (Closed) During the site inspection on 23 May 2008, leakage from water pipe was removed and the water pipe was fixed. (Closed) During the site inspection on 23 May 2008, refuse is properly disposed in the general refuse container. (Closed) |
| 23 May 2008 | Stagnant water was found in U-channel at location H-I. Excavated soil was observed at location H-I. FEP was not displayed at all sites. Stagnant water was found in drip tray of generator at location I-3. Unauthorised cutting of retaining tree was found at location I-1. | The Contractor was reminded to remove the water immediately. The Contractor was reminded to remove the soil or cover it properly. The Contractor was reminded to display the FEP at all sites immediately. The Contractor was reminded to remove the water in drip tray. The Contractor was reminded to stop the works at once. | The outstanding observation would be followed up in next month inspection. (Outstanding) |

Table 6-1 Site Inspection by ET

June 2008



7 COMPLAINT

No complaints were received during the reporting month. Cumulative statistics of environmental complaints are shown in Table 7-1.

| Complaints Received in the Reporting Month | Cumulative Number of Complaints | | |
|--|--|--|--|
| 0 | 0 | | |

Table 7-1 Cumulative Statistic of Environmental Complaint

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

No summons and successful prosecutions were received during the reporting month.

Cumulative statistics of Notification of Summon, Successful Prosecutions and Convictions are shown in Table 8-1.

| Notificatio | n of Summons | Successful Prosecution | | | |
|-------------|--------------|------------------------|------------|--|--|
| May 08 | Cumulative | May 08 | Cumulative | | |
| 0 | 0 | 0 | 0 | | |

Table 8-1 Cumulative Statistics of notification of summons and successful prosecutions

9 FUTURE KEY ISSUE

The forecast of construction works for the upcoming three months are:

- Site clearance;
- Hoarding & fencing erection;
- Trees survey & transplanting;
- Slope stabilization;
- Site office formation; and
- Pre-construction survey.

An alternative monitoring location was proposed to the Contractor on 21 May 2008 to replace the air quality and noise monitoring location at Intake 2 due to its inaccessibility. Relocation of monitoring location is upon confirmation from DSD.

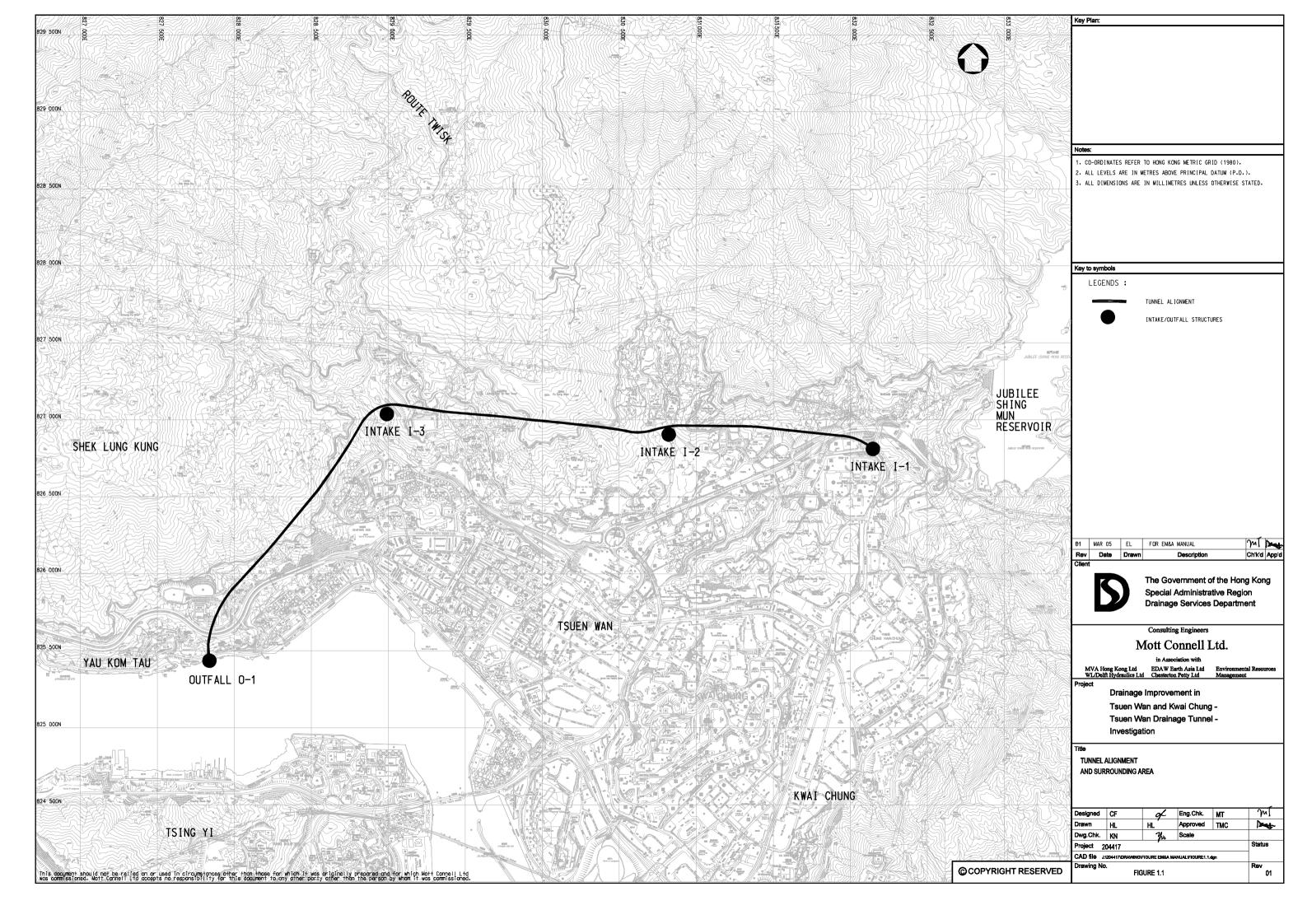


The EM&A schedule for the next three months is presented in Appendix H. The monitoring events will be the same as this month and can be referred to the methodology for air quality, noise and water quality in Section 3 of this report.



Appendix A

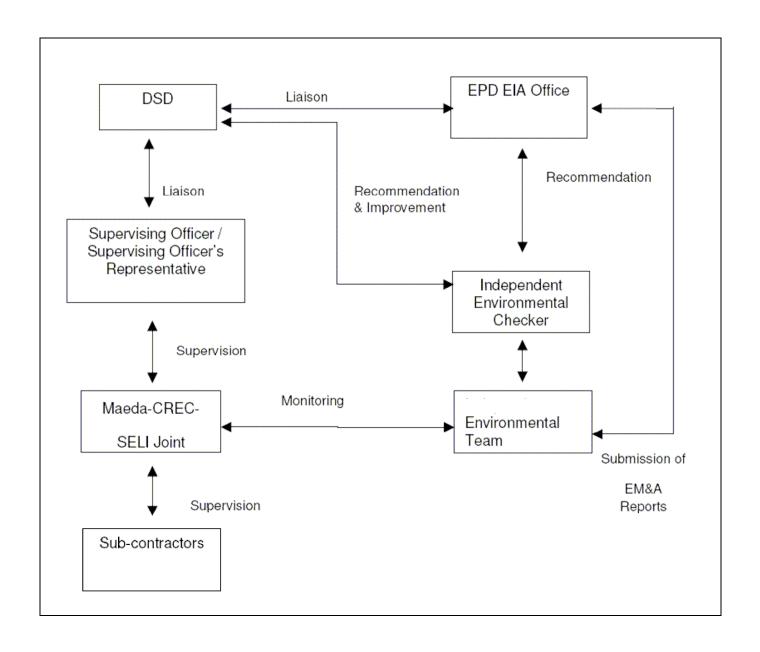
Site Map and Works Area





Appendix B

Organization Chart



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Appendix C

Construction Programme

| Preliminaries | Start, Finish (D. Front Da | FM AMBOLA (SOUND STEM AN AN ASSOCIATION DATE MANAGEMENT OF THE MAN |
|--|--|--|
| 01R0000002 Tender Issue Date 0 01R0000004 Tender Closing Date 0 01R0000006 Letter of Acceptance Issued Date 0 01R0000008 Contract Commencement Date 0 | 0 | • |
| Completion of Section 1 of the Works Completion of Section 2 of the Works Completion of Section 3 of the Works | 27JUL11* 2 0 714 27JUL11* 2 0 27JUL11* 2 0 | days after LOA 1308 days from DOC including DOC◆ 1308 days from DOC including DOC◆ 1308 days from DOC including DOC◆ |
| 01R0000016 Completion of Section 4 of the Works 0 01R0000018 Completion of Section 5 of the Works 0 01R0000020 Completion of Section 6 of the Works 0 01R0000022 Completion of Section 7 of the Works 0 | 0 0 0 0 | including including including |
| <u> </u> | 26MAR08 2 0 | n. |
| | 26MAR08 2 0 26MAR08 2 0 26MAR08 2 11 26MAR08 2 0 28DEC07 2 0 | |
| 01R00E0102 Possession of Portion E - 650d of DOC 0 01R00E0102 Possession of Portion E - 650d of DOC 0 01R00E0104 Handover of Portion E 0 01R00F0102 Possession of Portion F on DOC 0 01R00G0104 Handover of Portion G 0 01R00G0104 Handover of Portion G 0 | 4 4 61 70 | |
| 01R0010102 Possession of Portion I on DOC 0 01R0010104 Handover of Portion I 0 01R00J0102 Possession of Portion J 0 01R00J0104 Handover of Portion J 0 01R00H10102 Possession of Portion H1 on DOC 0 | 2 2 2 2 2 | The exact date to be agreed with WSD WSD Tunnel ShutdownER 4.2.10 (6) allows 50 days from the date of |
| Start Date 24SEP12 Finish Date 24SEP12 Data Date 14DEC07 Recommended Bar 14DEC | TWD1 Maeda-CREC-SELI JV CONTRACT NO. DC/2007/12 Design and Construction of Tsuen Wan Drainage Tunnel Draft Works Programme | Sheet 1 of 42 Sheet 1 of 42 13FE038 Revision 1 Revision Checked Approved not |

| | 2 0 | 24SEP12 | 26AUG12 | 30 | Demolish & removal of Contractor's main office | 01R0001408 |
|--|--------------|-----------|---------------|-------|--|--------------|
| | - 0 | 2541612 | 154 PRO8 | 4 504 | Maintain & Service the Contractor's office | 01 10001404 |
| . 3 | | ├ | 28DEC07 | 30 | | 01R0001402 |
| | | 1 | | | | |
| | 2 0 | 24SEP12 | 26AUG12 | 30 | Demolish & removal of Principle Office | 01R0000320 |
| | 2 0 | | 1 | 1,673 | - 1 | 01R0000319 |
| | 2 0 | 25A | | 1,688 | ! | 01R0000318 |
| | 2 0 | 25AI | | 1,585 | 1 | 01R0000316 |
| | 2 0 | 25AUG12 | <u> </u> | 1,594 | . Į | 01R0000314 |
| Eswithin 1 month of DOC | 2 0 | | | 30 | Provide survey equipments as per App. ER,M | 01R0000311 |
| ER 12.4; 3 nos. vehicles within 14 days of DOC2 nos. vehicles after 3 months of DOC | 2 0 | 26MAR08 | 28DEC07 | 06 | Provide transport for the SO as per App. ER,M | 01R0000310 |
| Extension more than 2 months after the instruction | 2 0 | 16MAY08 | 14MAR08 | 94 | Provide secondary offices, directed by SO | 01 R00000308 |
| Fermily the satisfaction of the SO | 1 | 14APR08 | 28JAN08 | 8 | Erect SO's principle office in Portion H1/H2 | 01R0000306 |
| <u>.</u> | 1 | 11MAR08 | 28JAN08 | 35 | 5 Erect Hoarding/Signboard/Gate/Fencing | 01R0000305 |
| To the satisfaction of SOsubmit detailed proposal within 3 weeks of LOA | 2 | 26JAN08 | 28DEC07 | 8 | Design the SO's principle office | 01R0000304 |
| to the satisfaction of the SO ER 12.3.1 refers | 2 1 | 03JAN08 | 28DEC07 | 7 | Provide temporary accommodation | 01R0000302 |
| | | | | | ensilitation de Stores pellegale | |
| | , 2 , 0 | 25AUG12 | 27JUL12 | 30 | 3 S7-Maintenance Period (30 days) | 01R7000228 |
| Variable of the second | 2 0 | : 26JUL12 | ,673 28DEC07 | 1,673 | S7-Ladscape softworks & establishment works | 01R7000226 |
| Command annual for the control of th | 2 0 | 25JUL12 | 27JUL11 | 365 | 4 S6-Maintenance Period (365 days) | 01R60G0224 |
| Control of the Contro | 2 0 | 26JUL11 | 26NOV09 | 909 | 2 S6-Works within Portion G | 01R60G0222 |
| Comparation of the Comparation o | 2 0 | 26JUL12 | 28JUL11 | 365 | 0 S5-Maintenance Period (365 days) | 01R50D0220 |
| | 2 | 27JUL11 | 1,308 28DEC07 | 1,308 | 8 S5-Slope Stabilization works within Portion D | 01R50D0218 |
| The control of the co | | 25JUL12 | | 365 | 6 S4-Maintenance Period (365 days) | 01R40C0216 |
| | 2 0 | 26JUL11 | 26MAR08 | 1,218 | 4 S4-Slope Stabilization works within Portion C | 01R40C0214 |
| The Control of the Co | ļ | 25. | | 365 | 2 S3-Maintenance Period (365 days) | 01R30B0212 |
| | 2 0 | 26JUL11 | 26MAR08 | 1,218 | 0 S3-Stope Stabilization works within Portion B | 01R30B0210 |
| | 2 | 25 | 27JUL11 | 365 | | 01R20A0208 |
| | <u> </u> | 26 | 1,218 26MAR08 | 1,218 | 6 S2-Slope Stabilization works within Portion A | 01R20A0206 |
| | ļ | 26JUL12 | 28JUL11 | 365 | 4 S1-Maintenance Period (365 days) | 01R1000204 |
| | 2 0 | 27JUL11 | 28DEC07 | 1,308 | S1-Works in Portions A to F except works in S2-7 | 01R1000202 |
| | | | | | | |
| | 2 0 | 24SEP12 | | 0 | 4 Handover of Portion H2 | 01R0H20104 |
| | 2 0 | | 22OCT08 | 0 | | 0130H20102 |
| TO THE WAY THE WAY THE WAY THE WAY THE WAY THE WAY TO SHE WAY THE WAY | 2 | 24SEP12 | | 0 | Handover of Portion H1 | 01R0H10104 |
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| Safety Plan as par 500 thin | | Commence of the Commence of th |
| ON DOMANDO ON THE STATE OF THE | | |
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| | 1,682 18JAN08 25At | |
| 17/H0000602 Fulfill all relevant safety obligation | 1,703 28DEC07 25AUG12 2 0 Company of the company of | |
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| 101 HOUDO/04 SUbmit documents for all insurances are effected | 3d 21 14DEC07 03JAN08 2 0 Pas per SCC9 SCC10 8 SCC45 | |
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| 01R0000808 Maintain & update Quality System | 0 | dy themselves to describe |
| EarVile Unitem | | |
| 01R0000902 Nominate Environmental Officer | 14 14PEC07 97PEC07 0 PEC B 1 CL | |
| | 140EC07 03 IANDS 2 0 | |
| 01R0000904 Submit draft EMP | 14DEC07 03.IAN08 2 0 | |
| 01R0000906 Revise draft EMP within 7 days of SO's notice | 04JAN08 17JAN08 2 | |
| 01R0000908 Submit final version of EMP | 14DEC07 27JAN08 2 0 Mas ne | |
| 01R0000910 Review/update/submit EMP monthly | 2 28JAN08 26JUL12 2 0 | |
| | 03JAN08 2 | Owner control or and a second |
| 01R0000914 Submit Baseline Monitoring Plan | 28DEC07 17JAN08 2 0 | • |
| 01R0000915 Seek for EPD's Agreement on WQML & schedule | 21 18JAN08 07FEB08 2 0 F | |
| - 1 | - | |
| | 20 27FEB08 17MAR08 2 0 Efer approval of the SO | : 1 |
| - 1 | 1,592 18MAR08 26JUL12 2 0 | |
| 17R0000902 Fulfill all relevant environmental obligation | 1,673 28DEC07 26JUL12 2 0 | |
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| Excavation Permittuililles per Societ & Societa | | 5152535455565768596061626364656 |
| 01R0001002 Nominate IIUMS co-ordinator | O the nor COO3 willish 7 March 16 OA 15 | |
| | 21DEC07 03JAN08 2 2 | |
| 01R0001006 Submit brand name of UGS detection equipment | 28DEC07 03JAN08 2 | |
| | 24JAN08 2 22 | |
| - 1 | 2 | |
| li | | |
| 01R0001014 Process XP Application by HYD & others | 20 01FEB08 20FEB08 2 22 EFR.B11.18A3(1); not less than 17 working days | |
| 01R0001016 ssue of XP | 20FEB08 2 22 | |
| ARCECONSTRUCTION SOLICITION STUNGY | | |
| 1 | | · |
| | 28DEC07 26JAN08 2 4 3as per ER. | |
| | 28DEC07 26JA | |
| | 28JAN08 28AP | |
| 01R0001108 Prepare/submit reports for pre-construction C.S. | 72 O5FEB08 07MAY08 1 3 HERREDDA Submissión | |
| Traffic | | |
| 01R0001202 Appoint Traffic Consultant/Traffic Engineer | 14 14DECO7 27DECO7 2 7 B | |
| 01R0001204 Eng's Approval of Traffic Consultant | 28DEC07 03JA | |
| 01R0001206 Prepare/submit TTA Schemes (ingress & egress) | 17.1AND8 | |
| | 18.1ANOS OZEFEDS | |
| 01R0001234 Approval of TTA schemes by the Authorities | 08FEB08 06MAR08 2 7 | |
| Mark gernenkon Subesonn dorok as per Soc 44 | | |
| | A SAME AND | |
| 01R0001302 Submit a Sub-contractor Management Plan | 30 14DEC07 12JAN08 2 0 Fwithin 30 days of LOA | |
| 01R0001304 Submit Quarterly the Updated SMP | 1,597 12APR08 25AUG12 2 0 | 5 Jedanson Company Com |
| Theese | | |
| 01B0001502 Annoint Landscane Specialist Contractor | 14 14DECAT 27DECAT 2 000 8 | |
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|--|--|--|
| 01R0001944 Produce 2 documentary video for tunnel | 28JUL11 26AUG11 2 | Marked 25 per EH4.4.12 |
| 01R0002202 Prepare/submit preliminary CRA 01R0002204 SO's acceptance of preliminary CRA 01R0002208 Prepare/submit detailed CRA 01R0002208 SO's acceptance of detailed CRA 01R0002208 SO's acceptance of detailed CRA | 366 14DEC07 13DEC08 2 9 420 08MARIOB 01MAY09 2 9 418 20APR08 11JUN09 2 9 455 28JUN08 25SEP09 2 9 6 7 6 6 7 6 7 6 7 6 7 7 6 7 | Sslon ©DDA submission |
| 01R0002302 Prepare/submit a physical model as per ER 4.4.8 01R0002304 Prepare/submit a 3-D animation model | 90 14DEC07 12MAR08 2 0 TENTRO TO TENTRO TO TENTRO TO THE SO TENTRO TO TENTRO TENTRO TO TENTRO TENTR | s per ER's Note 4.4.9 |

| Description | Dur Sian | Finish ID Float | RIVIEMAMI JERAISION DELIEMAMINETA SON DELIEMAMINETA SON DELIEMAMINETA SON DELIEMAMINETA SON DELIEMAMINETA SON DELIEMAMINETA SONO DELIEMAMINETA SON |
|--|---------------|-------------------|--|
| 01R0002402 Propose the design of web page | 30 28DEC07 | 7 26JAN08 2 0 | Ewithin 1 month from DOC |
| 01R0002404 Produce the web page for approval of SO | 30 27JAN08 | 1 25FEB08 2 0 | within 2 months from DOC |
| | 30 26FEB08 | 3 26MAR08 2 0 | |
| 01R0002408 Submit updated web pages monthly | 1,613 27MAR08 | 3 25AUG12 2 0 | |
| รางโรงแบล เกิดและเจกเลยเกิดสามารถเกิดสามารถเกิดสามารถเกิดสามารถเกิดสามารถเกิดสามารถเกิดสามารถเกิดสามารถเกิดสาม | | | |
| 01R0002501 1R 1; On provision of SO's Accommodation | 0 | 14APR08 2 1.624 | • accommodation for accupation as per App FR M |
| 01-70002502 1R 2; On providing documents of effected CWI | 0 | | ♦ care |
| Ī 7 | 0 | 03JAN08 2 1,726 | _ <u>`</u> |
| | 0 | 03JAN08 2 1,726 | _ |
| Ţ | 0 | 26MAR08 : 2 1,643 | eland transpoert delivered for use of the SO |
| | О | 14APR08 2 1,624 | Computer facilities for use of the SO |
| - 1 | 0 | 25SEP09 2 1,095 | Adetailed CRA incl. pre-cqndition survey |
| - 1 | 0 | 12MAR08 2 11,657 | ◆physical model completed as per ER 4.4.8 |
| 01R0002509 ;1R 9; On acceptance of 3-D Animation Model | 0 | 12MAR08 2 1,657 | ◆3.D animation model completed as per ER 4.4.9 |
| 01R0002510 1R 10; On satisf. operation of CCTV for 3 mth | 0 | 31JUL08 2 1,516 | ◆for 3 mit is of the remote CCTV intalled in Portions A B C & D as per ER 4.4 10. |
| 01R0002511 1R 11; On acceptance of O&MM | 0 | 300CT11 2 330 | O&MM completed as per ER 4.4.11◆ |
| | 0 | 250CT11 2 335 | built drwgs. completed as per ER 4.4.12 |
| | 0 | 26AUG11 2 395 | tunnel report & vedeo & brother submitted as per ER 4.4.13 |
| | 0 | 27MAR08 2 1,582 | of all obligations by this C.S. 3-mths from DOC |
| İ | 0 | | of all obligations by this CS 6 riths from DOC |
| Ť | 0 | 25SEP08 2 1,400 | ◆of all obligations by this CS 9 mths from DOC |
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| | 0 | 27MAR09 2 1,217 | of all obligations by this CS 15 mths rm DOC |
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| - " | 0 | 26DEC10 2 578 | of all obligations by this CS 36 mths frm DQC |
| | 0 | 27MAR11 2 487 | of all obligations by this CS 39 mths frm DOC♣ |
| | 0 | 26JUN11 2 396 | of all obligations by this CS 42 mths frm DOC. |
| 1 | 0 | 25SEP11 2 305 | of all obligations by this CS 45 mths frm DOC. |
| | 0 | 13AUG11 2 408 | of completion except Section 7.◆ |
| | 0 | 26OCT11 2 334 | of all obligations 3 mths frm DOM excl. Sec. 7. |
| | 0 | 25JAN12 2 243 | of all obligations 6 mths frm DOM excl. Sec. 7 |
| | 0 | 25APR12 2 152 | of all obligations 9 miths frm DOM excl. Sec. 7. |
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| UZL.1UDU114 Approval of Design Checker by the SO | 28 11JAN08 07FEB08 : 2 1 |
| glandage and some segment of the segment of | |
| Temp. Access Rd Design at P. D; +14mPD to +69mPD | |
| | 14 17JAN08 30JAN08 2 2 8 |
| 02L1DD0104 Design certification by the Design Checker | 14 01FEB08 14FEB08 2 1 8 |
| 02L1DD0106 Design submission for the SO's approval | 1 15FEB08 15FEB08 1 |
| 02L1DD0108 Design review by the SO | 28 16FEB08 14MAR08 2 2 E |
| 02L1DD0110 Obtain design approval from the SO | 0 14MAR08 2 2 + |
| Boulder Assessment & Design for Stabili. Measure | |
| 02L1DD0302 Design preparation for the AIP submission | 15 31JAN08 14FEB08 2 3 B |
| 02L1DD0304 Design (AIP) certification by the Design Checker | 14 15FEB08 28FEB08 2 19 % |
| 02L:1DD0306 Design (AIP) submission for the SO's approval | 1 29FEB08 1 16 |
| 02L1DD0308 Design (AIP) review by the SO | 14 01MAR08 14MAR08 2 19 E |
| 02L1DD0310 Obtain design (AIP) approval from the SO | 0 14WAR08 2 19 |
| 0CL1DD0312 AIP submission for rel. authorities' approval | 1 15MAR08 15MAR08 1 13 |
| 02L1DD0314 Design (AIP) review by the rel. authorities | 28 16MAR08 12APR08 2 20 🖾 |
| 02L1DD0316 Obtain ref. authorities's approval for AIP | 1 14APR08 14APR08 1 16 |
| 02L1DD0318 Obtain SO's consent for design (AIP) | |
| 02L1DD0320 Design preparation for the DDA submission | 30 24MAR08 22APR08 2 20 INT. |
| 02L1DD0322 Design (DDA) certification by the Design Checker | 2 |
| 02L1DD0324 Design (DDA) submission for the SO's approval | |
| 02L1DD0326 Design (DDA) review by the SO | 14 08MAY08 21MAY08 2 20 |
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| | 28 23MAY08 19JUN08 2 20 |
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| 02L1DD0336 Obtain SO's consent for design (DDA) | 0 21JUN08 2 20 |
| Site Formation Design; +69mPD to +40mPD | |
| 02L1DD0402 Design preparation for the AIP submission | 14 17JAN08 30JAN08 2 2 F |
| 02L1DD0404 Design (AIP) certification by the Design Checker | 14 27JAN08 09FEB08 2 2 PM |
| 02L1DD0406 Design (AIP) submission for the SO's approval | 1 11FEB08 1 1 |
| 02L1DD0408 Design (AIP) review by the SO | 14 12FEB08 25FEB08 2 1 |
| 02L1DD0410 Obtain design (AIP) approval from the SO | 0 25FEB08 2 1 |
| 02L1DD0412 AIP submission for rel. authorities' approval | 1 26FEB08 26FEB08 1 1 1 |
| 02L1DD0414 Design (AIP) review by the rel. authorities | 12 27FEB08 09MAR08 2 1 H |
| | 1 10MAR08 10MAR08 1 1 |
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| | 14 12MAR08 25MAR08 2 1 |
| 02L1DD0424 Design (DDA) submission for the SO's approval | 1 26MAR08 26MAR08 1 1 |
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| 102L1DD0428 Obtain design (DDA) approval from the SO | 0 09APR08 2 1 |
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| 021.1DD0434 Obtain rel. authorities's approval for DDA | 1 23APR08 23APR08 | PR08 1 1 | |
| 02L1DD0436 Obtain SO's consent for design (DDA) | 0 24AF | PR08 2 1 | |
| Site Formation Design; +40mPD to +24mPD | | | |
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| 02L1DD0524 Design (DDA) submission for the SO's approval | 1 14MAY08 14M | AY08 1 2 | |
| 02L1DD0526 Design (DDA) review by the SO | 14 15MAY08 28MAY08 | 4Y08 2 2 | 382 |
| - 1 | 0 28M | AY08 2 2 | |
| 02L1DD0530 DDA submission for rel. authorities' approval | 1 29MAY08 29M | AY08 1 2 | |
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| 02L1DD0536 Obtain SO's consent for design (DDA) | 217 | JN08 2 3 | |
| Site Formation Design; +24mPD to 14mPD | | | |
| 02L1DD0602 Design preparation for the AIP submission | 14 29FEB08 13MAR08 | 2 | |
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| 02L1DD0624 Design (DDA) submission for the SO's approval | 1 05JUN08 05JU | N08 1 19 | |
| 02L1DD0626 Design (DDA) review by the SO | 14 06JUN08 19JU | N08 2 24 | |
| T. | 0 19JU | JN08 2 24 | • |
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|---|--|---|
| TBM Launching Chamber Design | Managara Ma | 74819505152535455585758598061626364656 |
| 02L1DD0702 Design preparation for the AIP submission | 15 14MAR08 28MAR08 2 36 R | F 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| - 1 | 15 29MAR08 12APR08 2 36 B | |
| , | 1 14APR08 14APR08 1 281 | |
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| 02L1DD0716 Obtain ref. authorities's approval for AiP | 1 13JUN08 13JUN08 1 29 | |
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| 02L1DD0726 Design (DDA) review by the SO | 30 08JUL08 06AUG08 2 35 83 | |
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| | 28 08AUG08 04SEP08 2 35 B | |
| | 1 05SEP08 05SEP08 1 27 | |
| 02L1DD0736 Obtain SO's consent for design (DDA) | 0 06SEP08 2 36 | |
| Hopper Foundation Design | | |
| 02L1DD0802 Design preparation by the Designer | ļ | |
| 3 1 | 15 12JUN08 26JUN08 2 77 | |
| 02L1DD0806 Design submission for the SO's approval | ١., | |
| 02L1DD0808 Design review by the SO | 30 28JUN08 27JUL08 2 77 | |
| 02L1DD0810 Obtain design approval from the SO | 27JUL.08 | |
| Steel Platform & Hopper Design | | |
| - 1 | 30 12JUN08 11JUL08 2 47 | |
| | 15 12JUL08 26JUL08 2 47 R | |
| | 28JUL08 | |
| | 30 29JUL08 27AUG08 2 46 | |
| 02L1DD0910 Obtain design approval from the SO | 0 27AUG08 2 46 | |
| Overhead Gantry Support & Noise Enclosure Design | | |
| 02L1DD1002 Design preparation by the Designer | 30 28APR08 27MAY08 2 47 國 | |
| 02L1DD1004 Design certification by the Design Checker | 15 28MAY08 11JUN08 2 60 | |
| 02L1DD1006 Design submission for the SO's approval | 1 12JUN08 1 50 | |
| 02L1DD1008 Design review by the SO | 30 13JUN08 12JUL08 2 60 | - |
| | 0 12JUL08 2 60 � | |
| | 14JUL08 1 | |
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| 02L1DD1018 Obtain SO's consent for design | 0 13AUG08 2 60 + | |
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| ELS Design for Spiral Ramp & Vehicular Access | | U. I. 41.919.77 191.92 191.78 |
| 02L1DD1102 Design preparation for the AIP submission | 30 29MAR08 27APR08 2 47 | |
| 02L1DD1104 Design (AIP) certification by the Design Checker | 21 28APR08 18MAY08 2 130 | |
| 02L1DD1106 Design (AIP) submission for the SO's approval | 1 19MAY08 19MAY08 1 109 | |
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| - 1 | 0 18JUL08 2 130 | • |
| 02L1DD1112 AIP submission for rel, authorities' approval | 1 19JUL08 19JUL08 1 108 | |
| 02L1DD1114 Design (AIP) review by the rel. authorities | 21 20JUL08 09AUG08 2 130 | to the second se |
| 02L1DD1116 Obtain rel. authorities's approval for AIP | 1 11AUG08 11AUG08 1 108 | |
| 02L1DD1118 Obtain SO's consent for design (AIP) | 0 12AUG08 2 129 | • |
| 02L1DD1120 Design preparation for the DDA submission | 30 21JUL08 19AUG08 2 129 | |
| 02L1DD1122 Design (DDA) certification by the Design Checker | 28 20AUG08 16SEP08 2 129 | |
| 02L1DD1124 Design (DDA) submission for the SO's approval | 1 17SEP08 17SEP08 1 106 | |
| 02L1DD1126 Design (DDA) review by the SO | 60 18SEP08 16NOV08 2 130 | |
| 02L1DD1128 Obtain design (DDA) approval from the SO | 0 16NOV08 2 130 | • |
| 02L1DD1130 DDA submission for rel. authorities' approval | 1 17NOV08 17NOV08 1 106 | |
| 02L1DD1132 Design (DDA) review by the rel. authorities | 28 18NOV08 15DEC08 2 130 | |
| 02L1DD1134 Obtain rel. authorities's approval for DDA | 16DEC08 1 | |
| 02L1DD1136 Obtain SO's consent for design (DDA) | 17DEC08 2 | |
| ELS Design for Box Culvert & Open Channel | | The state of the s |
| 021.10D1202 Design preparation for the AIP submission | 30 12JUL08 10AUG08 2 262 | |
| 02L1DD1204 Design (AIP) certification by the Design Checker | 09SEP08 2 | |
| 02L1DD1206 Design (AIP) submission for the SO's approval | 1 10SEP08 10SEP08 1 209 | |
| 02L1DD1208 Design (AIP) review by the SO | 60 11SEP08 09NOV08 2 263 | |
| 02L1DD1210 Obtain design (AIP) approval from the SO | 0 09NOV08 2 263 | |
| 02L1DD1212 AIP submission for rel. authorities' approval | 1 10NOV08 10NOV08 1 212 | |
| 02L1DD1214 Design (AIP) review by the rel. authorities | 28 11NOV08 08DEC08 2 263 | |
| | | |
| 02L1DD1218 Obtain SO's consent for design (AIP) | 10DEC08 2 | |
| 02L1DD1220 Design preparation for the DDA submission | 30 18NOV08 17DEC08 2 264 | |
| 02L1DD1222 Design (DDA) certification by the Design Checker | 30 18DEC08 16JAN09 2 264 | 8 - |
| 02L1DD1224 Design (DDA) submission for the SO's approval | 1 17JAN09 17JAN09 1 213 | |
| 02L1DD1226 Design (DDA) review by the SO | 2 | |
| 02L1DD1228 Obtain design (DDA) approval from the SO | 2 | |
| 02L1DD1230 DDA submission for ref. authorities' approval | 1 19MAR09 19MAR09 1 215 | |
| 02L1DD1232 Design (DDA) review by the rel. authorities | 28 20MAR09 16APR09 2 264 | |
| 02L1DD1234 Obtain rel. authorities's approval for DDA | 1 17APR09 1 216 | |
| 02L1DD1236 Obtain SO's consent for design (DDA) | 0 18APR09 2 264 | |
| and the many and the many and the second | | |
| Main Tunnel Design | | |
| 02L1FF0102 Design preparation for the AIP submission | 08MA | |
| 02L1FF0104 Design (AIP) certification by the Design Checker | | |
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| Obtain SO's consent for design (AIP) 0 10JUL08 2 105 Design preparation for the DDA submission 30 18JUN08 17JUL08 2 105 Design (DDA) certification by the Design Checker 15 18JUL08 0.7AUG08 2 105 Design (DDA) submission for the SO's approval 45 0.3AUG08 1.8EP08 2 105 Design (DDA) review by the SO's approval from the SO 0 1.7SEP08 1.86 1.86 DDA submission for rel. authorities's approval for DDA 1 1.7SEP08 1.5GCT08 2 105 Design (DDA) review by the rel. authorities's approval for DDA 1 1.6CCT08 1.7CCT08 2 107 Design (DDA) review by the rel. authorities's approval for the AIP submission 30 0.8FEB08 0.8MAR08 2 107 Design preparation for the AIP submission 1 2.5MAR08 2.3MAR08 2 3 Design (AIP) submission for the SO s approval 1 2.5MAR08 2.2MAR08 2 2 Design (AIP) review by the SO 0 2.6MAR08 1. | | | 09JL | 87 | |
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| 02L1FF0314 Design (AIP) review by the rel. authorities | 28 16MAY08 12JUN08 2 3 | |
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| 02L1FF0326 Design (DDA) review by the SO | 50 08JUL08 26AUG08 2 3 | |
| 021.1FF0328 Obtain design (DDA) approval from the SO | 0 26AUG08 2 3 • | |
| 02L1FF0330 DDA submission for rel. authorities' approval | 1 27AUG08 27AUG08 1 3 | |
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| 02L1FF0336 Obtain SO's consent for design (DDA) | 0 26SEP08 2 5 | |
| Impact Assessment on KCRC West Rail Tunnel | | |
| 02L1FF0402 Design preparation for the AIP submission | 30 08APR08 07MAY08 2 190 | |
| 02L1FF0404 Design (AIP) certification by the Design Checker | AY08 | |
| 02L1FF0406 Design (AIP) submission for the SO's approval | 1 23MAY08 23MAY08 1 158 | |
| 02L1FF0408 Design (AIP) review by the SO | 60 24MAY08 22JUL08 2 191 | |
| 02L1FF0410 Obtain design (AIP) approval from the SO | 0 22JUL08 2 191 �� | |
| 02L1FF0412 AIP submission for rel. authorities' approval | ļ | |
| 02L1FF0414 Design (AIP) review by the rel. authorities | 28 24JUL08 20AUG08 2 191 | |
| 02L1FF0416 Obtain rel. authorities's approval for AIP | 21 AUG08 | |
| 02L1FF0418 Obtain SO's consent for design (AIP) | 0 22AUG08 2 192 | |
| 02L1FF0420 Design preparation for the DDA submission | 30 31JUL08 29AUG08 2 192 | |
| 02L1FF0422 Design (DDA) certification by the Design Checker | 15 30AUG08 13SEP08 2 192 | 5 |
| 02L1FF0424 Design (DDA) submission for the SO's approval | 1 16SEP08 16SEP08 1 155 | |
| 102L1FF0426 Design (DDA) review by the SO | 60 17SEP08 15NOV08 2 190 | |
| 102L1FF0428 Obtain design (DDA) approval from the SO | 0 15NOV08 2 190 | |
| 02L1FF0430 DDA submission for rel. authorities' approval | 1 17NOV08 17NOV08 1 150 | |
| 02L1FF0432 Design (DDA) review by the rel. authorities | 28 18NOV08 15DEC08 2 189 | |
| 02L1FF0434 Obtain rel. authorities's approval for DDA | 1 16DEC08 16DEC08 1 149 | |
| 02L1FF0436 Obtain SO's consent for design (DDA) | 0 17DEC08 2 189 | |
| Impact Assessment on WSD Tsuen Wan Reservoir G. | | |
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| 02L1FF0506 Design (AIP) submission for the SO's approval | | |
| 02L1FF0508 Design (AIP) review by the SO | 60 24JUN08 22AUG08 2 250 | |
| 02L1FF0510 Obtain design (AIP) approval from the SO | 0 22AUG08 2 250 | |
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| 02L1FF0514 Design (AIP) review by the rel. authorities | 28 24AUG08 20SEP08 2 251 | |
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| 02L1FF0520 Design preparation for the DDA submission | 30 i 01SEP08 30SEP08 2 251 | |
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| 02L1FF0522 Design (DDA) certification by the Design Checker | 8 150CT08 2 | 000450000100000000000000000000000000000 |
| 02L 1FF0524 Design (DDA) submission for the SO's approval | 1 16OCT08 16OCT08 1 202 | |
| 02L1FF0526 Design (DDA) review by the SO | 60 17OCT08 15DEC08 2 251 | |
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| 02L1AA0110 Obtain design approval from the SO | 0 04APR08 2 29 | |
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| 02L1AA0202 Design preparation for the AIP submission | 15 22FEB08 07MAR08 2 22 8 | |
| 02L1AA0204 Design (AIP) certification by the Design Checker | 15 08MAR08 222 | |
| 02L1AA0206 Design (AIP) submission for the SO's approval | | |
| 02L1AA0208 Design (AIP) review by the SO | 21 26MAR08 15APR08 2 20 🕮 | |
| 02L1AA0210 Obtain design (AIP) approval from the SO | 0 15APP08 2 20 | |
| 02L1AA0212 AIP submission for rel. authorities' approval | - | |
| 02L1AA0214 Design (AIP) review by the rel. authorities | 21 17APR08 07MAY08 2 20 | |
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| 02L1BB0820 Design preparation for the DDA submission | 30 29SEP08 | - | 531 | | |
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| | 28 11MAR09 07APR09 2 323 | 02L1GG0132 Design (DDA) review by the rel. authorities |
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| | h | 02L1GG0124 Design (DDA) submission for the SO's approval |
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| | 1 29NOV08 29NOV08 1 260 | 02L1GG0112 AIP submission for ref. authorities' approval |
| | 0 28NOV08 2 322 | 02L1GG0110 Obtain design (AIP) approval from the SO |
| | 60 30SEP08 28NOV08 2 322 | 02L1GG0108 Design (AIP) review by the SO |
| | 1 29SEP08 29SEP08 1 260 | 02L1GG0106 Design (AIP) submission for the SO's approval |
| 122 | 15 14SEP08 28SEP08 2 322 | 02L1GG0104 Design (AIP) certification by the Design Checker |
| | 30 15AUG08 13SEP08 2 322 | 02L1GG0102 Design preparation for the AIP submission |
| | | Drainage Impact Assessment |
| | | Design Pawages to Works in Portion C |
| * | 0 14AUG08 2 322 | 02L1CC0736 Obtain SO's consent for design (DDA) |
| | 1 13AUG08 13AUG08 1 259 | 02L1CC0734 Obtain rel. authorities's approval for DDA |
| | 28 16JUL08 12AUG08 2 321 | 02L1CC0732 Design (DDA) review by the rel. authorities |
| | 1 15JUL08 15JUL08 1 259 | 02L1CC0730 DDA submission for rel. authorities' approval |
| • | 0 14JUL08 2 321 | 02L1CC0728 Obtain design (DDA) approval from the SO |
| | 28 17JUN08 14JUL08 2 321 | 02L1CC0726 Design (DDA) review by the SO |
| | 1 16JUN08 16JUN08 1 259 | 02L1CC0724 Design (DDA) submission for the SO's approval |
| PEC . | 15 31MAY08 14JUN08 2 319 | 02L1CC0722 Design (DDA) certification by the Design Checker |
| | 30 01MAY08 30MAY08 2 319 | 02L1CC0720 Design preparation for the DDA submission |
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| • | 0 22APR08 2 318 | 02L1CC0710 Obtain design (AIP) approval from the SO |
| | 28 26MAR08 22APR08 2 318 | 02L1CC0708 Design (AIP) review by the SO |
| | 1 25MAR08 25MAR08 1 259 | 02L1CC0706 Design (AIP) submission for the SO's approval |
| 623 | 15 09MAR08 23MAR08 2 319 | 02L1CC0704 Design (AIP) certification by the Design Checker |
| | 15 23FEB08 08MAR08 2 262 | 02L1CC0702 Design preparation for the AIP submission |
| | | Boulder Assessment & Design for Stabili. Measure |
| • | 0 02FEB09 2 413 | 02L1CC0636 Obtain SO's consent for design (DDA) |
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| | 17SEP08 16OCT08 2 | 02L1FE0120 Design preparation for the DDA submission |
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| | 1 31JUL08 31JUL08 1 379 | 02L1FE0106 Design (AIP) submission for the SO's approval |
| 22 | 15 16JUL08 30JUL08 2 466 | 02L1FE0104 Design (AIP) certification by the Design Checker |
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| | | Design for Communication System |
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| • | 0 07FEB09 2 631 | 02L1GG0328 Obtain design (DDA) approval from the SO |
| | 28 11JAN09 07FEB09 2 631 | 02L1GG0326 Design (DDA) review by the SO |
| | 1 10JAN09 10JAN09 1 510 | 021.1GG0324 Design (DDA) submission for the SO's approval |
| | 26DEC08 09JAN09 2 | 02L1GG0322 Design (DDA) certification by the Design Checker |
| | 2 | 02L1GG0320 Design preparation for the DDA submission |
| | 11DEC08 2 | 02L1GG0310 Obtain design (AIP) approval from the SO |
| | 14NOV08 11DEC08 2 | 02L1GG0308 Design (AIP) review by the SO |
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| | 15 14OCT08 28OCT08 . 2 630 | 02L1GG0302 Design preparation for the AIP submission |
| | | ELS Design for Pipe Jacking at Portion G |
| • | 0 24JAN09 2 438 | 02L1GG0228 Obtain design (DDA) approval from the SO |
| | 28 28DEC08 24JAN09 2 438 | 02L1GG0226 Design (DDA) review by the SO |
| | 1 27DEC08 27DEC08 1 354 | 02L 1GG0224 Design (DDA) submission for the SO's approval |
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| | 30 14SEP08 13OCT08 2 439 | 02L1GG0202 Design preparation for the AIP submission |
| | | Temp. Platform Design for H-Piling at Portion G |
| | 0 09APR09 2 323 | 02L1GG0136 Obtain SO's consent for design (DDA) |
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| TBM advances; CH4510-4460 36 27APR09 10,UlN09 1 0 1 1 1 1 1 1 1 1 | ; | † | 'R09 23APR09 1 | |
| TBM advances; WSD T3/P6 CH4460-4250 36 27APR09 10JUN09 1 | | - | . ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ | |
| TBM advances; P6 CH4250-4220 4 11JUN09 15JUN09 1 IF TBM advances; CH4220-3840 18 16JUN09 07JUL09 1 8 TBM advances; CH3820-3575 12 11JUL09 24JUL09 1 8 TBM advances; P4 CH3575-3525 6 25JUL09 1 8 1 TBM advances; P4 CH3575-3525 6 25JUL09 1 8 1 TBM advances; P4 CH3575-3526 6 25JUL09 1 8 1 TBM advances; P4 CH3575-3526 6 25JUL09 1 8 1 TBM advances; P4 CH3575-3128 13 13AUG09 27AUG09 1 8 TBM advances; P3/Noise sestitive area CH3175-3143 6 28AUG09 03SEP09 1 8 TBM advances; P3 CH3143-3125 2 04SEP09 1 8 Pre-excavation grouting @ 2dm/1.5 TBM advances; CH3125-2970 7 07SEP09 1 8 Pre-excavation grouting @ 2dm/1.5 TBM advances; WSD WS Reservior CH2970-2865 13 15SEP09 | | | | |
| TBM advances; OH320-3840 18 16JUN09 07JUL09 1 6 TBM advances; P5 CH3840-3820 3 08JUL09 1 8 7 11JUL09 1 8 7 1.5da | | | | Fault P6 OH4250-4220pre-excavation grouting @ 20m/1 |
| TBM advances; P5 CH3840-3820 3 08JUL09 10JUL09 1 8 Pre-excavation grouting @ 20m/1.5da TBM advances; CH3820-3575 12 11JUL09 24JUL09 1 8 Pre-excavation grouting @ 20m/1.5da TBM advances; CH3525-3308 10 01AUG09 12AUG09 1 8 Pre-excavation grouting @ 20m/1.5da TBM advances; CH3525-3308 10 01AUG09 12AUG09 1 8 Pre-excavation grouting @ 20m/1.5da TBM advances; P3/Noise sesitive area CH3175-3143 6 28AUG09 03SEP09 1 8 Pre-excavation grouting @ 20m/1.5c TBM advances; P3 CH3143-3125 2 04SEP09 1 8 Pre-excavation grouting @ 20m/1.5c TBM advances; CH3125-2970 7 07SEP09 1 8 Pre-excavation grouting @ 20m/1.5c TBM advances; WSD WS Reservior CH2970-2865 13 15SEP09 1 8 Pre-excavation grouting @ 20m/1.5c | | | N09: 07JUL09 1 | |
| TBM advances; CH3820-3575 12 11JUL09 24JUL09 1 8 re-excavation grouting @ 20m/1.5da TBM advances; CH3575-3525 6 25JUL09 31JUL09 1 8 re-excavation grouting @ 20m/1.5da TBM advances; CH3525-3308 10 01AUG09 12AUG09 1 8 re-excavation grouting @ 20m/1.5da TBM advances; P3/Noise sesitive area CH3175-3143 6 28AUG09 03SEP09 1 8 re-excavation grouting @ 20m/1.5c TBM advances; P3 CH3143-3125 2 04SEP09 14SEP09 1 8 pre-excavation grouting @ 20m/1.5c TBM advances; CH3125-2970 7 07SEP09 1 8 pre-excavation grouting @ 20m/1.5c | | | | |
| TBM advances; P4 CH3575-3525 6 25JUL09 31JUL09 1 8 (PP-excáva de excáva exemitive area CH3308-3175 10 01AUG09 12AUG09 1 8 PP-excáva de excáva de excáva de excéptive area CH3308-3175 13 13AUG09 27AUG09 1 8 PP-excáva de excéptive area CH3175-3143 6 28AUG09 03SEP09 1 8 PP-excéptive area CH3175-3143 7 07SEP09 1 8 PP-excéptive area CH3175-2970 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 3 2 3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 | | | | |
| TBM advances; CH3525-3308 10 01AUG09 12AUG09 1 8 TBM advances; Noise sestitive area CH308-3175 13 13AUG09 27AUG09 1 8 TBM advances; P3/Noise sestitive area CH3175-3143 6 28AUG09 03SEP09 1 8 TBM advances; P3 CH3143-3125 2 04SEP09 05SEP09 1 8 pre-exca TBM advances; CH3125-2970 7 07SEP09 1 8 pre-exca TBM advances; WSD WS Reservior CH2970-2865 13 15SEP09 1 8 pre-exca | | | | ė. |
| TBM advances; Noise sestitive area CH3175-3143 6 28AUG09 27AUG09 1 8 7 TBM advances; P3 CH3143-3125 2 04SEP09 05SEP09 1 8 pre-exca TBM advances; P3 CH3143-3125 2 04SEP09 05SEP09 1 8 pre-exca TBM advances; CH3125-2970 7 07SEP09 14SEP09 1 8 pre-exca TBM advances; WSD WS Reservior CH2970-2865 13 15SEP09 29SEP09 1 8 pre-exca | | | | |
| TBM advances; P3/Noise sesifive area CH3175-3143 6 28AUG09 03SEP09 1 8 pre-exca TBM advances; P3 CH3143-3125 2 04SEP09 05SEP09 1 8 pre-exca TBM advances; CH3125-2970 7 07SEP09 14SEP09 1 8 TBM advances; WSD WS Reservior CH2970-2865 13 15SEP09 29SEP09 1 8 | | | | |
| TBM advances; CH3125-2970 7 07SEP09 1 8 pre-ex TBM advances; CH3125-2970 7 07SEP09 14SEP09 1 8 TBM advances; WSD WS Reservior CH2970-2865 13 15SEP09 29SEP09 1 8 pre-ex | | - | L | |
| TBM advances; CH3125-2970 7 07SEP09 14SEP09 1 8 Pere- TBM advances; WSD WS Reservior CH2970-2865 13 15SEP09 295EP09 1 8 pre-e | | | P09 05SEP09 : 1 | pre-exca |
| TBM advances; WSD WS Reservior CH2970-2865 13 15SEP09 29SEP09 1 8 | | | P09 14SEP09 1 | |
| | 3AL1FT0840 TBM advances; WSD WS Reservior CH2970-2865 | i | P09 : 29SEP09 1 | pre-excavation arduting @ 2bm/1.5dav8 |

| | 1 10 to to | | | | |
|--|--|------------------|-----|--|------------|
| | 709 2 14,080 | 100CT | 0 | oan 13, On completion of grouting wks at F5 | |
| CH 2865-2970 Tsuen Wah West Service Reservior Group | 2 | 29SEP09 | 0 | 6aR 14; On completion of grouting wks at WSD's | 6AR1FT0928 |
| | 1 0 | 05SEP09 | 0 | 6aR 13; On completion of grouting wks at P3 | 6AR1FT0926 |
| | 6 | 31.11.1 | 0 | 6aR 12; On completion of grouting wks at P4 | 6AR1FT0924 |
| | v 01 | 10JUL09 | 0 | 6aR 11; On completion of grouting wks at P5 | 6AR1FT0922 |
| | 1 0 | 15.II INDO | 0 | 6aR 10; On completion of grouting works at P6 | 6AR1FT0920 |
| • | 1 0 | 60NI N'SO | 0 | 6aR 9; On completion of 80% grout by Ith at P6 | 6AR1FT0918 |
| | 1 0 | 26MAY09 | C | 6aR 8; On completion of 60% grout by Ith at P6 | 6AR1FT0916 |
| > 4 | 1 0 | 16MAY09 | 0 | 6aR 7; On completion of 40% grout by Ith at P6 | 6AR1FT0914 |
| | 1 0 | 07MAY09 | 0 | 6aR 6; On completion of 20% grout by Ith at P6 | 6AR1FT0912 |
| • | ٦ | 10,1 | 0 | 6aR 5; On completion of grouting at WSD T. 3 | 6AR1FT0910 |
| | 71 | 23AF | 0 | 6аЯ 4; On completion of grouting at F6a | 6AR1FT0908 |
| | 2 | 01AF | 0 | 6aR 3; On completion of grouting at F6b | 6AR1FT0906 |
| | 1 | 25M/ | 0 | 6aR 2; On completion of grouting at F6c | 6AR1FT0904 |
| | AN09 2 1,334 | 29JAN | 0 | 6aR 1; On completion of grouting at P7 | 6AR1FT0902 |
| | | | | | |
| | EB11 2 577 | 05FEB11 25FE | 24 | SO issues completion certificate | 3AL1FT0888 |
| | | i - | 0 | Handover of Portion F | 3AL1FT0886 |
| | 811 2 5 | ·‡ | 7 | Contractor serve notice for Works completion | 3AL1FT0884 |
| | - | 04DEC10 28J/ | 45 | Authorities' inspection/remedial works; daytime | 3AL1FT0882 |
| Exercised Annual Control of the Cont | | - † | 28 | Testing & Commissioning; daytime | 3AL1FT0880 |
| | V10 1 | -+ | 06 | Installation of communication system (Daytime) | 3AL1FT0878 |
| rpoor comprehensive comprehensive comprehensive comprehensive to the comprehensive co | - | ·÷ | 99 | Complete maintennce access & dry weather channel | 3AL1FT0876 |
| 100 m | Y10 1 1 | 22DEC08 | 414 | Back grouting (daytime); CH5100-00 | 3AL1FT0874 |
| ESTABLE TO THE PROPERTY OF THE | - | | 50* | Desembly & demobilization of TBM | 3AL1FT0873 |
| Dre-excavation arounds to the property of the | V10 1 | 27MAR10 14M | 37 | TBM advances; F1 CH300-0 | 3AL1FT0872 |
| | /R10 1 | 15MAR10 26MA | = | TBM advances; CH530-300 | 3AL1FT0870 |
| CIO Z IM/OBJ | NB10 1 | 13MAR10 13MA | + | TBM advances; P1 CH540-530 | 3AL1FT0868 |
| | R10 . 1 | . . | 11 | TBM advances; CH770-540 | 3AL1FT0866 |
| nre-excevation mainting @ 20m/1 EHm.4 | | + | | TBM advances; P2 CH795-770 | 3AL1FT0864 |
| Manager Arthur Britain & Contract of Contr | 810 1 | · | 2 | 7 | 3AL1FT0862 |
| pre-exception arouting a 20m / 15 1 m/day | N10 - 1 | - | 3 | TBM advances; F2 CH1250-1230 | 3AL1FT0860 |
| pow advance rate 10.5m/day=1 BM operates 0700 to 1,900 | - 1 - | ·+ | 2 | -1 | 3AL1FT0858 |
| Ten delegate of the first of th | - - | 05JAN10 21J | 15 | TBM advances; Noise sesitive area CH1449-1295 | 3AL1FT0856 |
| ABOOC I JUINZ AT DE LA CALLA C | | 20NOV09 04.JAN10 | 36 | | 3AL1FT0854 |
| ple-excevation evolution (9.20m/4.24m/6 | | 13NOV09 | 9 | TBM advances; F3 CH2255-2205 | 3AL1FT0852 |
| SARDO I SILON SARDO SARD | | 29OCT09 | 13 | TBM advances; CH2535-2255 | 3AL1FT0850 |
| Dre-excevation grounding @ 20m/4 Edwar | 28OCT09 1 8 | 21OCT09 28C | 9 | | 3AL1FT0848 |
| | 20OCT09 1 8 | 12OCT09 20C | 80 | - | 3AL1FT0846 |
| Dre-lexicavarian months (2) Dom (4 Educat | - | 08OCT09 10C | (P) | | 3AL1FT0844 |
| 8.19.10.11.13.11.13.10.17.12.12.12.12.12.12.12.12.12.12.12.12.12. | T. 00T. | | 5 | TBM advances; CH286 | 3AL1FT0842 |
| TEMINAL SECTION DEFENDING THE CONDUCTION OF THE PROPERTY OF TH | any cal Total | | δē | | |
| TO STORE AND A STO | A STATE OF THE STA | | | | O C |

| nud Activity Describition | Early Stan | Early. Cal Finish ID | Total D | POWER TOWN TO THE PROPERTY OF | A WIN TAKE OF |
|---|---------------|-------------------------|---------|---|---|
| 6AR1FT0932 6aR 16; On completion of grouting wks at F4 | 2 | T09 | 1,062 | | 0.0000000000000000000000000000000000000 |
| 6AR1FT0934 6aR 17; On completion of grouting wks at F3 | - | 19NOV09 2 | 1,040 | | |
| 6AR1FT0936 6aR 18; On completion of grouting wks at F2 0 | 2 | 27JAN10 2 | 97.1 | • | |
| | N I | 27FEB10 2 | 940 | • | |
| | - | 13MAR10 2 | 926 | | |
| 1 | e | 31MAR10 2 | 908 | | |
| | 0 | | 668 | • | |
| 6aR 23; On completion of | - | 14APR10 2 | 894 | | |
| 6aR 24; On completion of | | | 888 | • | |
| 6aR 25; On completion of | 2 | 710 | 885 | • | , |
| F | 2 | 28APR10 2 | 880 | • | |
| 6AR1FT0954 6aR 27; On completion of 70% grout by Ith at F1 | · · · | 04MAY10 2 | 874 | • | |
| | | 10MAY10 2 | 898 | • | |
| 6AR1FT0958 6aR 29; On completion of 90% grout by Ith at F1 0 | - | 11MAY10 2 | 867 | • | |
| 6AR1FT0960 6aR 30; On completion of grouting works at F1 | ÷ | 14MAY10 2 | 864 | • | |
| 6AR1FT0970 6aR 31; On completion of all works under this CC 0 | 2 | 20MAY10 2 | 828 | Sunder this Cast Centre | |
| Santedule on Wilestrones to recommend and remittents | | | | | |
| 3AL1FT1002 3aL 1; On providing evidence of procuring TBM 0 | | 19JAN08 2 | 1,710 | • | |
| 3AL1FT1004 3aL 2; On providing evidence of TBM Factory Test 0 | 0 | P08 | 1,481 | • | |
| 3AL1FT1006 3aL 3; On delivery of all parts of TBM to the Si | ŏ | 09NOV08 2 | 1,415 | | |
| 3AL1FT1008 3aL 4; On completion of site comm. & test. of TB 0 | ð | 800 | 1,386 | • | |
| 3AL1FT1010 3aL 5; On completion of 5% perm. tunnel lining | Š | 25MAR09 2 | 1,279 | | |
| 3AL1FT1012 3aL 6; On completion of 10% perm. tunnel lining 0 | ŏ | 09APR09 2 | 1,264 | • | |
| 3AL1FT1014 3aL 7; On completion of 15% perm. tunnel lining 0 | ίδ. | 22MAY09 2 | 1,22.1 | • | |
| 3AL1FT1016 3aL 8; On completion of 20% perm. tunnel lining 0 | 8 | 22JUN09 2 | 1,190 | • | |
| 3AL1FT1018 3aL 9; On completion of 25% perm. tunnel lining 0 | _ | 10JUL09 2 | 1,172 | • | |
| 3AL1FT1020 :3aL 10; On completion of 30% perm. tunnel lining | α. | 24JUL09 2 | 1,158 | • | |
| 3AL1FT1022 3aL 11; On completion of 35% perm. tunnel lining 0 | 1(| L | 1,141 | • | |
| 3AL1FT1024 3aL 12; On completion of 40% perm, tunnel lining 0 | ŏ | 09SEP09 2 | 1,1,1 | • | |
| 3aL 13; On completion of 45% perm. tunnel lining | ö | | 1,087 | • | |
| | č. | | 1,066 | • | |
| 3AL1FT1030 3aL 15; On completion of 55% perm. tunnel lining 0 | 0 | 09NOV09 2 | 1,050 | • | |
| 3AL1FT1032 3aL 16; On completion of 60% perm. tunnel lining | 2 | 27NOV09 2 | 1,032 | • | |
| 3AL1FT1034 3aL 17; On completion of 65% perm. tunnel lining | ŏ | CJ | 1,020 | • | |
| 3AL1FT1036 3aL 18; On completion of 70% perm. tunnel lining | . 27 | 21DEC09 2 | 1,008 | • | |
| 3AL1FT1038 3aL 19; On completion of 75% perm. tunnel lining | 72 | 22JAN10 2 | 926 | • | |
| - 1 | ð | | 362 | • | |
| - 1 | 5 | 01MAR10 2 | 938 | • | - |
| - T | Φ, | | 924 | • | ** |
| | 0. | 07APR10 2 | 901 | • | |
| 3AL1FT1048 3aL 24; On completion of perm. tunnel lining | 4 | 14MAY10 2 | 864 | • | |
| | | ō | | | |

| | 2 FO 1 - 4 O | | | |
|--|---|----------|--|---------------|
| | 03MAY08 27JUN12 1 24 | 1,230 03 | 108 Monitor/report Geotechnical Instrumentation | (SDCIAITIUS |
| | 02MAY08 1 | 30 27 | | 3DL1Al1106 |
| | 26MAR08 2 29 | 0 | 7 | 3DL1AI1104 |
| | 27MAR08 23JUN08 1 73 | 72 27 | 102 Tree transplanting; 4 nos. | 16R7Al1102 |
| | 03MAY08 11JUL11 2 16 | 1,165 03 | 1 | 01R1AI1124 |
| | 27MAR08 02MAY08 1 12 | 30 27 | | 01R1AI1122 |
| | 03MAY08 31MAY08 1 31 | 24 | | 01R1AI117 |
| | 27MAR08 02MAY08 1 31 | 30 27 | 116 Site clearance | 01R1AI1116 |
| | 27MAR08 02MAY08 1 31 | 30 27 | | 01R1AI1114 |
| ◆90d after DOC | 26MAR08 1 12 | 0 26 | 112 Possession of site | 01R1A1112 |
| | 07MAR08 2 59 | 0 07 | | 01R1AI1110 |
| | 26MAR08 2 90 | 0 | 108 Obtain tree felling permit | 01R1AI1108 |
| | | | Freinmany Works | |
| | A CONTRACT OF THE PROPERTY OF | | Construction of Intake I-1 | Const |
| Tunnel after completion of strengtheing works | 18FEB09 2 1,314 | 0 du | T137 10aR 7; On recharge of the water after wrk comp | 10AR1JT137 |
| | • | 0 | | 10AR1JT136 |
| | 31JAN09 2 1,332 | wks 0 | - 1 | 10AR1JT135 |
| | 1 | wks 0 | T134 10aR 4; On completion of 50% strengthening wks | 10AR1JT134 |
| | 20DEC08 2 1,374 | wks 0 | - 1 | 10AR1JT133 |
| • | 03DEC08 2 1,391 | 0 | | 10AR1JT132 |
| • | 03DEC08 2 17,391 | 0 | F-7 | 10AR1JT131 |
| | | 035 | Schealle of Miles (ones, Idir sos) gent a Maria | 910S |
| under this Cost Centre ◆ | 26JUL12 2 60 | 0 00 | 1224 3dL 12; On completion of all works under this CC | 3DL10T1224 |
| flow mohitoring to issue of Main. Certificate. | 26JUL12 2 60 | O QV | - 1 | 3DL10T1222 |
| flow measurement devices for Portion D. | 19MAY11 2 . 494 | 0 | - 1 | 3DL10T1220 |
| flow measurement devices for Portion C. | 05MAR11 2 569 | 0 | | 3DL10T1218 |
| flow measurement devices for Portion B. | 10JUN11 2 472 | 0 | | 3DL10T1216 |
| flow measurement devices at Portion A. | 12MAR11 2 562 | 0 | | 3DL10T1214 |
| monitoring for installed i | 26JUL12 2 60 | 0 | | 3DL10T1212 |
| installed instruments for 48 months from DOC. | 26DEC11 2 273 | 0 | | 3DL10T1210 |
| Installed instruments for 36 months from DOC. | 26DEC10 2 638 | 0 | | 3DL10T1208 |
| Installed Instruments for 24 months from DOC | 1 | 0 | | 3DL10T1206 |
| Installed instruments for 12 months from DOC | 26DEC08 2 1,368 | 0 | | 3DL10T1204 |
| ◆ gebtechnical instruments | 02SEP09 2 1,118 | 0 | | 3DL10T1202 |
| | | | | |
| ◆within this cost centre | 28JAN11 2 605 | CC O | 1034 3aL Z/; On completion of all works under this CC | 3AL IF 1034 |
| | 01NOV10 2 693 | nic. 0 | | 3AL1FT1052 |
| The part of Annual Control of the Co | 24SEP10 2 731 | han 0 | - | 3AL1FT1050 |
| 1 FM AMILE SEISOND TERMAMULTAS ON BEIERWAMITTES | Finish 10 | Dar | 200 | |
| | Teld Total | BIO | STATE OF THE PROPERTY OF THE PERSON OF THE P | 2 |

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| OPR ANTACO Erect piling platform OPR INTEGRALIZE Erect piling platform 24 19JUN08 OPR IAM IZO4 Install 273 mm dia. temp. pipe piles; 175 nos. 36 18JUL00 11 REANI 208 360mm dia. per-bored H-piles; 66 nos. 36 29AUC08 11 REANI 308 Construct skin wall/access platforms; Portion A 72 20JUL10 4 LI REANI 308 Soil nailing at western side; 28 nos. 12 72JUN08 11 REANI 308 Soil nailing at western side; 120 nos. 24 17JUN08 11 REANI 308 Soil nailing at eastern side; 150 nos. 24 17JUN08 11 REANI 308 Soil nailing at eastern side; 150 nos. 24 17JUN08 11 REANI 308 Soil nailing at eastern side; 150 nos. 24 17JUN08 11 REANI 308 Soil nailing at eastern side; 150 nos. 24 17JUN08 11 REANI 308 Install working tie-back & proof load test; 1 no. 10 205EP08 24 LI Al14 40 Install working tie-back & proof load test; 1 no. 10 200C0708 24 LI Al14 41 Bulk excavation; soil (150m3) 4 160C08 | 17.JULO8 1 17 28AUGO8 1 17 24SEP10 1 198 24SEP10 1 198 31MAYO8 1 57 16JUNO8 1 57 15JULO8 1 57 15JULO8 1 17 12AUGO8 1 17 12NOVO8 1 17 12DECO8 1 17 11MARO9 1 17 | Exercise to the containing AP for design submission Ressuming 7-day grout strength>30MPa
|--|--|---|
| 18 | | Rassuming 7-day grout strangth>30MPa |
| Excavation from +91.5mPD to + 88.5mPD 04L1Al1434 Bulk excavation; soil (1860m3) 18 12MAR09 04L1Al1436 Bulk excavation; rock (420m3) 18 26MAR09 04L1Al1440 Install working tie-backs; 27 nos. 12 26MAR09 | 12MAR09 01APR09 1 17 26MAR09 20APR09 1 17 26MAR09 07APR09 1 17 08APR09 24APR09 1 17 | Est Ressuming 7-day grout istrength>30MPa |

| Excavation from +88.5mPD to +72.5mPD; North 04L1A11442 Bulk excavation; rock (6300m3) 07R1A11444 Bulk excavation for vehicular access; 1400m3 07R1A11446 Construct vehicular access Excavation to Bottom Level to south west of SR 04L1A11448 Bulk excavation; rock (5300m3) Construction of Spiral Ramp Structure 07R1A11402 Raft foundation 07R1A11404 Construct RC spiral ramp 07R1A11406 Construct RC spiral ramp ton | 1 17 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
|--|--|--|
| | 25APR09 04SEP09 1 | |
| | | |
| [] | 30 01AUG09 04SEP09 1 17 | SSTANDER SEGMENT (Updi excavation) |
| Excavation to Bottom Level to south west of SR 04L1A11448 Bulk excavation; rock (5300m3) Construction of Spiral Ramp Structure 07R1A11402 Raft foundation 07R1A11404 Construct RC spiral ramp 07R1A11406 Construct RC spiral ramp ton | 05SEP09 19OCT09 1 | Fighton drote Extended of the order |
| 04L1A11448 Bulk excavation; rock (5300m3) Construction of Spiral Ramp Structure 07R1A11402 Ratt foundation 07R1A11404 Construct RC spiral ramp 07R1A11406 Construct RC spiral ramp top | | WALEST CALL STREET COLUMN STREET STRE |
| Construction of Spiral Ramp Structure 07R1Al1402 Raft foundation 07R1Al1404 Construct RC spiral ramp 07R1Al1406 Construct RC spiral ramp top | 88 20OCT09 03FEB10 1 71 | 25.500 m 20.500 m 20. |
| | | Washing World Commence of the |
| | 12 20OCT09 03NOV09 1 17 | Carbon Ca |
| | Ž | =10272m2, re-bar=755f. condrete=2788m3程列码器 |
| İ | 12 02JUL10 15JUL10 1 17 | MADE IN THE PROPERTY OF THE PR |
| Dismantle & removal of TBM | | OHIOTO |
| 04L1Al1450 Install temporary steel works for removal of TBM | 24 16APR10 14MAY10 1 17 | E |
| 04L1Al1452 Dissembly & demobilization of TBM | 15MAY10 15JUL10 1 | ECASTO CONTRACTOR OF THE CONTR |
| Construction of Cascade Structure | .1 | AVECTOR AND ADDRESS OF THE PROPERTY OF THE PRO |
| 04L1Al1454 Construct box culvert & cascade | 72 16JUL10 09OCT10 1 17 | fwke 880m2 re-har-145t & Annersta-049m2898988 & |
| Mod frattonati atsung Chamelinany sessor | | |
| OTETATENT Medits chemen had 0 | AND THE PROPERTY OF THE PROPER | |
| T | 01NOV10" 11DEC10 1 | |
| Modify channel bed and orlice; Phase | 13DEC10 | |
| 07R1Al1506 Modify channel bed and orfice; Phase 3 | 36 27JAN11 12MAR11 1 61 | |
| Remaining Works Proprietaver | | |
| 07R1AI1602 Backfill & compaction above box culvert; Port. A | 72 11OCT10 06.IAN11 1 90 | T. C. |
| 07B1Al1606 Finishing & reinstatement works; Portion A | 14FEB11 11APR11 1 | POST POST POST POST POST POST POST POST |
| 07R1Al1608 Pre-handover inspections and remedial works | 14MAB11 13MAY11 1 | Total Carlo |
| 07R1Al1610 Contractor serve notice for Works completion | 14MAY11 20MAY11 2 4 | |
| 07R1A11612 SO issues completion certificate | 10JUN11 2 | |
| | 13MAY11 1 | 15000s climber 20000s world and 20000s and 20000s |
| 16R7Al1604 Establishment Works at Portion A | 365 14MAY11 12MAY12 2 75 | |
| 3DL1AI1602 Install flow measurement devices at Intake I-1 | 12MAR11 1 | |
| 3DL1AI1604 Maintain & monitor flow monitoring | 365 13MAR11 11MAR12 2 137 | |
| Suiçonie of fulles for established at | | |
| 04L1Al1802 4L 1; On completion of 50% excavation | 0 24APBng 2 1.249 | A CONTRACTOR OF THE PROPERTY O |
| 04L1Al1804 4L 2; On completion of excavation | 03FEB10 2 | Tot Castal at this of the Control of this of the Control of the Co |
| 04L1A11806 4L 3; On completion of 25% concreting | 2 | October of Heave 1. |
| 04L1Al1808 4L 4; On completion of 50% concreting | 0 26AUG10 2 760 | Pro Cascade at Intake 1-1 |
| | 0 16SEP10 2 739 | • for Cascade at Intake 1-1 |
| [| 0 09OCT10 2 716 | • Patiniake III |
| i | 0 19OCT09 2 1,071 | Spox culvert at Intake I-1 |
| 04L1Al1816 4L 8; On completion of all works under this CC | 0 13MAY11 2 500 | entrantic Cost |

| Fig. | 778 1. On completion of trash guile 778 2. On completion of 25% excertainth 2 265 778 2. On completion of 25% excertainth 2 205 2 255 2 255 2 2 2 2 | Star. Finish 10. Fisal 18.9 | |
|--|--|--------------------------------|---------------------------------|
| The 1-Concentration of 15% executation | 778 (1.00 completion of treat) guils 778 (1.00 completion of treat) guils 778 (1.00 completion of 12% excavation 0 12MAR10 2 1.365 | | sienesifor@sk.cemte.Nor7R |
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| 778 (2) On completion of spiral amplies a spiral amplies of spiral amplies and spiral amplies amplies and spiral amplies and | 778 c. On completion of spiral ramp to ±100mPD | 2 937 | |
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| 12R3Bl2216 Construct skin walf; 45m; Portion B | _ | 8.9.1011/21014/1918/1019/2020/2020/2020/2020/2020/2020/2020 |
|--|---|---|
| Phase 1, Stg 3-Flatten exist. Stream Red at West | 200000000000000000000000000000000000000 | |
| Construct temp. concrete block bund | 12 01NDV08* 14NDV08 1 | |
| Excavate for new low flow channel | 15NOV08 : 28NOV08 1 236 | -provision of water pump |
| Construct new low flow channel | 29NOV08 29DEC08 1 236 | |
| Remove temp, concrete block bund | 30DEC08 13JAN09 1 236 | |
| Phase 2, Stg 1- Const. Approach Channel at East | | |
| Construct temp, concrete block bund | 6 02NOV09* 07NOV09 1 0 | |
| Excavate for L-shaped retaining wall | 09NOV09 21NOV09 1 | provision of water pump |
| Construct L-shaped retaining wall | , 18 Z3NOV09 12DEC09 1 175 | |
| Excavate eastern portion of guide wall & slab | 29DEC09 1 | |
| Construct eastern portion of guide wall & slab | 20JAN10 1 | |
| Remove temp, concrete blook bund | 27JAN10 1 | |
| Phase 2, Stg 2- Const Approach Channel at West | | |
| Construct temp, concrete block bund | 8 28. IAN10 DAEED10 1 17E | |
| Excavate for western portion guide wall & slab | + | Eprovision of water pump |
| Construct western portion of guide wall & stab | 22FFB10 20MAB10 1 | |
| Remove concrete block bund | 22MAR10 | E . |
| Phase 4- Construct Remaining Approach Channel | | 3 |
| Construct temp, concrete block bund | 6 18APR11 27APR11 1 8 | 3 |
| Complete guide wall between A.C. & V.S. | 12MAY11 1 | ž ž |
| Remove temp. conctete block bund | 6 13MAY11 19MAY11 1 8 | *After Construction of Outfall O-1 |
| Excevate greensimor Veltexibrop Shaft | | |
| Phase 1, Stg 2- Form temp. access ramp to VS | | |
| Setting up | 6 05SEP08 11SEP08 1 13 | |
| Probing & curtain grouting around shaft | 12SEP08 13OCT08 1 13 | |
| Construct ELS around shaft | 03NOV08 1 13 | |
| Phase 3, Stg 1- Const. Vortex Shaft/Trash Grill | | |
| Construct temp. concrete block bund | 6 01NOV10* 06NOV10 1 0 | |
| Excavate for vortex shaft & guide wall | 24 27NOV10 24DEC10 1 13 | provision of water bump |
| Construct vortex shaft & guide wall | | |
| Construct trash grill | | 1000 |
| Construction of boulder traps; 7nos. | - | S 5 |
| Phase 3, Stg 2- Construct Rem. West. Guide Wall | | |
| Relocate temp, concrete block bund | 4 12MAR11 16MAR11 1 13 | у |
| Excavate/const. rem. western guide wall | | |
| Remove temp, concrete block bund | - | |
| Mechanical expanation for dron shaft 32m | | |
| Construct door at all 100 | 13 | Manager 10 0.2m/day |
| Cristian Crop shaft: 3.4m | | |

| | T Caro | יייייייייייייייייייייייייייייייייייייי | |
|--|---------------------------|--|-------------------|
| | 365 17JUL11 15JUL12 2 11 | Establishment Works at Portion B | 16R7BI2104 |
| Projection: | | Landscaping works at Portion B | 16R7BI2102 |
| | 21 24JUL11 13AUG11 2 348 | SO issues completion certificate | 08R1BI2105 |
| | 17JUL11 | Contractor serve notice for Works completion | 08R1BI2104 |
| Manager Control of the Control of th | | Pre-handover inspections and remedial works | 08R1BI2103 |
| | 48 18APR11 17JUN11 1 8 | Finishing & reinstatement works; Portion B | 08R1Bl2102 |
| | | Renizintig Warks Pridric Handover |) |
| 5 bays, invert, walls & toof 3 pours each bay感动 | 36 27NOV10 11JAN11 1 38 | Construct man access tunnel; 35m | 051.1812806 |
| | 30AUG10 | Mechanical excavation breakthrough | 05L1BI2804 |
| 国の表示の記念の記念の記念 @ 0.15m/day | 240 06NOV09 28AUG10 1 109 | Mechanical excavation for Man Access Tunnel | 05L1BI2802 |
| | | excevere woonshippen access hunde | |
| (認証(ryert, wall & ropf | 36 26JAN11 11MAR11 1 38 | Construct collar between MT & AT | 3BL1B12108 |
| 18@ 0,3m/day | 25JAN11 1 | Mechanical excavation breakthrough | 3BL1BI2106 |
| Mary finvert, walls & roof 8 pours @ bay 51 d | 50 14JUL10 09SEP10 1 13 | Construct adit tunnel; 60m | 3BL1Bl2104 |
| SESTING SESTION © 0.3m/day | 200 06NOV09 13JUL10 1 13 | Mechanical excavation for Adit Tunnel | 3811812102 |
| | | Excavate o Gonstruct Aul Funnell | EX(0.01/2) |
| IIIII 2 walls & roof total 32 days | 32 10SEP10 20OCT10 1 13 | Construct de-aeration chamber | 05L1BI2604 |
| 2832m3, 2@ 20m3/day | 132 01JUN09 05NOV09 1 13 | Mechanical excavation for chamber; 22.5m | 051,1812602 |
| | | encevare a construction de deration chamides | (*) (*) (*) |
| EGATING 4m/8days | 76 27NOV10 02MAR11 1 67 | Construct man access shaft including stairs; 38m | 05L1Bl2514 |
| Exercise Control of Smiday | 190 30DEC08 21AUG09 1 443 | Mechanical excavation for man access shaft; 38m | 05L1BI2512 |
| | 24 29NOV08 29DEC08 1 443 | Probing & curtain grouting around shaft | 051.1812504 |
| ₹335mm dfa. temp. pipe pile wall | 24 01NOV08* 28NOV08 1 0 | Construct ELS around shaft | 0511812502 |
| | | Excavate Goostfloot/Nart Access Shaff | |
| ©a [®] @4m/4days | 34 27NOV10 08JAN11 1 67 | Construct air vent shaft; 34m | 3BL1B12412 |
| | 6 04NOV08 10NOV08 1 13 | Dismante & remove temp platform | 05L1BI2410 |
| provision of TTA | 1 04SEP08 04SEP08 1 13 | Demobilize RCD | 05L1B12408 |
| 图 图 | 34 26JUL08 03SEP08 1 13 | Excavate by RCD; 34m @ 1m/day | 05L1BI2406 |
| Provision of TTA | 6 19JUL08 25JUL08 1 13 | Mobilize & set up plants for RCD excavation | 05L1BI2404 |
| | 10 08JUL08 18JUL08 1 13 | Construct temp. platform for RCD | 05L1BI2402 |
| | 24 07JUN08 07JUL08 1 13 | Form temp, access ramp; Lo Wai Rd to Drop Shaft | 05L1BI2302 |
| | | Phase 1, Stg 2- Form temp. access ramp to VS | Phase 1, St |
| | | Szodyaler z Gönstrubt Arriventshaft | The system |
| FINA MELTAN BOND BUTEN AND TO BE BOND TO BE BUTEN TO BE BUTEN AND THE MACKED ONE OF THE MACKED WESTED OF THE BUTEN AND THE MACKED WESTED ONE OF THE BUTEN AND THE BUTEN | 7.0 | Description | 9 |
| | Fant Cal Total | Allowy | 9 |

| •under this Cost Centre | | | 16JUL11 | 0 | 12114, Oil completion of all works under this CC |
|--|---------------------------------------|-----------------|---------|--|--|
| ◆traps at Intake -2 | | 2 | 11MAR11 | 0 | 12R3bl2Sub 12R 3; On completion of boulder traps |
| | wall at Intake I-2 | 13SEP08 2 1,472 | 13SE | 0 | Ţ. |
| | ♦wall at Intake I-2 | 14JUL08 2 1,533 | 14.11 | 0 | \Box T |
| | | | | | |
| ♦under this Cost Centre | | 16JUL11 2 436 | 16J | 0 | CONTROLL TO GARAS, OF COMPREHEND OF All WORKS UNder This CC |
| Aat Intake I-2 | | | 25FI | 0 | U8K1 BI2R04 8R 2; On completion of trash grill |
| channel and assiciated decking at fritake 1-2. | chan | AY11 2 501 | 12MA | 0 | |
| | | | | | |
| ◆under this Cost Centre | | JL11 2 436 | 1630 | O T | The sample of th |
| ◆adit at Intake F-2 | | 2 | 011 | 0 | OF TRIOMOD RI 10: On completion of all marks and |
| Shaft at Intake I-2 | | ~ | 02M | 0 | OSE REIGHTE SE 8; On completion of man access shaft |
| C.I exitati at intake | | 08JAN11 2 625 | 08) | 0 | |
| Chambar at Intake 1.2 | | 200CT10 2 705 | 200 | 0 | |
| Programme and the second secon | | - | 114 | 0 | |
| Second Cit. except for Adit at Intake 1.2 | | 2 | 28A | 0 | T |
| Z-laving at line to the control of | | 09MAR10 2 930 | M60 | 0 | 1 |
| The properties of the properti | | 14SEP09 2 1,106 | 148 | 0 | T |
| On Moleculary of Land and the Author of Land and | | 30MAY09 2 1.213 | 300 | 0 | |
| | | | | | Shearle o Miestoresia cos centre Na El |
| S-I Preside the Control of the Contr | -114.4 | AR11 2 563 | 11MA | 0 | 35t.1 blzA20 35L 10; On completion of all works under this CC |
| for Ach Timpol of Intolo 15 | | P10 2 | 3S60 | 0 | - 7. |
| Fron Adil Turnel at Intake 1-2 | - 18 | P10 2 | 028E | 0 | 1 |
| Tor Adit Tunnel at Intake 1-2 | - V (pr. | 310 : 2 | 26AU | 0 | - |
| Tor Adit Tunnel at Intake 1-2 | | 310 2 | 19AU | 0 | |
| Tor Adit Tunnellat Intake I-2 | | 310 2 | 11AIK | 0 | |
| ▼1or Adit Tunnel at Intake I-2 | | G10 2 | 04AU | 0 | _ |
| | | 110 2 | UL/2 | 0 | 7 |
| equipment so tunnelling at Intake I-2 | | 2 | 20 | O | |
| Committee of the second of the | | 05NOV09 2 1,054 | Į, | 0 | - |
| | | | 1 | | |
| | · · · · · · · · · · · · · · · · · · · | 1415 2 | | THE RESERVE AND PARTY OF THE PA | |
| mvo. | | 1 IN 14 0 | | THE STATE OF THE S | 3 |
| | | | 11JUN11 | 365 | 3DL1BI2105 Maintain & monitor flow monitoring |

| | ABINITY DESCRIPTION | Ong Early Dur Stan | Early Cal Total Finish ID Float | DILIEMANIA ITAISON DULEMANIA MANGOLINE DILIEMANIA ILANSON DULE MANDULA MANDULA MANDULA MANDULA MANDULA MANDULA 78 BIOOTII II INTERNATION DULEMANIA MANDULA MANDULANIA MANDULA MANDULA MANDULA MANDULA MANDULA MANDULA MANDULA |
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| | Sousinging tower part of Abress Hoad | | | |
| 09R1Cl3402 | 1 [| 60 13MAY09 | 09 23JUL09 1 274 | |
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| 09R1CI3408 | ı | 30 03OCT | 03OCT09 09NOV09 1 274 | |
| 09R1CI3410 | | 32 10NOV(| - | |
| 09R1Cl3412 | | 32 17DECC | 4N10 1 | |
| 09R1Cl3414 | 1 | 48 27JAN10 | - | |
| 13R1CI3402 | | 112 28AUGC | 28AUG08 12JAN09 1 288 | |
| 13R1Cl3404 | Excavate & install soil nail (NW Turning Area) | | - | Con Colonia 100 Colonia |
| 13R1Cl3406 | | + | 12MAY09 1 | Manager Control Cont |
| 16R7CI3402 | | - | 24FEB09 1 | COLLINGIA DE LA COLLINGIA DE L |
| Excenden | excayate & constitution of New Shares | | | |
| Phase 1 | AND THE RESIDENCE OF THE PROPERTY OF THE PROPE | | | |
| 06L1Cl3502 | Modify & flatten the stream bed | 6 26NOV08 | 02DFC08 1 | |
| 06L1CI3504 | - | 1 | · 🛉 | |
| 06L1Cl3506 | Ι | + | | |
| 06L1Cl3508 | | + . | 20JAN09 1 | MATTER OF THE CONTRACT OF THE |
| 06L1Cl3510 | Construction of air vent shaft | 14 21JAN09 | 09FEB09 1 1 | |
| eyib Neoxal | Excavate seconstruction of a share | | | The control of taken by the control of the control |
| Phase 1 | | | POPULATION OF THE PROPERTY OF | |
| 06L1Cl3602 | | 18 21 JAN09 | 9 13FEB09 1 71 | |
| 06L1Cl3604 | | 24 21JAN0 | 20FEB09 1 | |
| 06L1Cl3606 | -7 | 57 14FEB0 | 14FEB09 25APR09 1 71 | (2000年1136m3,10m3*b/dav= 57 |
| 06L1CI3608 | Bulk excavation for drop shaft | 60 27APH09 | 9 09JUL09 1 71 | |
| 06L1Cl3610 | Construction of vortex (southern portion) | 24 10JUL09 | 9 06AUG09 1 71 | |
| Phase 2 | | | | |
| 06L1Cl3612 | Construction of drop shaft | 12 19FEB10 04MA | 0 04MAR10 1 83 | B@4m/4clavs |
| Phase 3 | | | | |
| 06L1Cl3614 | Bulk excavation for Vortex (northern portion) | 37 21SEP1(| 21SEP10 05NOV10 1 106 | 70 - White Holl 10 marks 10 m |
| 06L1Cl3616 | Construction of vortex (northern portion) | 24 06NOV10 03DE | C10 | SEE AND COLLEGE OF THE |
| 06L1Cl3618 | Relocate flood wall within vortex | 4 04DEC10 | C10 1 | |
| 06L1Cl3620 | Construct remaining of the vortex | 24 09DEC10 | 08JAN11 1 | |
| 21 | 8 oonsiidei Mar Access Shelf | | | |
| Phase 1 | | | | |
| 06L1Cl3706 | Bulk excavation for man access shaft | 110 14FEB09 | 9 30JUN09 1 170 | Waterway (a) 2m/dav |
| 06L1Cl3708 | Construction of man access shaft | 44 30SEP09 | 9 23NOV09 1 170 | 6*4 cycle each cycle 4 days部型22m @ 4m/8days inclinating stairs |
| The control | Weldinganorsingam Belti (by Seasonnik) | | | |
| Phase 2 | AN AND AND AN AND AN AND AN AND AN AND AN AND AN AND AN AND AN AND AN AND AND | | | |
| 09R1Cl3802 | Construct temporary sand bag bund | 6 02NOV09* 07NO | 1 07NOV09 1 0 | |
| | | | | |
| | | | | |

| 09R1CI3804 09R1CI3806 09R1CI3808 | | THE PARTY NAMED IN | | | 1031 7 8 9 | |
|--|--|---|--|--|---------------------------------------|--|
| 09R1CI3806 09R1CI3808 09R1CI3810 | Removal of large boulders | 01 | 60AON60 | 19NOV09 | | 88.9 P. 01.11.21.31.41.51.61.77.08 P. 92021 P. 22021 P. 2 |
| 09R1CI3808 09R1CI3810 | Excavation of the stream bed | 36 | 20NOV09 | | 1 67 | 2 |
| 09R1Cl3810 | Laying of granular filter | 42 | 05JAN10 | 05JAN10 01FEB10 | 16 | |
| (T (C () T () () T () T | Laying of rock armour | 24 | 05JAN10 | 05JAN10 · 01FEB10 | 1 67 | |
| 09R1CI3812 | Construction of boulder trap; 7 nos. | 24 | 02FEB10 | 04MAR10 | 1 67 | |
| 09R1Cl3814 | Removal of sand bag bund | 4 | 05MAR10 | | 1 67 | 3 |
| 09R1Cl3816 | Construct temporary concrete block bund | 8 | 10MAR10 | 10MAR10 30MAR10 | 1 67 | |
| E.G. Valle | Aceivate a Gunstraki Approach Channel | | | | | |
| Phase 3 | Sira habara kakana kaka da kata ka | N. C. | THE STATE OF THE S | | | |
| 09R1Cl3902 | Excavation of the Stream Bed | 54 | 31MAR10 | 31MAR10 08JUN10 | 1 67 | |
| 09R1CI3904 | Laying Granular Filter within Stream Bed | 18 | 09JUN10 - 30JU | 30JUN10 | 1 67 | |
| 09R1Cl3908 | Open excavation for Approach Channel | 69 | 02JUL10 | 20SEP10 | 1 67 | |
| 09R1Cl3910 | Construction of Approach Channel | 122 | 21SEP10 | 21SEP10 : 19FEB11 | 1 67 | |
| 09R1Cl3912 | Construction of trash grill | 12 | 14FEB11 | 26FEB11 | 1 67 | |
| 0CR1Cl3914 | Removal of concrete bolck bund | 9 | 28FEB11 | 05M | 1 67 | |
| | excavate & Construct Delacration Spanioer | | | | | |
| Phase 2 | erronen en elektrikan kantalan | | A 10 TO 10 T | | · · · · · · · · · · · · · · · · · · · | |
| 06L1Cl3102 | Excavation for de-aeration chamber | 87 | 10JUL09 | 21OCT09 | 1 83 | 23 - 125 m 3 0 0 m 3/Hav - 124 byce |
| 06L1Cl3104 | Construction of de-aeration chamber | 32 | 09JAN10 | 18FEB10 | - 83 | A Jours & week days invert drave walls 向 ave a succession of |
| | a cavalery box surrous administral | | | | | <u> </u> |
| Phase 2 | ocai alesa caranterra cerementare es es escentrares es estados de estados estados estados estados estados esta | | | | | |
| 3CL1Cl3102 | Mechanical excavation for Adit Tunnel | 40 | 22OCT09 | 22OCT09 08DEC09 | 1 83 | web/me @ udtm |
| 3CL1Cl3104 | Construction of Adit Tunnel | 24 | 09DEC09 | 08JAN10 | 1 83 | Sill Davis Books |
| 3CL1Cl3106 | Mechanical excavation breakthrough | 12 | 22JUN10 | 22JUN10 06JUL10 | 1 206 | |
| 3CL1Cl3108 | Construct collar between MT & AT | 36 | 07JUL10 | 17AUG10 | 1 206 | Mainvert, wall & roof |
| | Excavate to constitute Matrix cossistimates | | | | | |
| Phase 2 | CALLY CALLY THE PROPERTY OF TH | A COLUMN TO THE | Decada Garage Grand Control | A THE PROPERTY OF THE PROPERTY | | |
| 06L1Cl3122 | Mechanical excavation for man access tunnel | 53 | 02JUL09 | 01SEP09 | 1 170 | mocking out access經過8m (@0.15m/dav |
| 06L1Cl3124 | Construction of man access tunnel | 24 | 02SEP09 | 29SEP09 | 1 170 | Sign Spays: 6 pours |
| | agmanning Volks Pricing handoverne Olenk | | | | | |
| 09R1Cl3142 | Finishing & reinstatement works; Portion C | 48 | 07FEB11 02AP | 02APR11 | 1 67 | |
| 09R1Cl3143 | Pre-handover inspections and remedial works | 48 | O7MAR11 O5MA | 05MAY11 | 1 67 | |
| 09R1Cl3144 | Contractor serve notice for Works completion | 2 | 06MAY11 | 12MA | 2 480 | |
| 09R1Cl3146 | SO issues completion certificate | 21 | 13MAY11 | 02JUN11 | 2 480 | |
| 16R7Cl3142 | Landscaping works at Portion C | 120 | 06DEC10 05MA | 05MAY11 | 1 68 | |
| 1 | Establishment Works at Portion C | 365 | 06MAY11 | 04MAY12 | 2 83 | |
| | Install flow measurement devices at Intake I-3 | 24 | 07FEB11 05MA | 05MAR11 | 1 88 | · · · · · · · · · · · · · · · · · · · |
| 3DL1Cl3143 | Maintain & monitor flow monitoring | 365 | 06MAR11 04MA | 04MAR12 | 2 144 | |

| 13R 1; On completion of 30% soil natiling 0 28AUG08 2 1,488 ◆at intake I-3 13R 2; On completion of 60% soil natiling 0 25NOV08 2 1,399 ◆at intake I-3 13R 3; On completion of all soil nating works 0 12MAY09 2 1,231 ◆at intake I-3 13R 4; On completion of 10% piles by number 0 26MAY08 2 1,582 ◆at intake I-3 | 0 19FEB11 2 583 | channel 0 21JAN11 2 612 | G.L 0 24FEB09 2 1,308 | G.L 0 05SEP08 2 1,480 | 0 26MAR10 2 913 | | 0 05MAY11 2 508 | 0 293EP09 2 1,091 | 0 23NOV09 2 1,036 | 0 09FEB09 2 1,323 | n chamber 0 18FEB10 2 949 | 0 08.JAN11 2 625 | 0 21OCT09 2 1,069 Helmin C 1 | | C 0 17AUG10 2 769 | 0 08JAN10 2 990 | 31DEC09 2 998 | 0 : 28DEC09 2: 1,001 | 0 22DEC09 2 1,007 | 0 18DEC09 2 1,011 | 0 15DEC09 2 11.014 | 11DEC09 2 1.018 | 0 210CT09: 2 1,069 | | ### Part Process Control of Contr | 109 2 1,018 109 2 1,014 109 2 1,011 109 2 1,001 100 2 1,001 100 2 1,001 100 2 1,001 100 2 1,001 100 2 1,001 100 2 1,009 100 2 1,036 100 2 1,036 100 2 1,036 100 2 1,036 11 2 1,031 11 2 1,159 12 1,159 13 2 1,159 14 2 1,159 15 2 1,159 15 2 1,159 15 2 1,159 15 2 1,159 15 2 1,159 15 2 1,159 15 2 1,159 15 2 1,159 15 2 1,159 16 2 1,159 17 2 1,159 18 2 1,159 19 <td< th=""><th></th><th>3CL1CI3A02 3CL1; On establishing tunnelling equipments 3CL1CI3A04 3cL 2; On completion of 12.5% perm. tunnel lining 3CL1CI3A08 3cL 4; On completion of 25% perm. tunnel lining 3CL1CI3A10 3cL 5; On completion of 50% perm. tunnel lining 3CL1CI3A11 3cL 5; On completion of 50% perm. tunnel lining 3CL1CI3A12 3cL 6; On completion of 50% perm. tunnel lining 3CL1CI3A14 3cL 7; On completion of 50% perm. tunnel lining 3CL1CI3A18 3cL 9; On completion of 62.5% perm. tunnel lining 3CL1CI3A18 3cL 9; On completion of 62.5% perm. tunnel lining 3CL1CI3A18 3cL 9; On completion of 62.5% perm. tunnel lining 3CL1CI3A18 3cL 9; On completion of 60.5% perm. tunnel lining 3CL1CI3A18 3cL 9; On completion of 60.5% perm. tunnel lining 3CL1CI3A18 3cL 9; On completion of 60.5% perm. tunnel lining 3CL1CI3A18 3cL 9; On completion of 60.5% perm. tunnel lining 3CL1CI3A18 3cL 9; On completion of 60.5% perm. tunnel lining 3CL1CI3A18 3cL 9; On completion of forexavation works 3CL1CI3A18 3cL 9; On completion of forexavation of 60.5% of excavation 3CL1CI3A18 3cL 9; On completion of forex shaft 3CL1CI3A18 3cL 9; On completion of forex shaft 3CL1CI3A18 3cL 9; On completion of forex shaft 3CL1CI3A18 3cL 9; On completion of forex shaft 3CL1CI3A18 3cL 9; On completion of forex shaft 3CL1CI3A18 3cL 9; On completion of forex shaft 3CL1CI3A18 3cL 9; On completion of forex shaft 3CL1CI3A18 3cL 9; On completion of 60.5% of excavation at G.L 3CL1CI3A18 3cL 9cl 9cl 9cl 9cl 9cl 9cl 9cl 9cl 9cl 9cl</th></td<> | | 3CL1CI3A02 3CL1; On establishing tunnelling equipments 3CL1CI3A04 3cL 2; On completion of 12.5% perm. tunnel lining 3CL1CI3A08 3cL 4; On completion of 25% perm. tunnel lining 3CL1CI3A10 3cL 5; On completion of 50% perm. tunnel lining 3CL1CI3A11 3cL 5; On completion of 50% perm. tunnel lining 3CL1CI3A12 3cL 6; On completion of 50% perm. tunnel lining 3CL1CI3A14 3cL 7; On completion of 50% perm. tunnel lining 3CL1CI3A18 3cL 9; On completion of 62.5% perm. tunnel lining 3CL1CI3A18 3cL 9; On completion of 62.5% perm. tunnel lining 3CL1CI3A18 3cL 9; On completion of 62.5% perm. tunnel lining 3CL1CI3A18 3cL 9; On completion of 60.5% perm. tunnel lining 3CL1CI3A18 3cL 9; On completion of 60.5% perm. tunnel lining 3CL1CI3A18 3cL 9; On completion of 60.5% perm. tunnel lining 3CL1CI3A18 3cL 9; On completion of 60.5% perm. tunnel lining 3CL1CI3A18 3cL 9; On completion of 60.5% perm. tunnel lining 3CL1CI3A18 3cL 9; On completion of forexavation works 3CL1CI3A18 3cL 9; On completion of forexavation of 60.5% of excavation 3CL1CI3A18 3cL 9; On completion of forex shaft 3CL1CI3A18 3cL 9; On completion of forex shaft 3CL1CI3A18 3cL 9; On completion of forex shaft 3CL1CI3A18 3cL 9; On completion of forex shaft 3CL1CI3A18 3cL 9; On completion of forex shaft 3CL1CI3A18 3cL 9; On completion of forex shaft 3CL1CI3A18 3cL 9; On completion of forex shaft 3CL1CI3A18 3cL 9; On completion of 60.5% of excavation at G.L 3CL1CI3A18 3cL 9cl |
|---|---|---|---|--|---|--|--|---|---|--|---|--|--|--|--|--|--|----------------------|---|---|---|---|---|--|--|--|--------------------|---|
| | 0 05/MAY11 2 508 | 2 0 19FEB11 2 583 | Columbia Columbia | G.L 0 24FEB09 2 1,308 G.L 0 12MAY09 2 1,159 nef 0 23JUL09 2 1,159 nef 0 2JJAN11 2 674 0 19FEB11 2 583 0 19FEB11 2 508 0 19FEB11 2 508 | Columbia Columbia | G.L 0 26MAR10 2 913 Pat Intake I-3 Pat Intake I-3 G.L 0 24FEB09 2 1,1308 Pat Intake I-3 Pat Intake I-3 <td< td=""><td> Channel and associated decking at Intake I-3 Channel at Intake I-3 Chann</td><td> C O O O O O O O O O</td><td>C 0 29SEP09 2 1,091 Punder this Cost C 0 0 26MAY11 2 508 G.L 0 26MAR10 2 913 Punder this Cost G.L 0 26MAR10 2 913 Punder this Cost G.L 0 26FEB09 2 1,231 Pat Intake I-3 Pat Intake I-3 Pat Intake I-3 G.L 0 23JUL09 2 1,159 Pat Intake I-3 Pat Intake I-3</td><td>C 0 23NOV09 2 1,034 C 0 29SEP09 2 1,091 C 0 26MAY11 2 508 G.L 0 26MARTIO 2 913 G.L 0 24FEB09 2 1,308 G.L 0 23JULO9 2 1,139 G.L 0 22JULO9 2 1,139 mel 0 23JULO9 2 1,139 0 21JANTI 2 674 0 21JANTI 2 583 0 19FEB11 2 583 0 19FEB11 2 583</td><td>0 0 09FEB09 2 1,332 ◆at Intake I-3 <</td><td>0 18FEB10 2 943 Pat Intake I.3 Pat Intake I.3 Pat Intake I.3 0 0 23NDV09 2 1,323 1,323 1,323 Pat Intake I.3 Pat Intake I.3 Pat Intake I.3 Pat Intake I.3 Punder this Cost C 0 28SED09 2 1,333 Pat Intake I.3 Pat Intake</td><td>0 0</td><td> 0 21OCT09 2 11,069 Colored G.L. except for Adit Tunnel at Intake I-3 O O OSNAV11 2 E25 O O OSSNAV11 2 E35 O O OSSNAV11 2 E31 O OSSNAV11 2 E31 O O OSSNAV11 O O O OSSNAV11 O O OSSNAV11 O O O OSSNAV11 O O OSSNAV11 O O O OSSNAV11 O O O OSSNAV11 O O O O OSSNAV11 O O O O O O O O O </td><td> 0 21/OCT09 2 1,069 </td><td>C 0 17ALG10 2 769 0 0 0 0 0 0 0 0 0 4 belowe G.L. except for Adit Tunnel at Intake I-3 4 under this Cost Centre 0 0 0 0 0 0 4 belowe G.L. except for Adit Tunnel at Intake I-3 4 at Intake I-3 <th< td=""><td> C</td><td> 1</td><td> 1</td><td> 10 10 10 10 10 10 10 10</td><td> 10 18DEC09 2 1,017 </td><td> 150EC09 150EC09 2 1,014 </td><td> 10 10 10 10 10 10 10 10</td><td> 10</td><td>Wunder this Dost C</td><td></td><td></td><td>indices i centralité de partir</td></th<></td></td<> | Channel and associated decking at Intake I-3 Channel at Intake I-3 Chann | C O O O O O O O O O | C 0 29SEP09 2 1,091 Punder this Cost C 0 0 26MAY11 2 508 G.L 0 26MAR10 2 913 Punder this Cost G.L 0 26MAR10 2 913 Punder this Cost G.L 0 26FEB09 2 1,231 Pat Intake I-3 Pat Intake I-3 Pat Intake I-3 G.L 0 23JUL09 2 1,159 Pat Intake I-3 | C 0 23NOV09 2 1,034 C 0 29SEP09 2 1,091 C 0 26MAY11 2 508 G.L 0 26MARTIO 2 913 G.L 0 24FEB09 2 1,308 G.L 0 23JULO9 2 1,139 G.L 0 22JULO9 2 1,139 mel 0 23JULO9 2 1,139 0 21JANTI 2 674 0 21JANTI 2 583 0 19FEB11 2 583 0 19FEB11 2 583 | 0 0 09FEB09 2 1,332 ◆at Intake I-3 < | 0 18FEB10 2 943 Pat Intake I.3 Pat Intake I.3 Pat Intake I.3 0 0 23NDV09 2 1,323 1,323 1,323 Pat Intake I.3 Pat Intake I.3 Pat Intake I.3 Pat Intake I.3 Punder this Cost C 0 28SED09 2 1,333 Pat Intake I.3 Pat Intake | 0 | 0 21OCT09 2 11,069 Colored G.L. except for Adit Tunnel at Intake I-3 O O OSNAV11 2 E25 O O OSSNAV11 2 E35 O O OSSNAV11 2 E31 O OSSNAV11 2 E31 O O OSSNAV11 O O O OSSNAV11 O O OSSNAV11 O O O OSSNAV11 O O OSSNAV11 O O O OSSNAV11 O O O OSSNAV11 O O O O OSSNAV11 O O O O O O O O O | 0 21/OCT09 2 1,069 | C 0 17ALG10 2 769 0 0 0 0 0 0 0 0 0 4 belowe G.L. except for Adit Tunnel at Intake I-3 4 under this Cost Centre 0 0 0 0 0 0 4 belowe G.L. except for Adit Tunnel at Intake I-3 4 at Intake I-3 <th< td=""><td> C</td><td> 1</td><td> 1</td><td> 10 10 10 10 10 10 10 10</td><td> 10 18DEC09 2 1,017 </td><td> 150EC09 150EC09 2 1,014 </td><td> 10 10 10 10 10 10 10 10</td><td> 10</td><td>Wunder this Dost C</td><td></td><td></td><td>indices i centralité de partir</td></th<> | C | 1 | 1 | 10 10 10 10 10 10 10 10 | 10 18DEC09 2 1,017 | 150EC09 150EC09 2 1,014 | 10 10 10 10 10 10 10 10 | 10 | Wunder this Dost C | | | indices i centralité de partir |
| * under this | ▼ | 0 19FER1 2 | 1.L 0 12MAY09 2 1,231 | 1.L 0 24FEB09 2 1,308 1.L 0 12MAY09 2 1,231 0 23JUL09 2 1,159 1 0 20NOV10 2 674 0 21JAN11 2 612 0 19FER11 2 529 | 1.L 0 0 05SEP08 2 1.480 | 1.L 0 0 26MAR10 2 913 1.L 0 0 24FEB09 2 1,231 1.L 0 0 24FEB09 2 1,231 0 0 23JUL09 2 1,531 el 0 22JAN11 2 612 0 21JAN11 2 612 | 0 26MAR10 2 913 | 0 05MAY11 2 508 L 0 0 26MAR10 2 913 L 0 0 05SEP08 2 1,480 L 0 0 24FEB09 2 1,308 0 0 23JUL09 2 1,159 0 0 20NOV10 2 674 0 0 21JAN11 2 612 0 0 19FER11 2 503 | 0 29SEP09 2 1,091 0 26MAY11 2 508 L 0 26MAR10 2 913 L 0 24FEB09 2 1,308 L 0 23JUL09 2 1,159 0 21JAN11 2 612 0 19FFB11 2 60 | 0 23NOV09 2 1,036 Part Intake I-3 Part Intake I-3 Part Intake I-3 Punder this Cost 0 0 0 05MAY11 2 508 4 | 0 0 0 0 0 0 23NOV09 2 1,323 ◆at Intake I-3 ◆orlation intake I-3 ◆orlationer at Intake I-3 | 0 18FEB10 2 943 Pat Intake I-3 Chamber at Intake I-3 Pat Intake | 0 0 0 0 0 0 0 0 0 0 0 0 09FEB09 2 1,323 0 4 0 0 0 0 0 0 0 0 0 0 23NOV09 2 1,036 2 1,036 2 4 </td <td> 0 0 0 0 0 0 0 0 0 0</td> <td> 0 210CT09 2 1,059 2</td> <td>C 0 17AUG10 2 759 0 21OCT09 2 1,069 0 0 GSNOV10 2 689 0 0 GSNOV10 2 689 0 0 GSEE09 2 1,089 0 2 2NOV09 2 1,034 0 2 2SEE09 2 1,094 0 2 4FEB09 2 1,094 0 2 4FEB09 2 1,398 0 2 4FEB09 2 1,398 0 2 4FEB09 2 1,480 0 2 3JUL09 2 1,189 0 2 0 2NOV10 2 612 0 2 1,1480 0 2 1,1480</td> <td> 1</td> <td> 3 DEC09 2 999 </td> <td> 1</td> <td> 1</td> <td> 18DECO9 2 1,001 2 1</td> <td> 150EC09 150EC09 2 1,014 </td> <td> 11 12 12 13 14 15 15 15 15 15 15 15</td> <td> 10 110EC09 2 1,0104 2 1,0104 3 4 4 1 1 1 1 1 1 1 1</td> <td>at Intake I-3</td> <td>N CI</td> <td>0</td> <td>in of all works under this CC</td> | 0 0 0 0 0 0 0 0 0 0 | 0 210CT09 2 1,059 2 | C 0 17AUG10 2 759 0 21OCT09 2 1,069 0 0 GSNOV10 2 689 0 0 GSNOV10 2 689 0 0 GSEE09 2 1,089 0 2 2NOV09 2 1,034 0 2 2SEE09 2 1,094 0 2 4FEB09 2 1,094 0 2 4FEB09 2 1,398 0 2 4FEB09 2 1,398 0 2 4FEB09 2 1,480 0 2 3JUL09 2 1,189 0 2 0 2NOV10 2 612 0 2 1,1480 0 2 1,1480 | 1 | 3 DEC09 2 999 | 1 | 1 | 18DECO9 2 1,001 2 1 | 150EC09 150EC09 2 1,014 | 11 12 12 13 14 15 15 15 15 15 15 15 | 10 110EC09 2 1,0104 2 1,0104 3 4 4 1 1 1 1 1 1 1 1 | at Intake I-3 | N CI | 0 | in of all works under this CC |
| 0 21JAN11 2 612 channel and associated deliving at Intake I-3 value Intake I-3 0 19FEB11 2 583 4at Intake I-3 4at Intake I-3 0 0 05MAY11 2 508 4at Intake I-3 | channel 0 21JAN11 2 612 | | 0 12MAY09 2 1,231 | 0 24FEB09 2 1,308 | 0 05SEP08 2 1,480 | 0 26MAR10 2 913 0 05SEP08 2 1,480 0 24FEB09 2 1,308 0 12MAV09 2 1,231 0 23JUL09 2 1,159 | 0 26MAR10 2 913 | 0 05MAY11 2 508 | 0 29SEP09 2 1.091 | 0 23NOV09 2 1,036 0 29SEP09 2 1,091 Padit at Intake I-3 Padit at Intake I-3 Punder this Cost 0 26MAPTI 2 913 Punder this Cost Padit at Intake I-3 Punder this Cost L 0 24FEB09 2 1,231 Padit Intake I-3 Padit Intake Intake Intake Intake Intake Intake Intake Intake Int | 0 09FEBO9 2 1,338 ◆at Intake I-3 ◆adit at Intake I-3 0 23NOV09 2 1,091 ◆adit at Intake I-3 ◆adit at Intake I-3 ◆under this Cost 0 05MAY11 2 508 +at Intake I-3 ◆under this Cost ◆under this Cost L 0 24FEB09 2 1,231 ◆at Intake I-3 ◆at Intake I-3 ◆at Intake I-3 ◆at Intake I-3 L 0 24FEB09 2 1,231 ◆at Intake I-3 ◆at Intake I-3 ◆at Intake I-3 ◆at Intake I-3 | 0 | 0 | 0 21/OCT09 2 i j,069 CGNOV10 2 i j,069 Belowe G.L. escept for Adit Tunnel at Intake I-3 Cotamble Intake I-3 Pelow G.L. escept for Adit Tunnel at Intake I-3 Pelowe G.L. escept for Adit Tunnel at Intake I-3 Pelowe G.L. escept for Adit Tunnel at Intake I-3 Pelowe G.L. escept for Adit Tunnel at Intake I-3 Pelowe G.L. escept for Adit Tunnel at Intake I-3 Pelowe G.L. escept for Adit Tunnel at Intake I-3 Pelowe G.L. escept for Adit Tunnel at Intake I-3 Pelowe G.L. escept for Adit Tunnel at Intake I-3 Pelowe G.L. escept for Adit Tunnel at Intake I-3 Pelowe G.L. escept for Adit Tunnel at Intake I-3 Pelowe G.L. escept for Adit Tunnel at Intake I-3 Pelowe G.L. escept for Adit Tunnel at Intake I-3 Pelowe G.L. escept for Adit Tunnel at Intake I-3 Pelowe G.L. escept for Adit Tunnel at Intake I-3 Pelowe G.L. escept for Adit Tunnel at Intake I-3 Pelowe G.L. escept for Adit Tunnel at Intake I-3 Pelowe G.L. escept for Adit Tunnel at Intake I-3 Pelowe G.L. escept for Adit Tunnel G.L. escept for Adit Tunnel at Intake I-3 Pelowe G.L. escept for Adit Tunnel G.L. escept f | 0 21OCT09 2 1,069 0 05NOV10 2 625 belowe G.L. except for Adit Tunnel at Intake I-3 Pat Intake I- | C 0 17AuG10 2 769 Actin Tunnel at Inhake 1-3 Punder this Cost Centre 0 21OCT09 2 ii.069 2 ii.069 2 ii.069 4 below G. except for Adit Tunnel at Inhake 1-3 4 chamber at Inhake 1-3 4 chandar at Inhake 1-3 4 chamber at Inhake 1-3 | 1 | 1 | 1 | 0 22DEC09 2 1,007 | 1 10 10 10 10 10 10 10 | Section 15DE-C09 2 1,014 | 10 | 10 | י מו ווומוע ו-ט | 2 | 0 | on of 50% of approach channel |
| nnel 0 20NOV10 2 674 | oproach channel 0 20NOV10 2 674 channel 0 21JAN11 2 612 | 0 20NOV10 2 674 | 12MAY09 2 1,231 | G.L 0 24FEB09 2 1,308 | G.L 0 05SEP08 2 1,480 | G.L 0 26MAR10 2 913 ◆at Intake I-3 G.L 0 05SEP08 2 1480 ◆at Intake I-3 G.L 0 24FEB09 2 1;308 ◆at Intake I-3 G.L 0 12MAY09 2 1;231 ◆at Intake I-3 | L 0 28MAR10 2 913 ◆at Intake I-3 ◆at Intake I-3 ◆at Intake I-3 ◆at Intake I-3 L 0 24FEB09 2 1,308 ◆at Intake I-3 ◆at Intake I-3 ◆at Intake I-3 | 0 OSMANY11 2 508 Cunder this Cost L 0 26MAR10 2 913 Cunder this Cost Cunder this C | 0 29SEP09 2 1,091 0 05MAY11 2 508 L 0 26MAR10 2 1,480 L 0 24FEB09 2 1,231 L 0 12MAY09 2 1,231 | 0 23NOV09 2 1,036 0 29SEP09 2 1,091 0 0 0 0 0 26MAP10 2 913 0 0 05SEP08 2 1,308 L 0 24FEB09 2 1,308 L 0 12MAY09 2 1,231 | 0 09FEBO9 2 1,323 ◆at Intake I-3 ◆adit at Intake I-3 0 23NOV09 2 1,091 ◆adit at Intake I-3 ◆adit at Intake I-3 ◆under this Cost 0 05NAY11 2 508 4 | 0 18FEB10 2 949 Pat Intake I-3 Pat Intake Int | 0 0 0 0 0 0 0 0 0 0 | 0 21OCT09 2 i nose Pelowe G.L. escept for Adit Tunnel at Intake I-3 Pelowe G.L. escept for Adit Tunnel at Intake I-3 Pat Intake I-3 | 0 21OCT09 2 1,089 Belowe G.I. escept for Adif Tunnel at Intake I-3 Achamber at Intak | C 0 17AuG10 2 759 Purple at Inhake I-3 Purple at Inhake I- | C OBJANTO 2 990 Patit Tunnel at Intake 3 Patit Tunnel at Int | 1 | 1 | 0 22DEC09 2 1,007 4 Adit Turnel at Intake 1-3 1,007 4 Adit Turnel at Intake 1-3 1 10 1 10 10 10 10 10 | 150EC09 2 i i j j j j j j j j j j j j j j j j j | 1 | 10 | , d | 8 | 0 | on of excavation at G.L. |
| nnel 0 23JUL09 2 1159 Pequannel Pequannel Pequannel Intake I-3 Pequannel Pequannel Intake I-3 Pequannel Intake I-3 Pequannel Intake I-3 Pequannel Intake I-3 Pepulation Intake I-3 Pepulation Intake I-3 Pepulation Pepulation Intake I-3 Pepulation Intake I-3 Pepulation Intake I-3 Pepulation Intake I-3 Pepulation Pepulation Intake I-3 Pepulation Intake I-3 Pepulation Intake I-3 Pepulation Pepulation Intake I-3 Pepulation | oproach channel 0 23JUL09 2 1,159 oproach channel 0 20NOV10 2 674 channel 0 21JAN11 2 612 | 0 23JUL09 2 1,159 0 at G.L. at Intake I-3 0 20NOV10 2 674 | | G.L 0 24FEB09 2 1,308 | G.L 0 05SEP08 2 1,480 | G.L 0 26MAR10 2 913 Pat Intake I-3 G.L 0 05SEP08 2 1,480 Pat Intake I-3 G.L 0 24FEB09 2 1,308 Pat Intake I-3 | Cost | 0 05/MAY11 2 508 L 0 26MAR10 2 913 L 0 24FEB09 2 11,308 | 0 29SEP09 2 1,091 0 05MAY11 2 508 L 0 26MAR10 2 913 L 0 05SEP08 2 1,480 L 0 24FEB09 2 1,308 | 0 23NOV09 2 1,036 0 29SEP09 2 1,091 0 05MAY11 2 508 L 0 26MAR10 2 1,480 L 0 24FEB09 2 1,480 L 0 24FEB09 2 1,308 | 0 09FEB09 2 1,323 ◆at Intake I-3 ◆adit at Intake I-3 0 23NOV09 2 1,031 ◆adit at Intake I-3 ◆adit at Intake I-3 0 25SEP09 2 1,091 ◆adit at Intake I-3 ◆adit at Intake I-3 ◆under this Cost L 0 28MARTIO 2 91,309 ◆at Intake I-3 ◆at Intake I-3 ◆at Intake I-3 | 0 18FEB10 2 949 Pat Intake I-3 Pat Intake Intake I-3 Pat Intake | 0 08JAN11 2 625 949 941 Intake I-3 941 Intake I-3 942 Intake I-3 943 942 Intake I-3 943 943 Intake I-3 943 943 Intake I-3 944 Intake Inta | 0 21OCT09 2 i1,089 belowe G.L. escept for Adit Tunnel at Intake I-3 below G.L. escept for Adit Tunnel at Intake I-3 thrake I-3 at Intake I-3 | 0 210CT09 2 1,069 0 05NOV10 2 689 0 0 0 0 0 0 0 0 0 | C 0 17AUG10 2 789 Peroper 10 moder this Cost Centre 0 21CCT09 2 1,069 Belowe G.L. escept for Adit Tunnel at Intake I-3 Punder this Cost Centre 0 0 0SANU11 2 625 Belowe G.L. escept for Adit Tunnel at Intake I-3 Pat Intake I-3 | 1 | 1 | 1 | 0 220EC09 2 1,007 | 9 0 18DEC09 2 1,001 in 0 28DEC09 2 1,001 in 0 28DEC09 2 1,001 in 0 0 8DEC09 3 1,001 in 0 0 8DEC09 3 1,001 in 0 0 8DEC09 3 1,001 in 0 0 8DEC09 3 1,001 in 0 0 8DEC09 3 1,001 in 0 0 8DEC09 3 1,001 in 0 0 8DEC09 3 1,001 in 0 0 8DEC09 3 1,001 in 0 0 8DEC09 3 1,001 in 0 0 8DEC09 3 1,001 in 0 0 8DEC09 3 1,001 in 0 0 8DEC09 3 1,001 in 0 0 8DEC09 3 1,001 in 0 0 8DEC09 3 1,001 in 0 0 0 0 8DEC09 3 1,001 in 0 0 0 0 8DEC09 3 1,001 in 0 0 0 0 8DEC09 3 1,001 in 0 0 0 0 8DEC09 3 1,001 in 0 0 0 0 0 0 8DEC09 3 1,001 in 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 150EC09 2 1,014 | 1 | 1 1 1 2 1 1 1 1 2 1 1 | at Intake | 0 | 0 | n of 75% of excavation at G.L |
| 150EC09 2 1,009 2 1,001 4,000 2 1,001 4,000 2 1,001 4,000 2 1,001 | 0 2100709 2 1,099 0 160500 2 1,014 | 0 2100T09 2 1,009 0 1,000 0 1 | 0 | 0 210CT09 2 1,069 0 110EC09 2 1,001 0 22DEC09 2 1,001 0 22DEC09 2 1,001 0 22DEC09 2 1,001 0 22DEC09 2 1,001 0 310EC09 2 1,001 0 05AN11 2 625 0 05AN11 2 625 0 05AN11 2 625 0 05AN11 2 625 0 05AN11 2 1,001 0 05AN11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 210CT09 2 1,069 2 1,069 2 1,069 2 1,018 3 4 4 1 1 1 1 1 1 1 1 | 210CT09 2 1,069 | 210CT09 2 1,069 | 210CT09 2 1,069 15DEC09 2 1,014 15DEC09 2 1,014 18DEC09 2 1,011 22DEC09 2 1,001 22DEC09 2 1,069 2 1,069 2 1,069 2 1,069 2 1,323 23NOV09 2 1,388 | 110 210 2 1,069 2 1,069 2 1,014 150 2 1,014 150 2 1,014 150 2 1,011 220 2 1,011 220 2 2 398 220 2 398 220 2 398 220 2 398 220 2 398 220 2 398 220 2 398 220 2 398 220 2 398 220 2 398 220 2 398 220 398 220 398 328 | 110EC09 2 1,069 4 euipment 150EC09 2 1,014 4 euipment 150EC09 2 1,014 4 euipment 180EC09 2 1,001 220EC09 2 1,001 280EC09 2 1,001 4 euipment 280EC09 2 1,001 280EC09 2 1,001 4 euipment 5 euipment 6 euipment | 210CT09 2 1,069 15DEC09 2 1,014 15DEC09 2 1,014 15DEC09 2 1,011 22DEC09 2 1,001 28DEC09 2 1,001 31DEC09 2 998 31DEC09 2 998 31DEC09 2 998 4Adit 08JAN10 2 990 17AUG10 2 797 17AUG10 2 797 17AUG10 2 889 05NOV10 2 689 | 210CT09 2 1,069 11DEC09 2 1,014 15DEC09 2 1,011 22DEC09 2 1,001 28DEC09 3 1,00 | 210CT09 2 1,069 Padit Tunnel 15DEC09 2 1,014 15DEC09 2 1,014 18DEC09 2 1,011 22DEC09 2 1,001 31DEC09 2 998 Padit Tunnel Pad | 21OCT09 2 1,069 11DEC09 2 1,014 15DEC09 2 1,014 18DEC09 2 1,007 22DEC09 2 1,007 28DEC09 2 1,007 31DEC09 2 990 08JAN10 2 990 20JUL10 2 797 | 210CT09 2 1,069 Padit Tunnel 15DEC09 2 1,014 Padit Tunnel 18DEC09 2 1,014 Padit Tunnel 22DEC09 2 1,007 Padit Tunnel 23DEC09 2 1,007 Padit Tunnel 31DEC09 2 990 Padit Tunnel 220JUL10 2 990 Padit Tunnel 220JUL10 2 20JUL10 2 20JUL | 210CT09 2 1,069 11DEC09 2 1,018 15DEC09 2 1,014 18DEC09 2 1,007 22DEC09 2 1,007 22DEC09 2 1,007 31DEC09 2 1,007 31DEC09 2 998 | 210CT09 2 1,069 11DEC09 2 1,018 15DEC09 2 1,014 18DEC09 2 1,007 22DEC09 2 1,007 28DEC09 2 1,007 28DEC09 2 1,007 | 210CT09 | 210CT09 2 1,069 11DEC09 2 1,018 15DEC09 2 1,014 18DEC09 2 1,014 | 21OCT09 2 1,069 | 210CT09 2 1,069 Peulpment for tunnelling at Intake | 21OCT09 2 1 069 | TO SERVICE AND ADDRESS OF THE PROPERTY OF THE | | 2224/2322/2027/2027/22/24/25/25/25/25/25/25/25/25/25/25/25/25/25/ | | には、自己の名の形式は自己の一方式を | |

| M2*40*4m2 | 12 18AUG10 31AUG10 1 8 | 10R1D00704 Drive temp. sheet piles along footpath |
|--|---------------------------|--|
| | 12 04AUG10 17AUG10 1 8 | 10H1DO0702 Form temp. working platorm |
| | | Constituto cascade y Upiter Par Box Culver |
| 810 | 24 07JUL10 03AUG10 1 8 | 3AL1D00606 Construct portal head wall |
| Fror TBM Launching Chamber | 12 22JUN10 06JUL10 1 8 | 3AL1DO0604 Construct permanent lining for CH5100-5085 |
| Eningling gahtry crane | 30 15MAY10 21JUN10 1 8 | |
| 313 | 12 18DEC10 04JAN11 1 8 | |
| | 48 04AUG10 29SEP10 1 74 | 10R1DO0604 Construct tapered open channel |
| 86 | 24 07JUL10 03AUG10 1 8 | 10R1DO0802 Excavation/formation for tapered open channel |
| | | construct Parel Read & Tussociated Statutess |
| 6.50 | 6 01MAR11 07MAR11 1 39 | 10R1DO0528 Reinstate existing outfall "W" |
| | 28FEB11 1 | 10R1DO0526 Construct open channel at 2.3 mPD |
| | 24 14JAN11 14FEB11 1 39 | 10R1DO0524 Construct channel toe below 2.3mPD |
| | 24 30DEC10 27JAN11 1 39 | 10R1DO0522 Excavate for open channel |
| | 40 11NOV10 29DEC10 1 39 | 10R1D00520 Construt wall & roof of box culvert; 2 cells |
| Chocete 160m3 | 20 19OCT10 10NOV10 1 39 | 10R1D00518 Construct base slabs of box culvert; 2 cells |
| Comments of the state of the st | 25AUG10 18OCT10 1 | 10R1D00516 Excavate for box-culvert; 2 cells |
| | 40 TIMAY10 28JUN10 1 39 | 10R1DO0515 Install 273mm dia temp, pile for nine modina |
| /II/Concete 160m3 | 16APR10 10MAY10 1 | 10H1DU00512 Construct base slabs of box culvert; 2 cells |
| (KEW) SOI 2900m3 | 19FEB10 | 10R1DO0510 Excavate for box-culvert; 2 cells |
| Resignation 2 cells; 105 rlos. | 48 18DEC09 18FEB10 1 39 | |
| E | 24 20NOV09 17DEC09 1 39 | 10R1DO0506 Excavate & form pipe roofing platform @+2.3mPD |
| | 36 08OCT09 19NOV09 1 39 | 10R1DO0504 Divert exist. outfall "W" under CPR arch bridge |
| | 0 08OCT09 2 47 | 10R1D00502 Site possession of Portion E-650d of DOC |
| | | Constanct tower Partito Culvert & Ocen Channel |
| | 12 11JUN10 25JUN10 1 40 | 10R1DO0424 Commission of Spiral Ramp |
| | 24 13MAY10 10JUN10 1 40 | 10R1D00422 Construct vehicular access bet. tunnel & s. ramp |
| | 27NOV09 27APR10 1 | 10H1D00416 Construct spiral ramp; +4.5 to +24mPD at O-1 |
| | | _ |
| | 16 24OCT09 12NOV09 1 40 | - |
| | 8 15OCT09 23OCT09 1 40 | 10R1DO0410 Construct base for vehicular access |
| sheet pile roofing & lagging ~180m2@asoil 640m3 | 48 18AUG09 14OCT09 1 40 | 10R1DO0408 Excavation for vehicular access underneath CPR |
| 740th3 soil & 4000m3 rock翻翻翻回回口口口口口口口口口口口口口口口口口口口口口口口口口口口口口口口口口 | 120 21MAR09 17AUG09 1 40 | 10R1DO0404 Mechanical excavation for spiral ramp |
| 340 nos. +13m lono | 12 07MAR09 20MAR09 1 40 | 10R1DO0402 Install 273mm dia. temp. pipe piles; 40 nos. |
| | | |
| 7. B. B. D. D. D. B. | Dur Starf Finish 15 Float | |
| STATE OF THE PARTY | Early Cal Total | To the second se |
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| | Start Finish 10 Float | 11E MANNELLA SIBONDI JERIKANIJA YSONDI JERIKANI MATANIKANI PARABATANI MANJA SIONDI KASAMINI MASIKANI MASIKANI 8 8 MOLI 12 BUSI 17 BUSIKANI KASAMINI MASIKANI MANJANI MANJANI MANJANI KASAMINI SIONDI KASAMINI MASIKANI MASI |
|--|--------------------------|--|
| 10R1DO0706 Excavate for box culvert (upper part) | _ | Emiliano de la companya de la compan |
| 10R1DO0708 Construct box-culvert (upper part) | 15OCT10 04JAN11 1 | Emission concrete 1830m3 |
| 10R1DO0710 Excavate for cascade construction | 05JAN11 | ##Soi 840m3, rock 600m3 |
| 10R1D00712 Construct cascade | 48 19FB11 16APR11 1 8 | Email:concrete 950m3 |
| 10R1D00714 Construct retaining wall, baffle, railing etc. | 48 19FEB11 16APR11 1 33 | |
| Seabethrotestion.Works | | |
| 10R1DO0804 Excavate & formation for 100m*16m slab | 72 11MAY10 05AUG10 1 93 | INERNOS Soil 4000m3 |
| 10R1D00806 Construct concrete apron with pre-cast RC slabs | 26MAY10 19AUG10 1 | 国际管理 1600°0.5m3 |
| 10R1DO0808 Installtion of precast stepped blocks | 144 06AUG10 27JAN11 1 93 | pre-cast panel 2340m2, granular filter 700m3Faster 2346mg 300mm granular fill & geotextile |
| 10R1DO0810 Removal of platform & formation | 12 08MAR11 21MAR11 1 39 | 128 |
| 10R1D00812 Install remain. Concrete apron for rem. Area | 12 22MAR11 04APR11: 1 39 | 163 |
| 14R5DO0802 Removal of sea wall armour | 72 26APR10 22JUL10 1 93 | [Nation 3640m3 |
| RepainingsWorks From 19th and over | | |
| 10R1D00904 Finishing & reinstatement works; Portion D | 48 19MAR11 19MAY11 1 33 | |
| 10R1DO0906 Pre-handover inspections and remedial works | 48 18APR11 17JUN11 1 33 | |
| 10R1D00908 Contractor serve notice for Works completion | 7 18JUN11 24JUN11 2 437 | |
| 10R1D00910 SO issues completion certificate | 21 25JUN11 15JUL11 2 437 | £32 |
| i 16R7DO0902 Landscaping works at Portion D | 120 19JAN11 17JUN11 1 33 | |
| 16R7D00904 Establishment Works at Portion D | 365 18JUN11 16JUN12 2 40 | |
| 3DL1D00902 Install flow measurement devices at Outfall O-1 | 24 18APR11 19MAY11 1 29 | 瑟 |
| 37L1D00904 Maintain & monitor flow monitoring | 365 20MAY11 18MAY12 2 69 | |
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| 110R1DO1002 10R 1; On completion of 20% excavation works | 0 09JUL08 2 1,538 | ♦Outill 6-1 |
| 10R1DO1004 10R 2; On completion of 40% excavation works | | ♦Outrail 0-1 |
| 10R1DO1006 10R 3; On completion of 60% excavation works | 08NOV08 2 | ♦ Optrall Q-1 |
| 10R1DO1008 10R 4; On completion of 80% excavation works | 14OCT09 2 1, | Onitail O-i |
| 10R1DO1010 10R 5; On completion all excavation works | 18FEB11 | eat Outfall 0-1 |
| 10R1DO1014 10R 7: On completion of social ramp to ±16mPD | 1 6 | ear Contral O-1 |
| 10R1DO1016 10R 8; On completion of spiral access ramp | 25JUN10 2 | ◆at Outfall O-1 |
| 10R1DO1018 10R 9; On completion box-culvert & open channel | 0 07MAR11 2 567 | ◆and open channel underneath CPR |
| 10R1DO1020 10R 10; On completion of seabed protection wks | 0 04APR11 2 539 | Protection works at Outfall O-1 |
| 10R1DO1022 10R 11; On completion of all works under this CC | 0 17JUN11 2 465 | &under this Cost Centre |
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| 14R5DO1102 14R 1; On complet. of remove exist. rock armour | 8 | ♦armour al Outfall O-1 |
| | 20JUN08 2 | In Outfall O-1 |
| 14R5DO1106 14R 3; On completion all soiling works | 0 13AUG08 2 1,503 | ◆nalling at Outfall O-1 |
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Appendix D

Implementation Status of Environmental Mitigation Measures

IMPLEMENTATION SCHEDULE

| EIA 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 necessary in order to suppress the potential dust impact. | DSD's Contractor | Construction Work Sites | Air Pollution Control (Construction Dust) Regulation | N/A |
| | The dust suppression measures set out in the <i>Air Pollution Control (Construction Dust)</i> Regulation, 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)</i> Regulation, the dust level is expected to be reduced by over 75%. | | | | N/A |
| | 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; any excavated dusty materials or stockpile of dusty materials should be covered entirely by impervious sheeting or sprayed with water so as to maintain the entire surface wet, and recovered or backfilled or reinstated within 24 hours of the excavation or unloading; | | | | √ |
| | stockpile of dusty materials should not extend beyond the pedestrian barriers, fencing or traffic cones; dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; | | | | √ |

| EIA 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 | 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; | DSD's Contractor | Construction Work Sites | Air Pollution Control (Construction Dust) Regulation | N/A |
| | where a site boundary adjoins a road, street or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length except for a site entrance or exit; | | | | ✓ |
| | • 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 vehicle entrance or exit should be kept clear of dusty materials; | | | | ✓ |
| | • 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; | | | | ✓ |
| | all dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty material wet; | | | | ✓ |
| | vehicle speed should be limited to 10 kph except on completed access roads; | | | | ✓ |
| | • 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 | | | | | |
| 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 programme delays | DSD's Contractor | Construction Work Sites | PN 2/93 Noise from Construction Activities & EIAO | N/A |
| | 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: | | | | |
| | only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction works; | | | | ✓ |
| | machines and plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; | | | | ✓ |

| EIA 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 Contractor | Construction Work | Air Pollution Control (Construction Dust) | N/A |
| | mobile plant should be sited as far away from NSRs as possible; and | | Sites | Regulation | N/A |
| | • material stockpiles and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities. | | | | N/A |
| | For Drill and Blast Works Charge mass per delay should be decreased by minimising the number of blastholes firing on each delay. | | | | 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). | _ | | | N/A |
| | For TBM Tunnelling 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. | | | | N/A |
| 4.6.2 | During Operation | DSD's Contractor | Project Area | NCO & EIAO | |
| | 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 | | | | |
| | only well-maintained plant should be operated on-site; | 1 | | | 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 | T | | 1 | |
| 5.9.1 | During Construction | DSD's Contractor | Construction Work Sites | Practice Note for Professional Persons with | N/A |
| | Mitigation measures and a spill control and response plan have been prepared for works at the intakes and work sites. | | | regard to site drainage (ProPECC PN 1/94) and | |
| | Precautions to be taken at any time of year when rainstorms are likely: | | | WQO | ✓ |
| | Temporarily exposed surfaces should be covered e.g. by tarpaulin. Temporary access roads should be protected by crushed stone or gravel. | 1 | | | N/A |
| | Trenches should be dug and backfilled in short sections. Measures should be taken to minimize the ingress of rainwater into trenches. | - | | | N/A |
| | Actions to be taken when a rainstorm is imminent or forecast: • Silt removal facilities, should be checked to ensure that they can function properly. | | | | N/A |

| EIA Ref. | Recommended Mitigation Measures | Who to implement the measure ? | Location of the measure | What requirements or standards for the measure to achieve ? | Status |
|-------------|--|--------------------------------|----------------------------|---|--------|
| 5.9.1 | Open stockpiles of construction materials on site should be covered with tarpaulin or similar fabric. | DSD's Contractor | Construction Work Sites | WQO | N/A |
| | 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. | | | | N/A |
| | Spill Control and Response Plan | | | | |
| | 1 Prevention and Precaution Measures | | | | |
| | General Precautions No discharge of silty water into watercourses. All materials to be used during construction and operation shall be identified and their hazard potential evaluated. | | | | N/A |
| | | | | | N/A |
| | Maintenance of vehicles and equipment involving activities with potential for leakage and spillage shall only be undertaken with the areas appropriately equipped to control these discharges. | | | | N/A |
| | Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials. | | | | N/A |
| | • Any construction plant which causes pollution to catchwaters or water gathering ground due to leakage of oil or fuel shall be removed off-site immediately. | | | | N/A |
| | • Suitable containers shall be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport | | | | N/A |
| | • Chemical waste containers shall be suitably labelled to notify and warn the personnel who are handling the wastes to avoid accidents. | | | | N/A |
| | Storage areas shall be selected at safe locations on site and adequate space shall be allocated to the storage area. | | | | N/A |
| | Prevent obstructions and tripping hazards. | | | | N/A |
| | Storage Precautions All chemical storage containers shall be correctly labelled. | | | | N/A |
| | Solid and impermeable enclosure walls or storage shelves shall be used. | _ | | | N/A |
| | Only compatible chemical wastes shall be stored in the same storage area. | | | | N/A |
| | Only compatible chemical wastes shall be stored in the same storage area. The storage areas shall be inspected to detect any leakages or defective containers on a regular basis. | - | | | N/A |
| | The storage areas shall be inspected to detect any leakages or defective containers on a regular basis. | - | | | N/A |
| | • Suitable notices warning of hazards, emergency response plans, telephone numbers etc shall be posted around the site, including storage areas. | 1 | | | N/A |
| | Large and heavy containers shall be stored at ground level. | | | | N/A |

| EIA 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. | | | | N/A | |
| 5.9.1 | Adequate space for handling of the containers shall be provided | DSD's | Construction | standards for the measure | N/A | |
| | • Spill response kits shall be located adjacent/near to the storage areas. | Contractor | Work Sites | | N/A | |
| | • A log of chemical wastes shall be maintained. | | | | N/A | |
| | Incompatible chemicals shall be stored separately. | | | | N/A | |
| | 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: | | | | N/A | |
| | • Only trained personnel who are equipped with protective clothing and equipment shall be allowed to enter the spillage area for clean up. | | | | | N/A |
| | • Spills shall be transferred appropriate back into containers using suitable equipment. | | | | N/A | |
| | Absorbent materials shall be used to clean up the spills and shall be disposed of as chemical wastes. | | | | N/A | |
| | Where appropriate suitable solvents may be used to clean the contaminated area after removal of all contaminated materials. | | | | N/A | |
| | All necessary protective devices, safety equipment, containers and clean up materials for emergency use shall be maintained to a high standard. | | | | | |
| | 3 Spill Clean Up and Disposal | _ | | | | |
| | Effect the response plan. | | | | N/A | |
| | Control the leakage and absorb the spillage using suitably absorbent materials. | | | | N/A | |
| | Provide safety equipment and personal protective equipment for handling of chemical wastes would be similar to that for handling of chemicals. | | | | N/A | |
| | Safety equipment includes but is not limited to: • Fire extinguishers. | | | | N/A | |
| | • Spades, brushes, dustpan, mop and bucket (or similar readily available on site). | | | | N/A | |
| | Absorbent material such as dry sand, tissues and toweling (all materials readily available on-site). | | | | N/A | |
| | • Containers including plaster bags, drums, etc. | | | | N/A | |
| | Absorbing materials. | | | | N/A | |
| | Pumps. | | | | N/A | |
| | Personal protective equipment includes as appropriate: • First-aid kits. | | | | N/A | |
| | Safety helmet and goggles. | | | | N/A | |
| | Gloves which can resist chemical reaction. | | | | N/A | |

| EIA 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 | N/A |
| 5.9.1 | Respirators and gas masks. | Contractor | Work Sites | | IV/A |
| | Face visor and masks. |] | | | N/A |
| 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. | | | | N/A |
| | The emergency plans should include the procedures for: | 1 | | | N/A |
| | spill prevention and precaution; | | | | IV/A |
| | response actions; and | | | | N/A |
| | spill clean up and disposal. | | | | N/A |
| | Spill prevention and precaution embraces good site practice and covers: | | | | N/A |
| | good housekeeping practices; | | | | IV/A |
| | chemical storage requirements; and | | | | N/A |
| | chemical transfer and transport. | | | | N/A |
| 5.9.3 | During Operation | DSD's 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 | Vegetation Removed from Site Clearance Wastes generated from site clearance shall be sorted and excavated topsoil segregated from | DSD's Contractor | Construction Work Sites | Waste Disposal Ordinance (Cap.354); Waste Disposal (Chemical Wastes) (General) Regulation (Cap | √ |
| | roots for re-use in landscaping works, thus eliminating the need for off-site disposal. 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. | | | 354) and ETWBTC No. 15/2003, Waste anagement on Construction Site | ✓ |

| EIA 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 Contractor | Construction Work Sites | WDO (Cap.354), ETWBTC No. 15/ 2003, ETWBTC No. 12/2002 and ETWBTC No. 31/2004 | |
| | 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 Work Sites | WDO (Cap.354) and ETWBTC No. 15/2003 | ✓ |
| | 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 Contractor | Construction Work Sites | WDO (Cap.354) and ETWBTC No. 15/2003 | √ |
| | 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 Contractor | Construction Work Sites | WDO (Cap.354), ETWBTC No. 15/2003 and ETWBTC No. 33/2002 | √ |

| EIA 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 |
| Ecology | | | | | |
| 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 Contractor | Construction Work Sites | EIAO | N/A |
| | 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. | | | | N/A |
| 7.7.2 | Minimisation 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. Measures for Construction Runoff | | | | N/A |
| | 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 | | | | N/A N/A |
| | 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 Contractor | Construction Work Sites | EIAO | N/A |
| | 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. | | | | N/A N/A |
| | 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. | | | | N/A N/A |

| EIA 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 Contractor | Construction Work Sites | EIAO | N/A |
| 7.7.3 | Compensation 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. Provide at least 2.2 ha of compensatory planting on the permanent and temporary affected | | | | N/A |
| | 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 Ref. | Recommended Mitigation Measures | Who to implement the measure ? | Location of the measure | What requirements or standards for the measure to achieve ? | Status |
|-----------------|--|---|-------------------------------|---|--------|
| Cultura | <u>Heritage</u> | | | | |
| 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 Contractor | Construction Work Sites | EIAO | N/A |
| | 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 archaeologist/ built heritage specialist | Construction Work Sites | EIAO | N/A |
| <u>Fisherie</u> | | | | · · · | |
| 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 Contractor | Construction Work Sites | EIAO | N/A |
| | 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. | | | | N/A |

Remarks:

√ x Compliance of mitigation measure Non-compliance of mitigation measure Not applicable

N/A



Appendix E

Status of License and Permit







Updated Status of Environmental Permit & Licence

| Application Date | Issued Date | Due Date | Environmental Permit / Licence | Ref No. | Account No. | Remarks |
|------------------|-------------|-----------------|---|---|-------------------|---|
| 2-Jan-2008 | 3-Jan-2008 | | Registration as a Waste Producer | 001026707 | | Contractor had received the acknowledge receipt on 3 Jan 2008. |
| 2-Jan-2008 | 26-Feb-2008 | | Waste Disposal (Chemical Waste) (General) - Chemical Waste Producer | | 5111-324-M2703-01 | |
| 2-Jan-2008 | 17-Jan-2008 | | Waste Disposal (Charges for Disposal of Construction Waste) Regulation - Billing Account | | 7006574 | |
| 10-Jan-2008 | 10-Jan-2008 | | Notification Pursuant to Section 3(1) of the Air Pollution Control (Construction Dust) Regulation | 001026901 | | Contractor had received the acknowledge receipt on 10 Jan 2008. |
| 25-Feb-2008 | | | Water Pollution Control Ordinance – Outfall 1 | 001028154 | | Contractor had received the acknowledge receipt on 3 March 2008. Waiting for EPD further notification. |
| 9-Apr-2008 | 29-Apr-2008 | | Notification of Change in the Registration of Chemical Waste Producer | | 5111-324-M2703-01 | MCSJV's Managing Director had been changed from Mr. Richard Myrans to Mr. Christopher Shaw. |
| 10-Apr-2008 | 6-May-2008 | | Further Environmental Permit | 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. |
| 11-Apr-2008 | 30-May-2008 | | Application for Issuance of Chits for Disposal of Construction Waste for Existing Account Holder | | 7006574 | Contractor had applied extra 200 chits for further usage. |
| 18-Apr-2008 | | | Water Pollution Control Ordinance – Intake 1, Intake 2, Intake 3 & Portion I | 001029978, 001029959, 001029960, 001029974 | | Contractor had received the acknowledge receipt on 7 & 8 May 2008. Debit note of Intake - 1 had been issued by EPD on 28 May 2008 and licence would be granted within a week. Waiting for EPD further notification for Intake 2, 3 & Portion I. |



Appendix F

Calibration Certificates

Project Title:

Design and Construction of Tsuen Wan Drainage Tunnel

Monitoring Location:

Long Beach Gardan

Calibration Date: Calibration Due Date 08-Apr-08

Time:

08-Jun-08 08:45

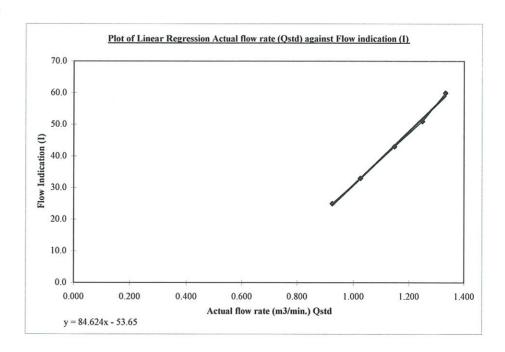
| Sampler Model: | TE5005X |
|-------------------------|----------|
| Serial No.: | 0390 |
| Calibrator Orifice no.: | 517N |
| Slope (m): | 2.02842 |
| Intercept (b): | -0.01789 |
| Correction coeff. (r) | 0.9999 |

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

| Oatd | $=\frac{1}{m}\times(\sqrt{1})$ | и | Pa | Tstd | 4. |
|------|--------------------------------|----|------|------|-----|
| Qsia | $= - \times ($ | пх | Pstd | Ta | -0) |

| Sample no. | Pressure Drop (H), inch | Flow (corrcted), m3/min | Actual flow rate (Qstd), m3/min | Flow indication (I), arbitrary |
|------------|-------------------------|-------------------------|---------------------------------|--------------------------------|
| 1 | 7.3 | 2.684 | 1.332 | 60.0 |
| 2 | 6.4 | 2.513 | 1.248 | 51.0 |
| 3 | 5.4 | 2.308 | 1.147 | 43.0 |
| 4 | 4.3 | 2.060 | 1.024 | 33.0 |
| 5 | 3.5 | 1.858 | 0.925 | 25.0 |

Correlation Coefficient: 0.9987



Remark

1HPa = 0.750062 mmHg

Calibrated by:

Hui Chun Ming

)

)

Date: 9-4.08

Checked by:

Tang Hiu Yeung

Date: 9-4-08

Project Title:

Design and Construction of Tsuen Wan Drainage Tunnel

Monitoring Location:

Greenview Terrance

Calibration Date:

08-Apr-08

Calibration Due Date Time:

08-Jun-08 08:30

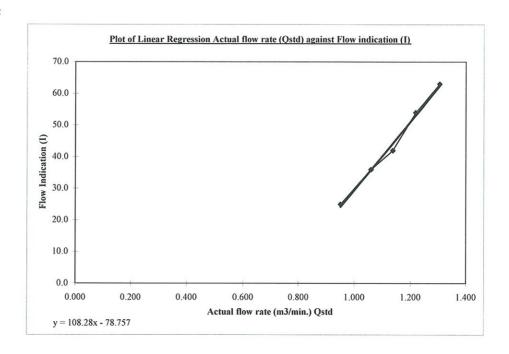
| Sampler Model: | TE5005X |
|-------------------------|----------|
| Serial No.: | 0646 |
| Calibrator Orifice no.: | 517N |
| Slope (m): | 2.02842 |
| Intercept (b): | -0.01789 |
| Correction coeff. (r) | 0.9999 |

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

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

| Sample no. | Pressure Drop (H), inch | Flow (corrcted), m ³ /min | Actual flow rate (Qstd), m ³ /min | Flow indication (I), arbitrary |
|------------|-------------------------|--------------------------------------|--|--------------------------------|
| 1 | 7.0 | 2.628 | 1.304 | 63.0 |
| 2 | 6.1 | 2.453 | 1.218 | 54.0 |
| 3 | 5.3 | 2.287 | 1.136 | 42.0 |
| 4 | 4.6 | 2.130 | 1.059 | 36.0 |
| 5 | 3.7 | 1.911 | 0.951 | 25.0 |

Correlation Coefficient: 0.9962



Remark

1HPa = 0.750062 mmHg

Calibrated by:

Hui Chun Ming

Date: 9 . 4 . 0 8

Checked by:

Tang Hiu Yeung

)

Date: 9 - 4 - 08

Project Title:

Design and Construction of Tsuen Wan Drainage Tunnel

Monitoring Location:

Ho Fung College

Calibration Date:

08-Apr-08

Calibration Due Date

08-Jun-08

Time:

17:30

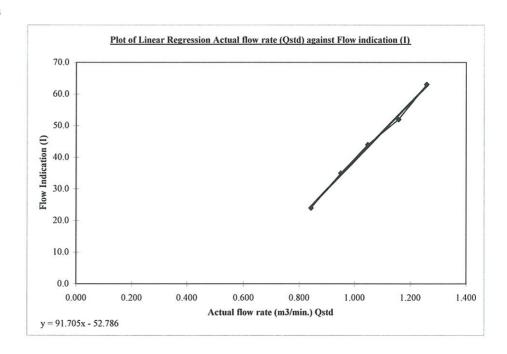
| Sampler Model: | BM2000HX |
|-------------------------|----------|
| Serial No.: | 4994 |
| Calibrator Orifice no.: | 517N |
| Slope (m): | 2.02842 |
| Intercept (b): | -0.01789 |
| Correction coeff. (r) | 0.9999 |

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

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

| Sample no. | Pressure Drop (H), inch | Flow (corrcted), m3/min | Actual flow rate (Qstd), m ³ /min | Flow indication (I), arbitrary |
|------------|-------------------------|-------------------------|--|--------------------------------|
| 1 | 6.5 | 2.532 | 1.257 | 63.0 |
| 2 | 5.5 | 2.329 | 1.157 | 52.0 |
| 3 | 4.5 | 2.107 | 1.048 | 44.0 |
| 4 | 3.7 | 1.911 | 0.951 | 35.0 |
| 5 | 2.9 | 1.691 | 0.843 | 24.0 |

Correlation Coefficient: 0.9983



Remark

1HPa = 0.750062 mmHg

Calibrated by:

Hui Chun Ming

Checked by:

Tang Hiu Yeung

Date: 9-4-08

Project Title: Design and Construction of Tsuen Wan Drainage Tunnel

Monitoring Location: Heng Hoi Chi Hong Ship Temple

Calibration Date: 08-Apr-08 **Calibration Due Date** 08-Jun-08 Time: 13:00

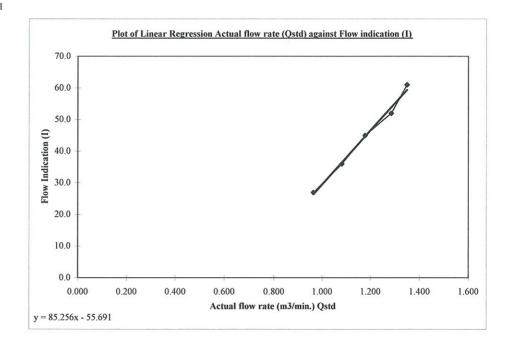
| Sampler Model: | BM2000HX |
|-------------------------|----------|
| Serial No.: | 5875 |
| Calibrator Orifice no.: | 517N |
| Slope (m): | 2.02842 |
| Intercept (b): | -0.01789 |
| Correction coeff. (r) | 0.9999 |

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

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

| Sample no. | Pressure Drop (H), inch | Flow (corrcted), m3/min | Actual flow rate (Qstd), m3/min | Flow indication (I), arbitrary |
|------------|-------------------------|-------------------------|---------------------------------|--------------------------------|
| 1 | 7.5 | 2.720 | 1.350 | 61.0 |
| 2 | 6.8 | 2.590 | 1.286 | 52.0 |
| 3 | 5.7 | 2.371 | 1.178 | 45.0 |
| 4 | 4.8 | 2.176 | 1.082 | 36.0 |
| 5 | 3.8 | 1.936 | 0.963 | 27.0 |

Correlation Coefficient: 0.9951



Remark

1HPa = 0.750062 mmHg

Calibrated by:

Hui Chun Ming

)

)

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

| | ========= | | ======= | ======== | ======== | ====== |
|-----------------------|-------------------------|------------------------|------------------------------|--|----------------------------------|---------------------------------|
| PLATE OR Run # | VOLUME START (m3) | VOLUME STOP (m3) | DIFF VOLUME (m3) | DIFF TIME (min) | METER DIFF Hg (mm) | ORFICE DIFF H2O (in.) |
| 1 2 3 4 5 | NA NA NA NA | NA NA NA NA | 1.00 1.00 1.00 1.00 | 1.4040 0.9940 0.8860 0.8450 0.6980 | 3.2 6.4 7.9 8.8 12.8 | 2.0 4.0 5.0 5.5 8.0 |

DATA TABULATION

| Vstd | (x axis) Qstd | (y axis) | | Va | (x axis) Qa | (y axis) |
|--|--|--|----------|--|--|--|
| 0.9883 0.9841 0.9820 0.9809 0.9756 | 0.7039 0.9901 1.1084 1.1608 1.3977 | 1.4090 1.9926 2.2278 2.3365 2.8179 | | 0.9957 0.9915 0.9894 0.9882 0.9829 | 0.7092 0.9975 1.1167 1.1695 1.4082 | 0.8889 1.2570 1.4054 1.4740 1.7777 |
| Qstd slo intercer coeffici | ot (b) = ient (r) = | 2.02953 -0.01939 0.99999 | [a)] | Qa slop intercep coeffici | t (b) = | 0.99999 |

CALCULATIONS

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

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

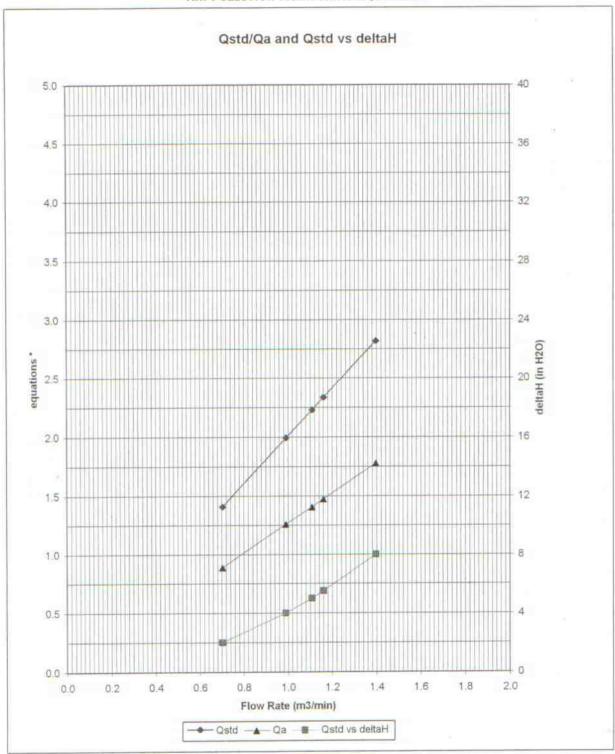
For subsequent flow rate calculations:

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 513.467.9000 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:

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

#517N



Certificate No.

80026

Page

3 Pages

Customer: Hyder Consulting Limited

Address:

Room 3801., Hopewell Centre, 183 Queen's Road East, Wan Chai, Hong Kong

Order No.:

Q72325

Date of receipt

3-Jan-08

Item Tested

Description: Sound Level Meter

Manufacturer: B&K

Model

: 2238

Serial No.

: 2285726

Test Conditions

Date of Test: 17-Jan-08

Supply Voltage

Ambient Temperature:

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

Relative Humidity: (50 ± 25) %

Test Specifications

Calibration check.

Calibration procedure:

Z01.

Test Results

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

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

Main Test equipment used:

Equipment No. Description

Cert. No.

Due Date

Traceable to

S017

Multi-Function Generator

C071115

14-Mar-08

SCL-HKSAR

S024

Sound Level Calibrator

71791

16-Jul-08

NIM-PRC & SCL-HKSAR

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

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

Calibrated by:

This Certificate is issued by:

Hong Kong Calibration Ltd.

Date:

17-Jan-08

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



Certificate No. 80026

Page 2 of 3 Pages

Results:

1. SPL Accuracy

| | UUT Setting | | | Applied Value | UUT Reading |
|---------------|-------------|----------|--------------|---------------|-------------|
| Range | Freq. Wgt. | Bandwith | Center Freq. | (dB) | (dB) |
| $20 \sim 100$ | A | BB/F | | 94.03 | 93.9 |
| | A | BB/S | | | 93.9 |
| | C | BB/F | | | 93.9 |
| 40 ~ 120 | A | BB/F | | 94.03 | 94.0 |
| | A | BB/F | - | 113.97 | 113.8 |

IEC 651 Type 1 Spec. : \pm 0.7 dB

Uncertainty: ± 0.1 dB

2. Level Stability: 0.0 dB

IEC 651 Type 1 Spec. : \pm 0.3 dB

Uncertainty: ± 0.01 dB

3. Linearity

3.1 Level Linearity

| | Applied | UUT Reading | Variation | IEC 651 Type 1 Spec. |
|-----------|------------|-------------|-----------|---------------------------|
| UUT Range | Value (dB) | (dB) | (dB) | (Primary Indicator Range) |
| 140 | 114.0 | 114.0 | 0.0 | ± 0.7 dB |
| 130 | 104.0 | 104.0 | 0.0 | |
| 120 | 94.0 | 94.0 (Ref.) | | |
| 110 | 84.0 | 84.0 | 0.0 | |
| 100 | 74.0 | 74.0 | 0.0 | |
| 90 | 64.0 | 64.0 | 0.0 | |
| 80 | 54.0 | 54.0 | 0.0 | |

Uncertainty: ± 0.1 dB

3.2 Differential level linearity

| J.Z Differen | itiai ievei iiiieai | ity | | |
|--------------|---------------------|-------------|----------------|----------------------|
| | Applied | UUT Reading | | |
| UUT Range | Value (dB) | (dB) | Variation (dB) | IEC 651 Type 1 Spec. |
| 120 | 84.0 | 84.0 | 0.0 | ± 0.4 dB |
| | 94.0 | 94.0 (Ref.) | | |
| | 95.0 | 95.0 | 0.0 | ± 0.2 dB |
| | 104.0 | 103.9 | 0.1 | ± 0.3 dB |
| | 105.0 | 104.9 | 0.1 | ± 1.0 dB |

Uncertainty: ± 0.1 dB



Certificate No.

80026

Page 3 of 3 Pages

4. Frequency Weighting

A weighting

| Freque | ency | Attenuation (dB) |) | IEC 651 Type 1 Spec. |
|--------|------|------------------|-------|--|
| 31.5 | Hz | - 39.3 | | - 39.4 dB, ± 1.5 dB |
| 63 | Hz | - 26.1 | | - 26.2 dB, ± 1.5 dB |
| 125 | Hz | - 16.1 | | - 16.1 dB, ±1 dB |
| 250 | Hz | - 8.7 | | - 8.6 dB, ± 1 dB |
| 500 | Hz | - 3.2 | | - 3.2 dB, ± 1 dB |
| 1 1 | kHz | 0.0 | (Ref) | $0 \text{ dB}, \pm 1 \text{ dB}$ |
| 2 | kHz | + 1.2 | | + 1.2 dB, \pm 1 dB |
| 4 1 | kHz | + 1.0 | | + 1.0 dB, \pm 1 dB |
| 8 1 | kHz | - 1.1 | | - 1.1 dB , + $1.5 \text{ dB} \sim -3 \text{ dB}$ |
| 16 | kHz | - 6.7 | | - 6.6 dB, + 3 dB \sim - ∞ |

Uncertainty: ± 0.1 dB

5. Time Averaging

| Applied Burst duty Factor | Applied Leq Value (dB) | UUT Reading (dB) | IEC 804 Type 1 Spec. |
|---------------------------|------------------------|------------------|----------------------|
| continuous | 40.0 | 40.0 | |
| 1/10 | 40.0 | 39.9 | ± 0.5 dB |
| $1/10^2$ | 40.0 | 39.6 | |
| $1/10^3$ | 40.0 | 39.4 | ± 1.0 dB |
| 1/10 ⁴ | 40.0 | 39.1 | |

Uncertainty: ± 0.1 dB

Remarks: 1. UUT: Unit-Under-Test

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

3. Atmospheric pressure: 1 015 hPa.

----- END -----



Certificate No.

80027

1 Page

of 2 Pages

Customer: Hyder Consulting Limited

Address : Room 3801., Hopewell Centre, 183 Queen's Road East, Wan Chai, Hong Kong

Order No.:

Date of receipt

3-Jan-08

Item Tested

Description : Sound Level Calibrator

Manufacturer: B&K

Model

: Type 4231

Serial No.

: 1770806

Test Conditions

Date of Test: 17-Jan-08

(23 ± 3)°C

Supply Voltage

Relative Humidity: (50 ± 25) %

Ambient Temperature : **Test Specifications**

Calibration check.

Calibration procedure:

F21, Z02.

Test Results

All results were within the IEC 942 Class 1 specification.

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

Main Test equipment used:

| Man 1991 - 4-4 | | O and Ma | Due Date | Traceable to |
|----------------|------------------------|------------------|------------------|----------------------|
| Equipment No. | Description | <u>Cert. No.</u> | Due Date | |
| | Spectrum Analyzer | 73602 | 7-Ju l-08 | NIM-PRC & SCL-HKSAR |
| S014 | Spectrum Analyzer | | 40 1 1 00 | NIM-PRC & SCL-HKSAR |
| S024 | Sound Level Calibrator | 71791 | 16-J⊔I-08 | MIM-PRO & SOL-LINOAN |
| 3024 | Coding Estat Calibrat | TA 158 | 22 Aug 09 | SCL-HKSAR |
| S041 | Universal Counter | 73453 | 22-Aug-08 | 30E-111(0)11(|

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

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

Calibrated by

This Certificate is issued by:

Hong Kong Calibration Ltd.

17-Jan-08 Date:

Unit 88, 24F., Well Fung Industrial Centre, No. 58-75, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong.

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Manufacturer's Test Certificate Hersteller - Prüfzertifikat

Product / Produkt:

Multi-parameter instrument / Mehrparameter-Meßgerät

Model / Modell:

pH/Oxi 340i

Serial no. / Serien-Nr.

08101283

The a.m. product has been checked by us and complies with the demanded specifications.

Das oben genannte Produkt wurde von uns geprüft und entspricht den geforderten Spezifikationen.

Accuracy of the pH measurement: $\leq 0.01 \text{ pH} \pm 1 \text{ digit}$

Genauigkeit der pH-Messung: ≤ 0,01 pH ± 1 Digit

Accuracy of the voltage measurement: ≤1 mV ± 1 digit Genauigkeit der Spannungsessung: ≤ 1 mV ± 1 Digit

Accuracy of the oxygen measurement: ≤0,5% of measured value ± 1 digit Genauigkeit der Sauerstoff-Messung: ≤ 0,5% vom Meßwert ± 1 Digit

Accuracy of the temperature measurement: ≤ 0,1 K ± 1 digit Genauigkeit der Temperaturmessung: ≤ 0,1 K ± 1 Digit

The test equipment used for checking is regularly calibrated by means of a precision multimeter (HP 3458A, Ser.-No. 2823 A 09038) which itself is annually calibrated in a laboratory accredited to the national German Calibration Service DKD (EADS Deutschland GmbH, DKD-K-01901). This ensures the traceability to national and international standards.

Die zur Prüfung eingesetzten Prüfmittel werden regelmäßig anhand eines Präzisionsmultimeters (HP 3458A, Ser.-Nr. 2823 A 09038) kalibriert, das seinerseits jährlich in einem DKD-Labor kalibriert wird (EADS Deutschland GmbH, DKD-K-01901). Damit ist der Anschluß an nationale und internationale Normale gewährleistet.

Weilheim, 07.04.2008
WISSENSCHAFTLICH-TECHNISCHE WERKSTÄTTEN GMBH
Dr.K,Löhnert
Quality Manager / Leiter Qualitätssicherung

⁻ This document has been generated using electronic data processing and is valid without signature - Dieses Dokument wurde mittels EDV erstellt und ist ohne Unterschrift gueltig -

TEST REPORT

Report No.

: 106189N

Project Name

: Calibration of Field measurement equipment

Customer

: Hyder Consulting Limited

Address

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

Lab Job No.

: J651

Lab Sample No.

: 20840/1

Sample Description Sample Receipt Date

One Turbidimeter and four turbidity standards. : 21/4/2008

Test Period

: 21/4/2008

Test Information

| Test Parameter | Test Procedure |
|---|-----------------------|
| Calibraion of Turbidimeter and Turbidity Standard | In-house Method IC 42 |

- Notes : 1. This report shall not be reproduced, except in full, without prior written approval from Lam Laboratories Limited.
 - 2. Results related to sample(s) as received.
 - 3. Results satisfy all in-house QA/QC protocols as attached.

Authorized Signatory

NG Yau Tim

Issue Date

21/4/2008

Lam Laboratories Limited

Room 1412, Honour Industrial Centre, 6 Sun Yip Street, Chai Wan, Hong Kong Tel: (852) 2897 3282

(Operation Manager)

Fax: (852) 2897 5509 e-mail:

info@lamlab.com

TEST REPORT

Report No.

: 106189N

: J651

Project Name

: Calibration of Field measurement equipment

Customer

: Hyder Consulting Limited

Lab Job No.

Lab Sample No. : 20840/1

Test Results

Value re-assigmnemt for Turbidity Standards:

| Cuptomar Def | Measured value |
|---------------|----------------|
| Customer Ref. | (NTU) |
| STD 1 | 0.01 |
| STD 2 | 19.52 |
| STD 3 | 103 |
| STD 4 | 883 |

Linearity check for Turbidimeter:

| Serial No. | Linearity range |
|------------|-----------------|
| | (NTU) |
| 215619 | 0-100 |

- End of Report -



Appendix G

Monitoring Locations

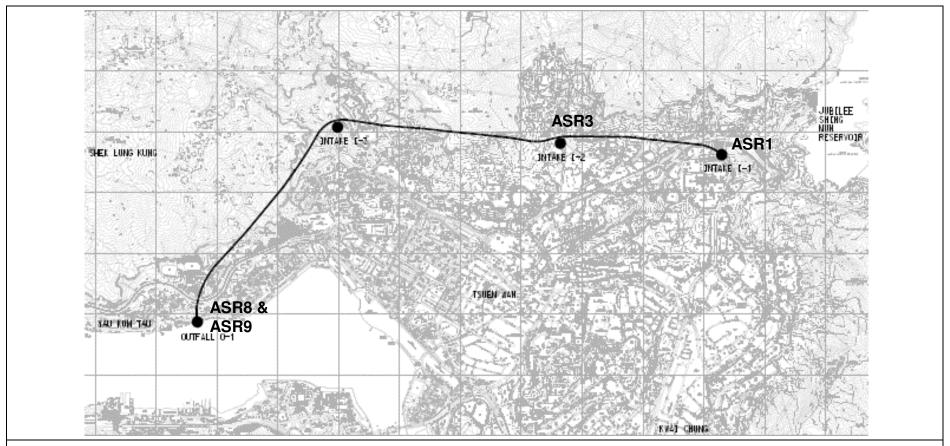


Figure 1 Air Quality Monitoring Stations

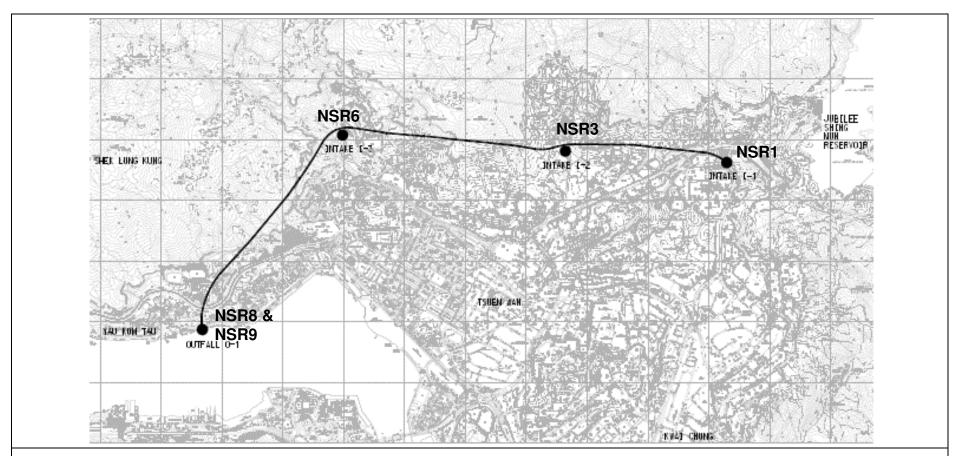


Figure 2 Noise Monitoring Stations

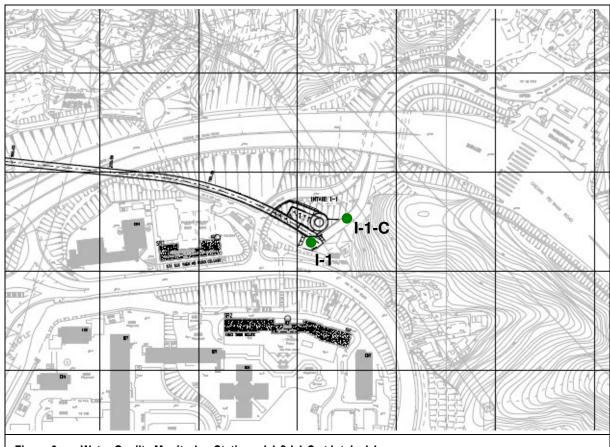
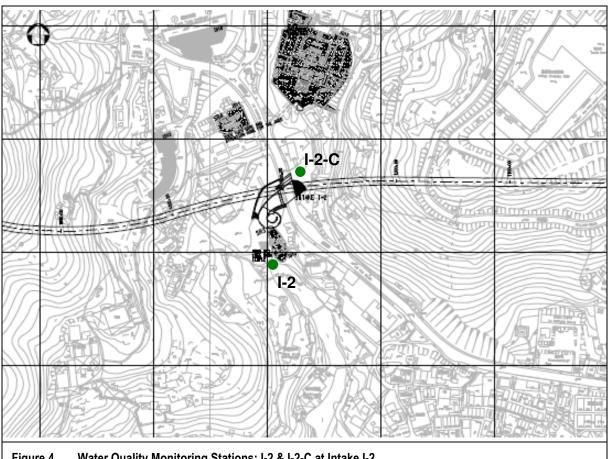
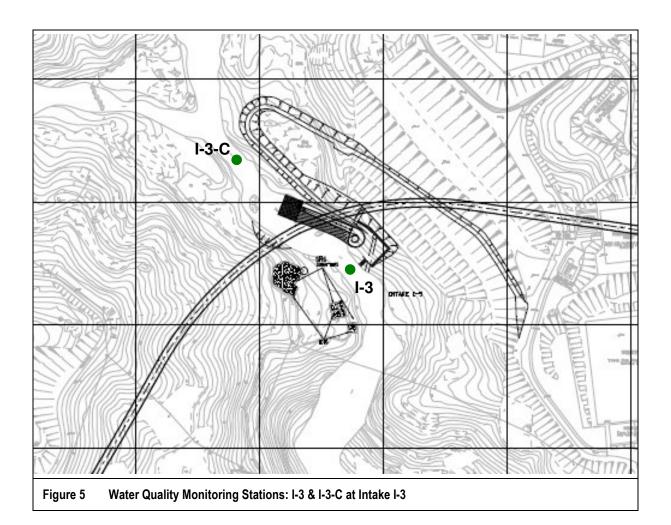


Figure 3 Water Quality Monitoring Stations: I-1 & I-1-C at Intake I-1



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



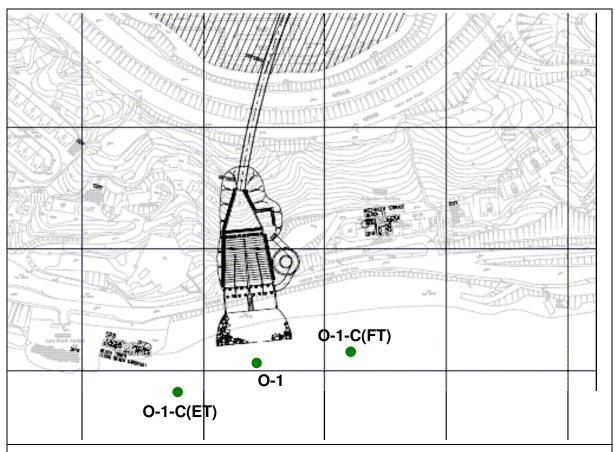


Figure 6 Water Quality Monitoring Stations: O-1, O-1-C(ET) & O-1-C(FT) at Outfall O-1



Appendix H

EM&A Schedule

Contract No. DC/2007/12 – Design and Construction of Tsuen Wan Drainage Tunnel Impact Monitoring Programme – May 2008

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

Note:

Shaded area indicates public holiday.

Air – Monitoring of three times for 1-hour TSP per every six days

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

Water – Water monitoring will be propose after the completion of additional baseline monitoring (05 May 2008)

Contract No. DC/2007/12 – Design and Construction of Tsuen Wan Drainage Tunnel Impact Monitoring Programme – June 2008

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

Note:

Shaded area indicates public holiday.

Air – Monitoring of three times for 1-hour TSP per every six days

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

Water – Water measurements takes three times per week

Contract No. DC/2007/12 – Design and Construction of Tsuen Wan Drainage Tunnel Impact Monitoring Programme – July 2008

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

Note:

Shaded area indicates public holiday.

Air – Monitoring of three times for 1-hour TSP per every six days

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

Water – Water measurements takes three times per week

Contract No. DC/2007/12 – Design and Construction of Tsuen Wan Drainage Tunnel Impact Monitoring Programme – August 2008

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

Note:

Shaded area indicates public holiday.

Air – Monitoring of three times for 1-hour TSP per every six days

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

Water – Water measurements takes three times per week



Appendix I

Monitoring Results

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

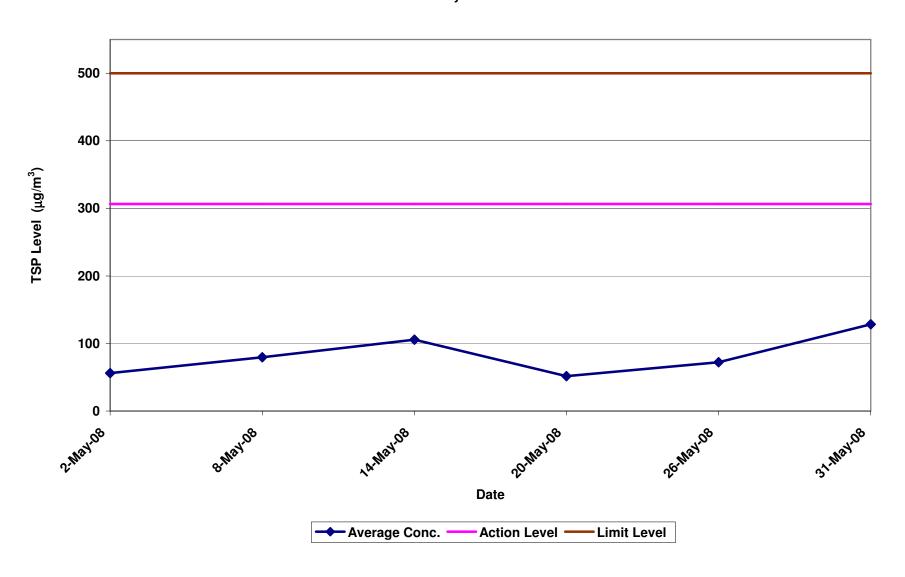
Air Quality Impact Monitoring Results (1-Hour TSP)

| Location | Monitoring Date | Weather Conditions | Wind Speed with Direction (m/s) | Temp (°C) | Timer-I | Timer-F | Time (mins) | Flow-I (CFM) | Flow-F (CFM) | Flow-I (m³/min) | Flow-F (m³/min) | Flow-avg (m³/min) | Volume (m³) | Weight-I (g) | Weight-f (g) | Weight-diff. (g) | 1-hr TSP (µg/m³) | Average 1-Hr TSP (μg/m³) | Action/Limit Levels (µg/m³) | Observation / Site Condition | Remark | |
|--------------------------------------|-----------------|-----------------------|---------------------------------------|--------------|------------------|------------------|--------------|-----------------|-----------------|--------------------|--------------------|----------------------|----------------|------------------|------------------|------------------|---------------------|--|-----------------------------------|--|--|--|
| Sik Sik Yuen Ho Fung | | Cloudy | 0.8 E | 26 | 554149 | 554249 | 60.0 | 39 | 39 | 1.09 | 1.09 | 1.09 | 65.69 | 2.7659 | 2.7702 | 0.0043 | 65.5 | | | | | |
| College | 02-May-08 | Cloudy | 0.8 E | 26 | 554249 | 554350 | 60.6 | 39 | 39 | 1.09 | 1.09 | 1.09 | 66.35 | 2.7657 | 2.7680 | 0.0023 | 34.7 | 56.2 | | N/A | | |
| Intake (ASR1) | | Cloudy | 0.8 E | 26 | 554350 554450 | 554450 554550 | 60.0 60.0 | 39 | 39 40 | 1.09 | 1.09 | 1.09 | 65.69 66.05 | 2.7712 2.7469 | 2.7757 2.7512 | 0.0045 0.0043 | 68.5 65.1 | | | | | |
| | 08-May-08 | Sunny | 0.7 SW 0.7 SW | 27 27 | 554450 554550 | 554550 554650 | 60.0 | 39 40 | 40 | 1.09 | 1.11 | 1.10 | 66.40 | 2.7469 | 2.7512 | 0.0043 | 65.1 84.3 | 79.6 | | N/A | | |
| | oo may oo | Sunny | 0.7 SW | 27 | 554650 | 554750 | 60.0 | 39 | 40 | 1.09 | 1.11 | 1.10 | 66.05 | 2.7592 | 2.7651 | 0.0059 | 89.3 | 70.0 | | 1071 | | |
| | | Cloudy | 1 S | 27 | 554750 | 554853 | 61.8 | 38 | 38 | 1.08 | 1.08 | 1.08 | 66.93 | 2.801 | 2.8099 | 0.0089 | 133.0 | | | | | |
| | 14-May-08 | Cloudy | 1 S | 27 | 554853 | 554957 | 62.4 | 38 | 38 | 1.08 | 1.08 | 1.08 | 67.58 | 2.7828 | 2.7877 | 0.0049 | 72.5 | 105.7 | | N/A | | |
| | | Cloudy | 1 S | 27 | 554957 | 555059 | 61.2 | 38 | 38 | 1.08 | 1.08 | 1.08 | 66.28 | 2.7691 | 2.7765 | 0.0074 | 111.6 | | 306.6/500 | | | |
| | | Cloudy | 3.3 E | 21 | 555061 | 555155 | 56.4 | 39 | 39 | 1.09 | 1.09 | 1.09 | 61.75 | 2.8171 | 2.8210 | 0.0039 | 63.2 | | | | | |
| | 20-May-08 | Cloudy | 3.3 E 3.3 E | 21 21 | 555155 555258 | 555258 555358 | 61.8 60.0 | 39 39 | 39 39 | 1.09 | 1.09 | 1.09 | 67.66 65.69 | 2.7816 2.8010 | 2.7845 2.8042 | 0.0029 | 42.9 48.7 | 51.6 | | N/A | | |
| | | Fine | 1.3 S | 29 | 555358 | 555458 | 60.0 | 38 | 38 | 1.09 | 1.09 | 1.09 | 64.98 | 2.7452 | 2.7503 | 0.0032 | 78.5 | | | | | |
| | 26-May-08 | Fine | 1.3 S | 29 | 555458 | 555558 | 60.0 | 38 | 38 | 1.08 | 1.08 | 1.08 | 64.98 | 2.7307 | 2.7352 | 0.0045 | 69.3 | 72.2 | | N/A | | |
| | | Fine | 1.3 S | 29 | 555558 | 555652 | 56.4 | 38 | 38 | 1.08 | 1.08 | 1.08 | 61.08 | 2.7235 | 2.7277 | 0.0042 | 68.8 | Ī | | | | |
| | | Cloudy | 0.8 SE | 27 | 555652 | 555752 | 60.0 | 40 | 40 | 1.11 | 1.11 | 1.11 | 66.40 | 2.7382 | 2.7477 | 0.0095 | 143.1 | | 1 | | | |
| | 31-May-08 | Cloudy | 0.8 SE | 27 | 555752 | 555852 | 60.0 | 40 | 39 | 1.11 | 1.09 | 1.10 | 66.05 | 2.7548 | 2.7618 | 0.0070 | 106.0 | 128.4 | | N/A | | |
| | | Cloudy | 0.8 SE | 27 | 555852 | 555952 | 60.0 | 40 | 39 | 1.11 | 1.09 | 1.10 | 66.05 | 2.7471 | 2.7561 | 0.0090 | 136.3 | ļ | | | | |
| Hong Hoi Chee Hong | 02-May-08 | Cloudy | 0.8 E | 26 | 523303 | 523407 | 62.4 | 38 | 38 | 1.08 | 1.08 | 1.08 | 67.30 | 2.7564 | 2.7631 | 0.0067 | 99.5 | 62.3 |] | N/A | | |
| Temple Intake (ASR3) | UZ-May-U8 | Cloudy | 0.8 E | 26 26 | 523407 523510 | 523510 523612 | 61.8 61.2 | 38 38 | 38 | 1.08 | 1.08 | 1.08 | 66.66 66.01 | 2.7936 2.7790 | 2.7965 2.7819 | 0.0029 0.0029 | 43.5 43.9 | 02.3 | | N/A | | |
| HILLIANS (MODJ) | | Sunny | 0.8 E | 26 | 523510 | 523612 | 60.0 | 38 | 38 | 1.08 | 1.08 | 1.08 | 65.27 | 2.7790 | 2.7713 | 0.0029 | 90.4 | 1 | 1 | | | |
| | 07-May-08 | Sunny | 0.7 SW | 27 | 523722 | 523722 | 60.0 | 39 | 39 | 1.09 | 1.09 | 1.09 | 65.27 | 2.7355 | 2.7713 | 0.0039 | 47.5 | 71.0 | | N/A | As the temple was inaccessible on 08 May, the | |
| | | Sunny | 0.7 SW | 27 | 523822 | 523922 | 60.0 | 39 | 39 | 1.09 | 1.09 | 1.09 | 65.27 | 2.7580 | 2.7629 | 0.0049 | 75.1 | i | | | measurement was set on 07 May | |
| | | Fine | 0.8 SW | 28 | 523924 | 524024 | 60.0 | 38 | 38 | 1.08 | 1.08 | 1.08 | 64.72 | - | - | | Void | | N/A 327.4/500 | | | The first measurement was void as there was no |
| | 13-May-08 | Fine | 0.8 SW | 28 | 524024 | 524118 | 56.4 | 38 | 38 | 1.08 | 1.08 | 1.08 | 60.83 | 2.7610 | 2.7650 | 0.0040 | 65.8 | 61.4 | | N/A | weight difference between the initial and final weig | |
| | | Fine | 0.8 SW | 28 | 524118 | 524221 | 61.8 | 38 | 38 | 1.08 | 1.08 | 1.08 | 66.66 | 2.7431 | 2.7469 | 0.0038 | 57.0 | 327.4/500 | | | of filter paper | |
| | 04 14 00 | Cloudy | 3.3 E | 21 | 524222 | 524320 | 58.8 | 38 | 39 | 1.08 | 1.09 | 1.08 | 63.69 | 2.7172 | 2.7185 | 0.0013 | 20.4 | | | N/A | As the temple was inaccessible on 20 May, the | |
| | 21-May-08 | Cloudy | 3.3 E 3.3 E | 21 21 | 524320 524416 | 524416 524512 | 57.6 57.6 | 38 39 | 38 | 1.08 | 1.08 | 1.08 | 62.13 62.39 | 2.8160 2.8152 | 2.8192 2.8193 | 0.0032 0.0041 | 51.5 65.7 | 45.9 | | N/A | measurement was set on 21 May | |
| | | Fine | 1.3 S | 29 | 524515 | 524607 | 55.2 | 38 | 38 | 1.09 | 1.08 | 1.08 | 59.54 | 2.7995 | 2.8062 | 0.0067 | 112.5 | | 1 | | The monitoring was originally scheduled on 26 Ma | |
| | 30-May-08 | Fine | 1.3 S | 29 | 524607 | 524700 | 55.8 | 38 | 38 | 1.08 | 1.08 | 1.08 | 60.19 | 2.8196 | 2.829 | 0.0094 | 156.2 | 136.4 | | N/A | but was postponed to 30 May because the templ | |
| | | Fine | 1.3 S | 29 | 524700 | 524792 | 55.2 | 39 | 38 | 1.09 | 1.08 | 1.08 | 59.79 | 2.7862 | 2.7946 | 0.0084 | 140.5 | | | | was inaccessible from 26 - 29 May | |
| | | Cloudy | 0.8 SE | 26 | 524792 | 524890 | 58.8 | 39 | 38 | 1.09 | 1.08 | 1.08 | 63.69 | 2.7283 | 2.7354 | 0.0071 | 111.5 | | 1 | N/A weight was greater than the initial weig | The second measurement was void as the final | |
| | 31-May-08 | Cloudy | 0.8 SE | 26 | 524890 | 524990 | 60.0 | 38 | 39 | 1.08 | 1.09 | 1.08 | 64.99 | - | - | | Void | 133.1 | | | weight was greater than the initial weight of filter | |
| | | Cloudy | 0.8 SE | 26 | 524990 | 525091 | 60.6 | 39 | 39 | 1.09 | 1.09 | 1.09 | 65.92 | 2.793 | 2.8032 | 0.0102 | 154.7 | | | | paper. | |
| Long Beach Gardens Outfall (ASR8) | 02-May-08 | Cloudy | 0.8 E | 26 26 | 578004 578106 | 578106 578210 | 61.2 62.4 | 39 39 | 39 39 | 1.09 | 1.09 | 1.09 | 66.57 67.88 | 2.7675 2.7804 | 2.7706 2.7841 | 0.0031 0.0037 | 46.6 54.5 | 48.7 | | N/A | | |
| Outrail (ASI to) | 02-Way-00 | Cloudy | 0.8 E | 26 | 578210 | 578312 | 61.2 | 39 | 39 | 1.09 | 1.09 | 1.09 | 66.57 | 2.7660 | 2.7690 | 0.0030 | 45.1 | 40.7 | | INA | | |
| | | Sunny | 0.7 SW | 27 | 578312 | 578405 | 55.8 | 40 | 39 | 1.10 | 1.09 | 1.09 | 60.96 | 2.7328 | 2.7368 | 0.0040 | 65.6 | | | | | |
| | 08-May-08 | Sunny | 0.7 SW 0.7 SW | 27 27 | 578405 578500 | 578500 578595 | 57.0 57.0 | 39 40 | 39 40 | 1.09 | 1.09 | 1.09 | 62.01 62.53 | 2.7710 2.7817 | 2.7791 2.7869 | 0.0081 0.0052 | 130.6 83.2 | 93.1 | | N/A | | |
| | | Cloudy | 1 S | 27 | 578595 | 578699 | 62.4 | 40 | 40 | 1.10 | 1.10 | 1.10 | 68.46 | 2.7792 | 2.7962 | 0.0170 | 248.3 | | | | | |
| | 14-May-08 | Cloudy | 1 S | 27 | 578699 | 578801 | 61.2 | 40 | 40 | 1.10 | 1.10 | 1.10 | 67.14 | 2.7758 | 2.7890 | 0.0132 | 196.6 | 200.9 | | N/A | | |
| | | Cloudy | 1 S 3.3 E | 27 21 | 578801 578932 | 578904 | 61.8 | 40 40 | 40 41 | 1.10 | 1.10 | 1.10 | 67.80 66.76 | 2.7925 2.7432 | 2.8032 2.7456 | 0.0107 0.0024 | 157.8 35.9 | | 336.6/500 | | | |
| | 20-May-08 | Cloudy | 3.3 E | 21 | 578932 | 579033 579134 | 60.6 60.6 | 40 | 40 | 1.10 | 1.11 | 1.10 | 66.76 | 2.7432 | 2.7456 | 0.0024 | 30.0 | 31.0 | | N/A | | |
| | | Cloudy | 3.3 E | 21 | 579134 | 579235 | 60.6 | 40 | 39 | 1.10 | 1.09 | 1.09 | 66.20 | 2.7286 | 2.7304 | 0.0018 | 27.2 | 1 | | | | |
| | | Fine | 1.3 S | 29 | 579236 | 579334 | 58.8 | 39 | 40 | 1.09 | 1.10 | 1.09 | 64.24 | 2.793 | 2.7991 | 0.0061 | 95.0 | | | | | |
| | 26-May-08 | Fine Fine | 1.3 S 1.3 S | 29 29 | 579334 579432 | 579432 579530 | 58.8 58.8 | 40 40 | 40 39 | 1.10 1.10 | 1.10 1.09 | 1.10 1.09 | 64.51 64.24 | 2.7882 2.7391 | 2.7939 2.7397 | 0.0057 0.0006 | 88.4 9.3 | 64.2 | | N/A | | |
| | | Cloudy | 0.8 SE | 26 | 579530 | 579627 | 58.2 | 40 | 40 | 1.10 | 1.10 | 1.10 | 63.85 | 2.7632 | 2.7705 | 0.0073 | 114.3 | | | | | |
| | 31-May-08 | Cloudy | 0.8 SE | 26 | 579627 | 579725 | 58.8 | 40 | 39 | 1.10 | 1.09 | 1.09 | 64.24 | 2.7694 | 2.7735 | 0.0041 | 63.8 | 92.6 | | N/A | | |
| Greenview Terrance | | Cloudy | 0.8 SE 0.8 E | 26 26 | 579725 549751 | 579823 549853 | 58.8 61.2 | 39 39 | 40 39 | 1.09 | 1.10 | 1.09 | 64.24 66.57 | 2.7446 2.7657 | 2.751 2.7662 | 0.0064 0.0005 | 99.6 7.5 | | | | | |
| Outfall (ASR9) | 02-May-08 | Cloudy | 0.8 E | 26 | 549853 | 549956 | 61.8 | 39 | 39 | 1.09 | 1.09 | 1.09 | 67.23 | 2.7232 | 2.7662 | 0.0037 | 55.0 | 34.6 | | N/A | | |
| | , | Cloudy | 0.8 E | 26 | 549956 | 550060 | 62.4 | 39 | 39 | 1.09 | 1.09 | 1.09 | 67.88 | 2.7557 | 2.7585 | 0.0028 | 41.2 | | | | | |
| | 00 M 00 | Sunny | 0.7 SW | 27 | 550064 | 550167 | 61.8 | 38 | 38 | 1.08 | 1.08 | 1.08 | 66.66 | 2.746 | 2.753 | 0.0070 | 105.0 | 00.0 | | NI/A | | |
| | 08-May-08 | Sunny | 0.7 SW 0.7 SW | 27 27 | 550167 550270 | 550270 550372 | 61.8 61.2 | 39 38 | 39 39 | 1.09 | 1.09 | 1.09 | 67.23 66.29 | 2.7495 2.7378 | 2.7542 2.7445 | 0.0047 0.0067 | 69.9 101.1 | 92.0 | | N/A | | |
| | | Cloudy | 1 S | 27 | 550373 | 550474 | 60.6 | 39 | 39 | 1.09 | 1.09 | 1.09 | 65.92 | 2.8137 | 2.8178 | 0.0041 | 62.2 | † | 1 | | | |
| | 14-May-08 | Cloudy | 1 S | 27 | 550474 | 550576 | 61.2 | 39 | 39 | 1.09 | 1.09 | 1.09 | 66.57 | 2.7780 | 2.7892 | 0.0112 | 168.2 | 119.3 | | N/A | | |
| | | Cloudy | 1 S 3.3 E | 27 21 | 550576 550677 | 550677 550775 | 60.6 58.8 | 39 39 | 39 38 | 1.09 | 1.09 | 1.09 | 65.92 63.69 | 2.7818 2.7524 | 2.7902 2.7587 | 0.0084 0.0063 | 127.4 98.9 | | 329.2/500 | | | |
| | 20-May-08 | Cloudy | 3.3 E | 21 | 550775 | 550873 | 58.8 | 38 | 38 | 1.09 | 1.08 | 1.08 | 63.42 | 2.7524 | 2.7476 | 0.0083 | 61.5 | 75.0 | | N/A | | |
| | , | Cloudy | 3.3 E | 21 | 550873 | 550972 | 59.4 | 40 | 40 | 1.10 | 1.10 | 1.10 | 65.17 | 2.7787 | 2.7829 | 0.0042 | 64.5 | | | | | |
| | 00.1400 | Fine | 1.3 S | 29 | 550972 | 551070 | 58.8 | 38 | 38 | 1.08 | 1.08 | 1.08 | 63.42 | 2.8414 | 2.8457 | 0.0043 | 67.8 | 50.0 | | N/A | | |
| | 26-May-08 | Fine Fine | 1.3 S 1.3 S | 29 29 | 551070 551168 | 551168 551266 | 58.8 58.8 | 38 39 | 38 39 | 1.08 | 1.08 | 1.08 | 63.42 63.96 | 2.7757 2.7659 | 2.7785 2.7689 | 0.0028 0.0030 | 44.1 46.9 | | | N/A | | |
| | | - 1110 | 1.00 | - | - | - | - | - | - | - | - | - | - | - | | - | | | j.9 - | 1 | | |
| | 31-May-08 | - | | - | | | - | - | | - | | - | | - | - | | | j - | | - | No result was recorded due to power failure | |
| | 1 | | | - | - | - | - | - | | - | - | - | - | - | - | | - | | l | 1 | ĺ | |

Note: Italic font and yellow shaded indicates an exceedance of Action Level Bolld font and red shaded area indicates an exceedance of Limit Level

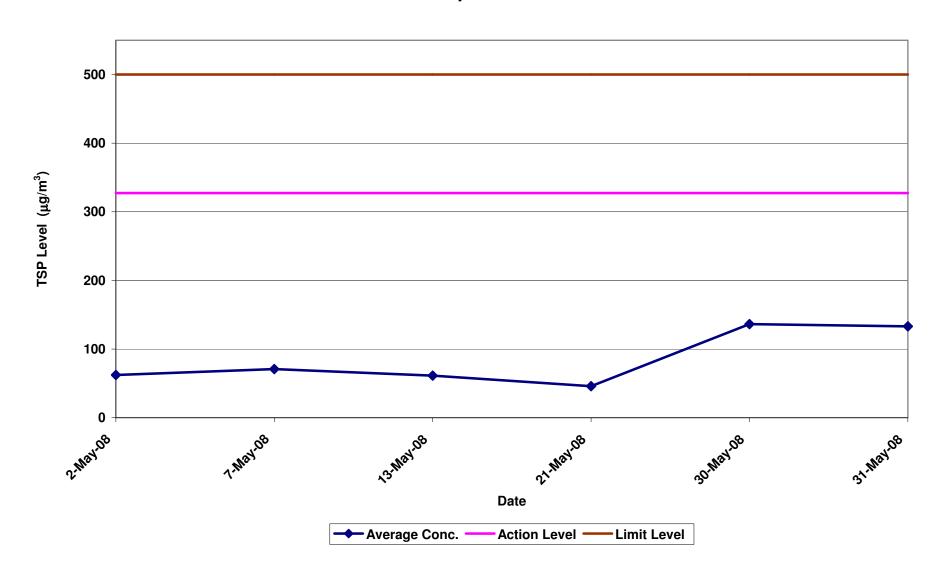
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Air Quality Monitoring (1-hr TSP) Results at Sik Sik Yuen Ho Fung College (ASR1)

May 2008



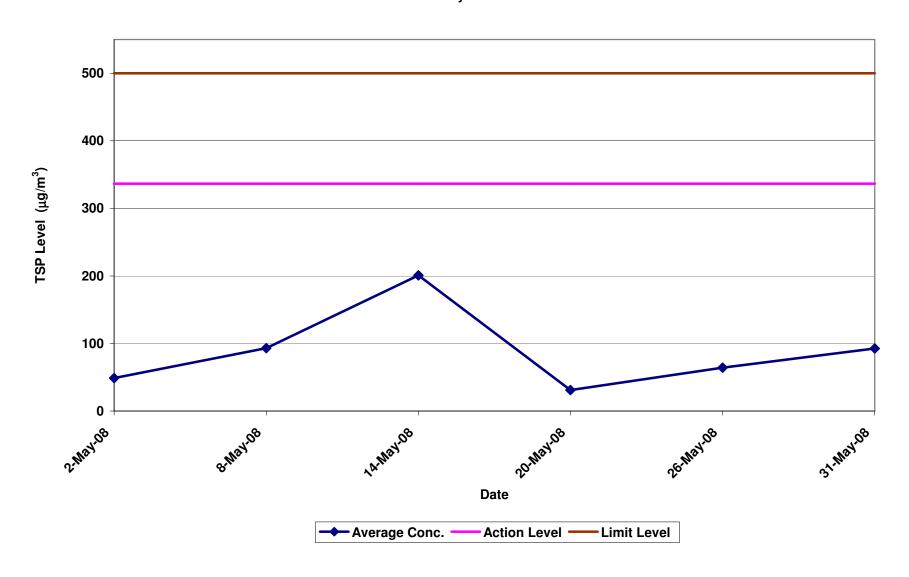
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Air Quality Monitoring (1-hr TSP) Results at Hong Hoi Chee Hong Temple (ASR3)

May 2008



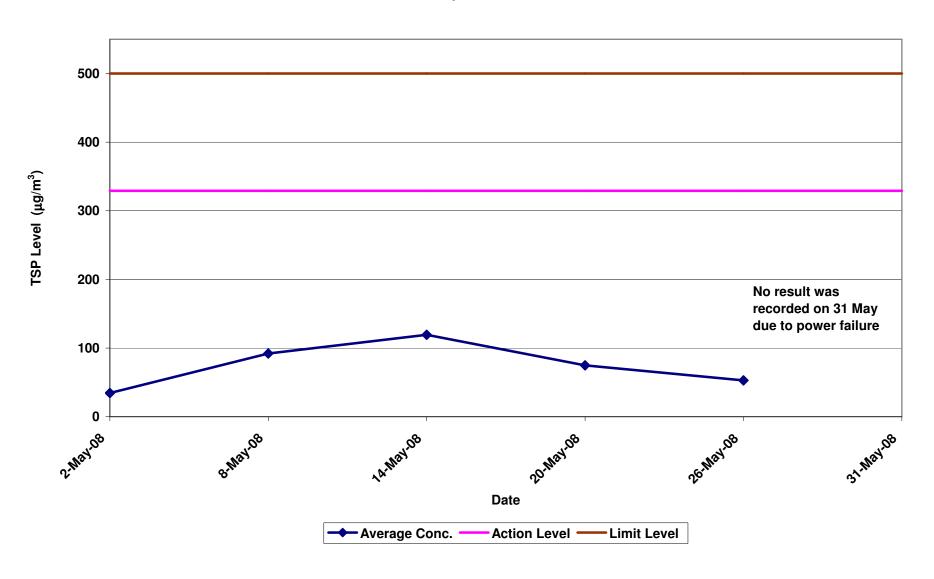
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Air Quality Monitoring (1-hr TSP) Results at Long Beach Gardens (ASR8)

May 2008



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

May 2008



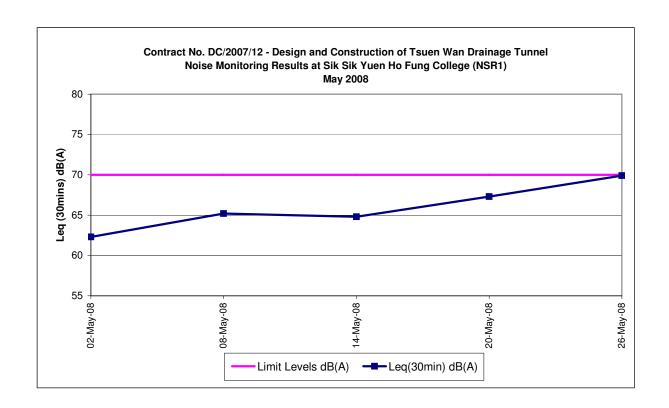
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel

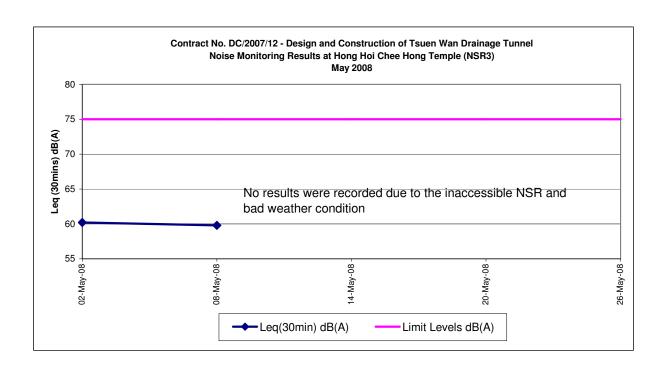
Noise Impact Monitoring Results

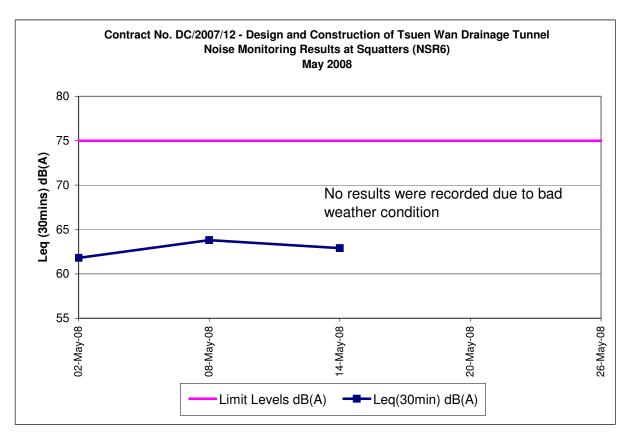
| Monitoring Locations | Date | Weather | Temperature | Wind Speed | Wind | Start Time | End Time | Limit Levels | L _{eq(30min)} | L _{10(30min)} | L _{90(30min)} | Observation / | Remark |
|---------------------------|-----------|------------|-------------|------------|-----------|------------|----------|--------------|------------------------|------------------------|------------------------|---|--|
| | | Conditions | (°C) | (m/s) | Direction | | | dB(A) | dB(A) | dB(A) | dB(A) | Site Condition | |
| | 02-May-08 | | 26 | 0.8 | E | 13:59 | 14:29 | | 62.3 | 64.0 | 60.2 | Bird and insect noise | |
| NSR 1 | 08-May-08 | Cloudy | 27 | 0.7 | SW | 08:30 | 09:00 | | 65.2 | 68.5 | 63.0 | Traffic and human noise | |
| | 14-May-08 | Cloudy | 27 | 1 | S | 08:30 | 09:00 | 70 | 64.8 | 67.6 | 62.3 | Traffic noise | |
| | 20-May-08 | Cloudy | 25 | 3.3 | E | 08:30 | 09:00 | | 67.3 | 68.9 | 65.6 | Traffic noise | |
| | 26-May-08 | Fine | 29 | 1.3 | S | 09:00 | 09:30 | | 69.9 | 72.4 | 67.5 | Bird, insect and human noise | |
| Hong Hoi Chee Hong Temple | 02-May-08 | Cloudy | 26 | 0.8 | E | 08:30 | 09:00 | | 60.2 | 62.5 | 57.8 | N/A | |
| NSR 3 | 08-May-08 | Cloudy | 27 | 0.7 | SW | 08:30 | 09:00 | | 59.8 | 61.9 | 56.8 | N/A | |
| | 14-May-08 | - | - | 1 | S | - | - | 75 | - | - | - | - | No result was recorded as the NSR was inaccessible |
| | 20-May-08 | - | - | 3.3 | Е | - | - | 75 | - | - | - | - | No result was recorded due to the bad weather |
| | 26-May-08 | - | - | 1.3 | S | - | - | | - | - | - | - | No result was recorded due to the bad weather |
| Squatters | 02-May-08 | Cloudy | 26 | 0.8 | E | 13:00 | 13:30 | | 61.8 | 63.7 | 58.9 | Dog barking | |
| NSR 6 | 08-May-08 | Cloudy | 27 | 0.7 | SW | 13:00 | 13:30 | | 63.8 | 65.2 | 60.9 | Dog barking | |
| | 14-May-08 | Cloudy | 27 | 1 | S | 13:00 | 13:30 | | 62.9 | 64.3 | 59.8 | Dog barking | |
| | 20-May-08 | - | - | 3.3 | Е | - | | 75 | - | - | - | - | No result was recorded due to the bad weather |
| | 26-May-08 | - | - | 1.3 | S | - | - | | - | - | - | - | No result was recorded due to the bad weather |
| Long Beach Gardens | 02-May-08 | Cloudy | 26 | 0.8 | Е | 17:30 | 18:00 | | 63.6 | 65.7 | 61.3 | Traffic noise; other site construction activities | |
| NSR 8 | 08-May-08 | Cloudy | 27 | 0.7 | SW | 17:30 | 18:00 | | 60.7 | 62.8 | 57.8 | Traffic noise; other site construction activities | |
| | 14-May-08 | Cloudy | 27 | 1 | S | 09:00 | 09:30 | | 59.5 | 61.1 | 57.7 | Traffic noise; other site construction activities | |
| | 20-May-08 | - | - | 3.3 | Е | - | - | 75 | - | - | - | - | No result was recorded due to the bad weather |
| | 26-May-08 | - | - | 1.3 | S | - | - | | - | - | - | - | No result was recorded due to the bad weather |
| Greenview Terrace | 02-May-08 | Cloudy | 26 | 0.8 | Е | 18:15 | 18:45 | | 65.5 | 67.6 | 61.8 | Traffic noise; other site construction activities | |
| NSR 9 | 08-May-08 | Cloudy | 27 | 0.7 | SW | 13:00 | 13:30 | | 66.7 | 69.7 | 62.4 | Traffic noise; other site construction activities | |
| | 14-May-08 | Cloudy | 27 | 1 | S | 09:40 | 10:10 | | 63.9 | 66.7 | 60.6 | Traffic noise; other site construction activities | |
| | 20-May-08 | - | - | 3.3 | Е | - | - | 75 | - | - | - | - | No result was recorded due to the bad weather |
| | 26-May-08 | | | 1.3 | S | - | - | | - | - | - | - | No result was recorded due to the bad weather |

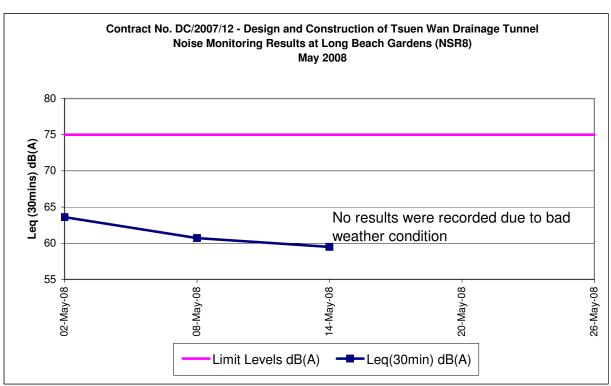
Note

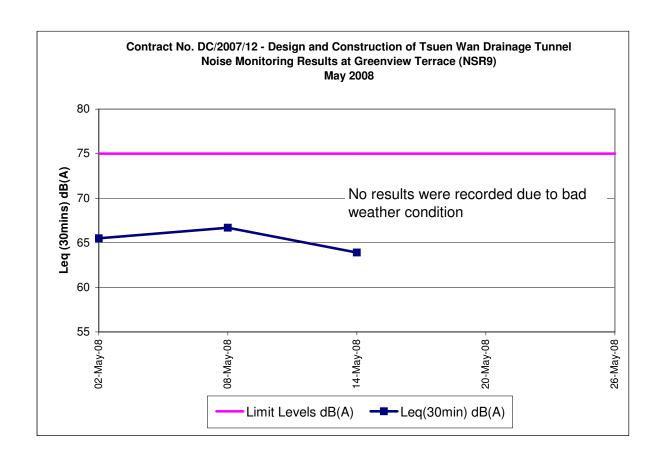
The limit level of NSR1 is 65dB(A) during school examination period.









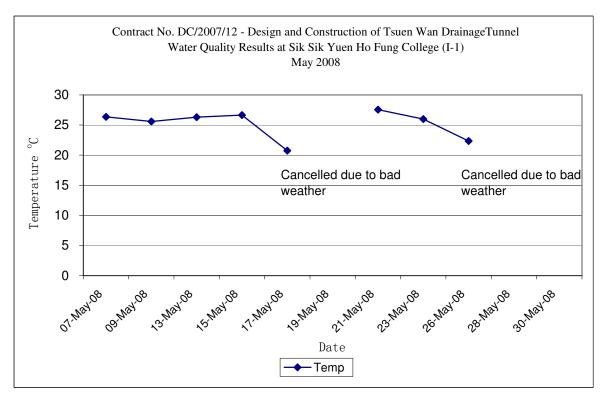


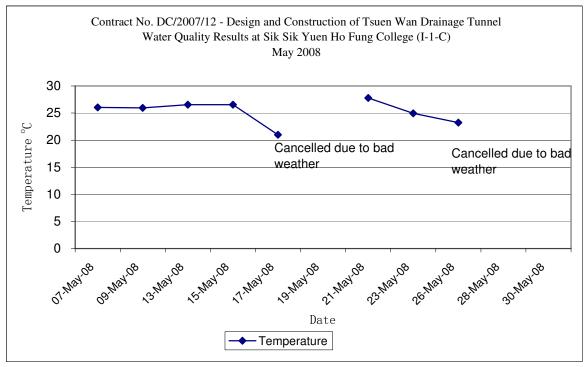
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel

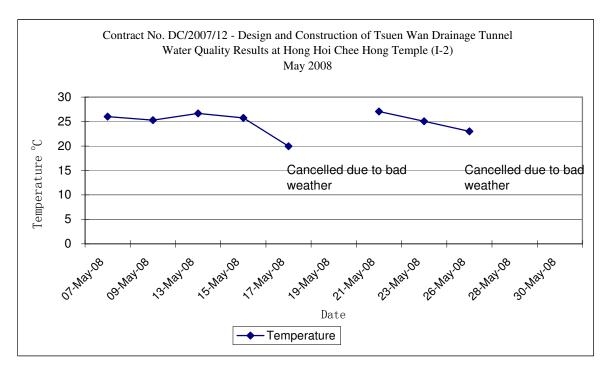
Water Quality Impact Monitoring Results

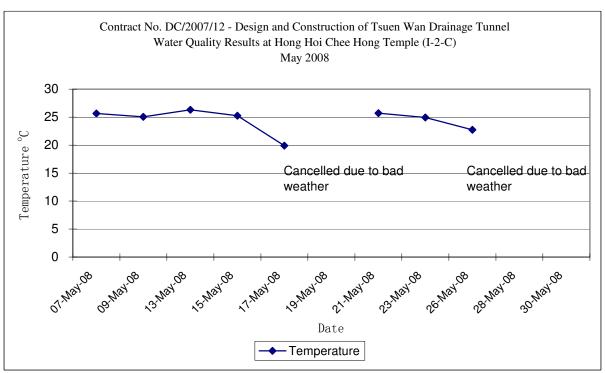
| Monitoring Locations | Date | Start | Weather | Water | 1 | Temp | | DO | ma/L) | Action/Limit | 1 | На | | Т | urbidity(N | JTI I) | Action/Limit | | SS (mg | /1.) | Action/Limit | Remarks: |
|------------------------------|------------------------|--------|---------|------------|----------------|----------------|----------------|------------------|--------------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|---------------|---------------|-------------------|--|
| mornioring Ecocutorio | Baio | Time | rround | Depth(m) | 1 | | Avg | 1 | 2 Avg | Level of DO(mg/L) | 1 | | Avg | 1 | | Avg | Level of Tby | 1 | | Avg | Level of SS(mg/L) | nomano. |
| Sik Sik Yuen Ho Fung College | 07-May-08 | 10:45 | Sunny | <1 | 26.40 | 26.30 | 26.35 | 3.66 | 69 3.68 | | 8.14 | 8.11 | 8.13 | 2.53 | 2.55 | 2.54 | | 1.00 | 2.00 | 1.50 | | |
| I-1 | 09-May-08 | 14:38 | Sunny | <1 | 25.70 | 25.50 | 25.60 | | 49 3.51 | | 8.28 | 8.25 | 8.27 | 4.25 | 4.21 | 4.23 | | 2.00 | 3.00 | 2.50 | | |
| | 13-May-08 | | | <1 | 26.20 | 26.40 | 26.30 | | 06 4.05 | | 8.05 | 8.04 | 8.05 | 4.06 | 4.04 | 4.05 | | 2.00 | 1.00 | 1.50 | | |
| | 15-May-08 | | | <1 | 26.50 | 26.80 | 26.65 | 5.64 | | | 8.04 | | 8.04 | | 4.05 | 4.04 | | 4.00 | 4.00 | 4.00 | | |
| | 17-May-08 | 08:43 | Cloudy | <1 | 20.60 | 20.90 | 20.75 | 5.81 5 | 77 5.79 | | 8.02 | 7.98 | 8.00 | 5.62 | 5.58 | 5.60 | 0.75 / 40 47 | 7.00 | 7.00 | 7.00 | 0.05/40.47 | |
| | 19-May-08 | 10.01 | - | | 07.40 | 07.70 | 07.55 | 5.32 5 | 10 5.00 | 3.42 / 3.34 | 7.04 | 7.05 | 7.28 | 8.62 | 8.33 | 0.40 | 9.75 / 12.47 | 1.00 | 0.00 | 4.50 | 8.85 / 10.17 | Cancelled due to bad weather condition. |
| | 21-May-08 23-May-08 | | | <1 <1 | 27.40 26.20 | 27.70 25.80 | 27.55 26.00 | 5.32 5 6.13 6 | | <u> </u> | 7.21 | 7.35 8.02 | 7.28 | | 6.93 | 8.48 7.07 | 4 | 8.00 | 2.00 8.00 | 1.50 8.00 | | |
| | 26-May-08 | | | <1 | 22.60 | 22.10 | 22.35 | 5.73 5 | | 4 | 7.93 | 8.01 | 7.96 | 4.97 | 4.76 | 4.87 | . | 5.00 | 5.00 | 5.00 | | |
| | 28-May-08 | 00.20 | Cidudy | | 22.00 | 22.10 | 22.00 | 3.73 | 3.71 | - | 7.55 | 0.01 | 1.51 | 4.37 | 4.70 | 4.07 | 1 | 3.00 | 3.00 | 3.00 | | Cancelled due to bad weather condition. |
| | 30-May-08 | | | | | | | | | | | | | | | | | | | | | Cancelled due to bad weather condition. |
| Sik Sik Yuen Ho Fung College | 07-May-08 | 10:11 | Sunnv | <1 | 26.10 | 26.00 | 26.05 | 3.47 3 | 48 3.48 | | 8.02 | 8.02 | 8.02 | 2.51 | 2.50 | 2.51 | | 1.00 | 1.00 | 1.00 | | Not construction activities related. (Exceedance at control.) |
| I-1-C | 09-May-08 | | | <1 | 26.10 | 25.80 | 25.95 | 3.97 3 | 99 3.98 | ī | 8.12 | 8.11 | 8.12 | 4.92 | 4.99 | 4.96 | | 5.00 | 7.00 | 6.00 | 1 | |
| | 13-May-08 | 14:09 | Sunny | <1 | 26.70 | 26.40 | 26.55 | 3.89 | 86 3.88 | | 8.10 | | 8.11 | 3.82 | 3.80 | 3.81 | | 2.00 | 1.00 | 1.50 | | |
| | 15-May-08 | | Sunny | <1 | 26.40 | 26.70 | 26.55 | | 04 6.03 | 1 | 7.98 | 7.97 | 7.98 | 3.62 | 3.66 | 3.64 | | 4.00 | 3.00 | 3.50 | | |
| | 17-May-08 | 09:14 | Cloudy | <1 | 21.20 | 20.80 | 21.00 | 5.92 | 84 5.88 | <u> </u> | 7.91 | 7.88 | 7.90 | 5.74 | 5.66 | 5.70 | 1 | 5.00 | 4.00 | 4.50 | | |
| | 19-May-08 | | _ | | | | | | | 3.76 / 3.71 | | | | | | | 10.88 / 12.95 | | | | 6.68 / 7.34 | Cancelled due to bad weather condition. |
| | 21-May-08 | | | <1 | 28.10 | 27.50 | 27.80 | | 80 5.62 | | 7.76 | 7.67 7.67 | 7.72 | | 8.11 | 8.01 | 1 | 2.00 | 2.00 | 2.00 | 1 | Not an administration and design of the second seco |
| | 23-May-08 26-May-08 | | | <1 <1 | 25.20 23.60 | 24.70 22.90 | 24.95 23.25 | 5.92 5 5.78 5 | 88 5.90 71 5.75 | | 7.72 7.88 | 7.67 | 7.70 7.90 | 7.31 5.03 | 7.09 5.09 | 7.20 5.06 | 4 | 7.00 9.00 | 8.00 17.00 | 7.50 13.00 | 1 | Not construction activities related. (Exceedance at control.) Not construction activities related. (Exceedance at control.) |
| 1 | 28-May-08 | 09.07 | Gibudy | <1 | 23.60 | 22.30 | 23.25 | 3.70 | 0.75 | 4 | 7.68 | 7.91 | 7.90 | 5.03 | 5.09 | 5.06 | 4 | 9.00 | 17.00 | 13.00 | 1 | Cancelled due to bad weather condition. |
| 1 | 30-May-08 | | | | | | | | | 1 | | | | | | | 1 | | | | 1 | Cancelled due to bad weather condition. |
| Hong Hoi Chee Hong Temple | 07-May-08 | 09:39 | Sunny | <1 | 25.90 | 26.10 | 26.00 | 4.84 4 | 83 4.84 | | 7.95 | 7.97 | 7.96 | 2.79 | 2.81 | 2.80 | | 1.00 | 1.00 | 1.00 | | |
| I-2 | 09-May-08 | | | <1 | 25.20 | 25.40 | 25.30 | 4.19 4 | | | 8.04 | 8.07 | 8.06 | 2.98 | 2.99 | 2.99 | ī | 3.00 | 2.00 | 2.50 | | |
| | 13-May-08 | 15:20 | Sunny | <1 | 26.70 | 26.60 | 26.65 | 4.39 4 | 35 4.37 | - | 7.95 | 7.97 | 7.96 | 3.17 | 3.20 | 3.19 | | 2.00 | 1.00 | 1.50 | | |
| | 15-May-08 | | | <1 | 25.70 | 25.80 | 25.75 | 5.26 5 | 28 5.27 | 1 | 7.97 | 7.97 | 7.97 | 3.69 | 3.71 | 3.70 | | 2.00 | 1.00 | 1.50 | | |
| | 17-May-08 | 10:10 | Cloudy | <1 | 19.80 | 20.10 | 19.95 | 6.21 6 | 30 6.26 | | 7.48 | 7.55 | 7.52 | 4.37 | 4.44 | 4.41 | | 3.00 | 4.00 | 3.50 | | |
| | 19-May-08 | | _ | | | | | | | 3.66 / 3.63 | | | | | | | 6.63 / 6.99 | | | | 7.68 / 8.34 | Cancelled due to bad weather condition. |
| | 21-May-08 | | | <1 | 26.90 | 27.20 25.30 | 27.05 | 4.72 4 6.97 6 | | | 7.92 7.83 | 7.87 7.76 | 7.90 7.80 | 6.14 3.12 | 5.82 3.06 | 5.98 3.09 | 4 | 1.00 3.00 | 2.00 | 1.50 3.00 | | |
| | 23-May-08 26-May-08 | | | <1 <1 | 24.80 | 22.70 | 25.05 23.00 | 5.13 4 | | | 7.83 | 7.76 | 7.80 | 4.79 | 4.73 | 4.76 | 4 | 6.00 | 2.00 | 4.00 | | |
| | 28-May-08 | 10.13 | Cidudy | <1 | 23.30 | 22.70 | 23.00 | 3.13 4 | .79 4.90 | 4 | 7.09 | 7.92 | 7.91 | 4.79 | 4./3 | 4.70 | 4 | 6.00 | 2.00 | 4.00 | | Cancelled due to bad weather condition. |
| | 30-May-08 | 1 | | | | | | | | | | | | | | | | | | | | Cancelled due to bad weather condition. |
| Hong Hoi Chee Hong Temple | 07-May-08 | 09:12 | Sunny | <1 | 25.60 | 25.70 | 25.65 | 5.14 5 | 12 5.13 | | 7.86 | 7.86 | 7.86 | 2.58 | 2.60 | 2.59 | | 1.00 | 1.00 | 1.00 | | |
| I-2-C | 09-May-08 | | | <1 | 24.90 | 25.20 | 25.05 | 3.26 | 33 3.30 | ī | 7.95 | 7.98 | 7.97 | 3.28 | 3.32 | 3.30 | i | 2.00 | 3.00 | 2.50 | | Not construction activities related. (Exceedance at control.) |
| | 13-May-08 | | | <1 | 26.20 | 26.40 | 26.30 | 4.43 4 | | | 8.02 | | 8.01 | 2.46 | | 2.45 | | 2.00 | 2.00 | 2.00 | | |
| | 15-May-08 | | Sunny | <1 | 25.10 | 25.40 | 25.25 | | 65 5.64 | | 7.94 | 7.91 | 7.93 | 3.17 | 3.19 | 3.18 | | 2.00 | 1.00 | 1.50 | | |
| | 17-May-08 | 10:39 | Cloudy | <1 | 20.10 | 19.70 | 19.90 | 6.33 | 39 6.36 | | 7.63 | 7.67 | 7.65 | 4.67 | 4.59 | 4.63 | | 4.00 | 3.00 | 3.50 | | |
| | 19-May-08 | 44.00 | - | | 05.00 | 05.00 | 05.70 | 4.00 | 04 4.75 | 3.83 / 3.67 | 7.00 | 7.04 | 7.00 | 5.00 | 5.04 | | 6.73 / 8.27 | 4.00 | 4.00 | 4.00 | 6.98 / 9.4 | Cancelled due to bad weather condition. |
| | 21-May-08 23-May-08 | | | <1 <1 | 25.60 25.10 | 25.80 24.80 | 25.70 24.95 | | 61 4.75 26 7.19 | | 7.88 7.16 | | 7.90 7.35 | 5.92 3.16 | 5.61 3.06 | 5.77 3.11 | | 1.00 | 1.00 | 1.00 | | |
| | 26-May-08 | | | <1 | 22.60 | 22.90 | 22.75 | 4.98 4 | | | 7.16 | 7.96 | 7.92 | | 4.77 | 4.79 | 1 | 2.00 | 1.00 | 1.50 | | |
| | 28-May-08 | 10.40 | Cidudy | <u> </u> | 22.00 | 22.30 | 22.73 | 4.50 | .51 4.50 | 4 | 7.00 | 7.30 | 1.52 | 4.01 | 4.77 | 4.73 | | 2.00 | 1.00 | 1.50 | | Cancelled due to bad weather condition. |
| | 30-May-08 | 1 | | | | | | | | | | | | | | | | | | | | Cancelled due to bad weather condition. |
| Squatters | 07-May-08 | 12:18 | Sunny | <1 | 25.70 | 25.80 | 25.75 | 4.85 4 | 86 4.86 | | 7.91 | 7.91 | 7.91 | 2.41 | 2.40 | 2.41 | | 2.00 | 2.00 | 2.00 | | |
| I-3 | 09-May-08 | | | <1 | 25.20 | 25.40 | 25.30 | 4.89 4 | | | 8.05 | 8.04 | 8.05 | 2.05 | 2.04 | 2.05 | 1 | 2.00 | 1.00 | 1.50 | | |
| | 13-May-08 | 17:02 | Sunny | <1 | 26.20 | 26.30 | 26.25 | 4.78 4 | 81 4.80 | | 7.96 | 7.98 | 7.97 | 2.08 | 2.10 | 2.09 | | 1.00 | 1.00 | 1.00 | | |
| | 15-May-08 | | | <1 | 25.90 | 26.00 | 25.95 | | 24 6.24 | | 8.04 | 8.02 | 8.03 | | 1.92 | 1.91 |] | 1.00 | 1.00 | 1.00 | | |
| | 17-May-08 | 12:12 | Cloudy | <1 | 19.30 | 20.10 | 19.70 | 7.61 7 | 59 7.60 | | 7.88 | 7.93 | 7.91 | 3.10 | 2.97 | 3.04 | | 2.00 | 2.00 | 2.00 | 0.40.17.05 | |
| 1 | 19-May-08 | 40.0- | F: | — , | 01.00 | 05.00 | 05.00 | 0.00 | 47 0 | 3.65 / 3.51 | | 7 70 | | | 6 4 4 | 2.7- | 3.99 / 4.18 | 4.00 | 4.00 | | 6.13 / 7.23 | Cancelled due to bad weather condition. |
| 1 | 21-May-08 23-May-08 | | | <1 <1 | 24.80 | 25.20 | 25.00 20.45 | 6.33 6 | | | 7.78 | 7.72 7.58 | 7.75 7.60 | 3.21 1.69 | 3.11 1.72 | 3.16 | 4 | 1.00 | 1.00 | 1.00 | 1 | |
| 1 | 23-May-08 26-May-08 | | | <1 | 20.30 | 19.80 | 19.95 | 5.11 4 | | | 7.62 | 7.58 | 7.60 | 2.97 | 3.01 | 1.71 2.99 | l | 1.00 | 4.00 | 9.50 | 1 | Not construction activities related. |
| 1 | 28-May-08 | 14.03 | Cidday | ζ, | 20.10 | 13.00 | 10.00 | 3.11 4 | 3.00 | 4 | 1.93 | 7.09 | 7.91 | 2.31 | 3.01 | 2.99 | 1 | 13.00 | 4.00 | 3.30 | 1 | Cancelled due to bad weather condition. |
| | 30-May-08 | | | | | | | | | 1 | | | | | | | 1 | | | | 1 | Cancelled due to bad weather condition. |
| Squatters | 07-May-08 | | | <1 | 25.40 | 25.30 | 25.35 | 4.38 4 | 39 4.39 | | 7.86 | 7.85 | 7.86 | 2.19 | 2.21 | 2.20 | | 2.00 | 2.00 | 2.00 | | |
| I-3-C | 09-May-08 | 16:45 | Sunny | <1 | 25.70 | 25.60 | 25.65 | | 31 4.30 | | 8.12 | 8.09 | 8.11 | 1.82 | 1.80 | 1.81 | | 1.00 | 1.00 | 1.00 |] | |
| | 13-May-08 | | | <1 | 26.00 | 25.80 | 25.90 | | 55 4.55 | | 7.91 | 7.93 | 7.92 | | 1.95 | 1.94 | | 1.00 | 1.00 | 1.00 | | |
| | 15-May-08 | | | <1 | 26.30 | 26.50 | 26.40 | | 85 5.86 | | 8.12 | 8.09 | 8.11 | 2.18 | 2.17 | 2.18 | 4 | 1.00 | 1.00 | 1.00 | | |
| | 17-May-08 | 12:48 | Cloudy | <1 | 19.60 | 19.10 | 19.35 | 6.78 | 83 6.81 | | 7.92 | 7.99 | 7.96 | 2.79 | 2.83 | 2.81 | 4.00 / 5.00 | 1.00 | 1.00 | 1.00 | F 70 / F 05 | Conselled due to had weather condition |
| | 19-May-08 | 10:07 | Eino | - | 07.40 | 06.70 | 00.00 | 6.50 | 41 0 1- | 3.63 / 3.62 | 7.04 | 7.00 | 7.00 | 0.00 | 0.70 | 0.07 | 4.28 / 5.06 | 1.00 | 0.00 | 4.50 | 5.73 / 5.95 | Cancelled due to bad weather condition. |
| | 21-May-08 23-May-08 | | | <1 <1 | 27.10 20.30 | 26.70 21.60 | 26.90 20.95 | 6.52 6 7.11 6 | | | 7.91 7.58 | 7.86 7.63 | 7.89 7.61 | 3.02 1.73 | 2.72 1.70 | 2.87 1.72 | 4 | 1.00 | 1.00 | 1.50 | | |
| | 26-May-08 | | | <1 | 19.80 | 20.10 | 19.95 | | 01 4.99 | | 7.89 | 7.96 | 7.01 | 2.88 | 3.01 | 2.95 | Ħ | 3.00 | 5.00 | 4.00 | 1 | |
| 1 | 28-May-08 | . 7.07 | Jiouay | | .5.00 | 20.10 | . 5.55 | | 7.00 | 1 | 7.03 | 7.50 | 7.55 | 2.00 | 3.01 | 2.33 | 1 | 0.00 | 0.00 | 7.00 | 1 | Cancelled due to bad weather condition. |
| 1 | 30-May-08 | | | | | | | | | 1 | | | | | | | 1 | | | | 1 | Cancelled due to bad weather condition. |
| | | | | | | | | | | | | | | | | | • | | | | | |

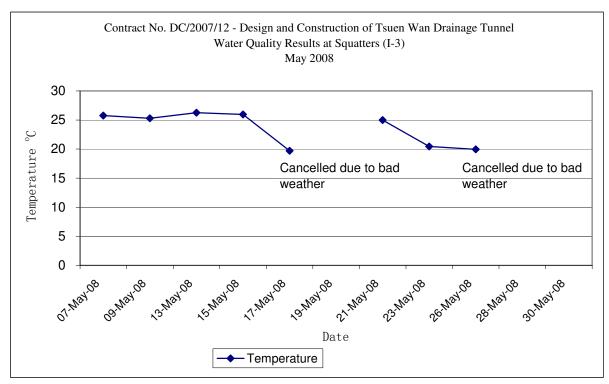
Note:
Blue Italic indicates an exceedance of Action Level
Red Bold indicates an exceedance of Limit Level

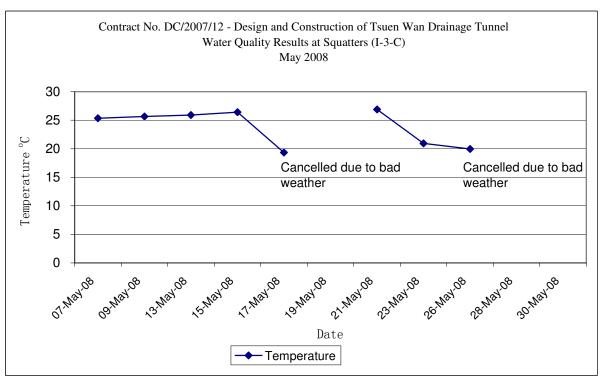


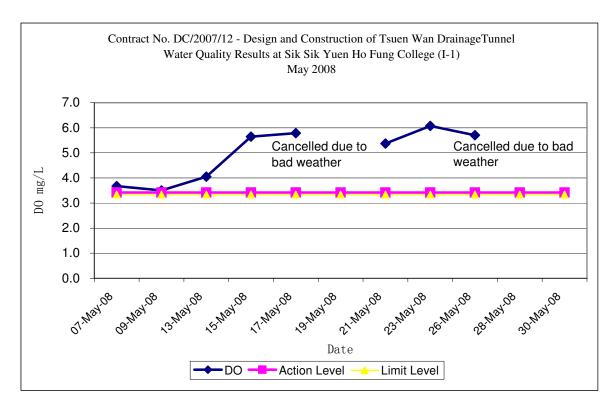


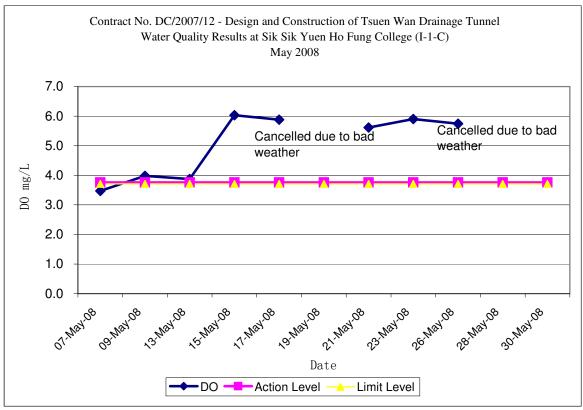




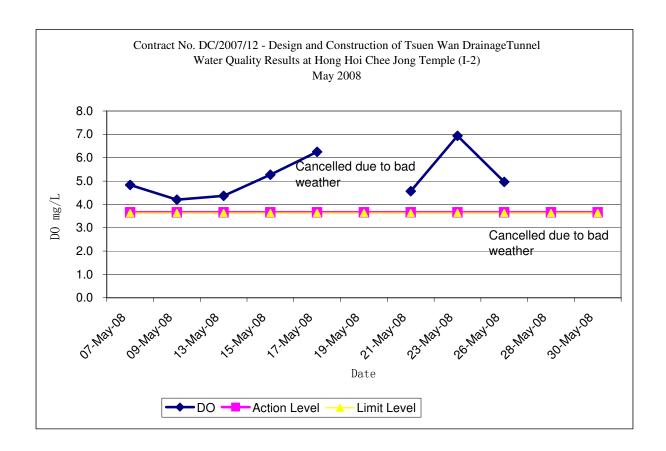


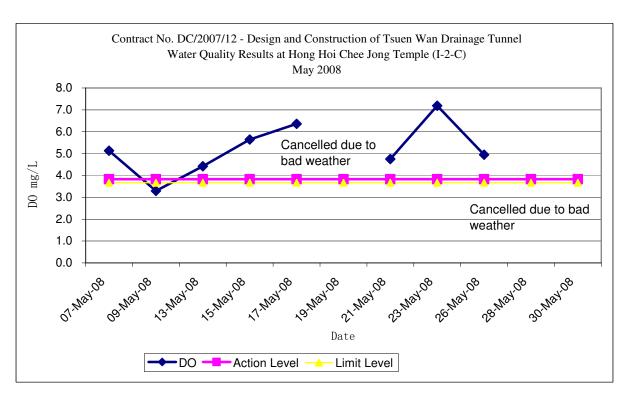




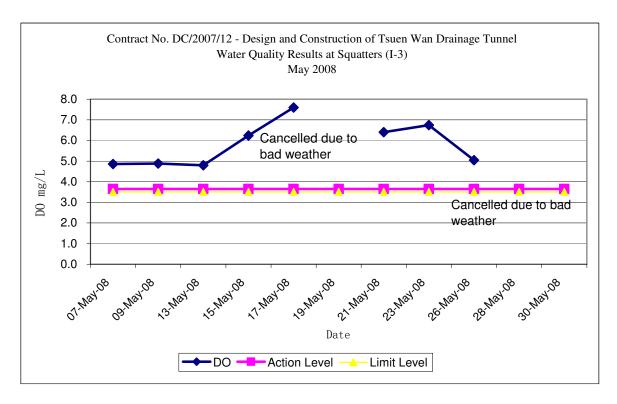


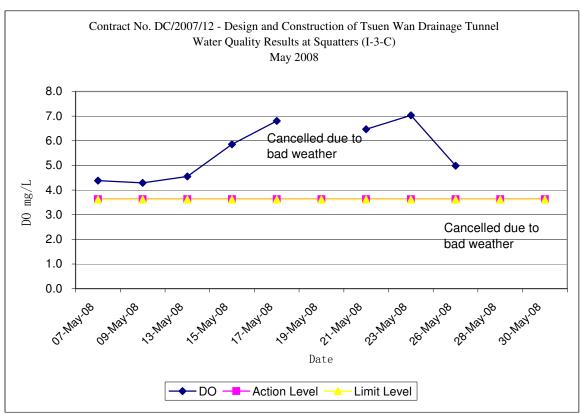
Note: Exceedances of Action / Limit Levels occur when the levels of DO are below the respective limit levels.



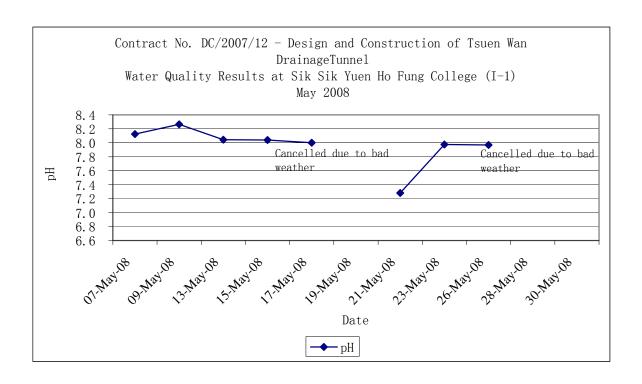


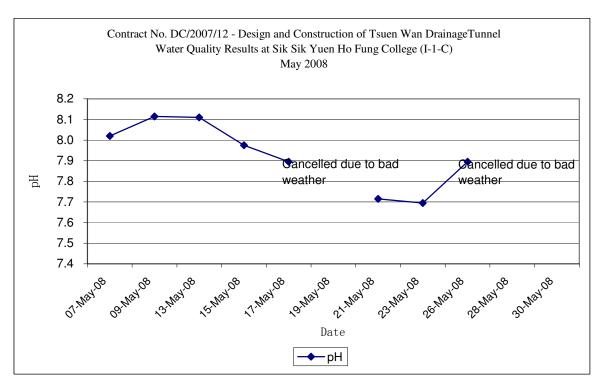
Note: Exceedances of Action / Limit Levels occur when the levels of DO are below the respective limit levels.

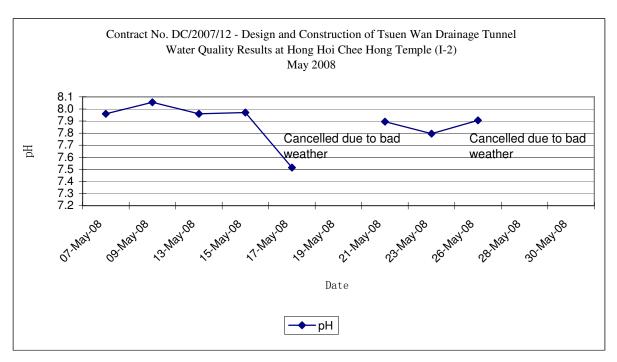


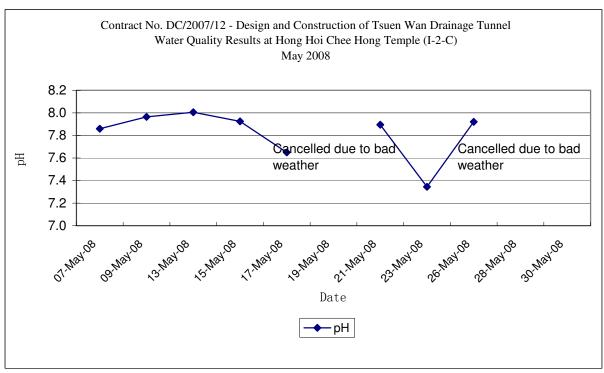


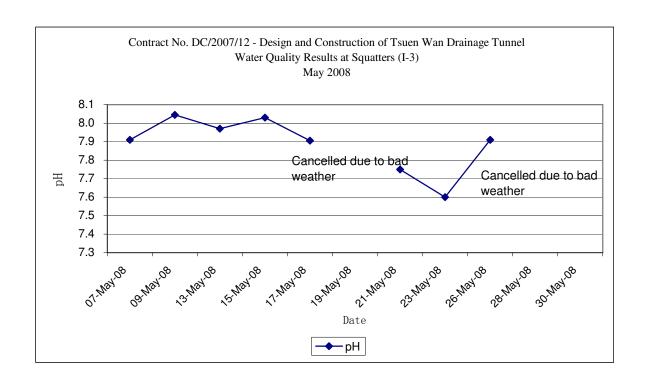
Note: Exceedances of Action / Limit Levels occur when the levels of DO are below the respective limit levels.

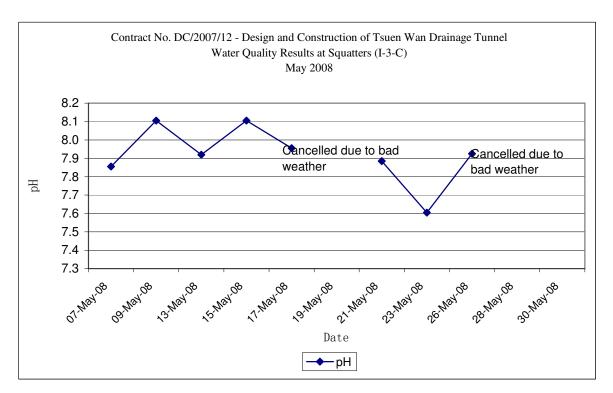


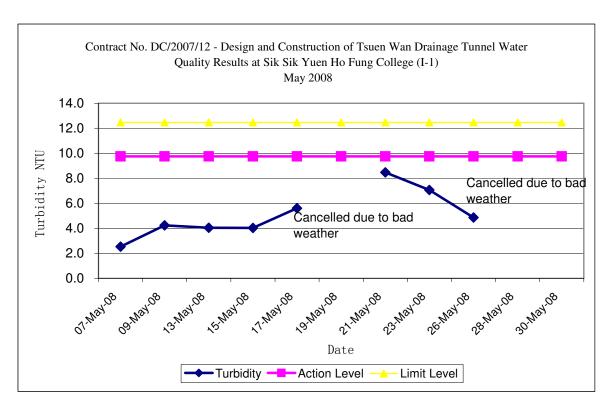


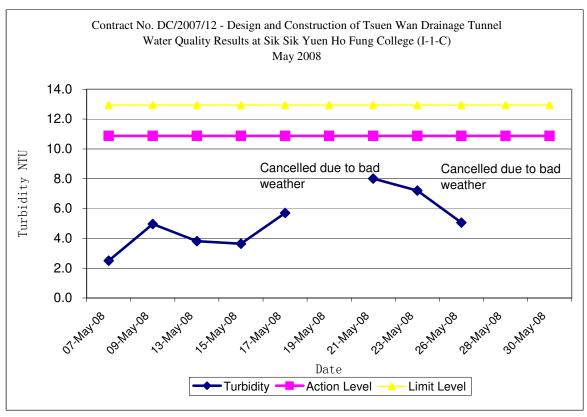


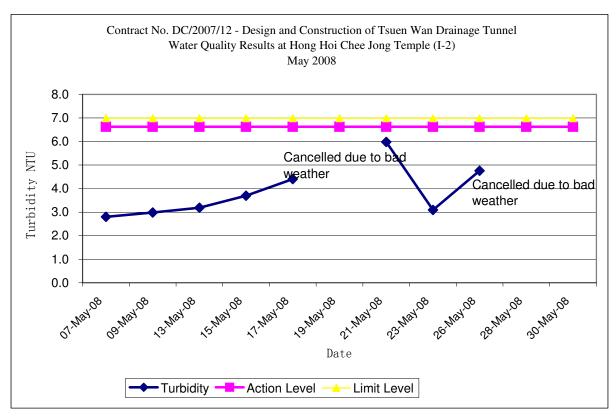


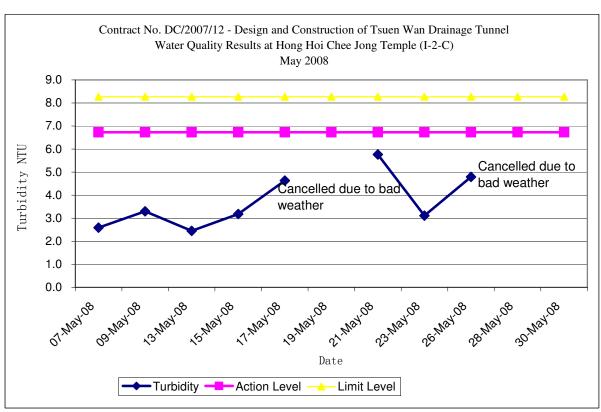


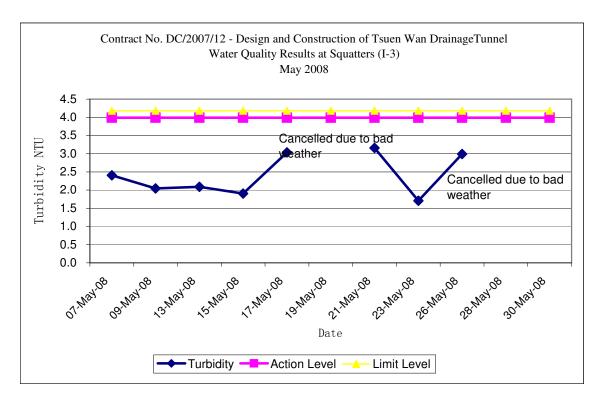


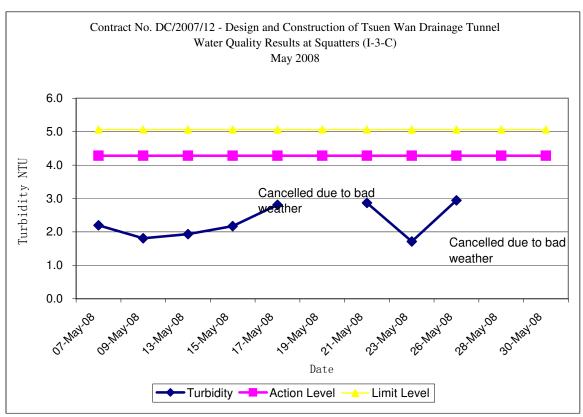


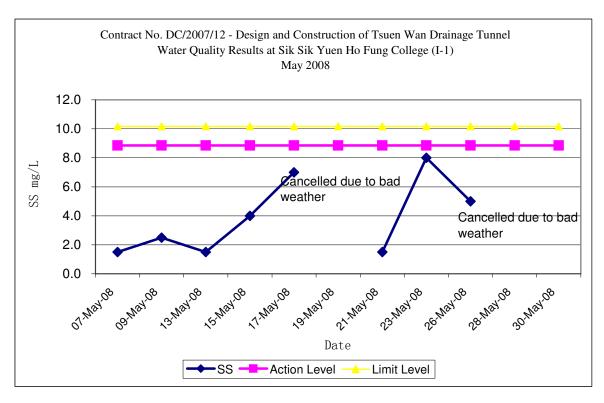


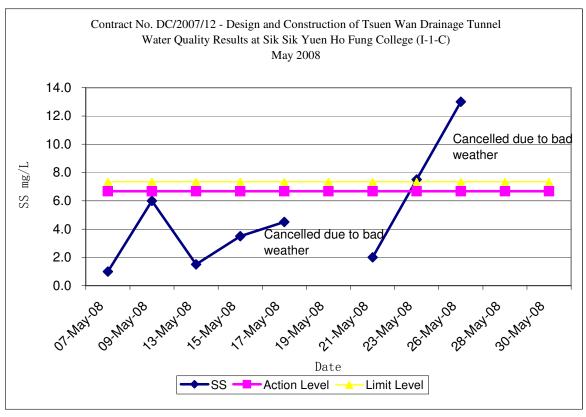


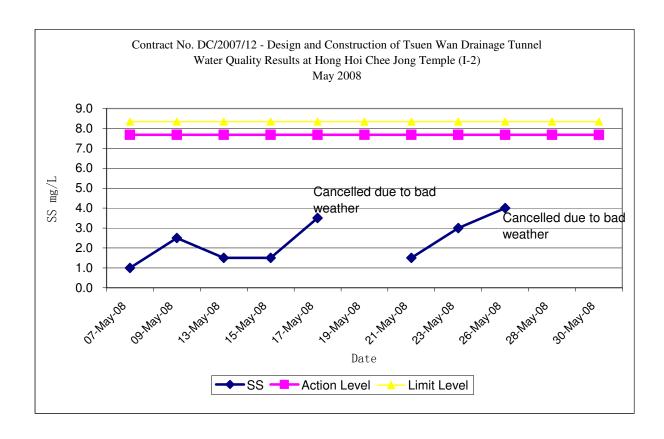


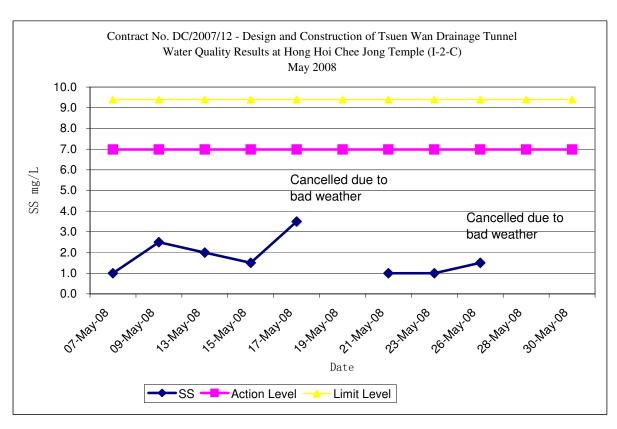


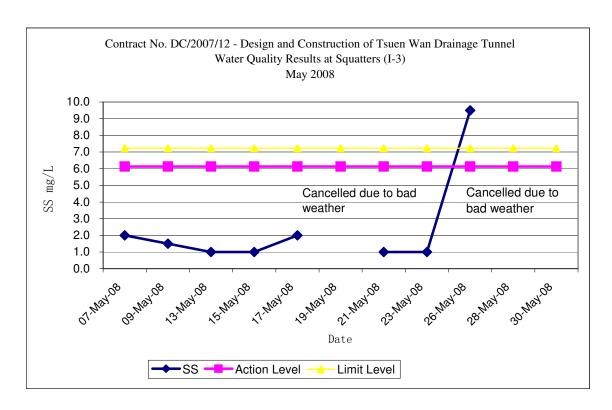


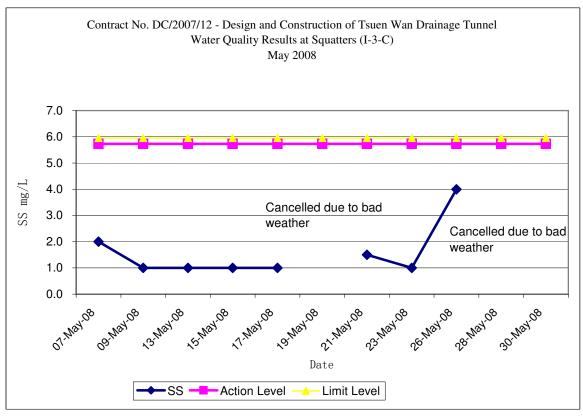














Appendix J

Interim Notifications of Environmental Quality Limits
Exceedances

Incident Report on Action Level or Limit Level Non-compliance

| Project | Tsuen Wan Drainage Tunnel |
|---|---|
| Date | 7-May-08 |
| Time | 10:11 AM |
| Monitoring Location | Sik Sik Yuen Ho Fung College Control (I-1-C) |
| Parameter | DO |
| Action & Limit Levels | 3.76 / 3.71 |
| Measured Level | 3.48 |
| Possible reason for Action or Limit Level Non-compliance | Natural Fluctuation |
| Actions taken / to be taken | Control station exceedance, not project related. No followup action. |
| Remarks | Measurement is compared to the 2nd set of action and limit level submitted on 2/6/2008. |

| Prepared | by: |
|----------|-----|
|----------|-----|

Desmond Chan

Designation:

Environmental Consultant

Signature:

& Somond Chan

Date:

6-Jun-08

Incident Report on Action Level or Limit Level Non-compliance

| Project | Tsuen Wan Drainage Tunnel |
|---|---|
| Date | 23-May-08 |
| Time | 08:57 AM |
| Monitoring Location | Sik Sik Yuen Ho Fung College Control (I-1-C) |
| Parameter | ss |
| Action & Limit Levels | 6.68 / 7.34 |
| Measured Level | 7.50 |
| Possible reason for Action or Limit Level Non-compliance | Natural Fluctuation |
| Actions taken / to be taken | Control station exceedance, not project related. No followup action. |
| Remarks | Measurement is compared to the 2nd set of action and limit level submitted on 2/6/2008. |

| Prepared by: | Desmond Chan |
|--------------|--------------------------|
| Designation: | Environmental Consultant |
| Signature: | To seemed then |
| | |

6-Jun-08

Date:

Incident Report on Action Level or Limit Level Non-compliance

| | T |
|---|---|
| Project | Tsuen Wan Drainage Tunnel |
| Date | 26-May-08 |
| Time | 09:07 AM |
| Monitoring Location | Sik Sik Yuen Ho Fung College Control (I-1-C) |
| Parameter | ss |
| Action & Limit Levels | 6.68 / 7.34 |
| Measured Level | 13.00 |
| Possible reason for Action or Limit Level Non-compliance | Natural Fluctuation |
| Actions taken / to be taken | Control station exceedance, not project related. No followup action. |
| Remarks | Measurement is compared to the 2nd set of action and limit level submitted on 2/6/2008. |

| Prepared by: | Desmond Chan | | |
|--------------|--------------------------|--|--|
| Designation: | Environmental Consultant | | |
| Signature: | Cound Chan | | |
| Date: | 6-Jun-08 | | |

Incident Report on Action Level or Limit Level Non-compliance

| Project | Tsuen Wan Drainage Tunnel | | | |
|---|---|--|--|--|
| Date | 9-May-08 | | | |
| Time | 03:09 PM | | | |
| Monitoring Location | Hong Hoi Chee Hong Temple Control (I-2-C) | | | |
| Parameter | DO | | | |
| Action & Limit Levels | 3.83 / 3.67 | | | |
| Measured Level | 3.30 | | | |
| Possible reason for Action or Limit Level Non-compliance | Natural Fluctuation | | | |
| Actions taken / to be taken | Control station exceedance, not project related. No followup action. | | | |
| Remarks | Measurement is compared to the 2nd set of action and limit level submitted on 2/6/2008. | | | |

| Prepared by: | Desmond Chan | | |
|--------------|--------------------------|--|--|
| Designation: | Environmental Consultant | | |
| Signature: | anad Cha | | |
| Date: | 6lun-08 | | |

Incident Report on Action Level or Limit Level Non-compliance

| Project | Tsuen Wan Drainage Tunnel | | | |
|---|--|--|--|--|
| Date | 26-May-08 | | | |
| Time | 02:03 PM | | | |
| Monitoring Location | Squatters (I-3) | | | |
| Parameter | ss | | | |
| Action & Limit Levels | 6.13 / 7.23 | | | |
| Measured Level | 9.50 | | | |
| Possible reason for Action or Limit Level Non-compliance | Natural Fluctuation | | | |
| Actions taken / to be taken | No construction activity is recorded. Exceedance is not project related. No followup action. | | | |
| Remarks | Nil | | | |

| Pre | pai | red | bv: |
|-----|-----|-----|-----|
| | | | |

Desmond Chan

Designation:

Environmental Consultant

Examed Chen

Signature:

Date:

6-Jun-08