# Maeda - CREC - SELI Joint Venture







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

Monthly EM&A Report

(January 2009)

February 2009

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#### **Hyder Consulting Limited**

Company Number 126012

47th Floor, Hopewell Centre, 183 Queen's Road East, Wanchai, Hong Kong

Tel: +852 2911 2233 Fax: +852 2805 5028

hyder.hk@hyderconsulting.com www.hyderconsulting.com



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Author:

Winnie Ma

Checker:

Antony Wong

Approver:

Alexi Bhanja

Report no:

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This report has been prepared for Maeda - CREC - SELI Joint Venture in accordance with the terms and conditions of appointment for Contract No. DC/2007/12 – Design and Construction of Tsuen Wan Drainage Tunnel dated 18 December 2007. Hyder Consulting Ltd (COI Number 126012) cannot accept any responsibility for any use of or reliance on the contents of this report by any third party.

Certified by Environmental

Team Leader Antony WONG Verified by Independent Environmental Checker David YEUNG Hyder



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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). Commencement of the construction work had been notified to the Environmental Protection Department (EPD) in January 2008. This Monthly EM&A Report summarises the EM&A works undertaken in January 2009.
- 2. According to the EM&A Manual, there are four designated air quality monitoring locations, five designated noise monitoring locations and four water quality monitoring locations during the construction phase: (i) Sik Sik Yuen Ho Fung College (ASR 1, NSR 1 and Intake I-1); (ii) Hong Hoi Chee Hong Temple (ASR 3, NSR 3 and Intake I-2); (iii) Squatters (NSR 6 and Intake I-3); (iv) Beach Tower (Long Beach Gardens) (ASR 8, NSR 8 and Outfall O-1); and (v) Greenview Terrace (Block 1) (ASR 9, NSR 9 and Outfall O-1).
- 3. During the non restricted hours, major construction activities undertaken by the Contractor at TWDT included site clearance at I-1, I-2, I-3 and Outfall; hoarding & fencing erection at I-3 and Outfall; tree transplanting at I-1, I-3 and Outfall; slope stabilization at Outfall; soil nailing at I-3 and Outfall; pipe pile at I-1; mini pipe pile at I-2, relocation of verified boulder at Outfall; formation of access road at Outfall, pre-bore H-piling at I-3 and construction of air vent shaft at I-2.
- 4. No exceedance has been recorded for air quality and noise monitoring during the reporting month. Detail interpretation of the result could be referred to Section 4.1 and 4.2 of this report.
- 5. Exceedances for water quality monitoring are summarized in the following table:

Parameter	Action Level Exceedance	Limit Level Exceedance
DO	Nil	Nil
Turbidity	Nil	Nil
SS	<ul> <li>Two recorded at I-2 and I-3 on 9 January</li> </ul>	Nil

- 6. These exceedances were considered not to be project-related as no direct disturbance was observed contributed by the project construction activities. Detail interpretation could be referred to Section 4.3 of this report.
- 7. The status of waste generation in the reporting month are:
  - A total of 911.4 m³ C&D material was disposed of to public fill at Tuen Mun and 515 m³ inert C&D materials were reused in KDB 400, a line extension project of MTR Corportaion at Tai Kok Tsui;



- About 20.1m<sup>3</sup> general waste was disposed of to NENT Landfill;
- Approximately 250 kg of paper/cardboard packaging was recycled;
- No plastic waste was disposed of in the reporting month;
- No chemical waste was disposed of in the reporting month; and
- Approximately 5 kg of metal was generated in the reporting month.
- 8. In this reporting month, two site inspections and one monthly site audit were carried out by ET and Independent Environmental Checker (IEC) respectively, to ensure proper implementation of environmental mitigation measures specified in the EM&A Manual and compliance with environmental legislation. All observations, which were recorded on the inspection checklists, were passed to the Contractor together with the ET's recommendations.
- 9. As advised by the Contractor and verified by ET:
  - No non-compliance was received in the reporting month;
  - No environmental complaint was received during the reporting month; and
  - No summons and prosecution was received in this reporting month.
- 10. The major construction works for the upcoming three months will be:
  - Site clearance at I-1, I-2, I-3 and Outfall;
  - Hoarding & fencing erection at I-3;
  - Tree transplanting at I-1, I-3 and Outfall;
  - Slope stabilization at Outfall;
  - Soil nailing at Outfall;
  - Relocation of verified boulder at Outfall;
  - Formation of access road at Outfall:
  - Construction of air vent shaft at I-2;
  - Excavation and Lateral Support (ELS) at I-1;
  - Construction of skin wall at I-3



### 1 INTRODUCTION

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



# 2 PROJECT INFORMATION

# 2.1 Project Organization and Management Structure

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

# 2.2 Construction Progress

- 2.2.1 The overall project programme from the detail design to completion of all civil works shall take approximately 54 months. The construction programme is presented in Appendix C.
- 2.2.2 The major construction activities undertaken in the reporting month were:
  - Site clearance at I-1, I-2, I-3 and Outfall;
  - Hoarding & fencing erection at I-3 and Outfall;
  - Tree transplanting at I-1, I-3 and Outfall;
  - Slope stabilization at Outfall;
  - Soil nailing at Outfall;
  - Pipe pile at I-1;
  - Mini pipe pile at I-2,
  - Relocation of verified boulder at Outfall;
  - Formation of access road at Outfall,
  - Pre-bore H-piling at I-3; and
  - Construction of air vent shaft at I-2.
- 2.2.3 No construction activities were undertaken for TWDT during the restricted hours.

#### 2.3 Mitigation Measures

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

#### 2.4 Status of License and Permit

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



# 3 SUMMARY OF EM&A REQUIREMENT

# 3.1 Air Quality

#### Air Quality Parameters

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

#### Monitoring Methodology

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

# Monitoring Equipment and Calibration

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



quality monitoring equipment used during the reporting month is shown in Table 3-1 below. The calibration certificates are included in Appendix F.

Equipment Type	Model	Serial Number	Calibration Orifice 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

#### **Monitoring Location**

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

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

Table 3-2 Air Quality Monitoring Locations

#### Action and Limit Levels

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

Station	1-hr TSP Le	evel 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		ACT	TON	
EVENI	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.	<ul> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method.</li> </ul>	Notify Contractor.	<ul> <li>Rectify any unacceptable practice;</li> <li>Amend working methods if appropriate.</li> </ul>
Exceedance for two or more consecutive samples	<ul> <li>Identify source;</li> <li>Inform IEC and SOR;</li> <li>Advise SOR on the effectiveness of the proposed remedial measures;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Discuss with IEC and Contractor on remedial actions required;</li> <li>If exceedance continues, arrange meeting with IEC and SOR;</li> <li>If exceedance stops, cease additional</li> </ul>	<ul> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ET on the effectiveness of the proposed remedial measures;</li> <li>Supervise Implementation of remedial measures.</li> </ul>	<ul> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ul>	<ul> <li>Submit proposals for remedial to SOR within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ul>
	monitoring.			
	- HEf	LIMIT LEVEL	0	Table Service B. C.
Exceedance for one sample	<ul> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> </ul>	<ul> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> </ul>	<ul> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Notify Contractor;</li> </ul>	<ul> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to</li> </ul>



EVENT		ACT	ION		
EVENT	ET	IEC	SOR	CONTRACTOR	
	<ul> <li>Inform IEC, SOR, Contractor and EPD;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and SOR informed of the results.</li> </ul>	<ul> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise SOR on the effectiveness of the proposed remedial measures;</li> <li>Supervise implementation of remedial measures.</li> </ul>	Ensure remedial measures properly implemented.	IEC within 3 working days of notification;  Implement the agreed proposals;  Amend proposal if appropriate.	
Exceedance for two or more consecutive samples	<ul> <li>Notify IEC, SOR, Contractor and EPD;</li> <li>Identify source;</li> <li>Repeat measurement to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>Arrange meeting with IEC and SOR to discuss the remedial actions to be taken;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and SOR informed of the results;</li> <li>If exceedance stops, cease additional</li> </ul>	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;     Supervise the implementation of remedial measures.	<ul> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Notify Contractor;</li> <li>In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Ensure remedial measures properly implemented;</li> <li>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.</li> </ul>	<ul> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Resubmit proposals if problem still not under control;</li> <li>Stop the relevant portion of works as determined by SOR until the exceedance is abated.</li> </ul>	

Table 3-4 Event/Action Plan for Air Quality

10/02/09 10:03 5



#### 3.2 Noise

#### **Noise Parameters**

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

#### Monitoring Methodology

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

#### Monitoring Equipment and Calibration

- 3.2.5 Bruel & Kjaer (B&K) Precision Integrating Sound Level 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, are used for noise monitoring.
- 3.2.6 Prior to and following each noise measurement, the accuracy of the sound level meter is checked using an acoustic calibrator (B&K Type 4230, (S/N 1639065) generating a known sound pressure level at a known frequency. Measurements are considered as valid only if the calibration levels from before and after the noise measurement agrees to within 1.0 dB(A). The sound level meters and the calibrator are calibrated annually to ensure they perform to the same level of



accuracy as stated in the manufacturer's specifications. The noise monitoring equipment used during the reporting month is shown in Table 3-5 below. The calibration certificates are included in Appendix F.

Equipment Type	Manufacturer	Type Number	Serial Number	Location
Sound Level Meter	Bruel & Kjaer	2238	2448529	NSR1, NSR3, NSR6, NSR8 and NSR9
Sound Level Calibrator	Bruel & Kjaer	4230	1639065	NSR1, NSR3, NSR6, NSR8 and NSR9

Table 3-5 Noise Monitoring Equipment

#### **Monitoring Location**

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

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

#### Construction Groundborne Noise

- 3.2.8 Prediction of construction groundborne noise indicates the criteria will be achieved at most NSRs except exceedances are predicted at Hong Hoi Chee Hong Temple (NSR3) and Squatters (NSR6). It is recommended to restrict the TBM operation in non-restricted period (i.e. 0700 1900) at these NSRs. In order to ensure proper control of groundborne noise is executed by the contractor, a monitoring requirement is recommended at the Hong Hoi Chee Hong Temple at Intake 2 and Squatters at Intake 3 for compliance checking. According to the monitoring schedule, TBM operation will be carried out for about 3 months in the vicinity of Hong Hoi Chee Hong Temple at Intake 2 and Squatters at Intake 3. If groundborne noise criterion is exceeded, the monitoring shall continue daily until acceptance has been restored against the criterion. Otherwise the monitoring can be discontinued.
- The criteria including Technical Memorandum for the Assessment of Noise from Places other than Domestic Premises, Public Places or Construction Sites (TM-Places) under the NCO stipulates that noise transmitted primarily through the structural elements of building, or buildings, shall be 10 dB(A) less than the relevant ANLs. Daytime groundborne construction noise criterion of 60 dB(A) therefore applies with reference to TM-EIAO 70 dB(A) criterion for schools and taking account of the minus 10 dB(A) requirement under the NCO TM-Places. Following the same principle for groundborne noise criteria, groundborne construction noise levels inside domestic premises relying on opened window for



ventilation will be limited to 65 dB(A), with reference to the daytime airborne noise criterion of 75 dB(A) in accordance with TM-EIAO.

#### Action and Limit Levels

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

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

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

Table 3-7 Action & Limit Levels for Noise



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

Table 3-8 Event/Action Plan for Noise



# 3.3 Water Quality

3.3.1 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.

#### Water Quality Parameters

- 3.3.2 Monitoring for Dissolved Oxygen (DO), temperature, turbidity, pH and suspended solids (SS) should be undertaken at designated monitoring locations. It should be noted that DO, temperature, turbidity and pH should be measured in-situ whereas SS is assayed in a laboratory.
- 3.3.3 In association with the water quality parameters, other relevant data should also be measured, such as monitoring location/position, time, weather conditions, and any special phenomena and description of work underway at the construction site etc.

#### Monitoring Methodology

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

#### Monitoring Equipment and Calibration

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



Equipment Type	Manufacturer	Model	Quantity
DO / Temperature Meter	YSI	YSI85	1
pH Meter	WTW	PH/Oxi 340i	1
Tuibidimeter	EUTECH	TN-100	1

Table 3-9 Water Quality Monitoring Equipment

3.3.8 All pH meters, DO meters and turbidimeters shall be checked and calibrated prior to use. DO meters and turbidimeters shall be calibrated by a laboratory accredited under HOKLAS or any other international accreditation scheme, and subsequently re-calibrated at 3 monthly intervals throughout all stages of the water quality monitoring. Responses of sensors and electrodes shall be checked with certified standard solutions before each use. Wet bulb calibrations for all DO meters shall be carried out before measurement at each monitoring location. For the on site calibration of field equipment, BS 127:1993, "Guide to field and on-site test methods for the analysis of waters" should be observed. The calibration certificates are included in Appendix F.

#### **Monitoring Location**

3.3.9 Four designated monitoring locations were identified in the contract specific EM&A Manual for water quality monitoring. While the construction of the outfall 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

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



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

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

Parameters	Action	Limit
DO in mg/l (Surface, Middle & Bottom)	Surface & Middle 5%-ile of baseline data for surface and middle layer.  Bottom 5%-ile of baseline data for bottom layer.	Surface & Middle 4mg/l except 5mg/l for FCZ or 1%-ile of baseline data for surface and middle layer  Bottom
		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



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	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.						miligation 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.	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;	3.	be implemented; and Assess the effectiveness	3.	Check all plant and equipment;
	4.	Check monitoring data, all plant,	3.	and		of the implemented mitigation measures.	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 SOR
	5.	Discuss mitigation measures with IEC and Contractor;					6.	within 3 working days; and Implement the agreed
	6.	Ensure mitigation measures are implemented;						mitigation measures.
	7.	Prepare to increase the monitoring frequency to daily; and						
	8.	Repeat measurement on next day of exceedance.						



Event		ET Leader		IEC		SOR		Contractor
Limit Level being exceeded by one sampling day	<ol> <li>2.</li> <li>3.</li> <li>4.</li> <li>7.</li> </ol>	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.	<ol> <li>3.</li> <li>4.</li> </ol>	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.	<ol> <li>2.</li> <li>3.</li> <li>5.</li> </ol>	confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment;
Limit Level being exceeded by more than one consecutive sampling day	<ol> <li>2.</li> <li>3.</li> <li>4.</li> <li>7.</li> </ol>	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.	<ol> <li>2.</li> </ol>	mitigation measures submitted by Contractor and advise the SOR accordingly; and		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.	<ol> <li>2.</li> <li>3.</li> <li>5.</li> <li>7.</li> </ol>	confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment;

Table 3-12 Event/Action Plan for Water Quality



# 4 MONITORING RESULT

# 4.1 Air Quality

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

# 1-hr TSP Monitoring

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

Station	Monitoring Date	Monitoring Result (μg/m³)	Action/Limit Levels (μg/m³)
		58.9	
	3-Jan-09	82.2	
		76.0	
		144.7	
	9-Jan-09	84.6	
		144.7	
		123.9	
	15-Jan-09	84.6	
ASR 1		89.5	307/500
ASK I		69.9	
	21-Jan-09	121.4	
		84.6	
		55.2	
	24-Jan-09	69.9	
		77.3	
		73.6	
	29-Jan-09	101.8	
		141.0	
ASR 3		60.9	327/500
	3-Jan-09	84.8	
		63.3	
		72.2	
	9-Jan-09	168.6	
		121.9	
		64.5	
	15-Jan-09	77.7	
		84.8	
		77.7	
	21-Jan-09	57.4	
		63.3	
	24-Jan-09	76.5	
		74.1	



Station	Monitoring Date	Monitoring Result (μg/m³)	Action/Limit Levels (μg/m³)
		83.7	
		44.2	
	29-Jan-09	76.5	
		98.0	
		63.5	
	3-Jan-09	86.7	
		85.5	
		166.0	
	9-Jan-09	97.7	
		152.6	
		168.5	
	15-Jan-09	161.2	
ASR 8		156.3	337/500
ASK 0		106.2	
	21-Jan-09	105.0	
		120.9	
		119.6	
	24-Jan-09	92.8	
		107.4	
		114.8	
	29-Jan-09	112.3	
		125.8	
		55.5	
	3-Jan-09	56.8	
		63.4	
		114.9	
	9-Jan-09	63.4	
		105.7	
		113.6	
	15-Jan-09	103.1	
ASR 9		108.3	329/500
ASIN		67.4	
	21-Jan-09	59.5	
		71.3	
	0.4 1	79.3	
	24-Jan-09	68.7	
		81.9	
	00 1 22	103.1	
	29-Jan-09	111.0	
		114.9	

**Note:** *Italic* indicates the occurrence of exceedance of *Action level* **Bold** indicates the occurrence of exceedance of **Limit Level** 

Table 4-1 Air Quality Monitoring Results



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

#### 4.2 Noise

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

Station	Monitoring Date	L <sub>eq (30 min)</sub> dB(A)	Limit Levels dB(A)
	9-Jan-09	62	70
NSR 1	16-Jan-09	63	, 0
NSK I	21-Jan-09	65	
	29-Jan-09	63	
	9-Jan-09	71	
NCD 2	16-Jan-09	71	
NSR 3	21-Jan-09	66	
	29-Jan-09	60	
	9-Jan-09	64	
NCD 6	16-Jan-09	64	
NSR 6	21-Jan-09	66	
	29-Jan-09	60	75
	9-Jan-09	64	75
NCD 0	16-Jan-09	65	
NSR 8	21-Jan-09	65	
	29-Jan-09	59	
	9-Jan-09	61	
NCD 0	16-Jan-09	67	
NSR 9	21-Jan-09	66	
	29-Jan-09	52	

Table 4-2 Noise Monitoring Results

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

# 4.3 Water Quality Monitoring

4.3.1 The water quality monitoring schedule of the reporting period is given in Appendix H. In accordance with the monitoring results, two exceedances were identified. Summaries of exceedances for water quality monitoring are provided in Tables 4-3 to 4-5.



Parameter	Action Level Exceedance	Limit Level Exceedance
DO	Nil	Nil
Turbidity	Nil	Nil
SS	Nil	Nil
Total	Nil	Nil

Table 4-3 Summary of Exceedances for I-1

Parameter	Action Level Exceedance	Limit Level Exceedance
DO	Nil	Nil
Turbidity	Nil	Nil
SS	One recorded on 9 January	Nil
Total	One	Nil

Table 4-4 Summary of Exceedances for I-2

Parameter	Action Level Exceedance	Limit Level Exceedance
DO	Nil	Nil
Turbidity	Nil	Nil
SS	One recorded on 9 January	Nil
Total	One	Nil

Table 4-5 Summary of Exceedances for I-3

- 4.3.2 Results of measured water quality parameters during the reporting month are shown in Table 4-6 and detailed results including weather conditions and graphical presentations are enclosed in Appendix I.
- 4.3.3 The exceedances of Control Action Level of SS (120% higher than I-2-C and I-3-C respectively) recorded at I-2 and I-3 on 9 January were below both baseline Action and Limit Levels and was within the range of baseline SS concentration. No direct disturbance was observed contributed from project related activities. The exceedance considered to be contributed by natural variation and no action was therefore required.
- 4.3.4 Details of the above mentioned investigations could be referred to the notifications of exceedances as enclosed in Appendix J, which have been provided to the IEC for review.



Station	Date	Temperature	DO (mg/L)	Action/Limit 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	2-Jan-09	18.50	4.76	3.42 / 3.34	7.77	4.17	9.75 / 12.47	2.0	8.85 /
	5-Jan-09	18.20	4.87		7.22	3.72		2.0	
	7-Jan-09	18.30	4.43		7.75	4.20		2.0	
	9-Jan-09	18.15	4.25		7.76	4.02		4.1	
	12-Jan-09	15.25	5.74		7.55	5.43		2.0	
	14-Jan-09	18.50	4.83		7.54	4.65		4.1	
	16-Jan-09	15.40	5.32		7.43	5.09		2.0	
	19-Jan-09	17.80	4.53		7.74	5.21		2.0	
	21-Jan-09	17.50	5.87		7.52	4.23		2.0	
	23-Jan-09	16.50	5.55		7.71	5.15	]	2.0	
	29-Jan-09	16.00	6.46		7.73	5.35	]	3.6	
	31-Jan-09	17.30	6.25		8.03	5.13		4.0	



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-C	2-Jan-09	18.80	4.66	- / -	7.72	4.22	-/-	2.0	-/-
	5-Jan-09	18.00	4.92		7.21	3.88	1	2.0	
	7-Jan-09	18.20	4.94		7.77	4.29		2.0	
	9-Jan-09	18.10	4.18		7.73	3.97	]	3.9	
	12-Jan-09	15.30	5.85		7.53	5.47		2.0	
	14-Jan-09	18.20	4.92		7.56	4.73		4.0	
	16-Jan-09	15.80	5.45		7.42	5.15		2.0	
	19-Jan-09	17.70	4.63		7.54	5.27		2.0	
	21-Jan-09	17.70	5.49		7.22	4.43		2.0	
	23-Jan-09	16.50	5.42		7.73	5.27	]	2.0	
	29-Jan-09	16.00	6.53		7.71	5.45	]	4.1	
	31-Jan-09	17.20	6.33		8.07	5.25		5.5	



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	2-Jan-09	18.30	4.74	3.66 / 3.63	7.73	5.24	6.63 / 6.99	2.0	7.68 / 8.34
	5-Jan-09	18.50	4.55		7.40	5.23		2.0	
	7-Jan-09	17.80	4.71		7.44	3.69		2.0	
	9-Jan-09	17.30	4.66		7.25	3.85		5.2	
	12-Jan-09	15.00	5.55		7.43	4.66		2.0	
	14-Jan-09	14.30	5.27		7.63	4.09		2.8	
	16-Jan-09	15.25	4.83		7.33	4.36		2.0	
	19-Jan-09	19.70	4.18		7.55	5.23		2.0	
	21-Jan-09	17.70	4.57		7.55	4.24		2.0	
	23-Jan-09	16.50	5.23		7.70	5.15	]	2.0	
	29-Jan-09	16.00	6.33		7.72	5.23	]	3.7	1
	31-Jan-09	17.20	6.38		7.82	5.45		2.0	



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-C	2-Jan-09	18.50	4.74	- / -	7.43	5.33	- / -	2.0	-/-
	5-Jan-09	18.25	4.70		7.43	5.27		2.0	
	7-Jan-09	18.00	4.67		7.43	3.82		2.0	
	9-Jan-09	17.35	4.75		7.24	3.83		4.2	
	12-Jan-09	15.20	5.60		7.45	4.75		2.0	
	14-Jan-09	14.40	5.35		7.56	4.12		2.9	
	16-Jan-09	15.80	4.75		7.33	4.29		2.0	
	19-Jan-09	19.60	4.06		7.56	5.34		2.0	
	21-Jan-09	17.50	4.50		7.72	4.20		2.0	
	23-Jan-09	16.30	5.32		7.71	5.19	]	2.0	
	29-Jan-09	16.20	6.39		7.71	5.29	]	3.8	
	31-Jan-09	17.20	6.21		7.82	5.65		2.0	



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-3	2-Jan-09	19.30	4.35	3.65 / 3.51	7.52	3.43	3.99 / 4.18	2.0	6.13 / 7.23
	5-Jan-09	18.70	4.86		7.42	3.14		2.0	
	7-Jan-09	19.40	4.89		7.80	3.57		2.0	
	9-Jan-09	18.95	4.65		7.76	3.73		2.5	
	12-Jan-09	15.30	5.46		7.63	3.36		2.0	
	14-Jan-09	14.90	4.89		8.02	3.46		2.4	
	16-Jan-09	15.20	4.36		7.43	3.19		2.0	
	19-Jan-09	18.30	4.31		7.45	3.29		2.0	
	21-Jan-09	17.70	4.39		7.55	3.34		2.0	
	23-Jan-09	16.70	5.48		7.67	3.31	]	2.0	
	29-Jan-09	16.00	6.28		7.70	3.38	]	2.0	
	31-Jan-09	17.30	6.32		7.42	3.41		2.0	



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-3-C	2-Jan-09	19.20	4.46	-/-	7.53	3.64	- / -	2.0	-/-
	5-Jan-09	18.50	4.67		7.44	3.22		4.0	
	7-Jan-09	19.30	4.77		7.82	3.65		2.0	
	9-Jan-09	19.00	3.61		7.77	3.61		2.0	
	12-Jan-09	15.20	5.41		7.62	3.46		2.0	
	14-Jan-09	14.75	5.01		8.04	3.54		2.1	
	16-Jan-09	15.70	4.31		7.44	3.21		2.0	
	19-Jan-09	18.50	4.27		7.43	3.43		2.0	
	21-Jan-09	17.40	4.57		7.56	3.47		2.0	
	23-Jan-09	16.80	5.41		7.70	3.43	]	2.0	1
	29-Jan-09	16.00	6.22		7.70	3.42	]	2.0	]
	31-Jan-09	17.50	6.43		7.71	3.65		2.0	

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

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

Table 4-6 Water Quality Monitoring Results



# 4.4 Summary of Project-Related Exceedances

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

Environmental Monitoring	Total No. of Measurement	Action Level Exceedance	% of Action Level Exceedance	Limit Level Exceedance	% of Limit Level Exceedance
Air Quality	72	0	0	0	0
Noise	20	0	0	0	0
Water	72	0	0	0	0

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

Table 4-7 Summary of Project-Related Exceedances

# 5 WASTE MANAGEMENT

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

Status of waste management	Quantity
Inert C&D Material Disposed of to Public Fill at Tuen Mun (m³)	911.4
Inert C&D Material Reused in other Contracts (m³)	515
Metals Generated (kg)	5
Paper / Cardboard Packaging (kg)	250
Plastics (kg)	Nil
Chemical Waste (kg)	Nil
General Waste Disposed of to NENT Landfill (m³)	20.1

Table 5-1 Waste Generated in January 2009

# 6 NON-COMPLIANCE AND DEFICIENCY

# 6.1 Site Audit by ET

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



Inspection Date	Observation	Recommendation	Status	
Follow up issues	During site inspection on 19 December 2008, a pile of exposed debris was observed at the Intake I-3.	The Contractor was requested to either dispose debris off regularly or cover it with tarpaulin.	No exposed debris was observed at Intake I-3 on 23 January 2009. (Closed)	
8 January 09	Slightly dry haul roads were observed at Intake I-1, I-2, I-3, Outfall and Portion I&H.	Dust suppression measures were advised to be implemented.	During site inspection on 23 January 2009, no dry haul road was observed. (Closed)	
C&D waste debris were observed without tarpaulin sheet cover near grouting machine at Outfall O-1.		The Contractor was requested to cover debris waste or dispose debris waste regularly.	C&D waste debris had been disposed on 31 January 2009. (Closed)	

Table 6-1 Site Inspection by ET

#### COMPLAINT

- 7.1.1 A complaint hotline at 9850 3241 of the Contractor has been established for the Project.
- 7.1.2 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** 

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

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

Notificatio	n of Summons	Successful Prosecution			
January 09 Cumulative		January 09	Cumulative		
0	0	0	0		

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



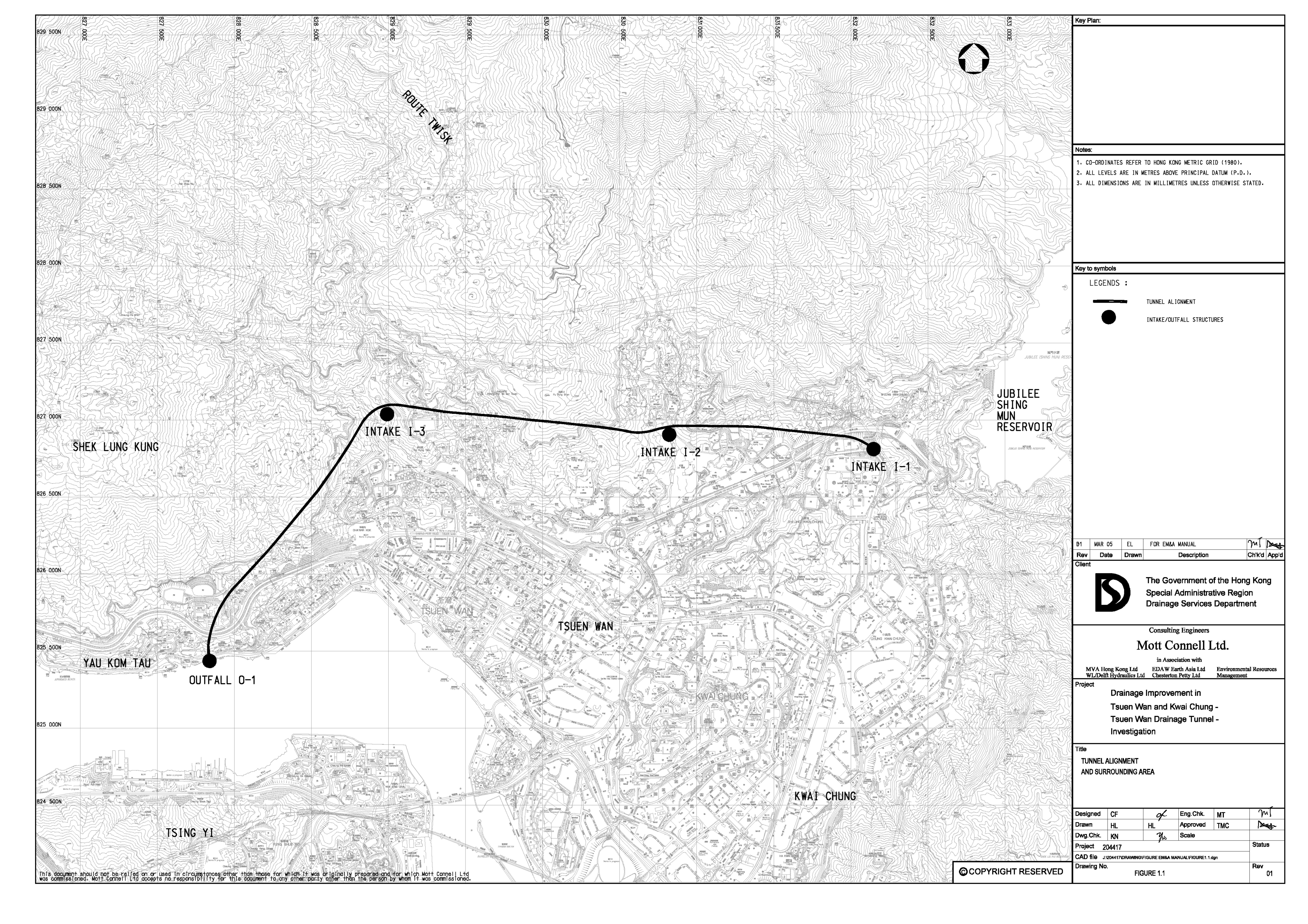
# 9 FUTURE KEY ISSUE

- 9.1.1 The forecast of construction works for the upcoming three months are:
  - Site clearance at I-1, I-2, I-3 and Outfall;
  - Hoarding & fencing erection at I-3;
  - Tree transplanting at I-1, I-3 and Outfall;
  - Slope stabilization at Outfall;
  - Soil nailing at Outfall;
  - Relocation of verified boulder at Outfall;
  - Formation of access road at Outfall;
  - Construction of air vent shaft at I-2;
  - Excavation and Lateral Support (ELS) at I-1; and
  - Construction of skin wall at I-3



# Appendix A

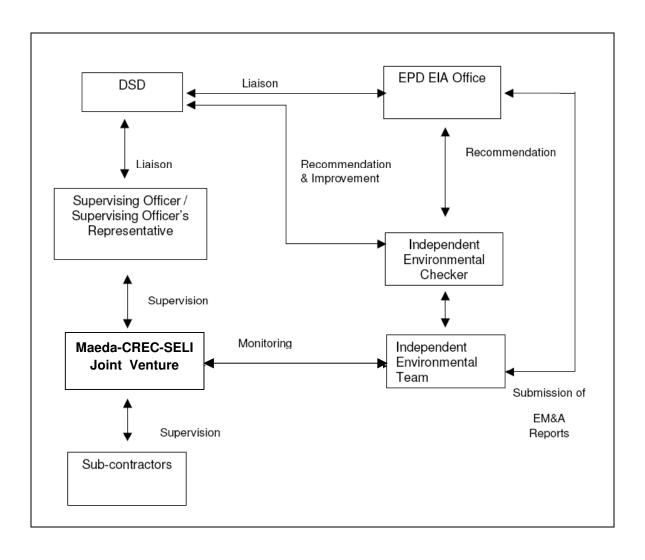
Site Map and Works Area





## Appendix B

Organization Chart





## Appendix C

Construction Programme

Preliminaries	Start, Finish (D. Front Da	FM AMBOLA (SOUND STEM AN AN ASSOCIATION DATE MANAGEMENT OF THE MAIN OF THE MAI
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	01R0000308
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	1	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
A CHARLES OF THE STATE OF THE S	2	24SEP12		0	Handover of Portion H1	01R0H10104
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01R0000514   Contractor's Monthly Progress Report	2	www.mercentalto be
Safety Plan as par 500 thin		Commence of the Commence of th
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	14 14DEC07 27DEC07 2	
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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	100
101 HOUDO/04 SUbmit documents for all insurances are effected	3d 21 14DEC07 03JAN08 2 0 Pas per SCC9 SCC10 8 SCC45	
	PLEASURE DE MAN CONTROL PLAN A CONTR	
T	14 28DEC07 10JAN08 2 0 as per SCC 74 withfin 14 days of DOC	
	28 14DEC07 10JAN08 2	
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01R0000808   Maintain & update Quality System	0	dy themselves to describe
EnViloument		
01R0000902   Nominate Environmental Officer	14 14PEC07 97PEC07 0 PEC B 1 CL	
	140EC07 03 IANDS 2 0	<del></del>
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 or and a second or a sec
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	-	<del></del>
	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 Permit/Dillifies per Societ & Society		5152535455565768596061626364656
01R0001002   Nominate IIUMS co-ordinator	O the nor COO3 willish 7 Mayor of OA Isaaca 1	
	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 Lantscane Specialist Contractor	14 14DECAT 27DECAT 2 000 8	
1	28DECO7 02 IANO8 2	
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	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E30 30.06(2)  E3
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         455         455         25SEP09         2         9         455	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	. Slart	Finish ID Float	RIVIEMAMI JERAISION DELIEMAMINETA ESON DELEMANA EL PROPRIETA POR MINITARIS ON DETENDAMI EL PROPRIETA EL PROPR
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	
รางเรื่องและเป็นจะเขาสู่เก็บการสู่เก็บการสู่เก็บการสู่เก็บการสู่เก็บการสู่เก็บการสู่เก็บการสู่เก็บการสู่เก็บกา			
01R0002501 1R 1; On provision of SO's Accommodation	0	14APR08 2 11.624	• accommodation for accupation as per App FR M
01-70002502 1R 2; On providing documents of effected CWI	0		<b>♦</b> 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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- " <del> </del>	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
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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 14MARO8 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
1	. 21MAY08 2
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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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02L1DD0424 Design (DDA) submission for the SO's approval	1 26MAR08 26MAR08 1 1
į	14 27MAR08 09APR08 2 1
102L1DD0428 Obtain design (DDA) approval from the SO	0 09APR08 2 1

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02L1D0430 DDA submission for rel. authorities' approval	10APR08	-	2.00 P. 10 P
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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
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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	
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02L1DD0636 Obtain SO's consent for design (DDA)	0 24JU	L08 2 23	

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TBM Launching Chamber Design		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	
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02L1DD0716 Obtain ref. authorities's approval for AiP	1 13JUN08 13JUN08 1 29	
T	0 14JUN08 2 35	11.000
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02L1DD0726   Design (DDA) review by the SO	30 08JUL08 06AUG08 2 35 83	
	1 07AUG08 07AUG08 1 30	
	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 �	
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	28 15JUL08 11AUG08 2 59	
	1 12AUG08 1 48	
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	
	5	
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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	<b>8</b>
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	
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Main Tunnel Design		
02L1FF0102 Design preparation for the AIP submission	08MA	
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Design (AIP) submission for the SO's approval Design (AIP) submission for the SO         45         24APR08         23APR08         1         88           Design (AIP) review by the SO         0         45         24APR08         07JUN08         2         107         ◆           AIP submission for rel. authorities' approval from the SO         0         0         07JUN08         1         105         1         1         1         1         1         1         1         1         1         1         1         2         1         1         1         2         1         1         1         2         1         1         1         2         1         1         1         1         1         1         2         1 <t< th=""><th>1</th><th>† ·</th><th>22AP</th><th>107</th><th>\$236</th></t<>	1	† ·	22AP	107	\$236
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Obtain design (AIP) approval from the SO   O O O O O O O O O O O O O O O O O			07JUN08	107	
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Obtain rel. authorities's approval for AIP         1         09JUL08         09JUL08         1         87           Obtain SO's consent for design (AIP)         0         16JUL08         2         105           Design preparation for the DDA submission         30         18JUN08         17JUL08         2         105           Design (DDA) certification by the Design Checker         15         18JUL08         07AUG08         2         105           Design (DDA) review by the SO         45         03AUG08         1 SEPPOB         2         105           Obtain design (DDA) review by the SO         0         0         17SEPOB         2         105           DDA submission for rel. authorities' approval from the SO         0         17SEPOB         2         105           DA submission for rel. authorities' approval for DDA         1         16OCT08         15OCT08         2         105           Obtain SO's consent for design (DDA) review by the rel. authorities' approval for DA         1         16OCT08         1<			08JUL08	105	
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Obtain design (DDA) approval from the SO         0         16SEP08         2         105           DDA submission for rel. authorities' approval         1         17SEP08         17SEP08         1         8           Design (DDA) review by the rel. authorities         28         18SEP08         15OCT08         2         106           Obtain rel. authorities's approval for DDA         1         1         16OCT08         1         8         108           Obtain SO's consent for design (DDA)         0         17OCT08         2         107         107           essment on WSD Tal Lam Chung WT No. 3         0         08FEB08         08MAR08         2         3         107           Design preparation for the AIP submission         1         25MAR08         23MAR08         2         3         107           Design (AIP) review by the SO         50         26MAR08         14MAY08         2         2         1           Dotain design (AIP) approval from the SO         0         14MAY08         2         2         1           AIP submission for rel. authorities' approval         1         15MAY08         1         2         2	i	<del></del>	16SEP08	105	
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Design (DDA) review by the rel. authorities         28         18SEP08         15OCT08         2         106           Obtain rel. authorities's approval for DDA         1         1         16OCT08         1         1         85           Obtain SO's consent for design (DDA)         0         17OCT08         2         107         1           essament on WSD Tal Lam Chung WT No. 3         0         0         17OCT08         2         107           Design preparation for the AIP submission for the AIP submission for the SO's approval         15         09MAR08         23MAR08         3         ##           Design (AIP) review by the SO         50         26MAR08         14MAY08         2         3         ##           Dostign (AIP) review by the SO         0         14MAY08         2         2         ##           Obtain design (AIP) approval from the SO         0         14MAY08         2         2         ##           AIP submission for rel. authorities' approval         1         15MAY08         15         2         ##		. 1	17SE	98	
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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	
	28 28AUG08 24SEP08 2 4	
	1 25SEP08 25SEP08 1 3	
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.		
	08MAY08 06JUN08 2	
i	21JUN08	
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	
Ī	1 23AUG08 23AUG08 1 201	
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
02L1FF0524 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	
ELS Design for Spiral Ramp/Cascade/Box Culvert		
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	
02L1AA0216 Obtain rel. authorities's approval for AIP	1 08MAY08 08MAY08 1 16	
02L1AA0218 Obtain SO's consent for design (AIP)	0 09MAY08 2 20	
02L1AA0220 Design preparation for the DDA submission	30 17APR08 16MAY08 2 20 1 🖾	
02L1AA0222   Design (DDA) certification by the Design Checker	15 17MAY08 31MAY08 2 20 H	
02L1AA0226 Design (DDA) submission for the SO's approval	1 02JUN08 02JUN08 1 16	
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02L1AA0238 Obtain SO's consent for design (DDA)	0 17JUL08 2 20 🔷	
Temp. Platform Design for H-Piling		
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02L1AA0306 Design submission for the SO's approval	1 25MAR08 25MAR08 1 1,312	
02L1AA0308   Design review by the SO	28 26MAR08 22APR08 2 1,616 部	
Cascade & Box Culver Design for Portion A		
021.1AA0402 Design preparation for the AIP submission	30 08MAR08 06APR08 2 627 图	

20JUN08 2 23JUN08 21JUN08 1 22JUN08 21JUN08 1 22JUN08 21JUN08 1 16JUL08 30JUL08 2 31JUL08 30JUL08 2 31JUL08 30JUL08 2 29OCT08 29OCT08 2 21AMAY08 04JUN08 2 21AUG08 29AUG08 2 21AUG08 29AUG08 2 21AUG08 25AUG08 2 21AUG08 25AUG08 2 21AUG08 25AUG08 2 21AUG08 25AUG08 2 21AUG08 15EEO8 1 15EEO8 15EEO8 1 15EEO8 15EEO8 1 15EEO8 15EEO8 1 15NOV08 15EEO8 1 15NOV08 15DEC08 2 20JUN08 04JUL08 2 20JUN08 05JUL08 2 20JUL08 03SEP08 1	<b>经验验</b>	Original Early Cal Total Distriction of the Research Call Call Call Call Call Call Call Cal
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Design (AIP) certification by the Design Checker         15         21MAY08         04JUN08         2         804           Design (AIP) submission for the SO's approval         1         05JUN08         05JUN08         1         653           Obtain design (AIP) review by the SO         0         0         04AUG08         2         804           AIP submission for ret. authorities a paproval from the SO         0         0         05AUG08         1         652           Design (AIP) review by the ret. authorities a paproval from the SO         0         0         2AUG08         2         804           Design (AIP) review by the ret. authorities a paproval from the SO         0         1         21AUG08         2.2AUG08         2         804           Obtain SO's consent for design (AIP)         0         21AUG08         2.8AUG08         2         804           Design (DDA) certification by the Design Checker         1         1.6SEP08         1.5SEP08         1.652           Design (DDA) serview by the sol         0         1.7TNOV08         1.7NOV08         1.7NOV08         2.803           Dbsign (DDA) review by the ret. authorities approval         1         1.6DEC08         2         803           Dbsign (DDA) review by the ret. authorities approval         1         1.7NOV08 <th>02L1BB0602 Design preparation for the AIP submission</th> <th>21APR08 20MAY08 2</th>	02L1BB0602 Design preparation for the AIP submission	21APR08 20MAY08 2
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Design (AIP) review by the SO   60 GBJUN0B   04AUG0B   2 804     AIP submission for ref. authorities' approval from the SO   0 GAUG0B   2 804     AIP submission for ref. authorities' approval from the SO   1 GAUG0B   2 804     AIP submission for ref. authorities' approval from the SO   1 CAUG0B   2 AUG0B   1 GE2     Design (AIP) review by the ref. authorities   1 21AUG0B   21AUG0B   2 804     Design (AIP) review by the SO   3 1JUL0B   22AUG0B   2 804     Design (DDA) certification by the Design Checker   15 30AUG0B   2 803     Design (DDA) certification by the Design Checker   15 30AUG0B   2 803     Design (DDA) submission for the SO's approval   1 16SEP0B   15NOV0B   2 803     Design (DDA) review by the SO   0   17NOV0B   1 GE1     Design (DDA) review by the SO   0   17NOV0B   1 GE1     Design (DDA) review by the ref. authorities   2 800     DDA submission for ref. authorities   3 PUROV0B   1 TOROV0B   2 803     DDA submission for ref. authorities   3 PUROV0B   1 TOROV0B   2 803     Design (DDA) review by the SO   0   1 TOROV0B   2 803     Design (DDA) review by the Design Checker   15 20JIN0B   2 730     Design for MAAMAS/NDS/DC/AVS   2 803     Design (AIP) review by the SO   0   0 80JIL0B   2 730     Design (AIP) review by the SO   0   0 80JIL0B   2 730     Design (AIP) review by the SO   0   0 80JIL0B   2 730     Design (AIP) review by the SO   0 80JIL0B   2 802     Design (AIP) review by the SO   0 80JIL0B   2 802     Design (AIP) review by the SO   0 80JIL0B   2 802     Design (AIP) review by the SO   0 80JIL0B   2 802     Design (AIP) review by the SO   0 80JIL0B   2 802     Design (AIP) review by the SO   0 80JIL0B   2 802     Design (AIP) review by the Rosi of AIP   1 80JIP0B   1 892     Design (AIP) review by the Rosi of AIP   1 80JIP0B   1 892     Design (AIP) review by the Rosi of AIP   1 80JIP0B   1 892     Design (AIP) review by the Rosi of AIP   1 80JIP0B   1 892     Design (AIP) review by the Rosi of AIP   1 80JIP0B   1 892     Design (AIP) review by the Rosi of AIP   1 80JIP0B   1 892     Des		05JUN08 05JUN08 1 653
Obtain design (AIP) approval from the SO   0   04AUG08   2   804     AIP submission for ret. authorities' approval   1   05AUG08   05AUG08   1   652     Design (AIP) review by the rel. authorities approval for AIP   1   21AUG08   1   652     Obtain SO's consent for design (AIP)   0   22AUG08   2   804     Design (DDA) review by the DDA submission   1   16SEP08   15SEP08   1   652     Design (DDA) certification by the Design Checker   15   30AUG08   1   652     Design (DDA) review by the SO   0   17SEP08   15NOV08   1   651     Design (DDA) review by the SO   0   17SEP08   1   651     Design (DDA) review by the CL authorities approval   1   16DEC08   1   651     Design (DDA) review by the CL authorities approval   1   16DEC08   1   648     Obtain GO's consent for design (DDA)   0   17DEC08   2   803     Design (DDA) review by the CL authorities approval   1   16DEC08   1   648     Obtain GO's consent for design (DDA)   0   17DEC08   2   803     Design for MAA/MAS/VDS/CC/AVS   0   17DEC08   2   803     Design for MAA/MAS/VDS/CC/AVS   0   0   17DEC08   2   803     Design (AIP) review by the SO   0   0   0   0   0   0     Design (AIP) review by the SO   0   0   0   0   0   0     Design (AIP) review by the SO   0   0   0   0   0   0     Design (AIP) review by the CO   0   0   0   0   0   0     Design (AIP) review by the CO   0   0   0   0   0   0   0     Design (AIP) review by the CO   0   0   0   0   0   0   0     Design (AIP) review by the rel. authorities approval from the SO   0   0   0   0   0   0   0   0   0     Design (AIP) review by the rel. authorities approval from the SO   0   0   0   0   0   0   0   0   0	j	06JUN08 04AUG08 2 804
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Design (DDA) certification by the Design Checker         15         30AUG08         13SEP08         2         804           Design (DDA) submission for the SO's approval         1         16SEP08         1         652         803           Obtain design (DDA) review by the SO         0         0         15NOV08         2         803           Obtain design (DDA) review by the rel. authorities' approval from the SO         1         17NOV08         1         661           Design (DDA) review by the rel. authorities' approval for DDA         1         17NOV08         1         661           Obtain rel. authorities' approval for DDA         1         16DEC08         1         648           Obtain SOs consent for design (DDA)         0         1         17DEC08         2         803           Design for MAAMAS/VDS/DC/AVS         1         1         16DEC08         1         643         1         17DEC08         2         2         803           Design for MAAMAS/VDS/DC/AVS         1         1         1         17DEC08         2         2         2         2         2         2         2         2         2         2         1         1         1         1         1         1         1         1         1		31JUL08 29AUG08 2 804
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DDA submission for rel. authorities' approval         1         17NOV08         1         651           Design (DDA) review by the rel. authorities         28         18NOV08         15DEC08         2         802           Obtain rel. authorities's approval for DDA)         0         17DEC08         2         803           Design (DDA) review by the rel. authorities' approval         30         21MAY08         17DEC08         2         803           Design for MAA/MAS/VDS/DC/AVS         30         21MAY08         19JUN08         2         527           Design for MAA/MAS/VDS/DC/AVS         30         21MAY08         19JUN08         2         730           Design for MAA/MAS/VDS/DC/AVS         15         20JUN08         04JUL08         2         730           Design (AIP) review by the SO         60         06JUL08         03SEP08         2         730           AIP submission for rel. authorities' approval from the SO         0         0         03SEP08         2         730           AIP submission for rel. authorities' approval for AIP         1         04SEP08         2         730           Design (AIP) review by the rel. authorities         1         05SEP08         2         730           Design (AIP) review by the rel. authorities' approval for AIP <th></th> <th>15NOV08 2</th>		15NOV08 2
Design (DDA) review by the rel. authorities         28         18NOV08         15DEC08         2         802           Obtain rel. authorities's approval for DDA         1         16DEC08         1         648           Obtain SO's consent for design (DDA)         0         17DEC08         2         803           Design for MAA/MAS/VDS/DC/AVS         30         21MAY08         19JUN08         2         527           Design for MAA/MAS/VDS/DC/AVS         30         21MAY08         19JUN08         2         730           Design for MAA/MAS/VDS/DC/AVS         15         20JUN08         2         730           Design for MAA/MAS/VDS/DC/AVS         1         05JUL08         2         730           Design (AIP) review by the SO         60         05JUL08         2         730           AIP submission for rel. authorities' approval from the SO         0         0         03SEP08         2         730           AIP submission for rel. authorities' approval         1         04SEP08         2         730           Design (AIP) review by the rel. authorities' approval for AIP         1         05SEP08         2         730           Design (AIP) review by the rel. authorities' approval for AIP         1         20SEP08         1         592 <th>- 1</th> <th>17NOV08 17NOV08 1</th>	- 1	17NOV08 17NOV08 1
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02L1BB0820 Design preparation for the DDA submission	30 29SEP08	-	531		
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02L1BB0828 Obtain design (DDA) approval from the SO	0	12JAN09 2	531	•	
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02L1CC0334 Obtain rel. authorities's approval for DDA	1 310CT08 310CT08 1 211	
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After submission for rel. authorities approval         1         23JULOB         23JULOB         1         229           Design (Alf) review by the rel. authorities         15         24JULOB         07AUGOB         2         285           Obtain rel. authorities a paroval for Alborities         1         08AUGOB         2         285           Obtain SO's consent for design (AlP)         1         08AUGOB         2         285           Design (DbA) certification by the Design Checker         15         17AUGOB         31AUGOB         2         285           Design (DbA) certification by the Design Checker         15         17AUGOB         31AUGOB         2         285           Design (DbA) review by the SO         0         0         22SEPOB         31ACTOB         2         286           Design (DDA) review by the SO         0         0         22SEPOB         11DCTOB         2         286           Obtain design (DDA) review by the SO         0         0         0         22SEPOB         1         231           Design (DDA) review by the So         0         0         0         0         2         241           Design (DDA) review by the So         0         0         0         0         2         241 <th>T i</th> <th>22JUL08 2</th>	T i	22JUL08 2
Design (AIP) review by the rel. authorities   15   24JUL08   07AUG60   2   285		23JUL08 23JUL08 1
Obtain rel. author/ties's approval for AIP         1         08AUG08         08AUG08         1         228           Obtain SO's consent for design (AIP)         0         0         0AAUG08         2         285           Design preparation for the DDA submission changed by the Design Checker         15         17AUG08         1         229           Design (DDA) submission for the SO's approval         6         0.2SEP08         31OCT08         2         286           Design (DDA) review by the SO         0         31OCT08         2         286           Obtain design (DDA) review by the rest, authorities         28         02NOV08         2         286           Obtain design (DDA) review by the ret, authorities         28         02NOV08         2         286           Obtain and SO's consent for design (DDA)         0         30NU08         2         286           Obtain and SO's consent for the AIP submission for the SO's approval         1         07UN08         2         414           Design (AIP) review by the rel. SO's approval         1         22JUL08         2         414           Design (AIP) review by the SO         6         23JUL08         2         414           Design (AIP) review by the SO         6         23JUL08         2         414<	i	24JUL08 07AUG08 2 285
Obtain SO's consent for design (AIP)         0         09AUG08         2         285           Design preparation for the DDA submission         30         18.UL08         1         285           Design (DDA) certification by the Design Checker         15         17AUG08         1         229           Design (DDA) submission for the SO's approval         1         01SEP08         11229         286           Design (DDA) submission for the SO's approval from the SO         0         02SEP08         31OCT08         2         286           DDA submission for rel. authorities         approval from the SO         0         02DC08         2         286           DDA submission for rel. authorities         approval from Ed. authorities         approval from Ed. authorities         2         286           Obtain rel. authorities's approval from Ed. authorities         approval from Ed. authorities         2         414         8           Design (DDA) review by the SO         approval from Ed. authorities         approval from the SO's approval         1         22JUL08         2         414         8           Design (AIP) review by the rel. authorities         approval from the SO's approval         1         22JUL08         2         414         8           AIP submission for rel. authorities's approval from the SO's appr		08AUG08 08AUG08 1
Design (DDA) certification by the DDA submission         30         18JUL08         16AUG08         2         285           Design (DDA) certification by the Design Checker         15         17AUG08         1         228           Design (DDA) submission for the SO's approval         1         01SEP08         01SEP08         1         228           Design (DDA) submission for the SO's approval         0         02SEP08         31OCT08         2         286           Obania Mesign (DDA) approval from the SO         0         0         01NOV08         1         231           DDA submission for rel. authorities' approval from the SO         0         0         0         22NOV08         2         286           Obtain RO's consent for design (DDA)         0		09AUG08 2
Design (DDA) certification by the Design Checker         15         17AUG08         31AUG08         2         285           Design (DDA) submission for the SO's approval         1         01SEP08         01SEP08         1         229           Design (DDA) review by the SO         0         31OCT08         2         286           Obtain design (DDA) approval from the SO         0         31OCT08         2         286           DDA submission for rel. authorities approval from the SO         1         01NOV08         29NOV08         2         286           Obtain rel. authorities approval from the SO         1         01DEC08         1         221         231           Obtain SO's consent for design (DDA)         0         30         07JINNB         2         414         83           Design preparation for the AIP submission of the SO's approval         1         22JIL08         21JIL08         2         414           Design (AIP) review by the SO         0         23JIL08         2/3SEP08         2         414           Design (AIP) review by the SO         0         23SEP08         2         414           AIP submission for rel authorities         0         2/3SEP08         2         413           Obtain et authorities's approval for AIP	" i	18JUL08 16AUG08 2 285
Design (DDA) submission for the SO's approval         1         01SEP08         1         229           Design (DDA) review by the SO         60         02SEP08         31OCT08         2         286           Obtain design (DDA) approval from the SO         0         31OCT08         2         286           DDA submission for rel. authorities' approval for DDA         1         01NOV08         07NOV08         2         286           Obtain rel. authorities's approval for DDA         1         01DEC08         1         231           Obtain SO's consent for design (DDA)         0         0         0         2         286           Design for MA and MAIMT Connection         0 <th></th> <th>17AUG08 31AUG08 2 285</th>		17AUG08 31AUG08 2 285
Design (DDA) review by the SO         60         Q2SEP08         31OCT08         2         286           Obtain design (DDA) approval from the SO         0         31OCT08         2         286           DDA submission for rel. authorities' approval         1         01NOV08         1         231           Design (DDA) review by the rel. authorities' approval for DDA         1         01DEC08         1         231           Obtain SO's consent for design (DDA)         0         02DEC08         2         286           Obtain SO's consent for design (DDA)         0         0         02DEC08         2         286           Design preparation for the AIP submission         30         07JUN08         2         414         8           Design (AIP) certification by the Design Checker         1         22JUL08         22JUL08         2         414           Design (AIP) review by the SO         60         23JUL08         20SEP08         2         414           AIP submission for rel. authorities         30         72SEP08         2         414           AIP submission for rel. authorities         4         1         22SEP08         2         414           AIP submission for rel. authorities' approval for AIP         1         22SEP08         2		01SEP08 01SEP08 1
Obtain design (DDA) approval from the SO         0         31OCT08         2         286           DDA submission for rel. authorities' approval         1         01NOV08         01NOV08         1         231           Design (DDA) review by the rel. authorities         28         02NOV08         29NOV08         2         286           Obtain rel. authorities's approval for DDA         1         01DEC08         1         231           Obtain SO's consent for design (DDA)         0         0         2DEC08         2         286           Obtain SO's consent for design (DDA)         0         0         0         20EC08         2         286           Design for MA and MAINT Connection         30         07JUL08         2         414         8           Design for MA and MAINT Connection         30         07JUL08         2         414         8           Design for MA and MAINT Connection         1         22JUL08         2         414         8           Design (AIP) certification by the Design Checker         1         22JUL08         2         414           AIP submission for rel. authorities' approval for AIP         1         22JUL08         2         414           AIP submission for rel. authorities' approval for AIP         0		02SEP08 31OCT08 2
DDA submission for rel. authorities' approval         1         01NOV08         01NOV08         1         231           Design (DDA) review by the rel. authorities         28         02NOV08         29NOV08         2         286           Obtain rel. authorities's approval for DDA         1         01DEC08         01DEC08         1         234           Design for MA and MA/MT Connection         30         07JUN08         06JUL08         2         414           Design preparation for the AIP submission         15         07JUL08         21JUL08         2         414           Design (AIP) certification by the Design Checker         15         07JUL08         21JUL08         2         414           Design (AIP) submission for the SO's approval         1         22JUL08         2414         444           Design (AIP) review by the SO         60         23JUL08         2414         444           AIP submission for rel. authorities' approval for AIP         1         22SEP08         23SEP08         1           AIP submission for the DDA submission         0         23JUL08         2         413           Design preparation for the DDA submission for the SO's approval         1         03DOV08         1         413           Design (DDA) submission for the SO's approval </th <th> </th> <th>31OCT08 2</th>		31OCT08 2
Design (DDA) review by the rel. authorities         28         02NOV08         29NOV06         2 286           Obtain rel. authorities's approval for DDA         1         01DEC08         01DEC08         1         231           Design for MA and MAIMT Connection         30         07JUN08         05JUL08         2         414           Design for MA and MAIMT Connection         30         07JUL08         2 1JUL08         2         414           Design for MA and MIAMT Connection         15         07JUL08         21JUL08         2         414           Design (AIP) certification by the Design Checker         15         07JUL08         2JJUL08         2         414           Design (AIP) submission for the SO's approval         1         2ZJUL08         2SJUL08         2         414           Obtain design (AIP) approval from the SO         0         2SJUL08         2SJEP08         1         414           AIP submission for rel. authorities's approval for AIP         1         2SSEP08         2         414           Design (AIP) review by the rel. authorities's approval for AIP         1         2SSEP08         2         413           Design (AIP) review by the DDA submission for the DDA submission for the DDA submission for the SO's approval         1         1         2SSEP08 <t< th=""><th>1</th><th>01NOV08 01NOV08 1</th></t<>	1	01NOV08 01NOV08 1
Obtain rel. authorities's approval for DDA         1         01DECO8         1         231           Design (AIP) review by the Design (AIP) review by the Design (AIP) consent for design (AIP) continuities's approval for the SO's approval         1         22.JUL08         2.2 JUL08         2. 414         Image: Consent for the AIP submission for the SO's approval         1         22.JUL08         2. 2 JUL08         2. 414         Image: Consent for the SO's approval         1         2. 2 JUL08         2. 2 JUL08         2. 414         Image: Consent for the SO's approval for the SO's approval         1         2. 2 JUL08         2. 2 JUL08         2. 414         Image: Consent for the SO's approval for the SO's approval for the SO's approval         1         2. 2 JUL08         2. 2 SEPOB         2         414         Image: Consent for design (AIP)         413         Image: Consent for design (AIP)         414 </th <th></th> <th>02NOV08 29NOV08 2</th>		02NOV08 29NOV08 2
Design for MA and MA/MT Connection         30         07JUN0B         02DEC08         2         286           Design for MA and MA/MT Connection         30         07JUN0B         06JUL0B         2         414           Design preparation for the AIP submission         15         07JUL0B         2JUL0B         2         414           Design (AIP) certification by the Design Checker         15         07JUL0B         2JUL0B         2         414           Design (AIP) review by the SO         0         23JUL0B         2OSEP0B         2         414           AIP submission for rel. authorities         0         23JUL0B         2SSEP0B         1         335           Obtain design (AIP) review by the rel. authorities         1         2ZSEP0B         22SEP0B         1         337           Obtain rel. authorities's approval for AIP         1         08OCT0B         0POCT0B         2         413           Obtain rel. authorities's approval for AIP         1         0BOCT0B         0POCT0B         2         413           Obtain rel. authorities's approval for AIP         1         0BOCT0B         0POCT0B         2         413           Design (DDA) consent for design (AIP)         0         0         0         0         0		01DEC08 01DEC08 1
Design for MA and MAMT Connection         30         07JUN08         65JUL08         2         414         ESS           Design preparation for the AIP submission or the SO's approval         15         07JUL08         21JUL08         2         414         B           Design (AIP) submission for the SO's approval         1         22JUL08         22JUL08         2         414           Design (AIP) review by the SO         0         23JUL08         2         414           AIP submission for rel. authorities         1         22SEP08         2         414           AIP submission for rel. authorities         15         23SEP08         22SEP08         1         335           Obtain rel. authorities's approval for AIP         1         08OCT08         2         413           Obtain rel. authorities's approval for AIP         0         0         20SEP08         1         337           Obtain rel. authorities's approval for AIP         1         08OCT08         2         413           Obtain rel. authorities's approval for AIP         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <th></th> <th>02DEC08 2</th>		02DEC08 2
Design preparation for the AIP submission         30         07JUN08         66JUL08         2         414           Design (AIP) certification by the Design Checker         15         07JUL08         21JUL08         2         414           Design (AIP) submission for the SO's approval         1         22JUL08         22JUL08         2         414           Design (AIP) review by the SO         0         20SEP08         2         414           AIP submission for rel. authorities' approval from the SO         0         20SEP08         2         413           AIP submission for rel. authorities' approval for AIP         1         22SEP08         2         413           Obtain SO's consent for design (AIP)         0         0         09OCT08         2         413           Obtain SO's consent for design (AIP)         0         1         08OCT08         2         413           Design (DDA) certification by the Design Checker         15         17OCT08         2         413           Design (DDA) review by the SO         0         0         0         09OCT08         2         413           Design (DDA) review by the SO         0         0         0         0         413         413	Permanent Design for MA and MA/MT Connection	
Design (AIP) certification by the Design Checker         15         07JUL08         21JUL08         2 414           Design (AIP) submission for the SOs approval         1         22JUL08         22JUL08         2 414           Design (AIP) review by the SO         0         23JUL08         2 414           Obtain design (AIP) approval from the SO         0         20SEP08         2 414           AIP submission for rel. authorities' approval         1         22SEP08         2 413           Design (AIP) review by the rel. authorities         15         23SEP08         2 413           Obtain rel. authorities's approval for AIP         1         08OCT08         2 413           Obtain SO's consent for design (AIP)         0         0         09OCT08         2 413           Design preparation for the DDA submission         30         17SEP08         16OCT08         2 413           Design (DDA) certification by the Design Checker         15         17OCT08         2 413           Design (DDA) review by the SO         60         0 2NOV08         2 141	- 1	07JUN08 06JUL08 2 414
Design (AIP) submission for the SO's approval         1         22JUL08         22JUL08         1         338           Design (AIP) review by the SO         60         23JUL08         20SEP08         2         414           Obtain design (AIP) approval from the SO         0         22SEP08         2         414           AIP submission for rel. authorities' approval from the SO         1         22SEP08         1         335           Design (AIP) review by the rel. authorities         15         23SEP08         07OCT08         413           Obtain rel. authorities's approval for AIP         1         08OCT08         07OCT08         413           Obtain rel. authorities's approval for AIP         0         09OCT08         413           Obtain CO's consent for design (AIP)         0         413           Design (DDA) certification by the Design Checker         15         17OCT08         2         413           Design (DDA) review by the SO         60         02NOV08         01NOV08         1         414	- 1	07JUL08 21JUL08 2 : 414
Design (AIP) review by the SO         60         23JUL08         20SEP08         2414           Obtain design (AIP) approval from the SO         0         20SEP08         2414           AIP submission for rel. authorities' approval         1         22SEP08         1         335           Design (AIP) review by the rel. authorities         15         23SEP08         07OCT08         2         413           Obtain rel. authorities's approval for AIP         1         08OCT08         07OCT08         2         413           Obtain SO's consent for design (AIP)         0         0         09OCT08         2         413           Design (DDA) certification by the Design Checker         15         17OCT08         31OCT08         2         413           Design (DDA) submission for the SO's approval         1         01NOV08         01NOV08         1         337           Design (DDA) review by the SO         60         02NOV08         31DEC08         2         414	1	22JUL08 22JUL08 1
Obtain design (AIP) approval from the SO         0         20SEP08         2         414           AIP submission for rel. authorities         1         22SEP08         1         335           Design (AIP) review by the rel. authorities's approval for AIP         1         08OCT08         2         413           Obtain rel. authorities's approval for AIP         0         0         00CT08         2         413           Obtain rel. authorities's approval for AIP         0         0         0         413           Design CAIP submission for the DAS submission for the Bosign Checker         15         17OCT08         31OCT08         2         413           Design (DDA) review by the SO         410         0         0         0         0         0         413		23JUL08 20SEP08 2 414
AIP submission for rel. authorities' approval         1         22SEP08         22SEP08         1         335           Design (AIP) review by the rel. authorities         15         23SEP08         07OCT08         2         413           Obtain rel. authorities's approval for AIP         1         08OCT08         1         337           Obtain SO's consent for design (AIP)         0         17SEP08         16         413           Design (DDA) certification for the DDA submission for the SO's approval         15         17OCT08         31OCT08         2         413           Design (DDA) submission for the SO's approval         1         01NOV08         01NOV08         1         337           Design (DDA) review by the SO         60         02NOV08         31DEC08         2         414		20SEP08 2
Design (AIP) review by the rel. authorities         15         23SEP08         07OCT08         2         413           Obtain rel. authorities's approval for AIP         1         08OCT08         1         337           Obtain SO's consent for design (AIP)         0         0         09OCT08         2         413           Design preparation for the DDA submission         30         17SEP08         16OCT08         2         413           Design (DDA) certification by the Design Checker         15         17OCT08         31OCT08         2         413           Design (DDA) submission for the SO's approval         1         01NOV08         01NOV08         1         337           Design (DDA) review by the SO         60         02NOV08         31DEC08         2         414		22SEP08 22SEP08 1
Obtain rel. authorities's approval for AIP         1         08OCT08         1         337           Obtain SO's consent for design (AIP)         0         0         09OCT08         2         413           Design preparation for the DDA submission         30         17SEP08         16OCT08         2         413           Design (DDA) certification by the Design Checker         15         17OCT08         31OCT08         2         413           Design (DDA) submission for the SO's approval         1         01NOV08         01NOV08         1         337           Design (DDA) review by the SO         60         02NOV08         31DEC08         2         414		23SEP08 07OCT08 2
Obtain SO's consent for design (AIP)         0         09OCT08         2         413           Design preparation for the DDA submission         30         17SEP08         16OCT08         2         413           Design (DDA) certification by the Design Checker         15         17OCT08         31OCT08         2         413           Design (DDA) submission for the SO's approval         1         01NOV08         01NOV08         1         337           Design (DDA) review by the SO         60         02NOV08         31DEC08         2         414		08OCT08 08OCT08 1
Design preparation for the DDA submission         30         17SEP08         16OCT08         2         413           Design (DDA) certification by the Design Checker         15         17OCT08         31OCT08         2         413           Design (DDA) submission for the SO's approval         1         01NOV08         1         337           Design (DDA) review by the SO         60         02NOV08         2         414	- :	09OCT08 2
Design (DDA) certification by the Design Checker         15         17OCT08   31OCT08   2           Design (DDA) submission for the SO's approval         1         01NOV08   01NOV08   1           Design (DDA) raview by the SO         60         02NOV08   31DEC08   2		17SEP08 16OCT08 2 413
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	28 11MAR09 07APR09 2 323	02L1GG0132   Design (DDA) review by the rel. authorities
	10MAR09 10MA	
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	60 09JAN09 09MAR09 2 323	
	h	02L1GG0124 Design (DDA) submission for the SO's approval
413-	7	02L1GG0122 Design (DDA) certification by the Design Checker
	0	02L1GG0120   Design preparation for the DDA submission
	16DEC08 2	02L1GG0118 Obtain SO's consent for design (AIP)
	1 15DEC08 15DEC08 1 260	02L1GG0116 Obtain rel. authorities's approval for AIP
Fix	15 30NOV08 14DEC08 2 323	02L1GG0114 Design (AIP) review by the rel. authorities
	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
•	0 Z3MAY08 2 319	02L1CC0718 Obtain SO's consent for design (AIP)
	1 22MAY08 22MAY08 1 261	02L1CC0716 Obtain rel. authorities's approval for AIP
	28 24APR08 21MAY08 2 319	02L1CC0714   Design (AIP) review by the rel. authorities
	1 23APR08 23APR08 1 260	02L1CC0712 AIP submission for rel. authorities' approval
•	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)
	1 31JAN09 31JAN09 1 337	02L1CC0634 Obtain rel. authorities's approval for DDA
	28 03JAN09 30JAN09 2 413	02L1CC0632   Design (DDA) review by the rel. authorities
	1 02JAN09 02JAN09 1 334	02L1CC0630 DDA submission for rel. authoritles' approval
80.00 (2	208 2	02L1CC0628 Obtain design (DDA) approval from the SO
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	28 03DEC08 30DEC08 2 464	102L1FE0132   Design (DDA) review by the rel. authorities
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	30 02NOV08 01DEC08 2 464	02L1FE0126 Design (DDA) review by the SO
	-  -	02L1FE0124 Design (DDA) submission for the SO's approval
	170CT08 310CT08 2	1
	17SEP08 16OCT08 2	02L1FE0120 Design preparation for the DDA submission
•	708 2	02L1FE0118 Obtain SO's consent for design (AIP)
	30SFP08 30SFP08 1	
	OSSEDOR SOSSEDOR	02L1FE0114 Design (AIP) review by the rel authorities
	01SEP08   01SEP08   1	_
	     	02L1FE0110 Obtain design (AIP) approval from the SO
	30 01AUG08 30AUG08 2 466	02L1FE0108 Design (AIP) review by the SO
	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
2.5	15 01JUL08 15JUL08 2 466	02L1FE0102 Design preparation for the AIP submission
		Design for Communication System
		Design Replace for Extit Works
•	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
	1 13NOV08 13NOV08 1 509	02L1GG0306 Design (AIP) submission for the SO's approval
	2	02L1GG0304 Design (AIP) certification by the Design Checker
	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
	15 11DEC08 25DEC08 2 439	02L1GG0222 Design (DDA) certification by the Design Checker
	2	02L1GG0220   Design preparation for the DDA submission
	2	02L1GG0210 Obtain design (AIP) approval from the SO
	2	02L1GG0208 Design (AIP) review by the SO
	-	02L1GG0206 Design (AIP) submission for the SO's approval
		02L1GG0204   Design (AIP) certification by the Design Checker
	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)
250 100 100 100 100 100 100 100 100 100 1	08APH09 1	02L1GG0134 Obtain rel. authorities's approval for DDA
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		1,286	18MAR09 2		0	02L10D1046 2L 23; On completion of all works under this CC
		1,325	07FEB09 2		0	·
	•	1,383	11DEC08 2		0	
	•	1,469	16SEP08 2		0	
	•	1,529	18JUL08 2	ļ	0	- 1
	•	1,584			0	
	•	1,644	25MAR08 2		0	1
,		1,286	18MAR09 2		0	
	-	1,415	09NOV08 2		0	
		11,363	31DEC08 2		0	
	•	1,423	01NOV08 2		0	
	•	1,465	20SEP08 2		0	$\neg$
	•	1,525	22JUL08 2		0	- 1
		1,351	12JAN09 2		0	1
			13NOV08 2		0	
	•	:	03OCT08 2		0	02L10D1016 2L 8; On acceptance of AIP by the SO; Portion B
	•	į.	04AUG08 2		0	02L10D1014 2L 7; On submission of AIP to the SO; Portion B
	•	Ė	14OCT08 2		0	ĺ
	•	F			0	02L10D1010 2L 5; On subumission of DDA to the SO; Portion A
	•				0	02L10D1008   2L 4; On acceptance of AIP by the SO; Portion A
	•	1	808		0	02L10D1006 2L 3; On submission of AIP to the SO; Portion A
	•	1	H08		0	02L10D1004 2L 2; On acception of PDP by the SO
		1 719	10.JAN08 2		0	02L10D1002   2L 1; On submission of PDP to the SO
						Soredite o Milestotes Toricos): centra No. 21.
	•	818	29OCT08 2		0	102L1FE0228   Obtain design (DDA) approval from the SO
	區	818	29OCT08 2	30SEP08	8	
		664	29SEP08 1	29SEP08	-	02L1FE0224 Design (DDA) submission for the SO's approval
	NW.	ļ	80,	14SEP08	15	
			ļ	15AUG08	30	i
	•	-	30AUG08 2		0	02L1FE0210 Obtain design (AIP) approval from the SO
	Œ	+ -	308	01AUG08	90	
			80	317008	-	02L1FE0206 Design (AIP) submission for the SO's approval
	12%	1.	ļ.	16JUL08	15	
	EX	818	15JUL08 2	01JUL08	15	02L1FE0202   Design preparation for the AIP submission
						Design for Flow Measurement System
		2 464	601		0	02L1FE0136 Obtain SO's consent for design (DDA)
12KW KK KK KK KELINDI 12E181-1053061738-136-04-115-16-17-8-1500515053-15-15-16-16-16-16-16-16-16-16-16-16-16-16-16-	(0) CIL (0) FIN (0) EIO	Ē	C08	31DEC08	1	02L1FE0134 Obtain rel. authorities's approval for DDA
DIE MAMIETASIONIO DE MAJULIA SIONIO DIFIMAMUNTA SIONIO PERA	DISFMANUTUAISCIN		Early C	Early Sart	B.O	Activity Description
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45 ZAAPR09 (10,11/10) 2 0 0 CH4460-426/m=Corcurrent with TBM advances; V 2 ZAAPR09 (10,11/10) 2 0 0 133,11/100 (12,11/10) 2 0 0 CH4460-426/m=Corcurrent with TBM advances; V 2 131,11/100 (12,11/10) 2 0 0 CH500 (10,11/10) 1 1 1 1 20,11/100 (10,11/10) 1 1 1 1 1 20,11/100 (10,11/10) 1 1 1 1 1 20,11/100 (10,11/10) 1 1 1 1 20,11/100 (10,11/10) 1 1 1 1 20,11/100 (10,11/10) 1 1 1 1 20,11/100 (10,11/10) 1 1 1 20,11/100 (10,11/10) 1 1 1 20,11/100 (10,11/10) 1 1 1 20,11/100 (10,11/10) 1 1 1 20,11/100 (10,11/10) 1 20,11/100 (10,11/10) 1 1 20,11/100 (10,11/10) 1 1 20,11/100 (10,11/10) 1 20,11/100 (10,11/10) 1 20,11/100 (10,11/10) 1 20,11/100 (10,11/10) 1 20,11/100 (10,11/10) 1 20,11/100 (10,11/10) 1 20,11/100 (10,11/10) 1 20,11/100 (10,11/10) 1 20,11/100 (10,11/10) 1 20,11/100 (10,11/10) 1 20,11/100 (10,11/10) 1 20,11/100 (10,11/100) 1 20,11/100 (10,11/100) 1 20,11/100 (10,11/100) 1 20,11/100 (10,11/100) 1 20,11/100 (10,11/100) 1 20,11/100 (10,11/100) 1 20,11/100 (10,11/100) 1 20,11/100 (10,11/100) 1 20,11/100 (10,11/	アンドでは、他のでは、これには、これには、これには、これには、これには、これには、これには、これに			
Wide control of particular and the particular of the particular	Verify method stateme	굒	26APR09 2	0
Subsequent (Fight Control attain goals)   2   11,11/10/10   2,11/10/			10JUN09	
WED Trans states operation   0   32,01/200   20,000/2006   1000	- 1	} 	12JUN09	
Control growing between the strategy of predictions and the	3AL1FT0624 WSD Tunnel starts operation	<u> </u>	JN09 2	•
Carry out gouling trials from the surface at F   30   28AMYY06   30LUN08   1 100   100	MBN ASSERTION CATHURATION OF SERVING WORK			
Title Heider asseminy 3 servicy test   22 (10,0700)   10,050000   10,050000   10,050000   10,0500	3AL1FT0700 Carry out drouging from the surface at E1	-	4	170 COC CLIENT
TBM mobilisation to turned fixed CHRitish   TBM mobilisation to turned fixed CHRITISH   TBM advances: CHRISOS-5035   11 220EC08   10 CHRISOS   10	TBM initial assembly & start-up test	+	008	(countries of DOC) in the months of DOC the design of pre-excavation grouning at
This black-up space to Classification   Conveyed colors   Classification    Ţ~``;	-			
This advances (1960-54075   1960-10-10-10-10-10-10-10-10-10-10-10-10-10		†		
TRM advances; PT CREGOTS-GOOD   11 2000   17				
Halls buck-up system (6 decks)   10 GrANN9 17JAN9 14 CANN9 17JAN9 14 CANN9 14 CANN			·	
TRM advances; PC CHSD03-SOD5   TRM advances; CHSD04-SEG5    1				
Install black-up system; (1 decks)				#Fault P7; CH5033
TBM advances; CH 5005-5000		∤ 	┧	
Tibil advances; WSDYKVTW/Tibic CH5000-4655 9 0 07FEBG9 1 0 0 0 CH500004953WSD Yau Kom Waler Trealment Works & Pault Féc COrrespondences; WSD VKVTW/TW/Fib C CH4664-4550 1 17FEBG9 2 17FEBG9 2 17FEBG9 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7		ļ	
Conneyor bell sys	Ť		<del> </del>	
Pack   Deceased paper vision   Pack   Deceased   Pack   Deceased    - 1		<del> </del>		
Page   Deceases   Page   Pag	3AL1FT0722 Install noise enclosure	i	<del>ļ</del> -	
Papply to EPD for CNP for 24 hrs. turnel work	Walk Hurnel Works   Day, Calign Wolf			
FPD process/approve CNP application   45   06NOV08   20DECOR   2   77     TBM advances; CH4530-4350   3   24AFR09   10   10   10   10   10   10   10     TBM advances; CH4530-4320   3   24AFR09   10   10   10   10   10   10     TBM advances; CH4530-4320   3   24AFR09   10   10   10   10   10   10     TBM advances; CH4530-4320   3   24AFR09   10   10   10   10   10   10     TBM advances; CH4530-4320   3   24AFR09   10   10   10   10   10   10     TBM advances; CH4530-4320   3   24AFR09   10   10   10   10   10     TBM advances; CH4530-4320   3   24AFR09   10   10   10   10   10     TBM advances; CH4530-4320   3   24AFR09   10   10   10   10   10     TBM advances; CH4530-4320   4   11   11   10   10   10   10     TBM advances; CH4530-4320   4   11   11   10   10   10   10     TBM advances; CH4530-4320   4   11   11   10   10   10   10     TBM advances; CH4530-4320   4   11   11   10   10   10   10     TBM advances; CH4530-4320   4   11   11   10   10   10   10     TBM advances; CH4530-4320   5   24   10   10   10   10     TBM advances; CH4530-4320   5   24   10   10   10   10   10     TBM advances; CH4530-4320   6   24   10   10   10   10   10     TBM advances; CH4530-4320   7   10   10   10   10   10     TBM advances; CH4530-4320   10   10   10   10   10   10     TBM advances; CH4530-4320   10   10   10   10   10   10     TBM advances; CH4530-4320   10   10   10   10   10   10   10     TBM advances; CH4530-4320   10   10   10   10   10   10   10		}-	2	[Q0
TBM advances: WSD YKTVITW/F8c CH4963-4830   16 o7MAR09   28MAR09   1 o o o o o o o o o o o o o o o o o o	1 "	Ť	5	
TBM advances; CH4830-4760         3         26NAR09         28NAR09         1         0         24NAR09         1         0         1         1         1         1         2 </td <td>1</td> <td>ţ</td> <td>- - -</td> <td>More-excavation orduting (@20m/1.5dayexdavation/pea-gravel/Inion @2</td>	1	ţ	- - -	More-excavation orduting (@20m/1.5dayexdavation/pea-gravel/Inion @2
TBM advances; FBb CH4760-4740   3 30MARR99   16APR99   1 0 0   1	ļ .	† ·		(@ 21m/day
TBM advances; CH4740-4555   9 02APR09   16APR09   1 0   17APR09   1 0   17AP	;	1	NR09 01APR09 1	tion grouting @ 20m/1
TBM advances; P6a CH4555-4510   6   17APR09   23APR09   1   0   0   0     TBM advances; CH4510-4460   36   27APR09   10JUN09   1   0   0     TBM advances; P6 CH4260-4250   4   11JUN09   15JUN09   1   0   0     TBM advances; P6 CH4260-4220   4   11JUN09   15JUN09   1   0   0     TBM advances; P6 CH4260-4220   3   08JUL09   1   0   0     TBM advances; P6 CH4260-4220   3   08JUL09   1   0   0     TBM advances; P6 CH320-3840   3   08JUL09   1   0   0     TBM advances; P6 CH320-3575   12   11JUL09   1   0   0     TBM advances; P6 CH320-3575   13   13AUG09   1   0   0     TBM advances; P3 CH3143-3125   2   04SEP09   1   0     TBM advances; P3 CH3143-3125   2   04SEP09   1   0     TBM advances; CH3125-2970   7   07SEP09   1   8   0     TBM advances; CH3125-42420   7   0     TBM advances; CH3125-42420   7   0	1	· · · · ·	'R09 16APR09 1	₩@ 21m/day
TBM advances; CH4510-4460   36 27APR09   10,UUN09   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 CH3575-3308         10         13AUG09         27AUG09         1         8           TBM advances; P3 Noise sestitive area CH3308-3175         13         13AUG09         27AUG09         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         15SEP0				
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         18         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         1         2         1         2         1         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         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	j	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 Tsugn Wan 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
		<del>i</del> -	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 2		- <del>†</del>	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
Extract of the Court of the Cou	-		50*	Desembly & demobilization of TBM	3AL1FT0873
Dre-excavation arounds to the provider	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	. <del>.</del>	11	TBM advances; CH770-540	3AL1FT0866
nre-excevation mainting @ 20m/1 EHm.4		+		TBM advances; P2 CH795-770	3AL1FT0864
Manager Anna Burno	810 1	·	2	7	3AL1FT0862
pre-exception arouting a 20m / 15 1 m/day	N10 - 1	<b>-</b>	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/4		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	atly cal Total		δē		
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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	
न्यकाष्ट्रीया स्टाला Wilestrones to vegosts oenritestos saut					
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	•	<b>**</b>
	0.	07APR10 2	901	•	
3AL1FT1048   3aL 24; On completion of perm. tunnel lining	4	14MAY10 2	864	•	
		ō			

	2 FO 1 - 4 G		
	03MAY08 27JUN12 1 24	1,230 03	3UL I ATT 108 Monitor/report Geotechnical Instrumentation
C/S	i	30 27	
	26MAR08 2 29	0	7
	27MAR08 23JUN08 1 73	72 27	16R7Al1102 Tree transplanting; 4 nos.
	03MAY08 11JUL11 2 16	1,165 03	1
	27MAR08 02MAY08 1 12	30 27	
	03MAY08 31MAY08 1 31	24	
	27MAR08 02MAY08 1 31	30 27	01R1Al1116   Site clearance
	27MAR08 02MAY08 1 31	30 27	-
◆90d after DOC	26MAR08 1 12	0 28	01R1A1112 Possession of site
	07MAR08 2 59	0 07	
	26MAR08 2 90	0	01R1Al1108 Obtain tree felling permit
			Helininany Vyorks
		A TOTAL STATE OF THE PROPERTY OF THE PARTY O	Construction of Intake I-1
<ul> <li>tunnel after completion of strengtheing works</li> </ul>	18FEB09 2 1,314	0 du	10AR1JT137 10aR 7; On recharge of the water after wrk comp
•	•	0	
	31JAN09 2 1,332	wks 0	
	1	wks 0	10AR1JT134 10aR 4; On completion of 50% strengthening wks
	20DEC08 2 1,374	wks 0	- 1
	03DEC08 2 1,391	0	
•	03DEC08 2 17,391	0	7
		Gar F	Schealle of Miles (ones, Idir sos) gent a Maria
under this Cost Centre ◆	26JUL12 2 60	0 0	3DL10T1224 3dL 12; On completion of all works under this CC
flow mohitoring to issue of Main. Certificate.	26JUL12 2 60	0 QV	- 1
flow measurement devices for Portion D.	19MAY11 2 . 494	0	- 1
flow measurement devices for Portion C.	05MAR11 2 569	0	
flow measurement devices for Portion B.	10JUN11 2 472	0	
flow measurement devices at Portion A.	12MAR11 2 562	0	
monitoring for installed instruments	26JUL12 2 60	0	
installed instruments for 48 months from DOC.	26DEC11 2 273	0	
Installed instruments for 36 months from DOC.	26DEC10 2 638	0	Ť
Installed Instruments for 24 months from DOC	1	0	
Installed instruments for 12 months from DOC	26DEC08 2 1,368	0	$\neg$
◆ gebtechnical instruments	02SEP09 2 1,118	0	
		9.81	
◆within this cost centre	28JAN11 2 605		SALIT 1 1054   SaL Z / ; On completion of all works under this CC
	01NOV10 2 693	ic.	7
The state of Anna Channel Control of the Control of	24SEP10 2 731	han 0	-
1 FM AMILE SEISOND TERMAMULTAS ON BEIERWAMITTES	Finish 10	Dar	200
	Teld Total	BIO	To Acident

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Excavation from +88.5mPD to +72.5mPD; North 04L1A11442 Bulk excavation; rock (6300m3)	25APR09 04SEP09 1 17	10.1 m
	25APR09 04SEP09 1	
1 01 1711 444 Duik excavation for venicular access; 1400m3	30 01AUG09 04SEP09 1 17	Salduna Astonia (upeli excavation)
07R1Al1446 Construct vehicular access	05SEP09 19OCT09 1	Filtranson (turnelling)
Excavation to Bottom Level to south west of SR		when the second is a second se
04L1Al1448 Bulk excavation; rock (5300m3)	88 20OCT09 03FEB10 1 71	100 mg 20 mg 100 mg
Construction of Spiral Ramp Structure		The second of th
	12 20OCT09 03NOV09 1 17	Englishmental 959 mg 4 mls. 100.
07R1Al1404   Construct RC spiral ramp	04NOV09 30JUN10 1 17MK	=10272m2, re-bar=755f, condrete=2788m38m38m38m38m38m38m38m38m38m38m38m38m3
07R1A11406 Construct RC spiral ramp top	12 02JUL10 15JUL10 1 17	Early pour line and l
Dismantle & removal of TBM		
04L1Al1450 Install temporary steel works for removal of TBM	24 16APR10 14MAY10 1	
04L1Al1452 Dissembly & demobilization of TBM	15MAY10 15JUL10 1	
Construction of Cascade Structure		DESCRIPTION OF THE PROPERTY OF
04L1Al1454 Construct box culvert & cascade	72 16JUL10 09OCT10 1 17	(
Modification of the city of the manual manual season.		
SANTATION OF THE PROPERTY OF T		
	36 :01NOV10* 11DEC10 1 0	
07R1AI1504   Modify channel bed and orfice; Phase 2	36 13DEC10 26JAN11 1 61	Trans
07R1Al1506 Modify channel bed and orfice; Phase 3	12MAR11 1	DLC ST
ABURTHURS Webschild in the property of the pro		
07R1Al1602   Backfill & compaction above box culvert: Port. A	72 11OCT10 06.14N11 1 90	
07R1Al1606 Finishing & reinstatement works; Portion A	14FB11 11APB11 1	Production of the Control of the Con
07R1Al1608 Pre-handover inspections and remedial works	14MAB11 13MAY11 1	THAT COLOR
07R1Al1610 Contractor serve notice for Works completion	14MAY11 20MAY11 2	
07R1AI1612 SO issues completion certificate	21MAY11 10JUN11 2	
16R7Al1602 Landscaping works at Portion A	14FEB11 13MAY11 1	15/100c Allmhor 2000cc unchalled and an annual an annual and an annual an annual and an annual an an
	14MAY11 12MAY12 2	Control Strained, 200105. Wolding Infrastration (1927) And Strained Strained (1927) And Strained (1927) An
3DL1Al1602 Install flow measurement devices at Intake I-1	12MAR11 1	
3DL1Al1604 Maintain & monitor flow monitoring	365 13MAR11 11MAR12 2 137	
Softed the control of some sentence of the softes.		
04L1Al1802 4L 1; On completion of 50% excavation	0 24APR09 2 1.249	Frieds Stranger
04L1Al1804   4L 2; On completion of excavation	03FEB10 2	L CALCACTOR DE LA CALCACTOR DE
04L1Al1806 4L 3; On completion of 25% concreting	2	Atomic accorded at make 1.1
04L1Al1808 4L 4; On completion of 50% concreting	0 26AUG10 2 760	Proceedings 1.1
	0 16SEP10 2 739	◆for Casoade at Intake I-1
[	Ì	◆ At Intake I.1
i	0 190CT09 2 (1,071	Spox culvert at Intake I-1
04L1Al1816 4L 8; On completion of all works under this CC	0 13MAY11 2 500	• within this Cost Contra

Affiliation	A I to I		のないとことがいけばなどのできないというないのできないという	にはこのでは、これでは、これでは、これでは、これでは、これでは、これでは、これでは、これ
The 1-Concentration of 19th extendion   0   19th				
778 Concompletion of State excension		0	2	I-I ayein ac ool oots pue
77.8 (10.0 competion of 25% execution 0 111AAR00 2   1220		0		
The 2,00 completion of signature and branches   0   0   0   0   0   0			23	Spiral ramp at Intake 1-1
77 B. Cho completion of all concentration   0   0   0   0   0   0   0   0     77 B. Cho completion of signal range to scheme?   0   0   0   0   0   0   0   0     77 B. Cho completion of signal range to scheme?   0   0   0   0   0   0   0   0   0		0	2	Spiral ramp at Intake I-1
This Concompletion of spiral trans to schomb		0	2	♦for spiral ramp at Intake I-I
77 R. Concentrelation of spiral ramp to +30mPD		0	2	Spirak ramp at Intake I-
778 S. On completion of ginal ramp to ±10mPD			2	• Soiral ramp at Infake 1-1
778 (2) On completion of spined accesses amp   15 miles   1 mil				т, ф
11 R 1; Cn completion of sulf works under this CC   0   12AAUG08   2   1,504	1 1	0	2	at Intake -1
11R 1; On completion of sell reling works   0   12ALIGOB   2   1,504     11R 2; On completion of pling at brainch access   0   13SEPD6   2   1,465     11R 2; On completion of pling at brainch access   0   13SEPD6   2   1,462     11R 3; On completion of pling at brainch access   0   13SEPD6   2   1,462     11R 3; On completion of pling at brainch access   0   13SEPD6   2   1,462     11R 4; On completion of pling at brainch access   0   13SEPD6   2   1,462     11R 4; On completion of pling at brainch access   0   13SEPD6   2   1,462     11R 4; On completion of pling at brainch access   0   13SEPD6   2   1,462     11R 4; On completion of pling at brainch access   0   13SEPD6   2   1,462     11R 4; On completion of pling at brainch access   0   13SEPD6   2   1,462     11R 4; On completion of pling at brainch access   0   13SEPD6   2   1,462     11R 4; On completion of pling at brainch access   0   13SEPD6   2   1,462     11R 4; On completion of pling at brainch access   0   13SEPD6   2   1,462     11R 4; On completion of pling at brainch access   0   13SEPD6   2   1,462     11R 4; On completion of pling at brainch access   0   1,462     11R 4; On completion of pling at brainch access   0   1,462     11R 4; On completion of pling at brainch access   0   1,462     11R 4; On completion of pling at brainch access   0   1,462     11R 4; On completion of pling at brainch access   0   1,462     11R 4; On completion of pling at brainch access   0   1,462     11R 4; On completion of pling at brainch access   0   1,462     11R 4; On completion of pling access   0   1,462     11R 4; On completion of pling access   0   1,462     11R 4; On completion of pling at brain access   0   1,462     11R 4; On completion of pling access   0   1,462     11R 4; On completion access   0   1,462     11R 5; On completion access   0   1,462     11R 5; On completion acc	07R1Al1920 7R 10; On completion of all works under this CC		2	
11R 2; On completion of soin railing works   0   12AUG08   2   1,466	Streditie of Milestones (of Loss Centreling)   HE			
11R 2; On completion of piling at bianch access   0   18.5EPOR   2 1,442			2	
11R 3: On completion of pling at branch access of nitrice   1.1	1		r c	Swall at platform at loake 1.1
11R 4; On completion of all works under this CC	7		٥ ا	- <del>1</del>
Obtain TTA (ingress & egress) approval   0   28MAR08   2   36   4     Possession of Portion B -god of DOC   0   28MAR08   22MAR08   1   13   15     Site eatablishment   3   27MAR08   0   22MAR08   1   13   15     Install remote contor CCTV as per ER 4.4.10   30   27MAR08   0   28MAR08   1   12   16     Maintain & operate CCTV   1.165   0   0   0   0   0   0   0   0     Installation of Geotechnical Instrumentation   1   2   0   0   0   0   0   0   0   0     Installation of Geotechnical Instrumentation   1   2   0   0   0   0   0   0   0   0     Installation of Geotechnical Instrumentation   1   2   0   0   0   0   0   0   0   0     Installation of Geotechnical Instrumentation   1   2   0   0   0   0   0   0   0   0   0	1		2 0 6	
Obtain TTA (ingress & egress) approval	Constantistion of Intolia 10			אַ מווים וווים מווים
Dobain TTA (ingress & egress) approval	Construction of Intake F-2 F/All Will LIV Works			
Site establishment   Site es	ļ		2	
Site establishment   30   27MAR08   02MAY08   1   13   15   15   15   15   15   15	Ī —	26MAR08	O.	
Site clearance		27MAR08	- -	
Install remote contorl CCTV as per ER 4.4.10   30   27MAR08   1   12   16   Maintain & operate CCTV   2   03ARY08   11.JUL11   2   16   Maintain & operate CCTV   2   03ARY08   11.JUL11   2   16   Maintain & operate CCTV   2   03ARY08   11.JUL11   2   16   Maintain & operate CCTV   2   03ARY08   11.JUL11   2   16   Maintain & operate CCTV   2   03ARY08   11.JUL11   2   16   Maintain & operate CCTV   2   03ARY08   11.JUL108   11.JUL10	, ,	†- ·-	1 108	- <del>E</del>
Maintain & operate CCTV         1,165         03MAY08         11JUL11         2         16           Tree transplanting; 1 no.         72         03APR08         30JUN08         1         38           Obtain approval for Geotechnical Instrumentation         30         27MAR08         02MAY08         1         13           Monitor/report Geotechnical Instrumentation         1,230         03MAY08         27JUN12         1         24           Monitor/report Geotechnical Instrumentation         24         05APR08         27JUN12         1         24           Monitor/report Geotechnical Instrumentation         24         05APR08         27JUN12         1         24           Monitor/report Geotechnical Instrumentation         24         05MAY08         1         13         6         05MAY08         1         13           Form temp. access ramp along west side of stream         2         05MAY08         1         13         6         05MAY08         1         13         6         13MAY08         1         13         6         6         6         6         6         6         13         6         6         13         6         13         6         13         6         13         1         13         1		27MAR08	- - -	
Tree transplanting: 1 no.   72   03APR08   30JUN08   1   398	i—	03MAY08	8	
Obtain approval for Geotechnical Instrumentation   0   26MAR08   2   16		03APR08	-	
Installation of Geotechnical Instrumentation   3.0   27MAR08   1   13   13   13   14   15   15   15   15   15   15   15			2	
Wonitor/report Geotechnical Instrumentation         1,230 03MAY08         27JUN12         1         24         CAPRON         23MAY08         1         33MAY08         1         33MAY08         1         33MAY08         1         33MAY08         1         33MAY08         1         13         4mble mentation of TTA           15 nos. pre-bored H-piles at southern eacess ramp (tail)         12         24MAY08         05JUN08         1         13         4mble mentation of TTA           Remaining 44 nos. pre-bored H-piles         30         07JUN08         15JUL08         1         298         6mg/21.5 nos/rigday           Demolize piling rig         1         15JUL08         1         298         6mg/21.5 nos/rigday	1	27MAR08	-	10000000000000000000000000000000000000
Gardia H-Pile Wall           Form temp, access ramp along west side of stream         24         05APR08         03MAY08         1         13           Homobilize piling rig & set up         6         05MAY08         10MAY08         1         13           15 nos. pre-bored H-piles at southern end         10         13MAY08         23MAY08         1         13           Remaining 44 nos. pre-bored H-piles         30         07JUN08         14JUL08         1         298           Demolize piling rig         1         15JUL08         15JUL08         1         298           Excavate for skin wall & remove temp, access         40         16JUL08         30AUG08         1         298	3DL1Bl2108 Monitor/report Geotechnical Instrumentation	· · · · ·	-	Control of the Contro
g 1-Construct 550 dia. H-Pile Wail         24         05APR08         03MAY08         1         13           Form temp, access ramp along west side of stream         24         05APR08         03MAY08         1         13           Mobilize piling rig & set up         6         05MAY08         1         13           15 nos. pre-bored H-piles at southern end         10         13MAY08         23MAY08         1         13           Remove southern access ramp (tail)         12         24MAY08         06JUN08         1         13           Remaining 44 nos. pre-bored H-piles         30         07JUN08         14JUL08         1         298           Demolize piling rig         1         15JUL08         1         298           Excavate for skin wall & remove temp, access         40         16JUL08         30AUG08         1         298	Sheenni Diversion Appreable shaneth Halley Ri			
Form temp, access ramp along west side of stream         24         05APR06         03MAY08         1         13           Mobilize piling rig & set up         6         05MAY08         10MAY08         1         13           15 nos. pre-bored H-piles at southern end         10         13MAY08         23MAY08         1         13           Remove southern access ramp (tail)         12         24MAY08         06JUN08         1         13           Remaining 44 nos. pre-bored H-piles         30         07JUN08         14JUL08         1         298           Demolize piling rig         1         15JUL08         15JUL08         1         298           Excavate for skin wall & remove temp, access         40         16JUL08         30AUG08         1         298	Phase 1, Stg 1-Construct 550 dia. H-Pile Wall	POLITY TO THE THE TANK OF THE		
Mobilize piling rig & set up         6         05MaY08         1 0MaY08         1 13           15 nos. pre-bored H-piles at southern end         10         13MaY08         23MaY08         1 13           Remaining 44 nos. pre-bored H-piles         30         07JUN08         14JUL08         1 298           Demolize piling rig         1         15JUL08         15JUL08         1 298           Excavate for skin wall & remove termp. access         40         16JUL08         30AUG08         1 298		05APR08	-	
15 nos. pre-bored H-piles at southern end       10       13MAY08       22MAY08       1       13         Remove southern access ramp (tail)       12       24MAY08       06JUN08       1       13         Remaining 44 nos. pre-bored H-piles       30       07JUN08       14JUL08       1       298         Demolize piling rig       1       15JUL08       1       298         Excavate for skin wall & remove temp, access       40       16JUL08       1       298		05MAY08	·   **-	with the implementation of TTA
Remove southern access ramp (tail)         12         24MAY08         06JUN08         1         13           Remaining 44 nos, pre-bored H-piles         30         07JUN08         14JUI.08         1         298           Demolize piling rig         1         15JUI.08         1         298           Excavate for skin wall & remove temp, access         40         16JUI.08         1         298		13MAY08	-	B1.5 nos/rigday
Remaining 44 nos. pre-bored H-piles         30         07JUN08         14JUL08         1         298           Demolize piling rig         1         15JUL08         15JUL08         1         298           Excavate for skin wall & remove temp, access         40         16JUL08         1         298		24MAY08	- -	23
Demolize piling rig         1         15JUL08         15JUL08         1         298           Excavate for skin wall & remove temp. access         40         16JUL08         30AUG08         1         298		07JUN08		配配@1.5 rios_frigday
Excavate for skin wall & remove temp, access 40 16JUL08 30AUG08 1 298		15JUL08	-	
		16JUL08	-	

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12R3Bl2216 Construct skin wall; 45m; Portion B	~-	B.9. IOT 1/2/31/4/5/1017 (B19702/12/22/3/22/2/2/2/2/2/2/2/2/2/2/2/3/2/3
Phase 1, Sto 3-Flatten exist. Stream Red at West	200000000000000000000000000000000000000	
Construct temp. concrete block bund	12 01NOV08* 14NOV08 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	
Excavate for L-shaped retaining wall	09NOV09 21NOV09 1	provision of water pump
Construct L-shaped retaining wall	18 23NOV09 12DEC09 1 175	E .
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	6 28JAN10 03FEB10 1 175	
Excavate for western portion guide wall & stab	04FEB10 20FEB10 1	coronision of water pump
Construct western portion of guide wall & slab	22FEB10 20MAR10 1	- [
Remove concrete block bund	22MAR10 27MAR10 1	
Phase 4- Construct Remaining Approach Channel		3
Construct temp. concrete block bund	6 18APR11 27APR11 1 8	
Complete guide wall between A.C. & V.S.	12MAY11 1	į
Remove temp. conctete block bund	6 13MAY11 19MAY11 1 8	*After Construction of Outfall O-1
Syggyales e Comentalph Vertextalvelp Sharif		
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	Dring land in Maries Dring
Construct vortex shaft & guide wall	36 28DEC10 11FEB11 1 13	
Construct trash grill		1575
Construction of boulder traps; 7nos.	-	æ &
Phase 3, Stg 2- Construct Rem. West. Guide Wall		
Relocate temp. concrete block bund	4 12MAR11 16MAR11 1 13	, , , , , , , , , , , , , , , , , , ,
Excavate/const. rem. western guide wall		· E
Remove temp, concrete block bund		
Mechanical excavation for dron shaft: 32m		
Construct drop chaft: 04	13	<u> </u>

	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	08R1BI2102
		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	05L1812806
	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
Marie Bays, Invert, walls & roof 8 pours @ bay 51 d	50 14JUL10 09SEP10 1 13	Construct adit tunnel; 60m	3BL1BI2104
SESTING SESTION © 0.3m/day	200 06NOV09 13JUL10 1 13	Mechanical excavation for Adit Tunnel	38L1B12102
		Excavate o Gonstruct Aul Funnell	-112/09X
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	05L1B12502
		Excavate Goostfloot/Nart Access Shaff	
©a <sup>®</sup> @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	05L1B12406
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
	ANGARYON MARKATANGANANTANGANANTANGANANTANGANGANGANGANANTANGANANTANGANGANANTANGANANTANGANANTANGANANTANGANANTANGAN	Phase 1, Stg 2- Form temp. access ramp to VS	Phase 1, St
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09R1Cl3402	1 [	60 13MAY09	09 23JUL09 1 274	
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09R1Cl3412		32 17DECC	4N10 1	
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06L1Cl3502	Modify & flatten the stream bed	6 26NOV08	02DFC08 1	
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06L1Cl3506	Ι	$^{+}$		
06L1Cl3508		+ .	20JAN09 1	MATTER OF THE CONTRACT OF THE
06L1Cl3510	Construction of air vent shaft	14   21JAN09	09FEB09 1 1	
eyip (jegy gjye)	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
Metal Mean	Weldinganorsingam Belti (by Seasonnik)			
Phase 2	THE TRANSPORT OF THE TRANSPORT AND THE TRANSPORT OF THE T			
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 ( C ( C ) )	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 elektrikarian kanales esta elektrikarian interesta en elektrikarian kanales esta elektrikarian kana		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 days & walls 向 ave
	a cavalery box surrous administrati					<u> </u>
Phase 2	ocai alesa taran esperiaces esperiaces esperiación de esperiación de esperiación de esperiación de esperiación					
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 organization tells					
Phase 2	CALLY CALLY THE PROPERTY OF TH	A COLUMN TO THE	Decide Tables of the Control of the	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
	Aquianny Volks Pricing handoverny dienk					
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	
	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   
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forexavation of 60.5% of excavation 3CL1CI3A18 3cL 9; On completion of forex shaft 3CL1CI3A18 3cL 9; On completion of 60.5% of excavation at G.L 3CL1CI3A18 3cL 9cl |
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	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         &lt;</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<>
* 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<br>1.L 0 0 24FEB09 2 1,231<br>1.L 0 0 24FEB09 2 1,231<br>0 0 23JUL09 2 1,531<br>el 0 22JAN11 2 612<br>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
1,001   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           
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   | 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         4at Intake I-3         4at Intake | 0         29SEP09         2         1,091           0         05MAY11         2         508           1         0         26MAR10         2         913           1         0         24FEB09         2         1,231           1         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   
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           | 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  | oproach channel         0         23JUL09         2         1,159           oproach channel         0         20NOV10         2         674           channel         0         21JAN11         2         612   | 0 23JUL09 2 1,159 4at 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 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  
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   | 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   
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   | 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 Partition Sulvert & 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	
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10R1DO0706 Excavate for box culvert (upper part)	_	Emiliary 15 400m3
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	
Scheddleiofalliesionesablicosi Centento author		
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	tar 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
September of the statement of the statem		
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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e	15H6GG0504 15R 2; On completion of 25% of pipejacking	5R6GG0506 15R 3; On completion of 50% of pipejacking	5R6GG0508   15R 4; On completion of 75% of pipejacking	15R6GG0510   15R 5; On completion of all pipejacking	15R6GG0512 15R 6; On completion of all wks under this CC
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# Appendix D

Implementation Status of Environmental Mitigation Measures

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## **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
	<ul> <li>dump truck for material transport should be totally enclosed by impervious sheeting;</li> <li>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;</li> </ul>				<b>√</b>
	<ul> <li>stockpile of dusty materials should not extend beyond the pedestrian barriers, fencing or traffic cones;</li> <li>dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;</li> </ul>				<b>√</b>

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	✓
	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:				
	<ul> <li>only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction works;</li> </ul>				✓
	<ul> <li>machines and plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum;</li> </ul>				✓

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)	✓
	mobile plant should be sited as far away from NSRs as possible; and		Sites	Regulation	$\checkmark$
	• material stockpiles and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.				✓
	<ul> <li>For Drill and Blast Works</li> <li>Charge mass per delay should be decreased by minimising the number of blastholes firing on each delay.</li> </ul>				N/A
	Smaller blasthole patterns and longer delays should be used between dependent charges.				N/A
	Times of blasting should be established to suit the situation and firing blasts when neighbours are busy with their daily tasks (and at a regular time such as lunch time).				N/A
	<ul> <li>For TBM Tunnelling</li> <li>For the tunnel excavation, it is anticipated that beyond the initial length (say within 30m), excavation will be carried out well within the tunnel and door should be provided to further minimize the noise nuisance to the nearby receivers.</li> </ul>				N/A
4.6.2	During Operation	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;				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				
5.9.1	During Construction	DSD's Contractor	Construction Work Sites	Practice Note for Professional Persons with	<b>√</b>
	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	✓
	<ul> <li>Temporarily exposed surfaces should be covered e.g. by tarpaulin.</li> <li>Temporary access roads should be protected by crushed stone or gravel.</li> </ul>	-			✓
	Trenches should be dug and backfilled in short sections. Measures should be taken to minimize the ingress of rainwater into trenches.	-			✓
	Actions to be taken when a rainstorm is imminent or forecast:  • Silt removal facilities, should be checked to ensure that they can function properly.				✓

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

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

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	✓
5.9.1	Respirators and gas masks.	Contractor	Work Sites		•
	Face visor and masks.				✓
5.9.2	Emergency Responses to Spillages				
	Emergency plans and clean up procedures will need to be provided by the Contractor recognising his specific working methods and construction programme, activities and sequences. Agreement must be sought prior to commencement of the construction work but the following principles should be considered.				
	The emergency plans should include the procedures for:				✓
	spill prevention and precaution;	_			
	response actions; and				✓
	spill clean up and disposal.				✓
	Spill prevention and precaution embraces good site practice and covers:				✓
	good housekeeping practices;	_			
	chemical storage requirements; and				<b>√</b>
	chemical transfer and transport.				✓
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
	Management	_			
6.5.1	During Construction  Vegetation Removed from Site Clearance  Wastes generated from site clearance shall be sorted and excavated topsoil segregated from roots for re-use in landscaping works, thus eliminating the need for off-site disposal.	DSD's Contractor	Construction Work Sites	Waste Disposal Ordinance (Cap.354); Waste Disposal (Chemical Wastes) (General) Regulation (Cap 354) and ETWBTC No.	✓
	Construction and Demolition Materials  The Contractor should reuse any C&D material on-site. C&D waste should be segregated and stored in different containers to other wastes to encourage the re-use or recycling of materials and their proper disposal. The use of wooden hoardings shall not be allowed. An alternative material, which can be reused or recycled, for example, metal (aluminium, alloy, etc) shall be used.			15/2003, Waste anagement on Construction Site	<b>√</b>

EIA 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 317,936m <sub>3</sub> 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;	ling circular(s), for disposal of C&D material;  Management System into the WMP for effective management rerials to avoid/reduce/minimise the generation of C&D		✓	
	(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	<b>√</b>
	Excavated Materials  Excavated materials should be segregated from other wastes to avoid contamination thereby ensuring acceptability at public filling areas and avoiding the need for disposal at landfill.  Municipal Waste	DSD's Contractor	Construction Work Sites	WDO (Cap.354) and ETWBTC No. 15/2003	<b>√</b>
	Temporary refuse collection facilities should be set-up by the contractor and wastes should be stored in appropriate containers prior to collection and disposal.				✓
	Domestic effluent generated by the workforce will be directed to foul sewer or chemical toilets if public facilities are not available.				$\checkmark$
6.5.1	Waste Management Plan  A Waste Management Plan (WMP) for the construction of the Project should be prepared as part of the contractors submission. It will provide recommendations for appropriate recycling or disposal route and should include method statement for stockpiling and transportation of the excavated material and other construction wastes should also be included in the WMP and approved before the commencement of construction. All mitigation measures arising from the approved WMP shall be fully implemented.	DSD's Contractor	Construction Work Sites	WDO (Cap.354), ETWBTC No. 15/2003 and ETWBTC No. 33/2002	<b>√</b>

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
<b>Ecology</b>	<del>_</del>			· · · · · · · · · · · · · · · · · · ·	
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	✓
	The major construction activities at streams are scheduled to avoid wet season of high water flow which may adversely affect the downstream natural habitats due to the construction runoff.				✓
7.7.2	Minimisation				
	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 Install sheet piles/cofferdam/weir along the boundary of the works area within the stream habitats in particular Sam Dip Tam Stream and Tso Kung Tam Stream before the commencement of works to prevent construction runoff during construction. Provision of adequate designed sand/ silt removal facilities such as sand traps, silt traps and sediment basin in the areas which could potentially be affected may be required.				✓
	Good Construction Practice				✓
	Erect fences along the boundary of the works area before the commencement of works to prevent tipping, vehicle movements, and encroachment of personnel onto adjacent areas, particularly the stream habitats.	DSD's Contractor	Construction Work Sites	EIAO	✓
	Avoid any damage and disturbance, particularly those caused by filling and illegal dumping, to the remaining and surrounding natural stream habitats.				✓
	Regularly check the work site boundaries to ensure that they are not breached and that no damage occurs to surrounding areas.				$\checkmark$
	Prohibit and prevent open fires within the site boundary during construction and provide temporary fire fighting equipment in the work areas.				✓
	Treat any damage that may have occurred to individual major trees in the adjacent area with surgery.				✓

EIA 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	<b>~</b>
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

10/02/09 10:03 5







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

<b>Application Date</b>	<b>Issued Date</b>	<b>Due Date</b>	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	7-Aug-2008	31-Aug-2013	Water Pollution Control Ordinance – Outfall	001028154	Licence No :	Contractor had received the acknowledge receipt on 3 March 2008. Public Notice had been issued on 16 June 2008. Application fees had been paid on 28 July 2008. Licence had been issued on 7 Aug 2008.
9-Apr-2008	29-Apr-2008		Notification of Change in the Registration of Chemical Waste Producer			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	Permit No.: 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. Chits had been received on 10 June 2008.
18-Apr-2008	19-Jun-2008	30-Jun-2013	Water Pollution Control Ordinance – Intake	001029978	Licence No.: EP760/327/013315I	Contractor had received the acknowledge receipt on 8 May 2008. Application fees had been paid on 13 June 2008. Licence had been issued on 19 June 2008.

18-Apr-2008	2-Jul-08	31-Jul-2013	Water Pollution Control Ordinance – Intake	001029959	Licence No.: EP760/321/013020I	Contractor had received the acknowledge receipt on 8 May 2008. Application fees had been paid on 26 June 2008. Licence had been issued on 2 July 2008.
18-Apr-2008	5-Aug-2008	31-Aug-2013	Water Pollution Control Ordinance – Intake	001029960	Licence No.: EP760/323/013324 I	Contractor had received the acknowledge receipt on 8 May 2008. Public Notice had been issued on 16 June 2008. Application fees had been paid on 28 July 2008. Licence had been issued on 5 Aug 2008.
18-Apr-2008	26-Jun-2008	30-Jun-2013	Water Pollution Control Ordinance – Portion I	001029974	Licence No.: EP760/350/013334I	Contractor had received the acknowledge receipt on 8 May 2008. Application fees had been paid on 13 June 2008. Licence had been issued on 26 June 2008.
18-Jun-2008	27-Jun-2008		Variation of Environmental Permit	VEP-266/2008	Permit No.: FEP-01/275/2007/A	Contractor had received the acknowledge receipt on 23 June 2008. Licence had been issued on 27 June 2008.
23-Jul-2008	27-Aug-2008	31-Aug-2013	Water Pollution Control Ordinance – Intake 1 (Intersection of Wo Yi Hop Lane and Ho Fung College)	001031974	Licence No.: EP760/325/013536I	Contractor had received the acknowledge receipt on 25 July 2008. Application fees had been paid on 19 Aug 2008. Licence had been issued on 27 Aug 2008.
21-Nov-2008			Construction Noise Permit  1) Chai Wan Kok Valve House (Near Summit Terrace - Tusen Wan)  2) Valve House (Near The Wonderland - Castle Peak Road- Ting Kau)	001034930		Contractor had applied the permit on 21 Nov 2008. Contractor had received the acknowledge receipt on 2 Dec 2008. Notice of Refusal had been received on 6 Dec 2008.
15-Jan-2009			Application for Issuance of Chits for Disposal of Construction Waste for Existing Account Holder			Contractor had applied extra 200 chits for further usage on 15 Jan 2009.
13-Jan-2009			Construction Noise Permit - Castle Peak Road - Ting Kau Section Beside Greenview Terrace (Outfall O-1)	301201		Contractor had applied the permit on 13 Jan 2009. Contractor had received the acknowledge receipt on 13 Jan 2009. Notice of Refusal had been received on 21 Jan 2009.
20-Jan-2009			Construction Noise Permit - Wo Yi Hop Road ad Shing Mun Road, Kwai Chung (Intake I-1)	301401		Contractor had applied the permit on 20 Jan 2009. Contractor had received the acknowledge receipt on 20 Jan 2009.
22-Jan-2009			Construction Noise Permit - Near Tsuen Wan West High Level Sea Water Service Reservoir, Tso Kung Tam (Intake I-3)	301474		Contractor had applied the permit on 22 Jan 2009. Contractor had received the acknowledge receipt on 22 Jan 2009.



# Appendix F

Calibration Certificates

Project Title: Design and Construction of Tsuen Wan Drainage Tunnel

Monitoring Location: Greenview Terrance

Calibration Date: 09-Dec-08
Calibration Due Date 09-Feb-09
Time: 16:57

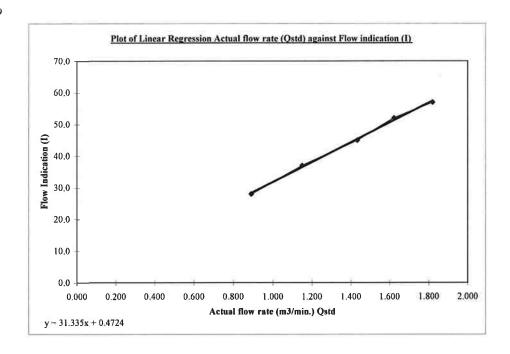
Sampler Model:	TE5005X
Serial No.:	0646
Calibrator Orifice no.:	517N
Slope (m):	2.02953
Intercept (b):	-0.01939
Correction coeff. (r)	0.9999

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

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

Sample no.	Pressure Drop (H), inch	Flow (corrcted), m <sup>3</sup> /min	Actual flow rate (Qstd), m <sup>3</sup> /min	Flow indication (I), arbitrary
1	13.1	3.673	1.819	57,0
2	10.4	3.273	1.622	52.0
3	8.1	2.888	1.433	45.0
4	5.2	2.314	1.150	37.0
5	3.1	1.787	0.890	28.0

Correlation Coefficient: 0.9989



Remark 1HPa = 0.750062 mmHg

Calibrated by: Mak Kei Ho

Ho )

)

Checked by:

Tang Hiu Yeung

Date: 11-12-08

Project Title: Design and Construction of Tsuen Wan Drainage Tunnel

Monitoring Location: Ho Fung College
Calibration Date: 09-Dec-08
Calibration Due Date 09-Feb-09
Time: 17:59

Sampler Model:	BM2000HX
Serial No.:	4994
Calibrator Orifice no.:	517N
Slope (m):	2.02953
Intercept (b):	-0.01939
Correction coeff. (r)	0.9999

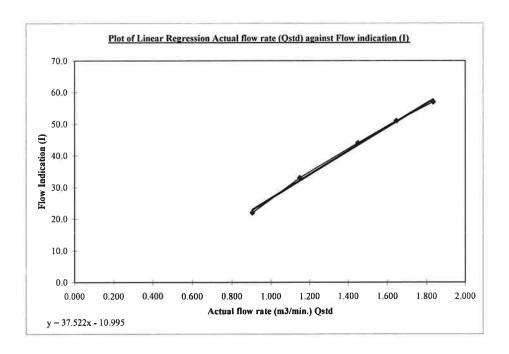
Standard pressure (mmHg) Pstd:	756.9	
Standard temp. (K) Tstd;	297.18	
Calibration pressure (mmHg) Pa:	764.0	
Calibration temp. (K) Ta:	292.1	

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

$$Qsid = \frac{1}{m} \times (\sqrt{H \times \frac{Pa}{Psid}} \times \frac{Tsid}{Ta} - b)$$

Sample no.	Pressure Drop (H), inch	Flow (correted), m <sup>3</sup> /min	Actual flow rate (Qstd), m3/min	Flow indication (I), arbitrary
1	13.3	3.701	1.833	57.0
2	10.7	3,319	1.645	51.0
3	8.3	2.924	1.450	44.0
4	5.2	2.314	1.150	33.0
5	3.2	1.815	0.904	22.0

Correlation Coefficient: 0.9983



Remark 1HPa = 0.750062 mmHg

Calibrated by: Mak Kei Ho

H0)

Date: 1/-12-08

Checked by:

Tang Hiu Yeung

Project Title: Design and Construction of Tsuen Wan Drainage Tunnel

Monitoring Location: Heng Hoi Chi Hong Ship Temple

Calibration Date: 09-Dec-08
Calibration Due Date 09-Feb-09
Time: 12:30

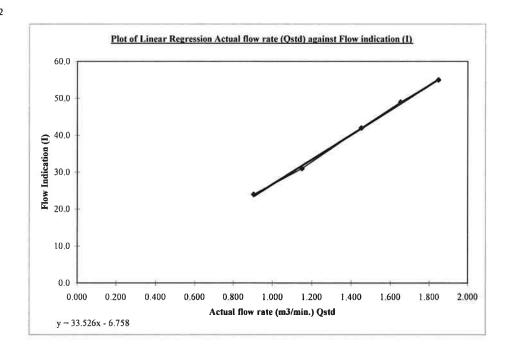
Sampler Model:	BM2000HX		
Serial No.:	5875		
Calibrator Orifice no.:	517N		
Slope (m):	2.02953		
Intercept (b):	-0.01939		
Correction coeff. (r)	0,9999		

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

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

Sample no.	Pressure Drop (H), inch	Flow (corrcted), m³/min	Actual flow rate (Qstd), m <sup>3</sup> /min	Flow indication (I), arbitrary
1	13.5	3.729	1.847	55.0
2	10.8	3.335	1.653	49.0
3	8.3	2.924	1.450	42.0
4	5.2	2.314	1.150	31.0
5	3.2	1.815	0,904	24.0

Correlation Coefficient: 0.9992



Remark 1HPa = 0.750062 mmHg

Calibrated by: Mak Kei Ho

Ho

)

Date: 11-12-08

Checked by:

Tang Hiu Yeung

Date: \_ (( - () - 08

Project Title:

Design and Construction of Tsuen Wan Drainage Tunnel

**Monitoring Location:** 

Long Beach Gardan

**Calibration Date: Calibration Due Date**  09-Dec-08 09-Feb-09

Time:

15:45

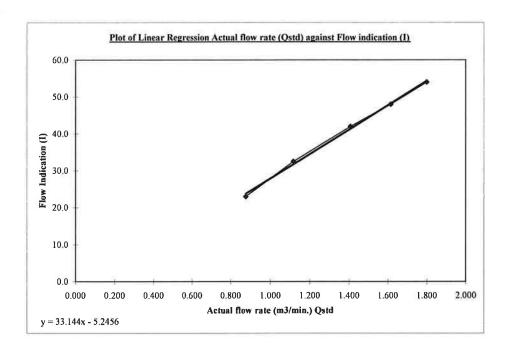
Sampler Model:	TE5005X
Serial No.:	0390
Calibrator Orifice no.:	517N
Slope (m):	2.02953
Intercept (b):	-0.01939
Correction coeff. (r)	0.9999

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

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

Sample no.	Pressure Drop (H), inch	Flow (corrcted), m <sup>3</sup> /min	Actual flow rate (Qstd), m <sup>3</sup> /min	Flow indication (I), arbitrary
Ī	12.8	3.631	1.798	54.0
2	10.3	3.257	1.614	48.0
3	7.8	2.834	1.406	42.0
4	4.9	2.246	1.116	32.5
5	3.0	1.758	0.876	23.0

Correlation Coefficient: 0.9985



Remark

1HPa = 0.750062 mmHg

Calibrated by:

Mak Kei Ho

Checked by:

Tang Hiu Yeung

Date: \_\_\_\_\_\_\_\_



83174 Certificate No.

Page 4 Pages of

Customer: Hyder Consulting Limited

Address: 47/F., Hopewell Centre, 183 Queens Road East, Wanchai, Hong Kong

**Order No.:** Q81258

Date of receipt

9-Jul-08

Item Tested

**Description**: Sound Level Meter

Manufacturer: B&K

Model

: 2238

Serial No.

: 2448529

**Test Conditions** 

Date of Test:

9-Jul-08

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

Supply Voltage

Relative Humidity: (50 ± 25) %

**Test Specifications** 

**Ambient Temperature:** 

Calibration check.

Calibration procedure:

Z01.

#### **Test Results**

All results were within the IEC 651 Type 1, IEC 804 Type 1 & IEC 1260 Class 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

C081456

18-Mar-09

**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:

10-Jul-08

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



Certificate No. 83174

Page 2 of 4 Pages

#### Results:

## 1. SPL Accuracy

	UU	T Setting		Applied Value	I II I I I I I I I I I I I I I I I I I
Range	Freq. Wgt.		Center Freq.	Applied Value (dB)	UUT Reading
$20 \sim 100$	A	BB/F			(dB)
	A	BB/S		94.03	93.9
	C	BB/F			93.9
40 ~ 120		The second second			93.9
10.0 120	A	BB/F		94.03	94.0
10 100	A	BB/F		113.97	113.8
40 ~ 120		1/3 - Oct./F 1 kHz	1 kHz	94.03	
				- 10 C C C C C C C C C C C C C C C C C C	94.0
40 ~ 120		1/1 - Oct./F	11**	113.97	113.8
	1/1 - Oct./F   1 kHz	I KHZ	94.03	94.0	
			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. : ± 0.3 dB

Uncertainty:  $\pm 0.01 dB$ 

## 3. Linearity

## 3.1 Level Linearity

UUT Range (dB)	Applied Value (dB)	UUT Reading (dB)	Variation (dB)	IEC 651 Type 1 Spec.
130	114.0	114.2		(Primary Indicator Range)
130	104.0	104.2	0.2	$\pm 0.7 dB$
120	94.0	94.0 (Ref.)	0.2	
110	84.0	83.8	0.0	
100	74.0	73.9	0.2	
90	64.0		0.1	
80	54.0	63.9	0.1	
	J <del>1</del> .U	54.0	0.0	

Uncertainty: ± 0.1 dB



Certificate No. 83174

Page 3 of 4 Pages

## 3.2 Differential level linearity

UUT Range	Applied	UUT Reading		
(dB)	Value (dB)	(dB)	Variation (dB)	IEC 651 Type 1 Spec.
120 <u>84.0</u> 94.0	83.8	0.2	± 0.4 dB	
	94.0	94.0 (Ref.)		± 0.7 uD
	95.0	95.0	0.0	± 0.2 dB
	104.0	104.2	0.2	± 0.3 dB
	105.0	105.2	0.2	± 1.0 dB

Uncertainty:  $\pm 0.1 dB$ 

## 4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	- 39.5	- 39.4 dB, ± 1.5 dB
63 Hz	- 26,4	
125 Hz	- 16.5	$-26.2 \text{ dB}, \pm 1.5 \text{ dB}$
250 Hz	- 9.0	- 16.1 dB, ± 1 dB
500 Hz	- 3.5	- 8.6 dB, ± 1 dB
1 kHz		$-3.2 \text{ dB}, \pm 1 \text{ dB}$
2 kHz	()	$0 dB, \pm 1 dB$
4 kHz	+ 1.4	$\pm$ 1.2 dB, $\pm$ 1 dB
8 kHz	+ 1.2	+ 1.0 dB, $\pm$ 1 dB
16 kHz	- 0.8	- $1.1 \text{ dB}$ , + $1.5 \text{ dB} \sim -3 \text{ dB}$
10 KHZ	- 6.3	- $6.6 \text{ dB}, +3 \text{ dB} \sim -\infty$

Uncertainty: ± 0.1 dB

## 5. Time Averaging

Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	TEC 004 T
continuous	40.0	- No. 100 -	IEC 804 Type 1 Spec.
1/10		40.0	
	40.0	40.0	± 0.5 dB
$1/10^2$	40.0	40.0	
$1/10^3$	40.0	40.0	± 1.0 dB
1/104	40.0	39.5	1.0 dB

Uncertainty: ± 0.1 dB



Certificate No. 83174

Page 4 of 4 Pages

## 6. Filter Characteristics

## 6.1 1/1 - Octave Filter

Frequency	Attenuation (dB)	IEC 1260 Class 1 Spec. (dB)
125 Hz	- 64.2	<- 61
250 Hz	- 45.0	<- 42
500 Hz	- 21.1	<- 17.5
707 Hz	- 3.8	- 2~- 5
1 kHz (Ref)		
1.414 kHz	- 3.7	- 2 ~ - 5
2 kHz	- 20.8	< - 17.5
4 kHz	- 44.6	<- 42
8 kHz	- 63.8	<- 61

Uncertainty: ± 0.25 dB

#### 6.2 1/3 – Octave Filter

Frequency	Attenuation (dB)	IEC 1260 Class 1 Spec.(dB)
326 Hz	- 64.7	<- 61
530 Hz	- 47.3	< - 42
772 Hz	- 22.5	< - 17.5
891 Hz	- 3.6	+ 0.3 ~ - 5.0
1 kHz (Ref)		
1.122 kHz	- 3.5	+ 0.3 ~ - 5.0
1.296 kHz	- 22.4	< - 17.5
1.887 kHz	- 46.9	< - 42
3.070 kHz	- 65.2	<- 61

Uncertainty:  $\pm 0.25 \text{ dB}$ 

Remarks: 1. UUT: Unit-Under-Test

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

3. Atmospheric pressure: 1 000 hPa.

----- END -----



Certificate No. 80484

of 2 Pages Page

Customer: Hyder Consulting Limited

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

Order No.:

Q72325

Date of receipt

31-Jan-08

**Item Tested** 

**Description**: Sound Level Calibrator

Manufacturer: B&K

Model

: Type 4230

Serial No.

: 1639065

**Test Conditions** 

Date of Test:

1-Feb-08

**Supply Voltage** 

**Ambient Temperature:** 

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

Relative Humidity: (50 ± 25) %

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:

Equipment No.	<u>Description</u>	Cert. No.	<u>Due Date</u>	<u>Traceable to</u>
S014	Spectrum Analyzer	73602	7-Jul-08	NIM-PRC & SCL-HKSAR
S024	Sound Level Calibrator	71791	16-Jul-08	NIM-PRC & SCL-HKSAR
S041	Universal Counter	73453	22-Aug-08	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:

1-Feb-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

### **TEST REPORT**

Report No.

: 107244N

**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.

: 21456/1

Sample Description Sample Receipt Date : One Turbidimeter and four turbidity standards.

: 13-10-2008

**Test Period** 

: 14-10-2008

lest 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** 

WONG Yau Tim (Operation Manager)

**Issue Date** 

14-10-2008

## **TEST REPORT**

Report No.

: 107244N

: J651

**Project Name** 

: Calibration of Field measurement equipment

Customer

: Hyder Consulting Limited

Lab Job No.

Lab Sample No. : 21456/1

#### **Test Results**

## Value re-assigmnemt for Turbidity Standards:

Customer Ref.	Measured value	
Customer Ref.	(NTU)	
STD 1	0.00	
STD 2	17.74	
STD 3	102	
STD 4	893	

### Linearity check for Turbidimeter:

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

- End of Report -



1412 Honour Ind. Centre 6 Sun Yip St. Chai Wan Hong Kong

## CERTIFICATE OF CALIBRATION

### IN - HOUSE

Date (	7£ La	~

Serial No: IC 42a / / EL

21723/1

Item Being Calibrated:	Turbidity Standards (Gelex)	Date Of Calibration :	13/1/09
Item Stock No :	Std1,2,3,4	Operator :	K.K
Environment Temp. °C	21	Procedure No Used :	IC 42 (Revision No. 0)
Primary Standards used	20, 100 and 800 NTU Formazir	standards prepared fi 0368	31
Ref. Equip.used/ Stock	No: <b>Serial No. 215619</b>		

Gelex Standards	Last assigned value Date: (NTU)	New measured value (NTU)	Agreement %	Requirement %
0 - 10 NTU	0	0	0	± 5
10 - 100 NTU	17.74	16.86	-4.96	± 5
100 - 1000 NTU	102	100	-1.96	± 5
100 - 1000 NTU	893	891	-0.22	± 5

Comments	

The equipment and Gelex Standards complies / does not comply

with the Manufacturer's recommendation.

Input data checked by :

Certified by:

Operations Manager



1412 Honour Ind. Centre 6 Sun Yip St. Chai Wan Hong Kong

## CERTIFICATE OF CALIBRATION

IN - HOUSE

Date	Of:	Issue	:

Serial No: IC 42b / /EL

Item Being Calibrated:	Turbidity Standards (Gelex)	Date Of Calibration:	13/1/09
Item Stock No :	Std1,2,3,4	Operator :	K.K
Environment Temp. °C	21	Procedure No Used :	IC 42 (Revision No. 0
Primary Standards used	20, 100 and 800 NTU Formazin st	andards prepared fr 0368	11
Ref. Equip.used/ Stock	No: Serial No. 215619		

Turbidity of standard Requirement Measured Value  $R^2$ solution used Gelex Standards  $R^2$ (NTU) (NTU) 1.08 5 > 0.996 0 - 10 NTU 5.25 10 10.52 20 20.1 0.998 > 0.996 10 - 100 NTU 50 52.5 80 80.5 100 99.2 0.989> 0.996 100 - 1000 NTU 400 462 800 807

Commer	its:

The equipment and Gelex Standards complies / does not complywith the Manufacturer's recommendation.

Input data checked by :

Certified by:

Operations Manager

### **CERTIFICATE OF ANALYSIS**



Date of Issue:

Client:

23/01/2009 HYDER CONSULTING LTD

Client Reference:

#### Calibration of DO System

Item:

YSI Mulitimeter

Model No.:

**YSI 85** 

Serial No.:

98A0725AB

Calibration Method:

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

Date of Calibration:

12 November, 2008

Testing Results:

Expected Reading	Recording Reading
4.82 mg/L 6.84 mg/L 7.92 mg/L	4.71 mg/L 6.68 mg/L 7.75 mg/L
Allowing Deviation	±0.2 mg/L

Laboratory Manager - Hong Kong

### **CERTIFICATE OF ANALYSIS**



Date of Issue:

Client:

23/01/2009 HYDER CONSULTING LTD

Client Reference:

#### **Calibration of Thermometer**

Item:

YSI Mulitimeter

Model No.:

**YSI 85** 

Serial No.:

98A0725AB

Calibration Method:

In-house Method

Date of Calibration:

12 November, 2008

Testing Results:

Reference Temperature (°C)	Recorded Temperature (°C)
24.6 °C 29.2 °C	24.7 °C 29.4 °C
Allowing Deviation	±2.0°C

Ms Wong Wai Man, Alice

Laboratory Manager - Hong Kong

#### **CERTIFICATE OF ANALYSIS**



Batch:

HK0900035

Date of Issue:

02/01/2009

Client:

HYDER CONSULTING LTD

**Client Reference:** 

#### Calibration of pH System

Item:

Multi-parameter Instrument / Mehrparameter-MeBgerat

Model No.:

WTW pH / Oxi 340i

Serial No.:

08101283

Equipment No.:

--

Calibration Method:

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

Date of Calibration:

02 January, 2009

Testing Results:

Expected Reading	Recording Reading
4.00	4.11
7.00	6.99
10.0	9.80
Allowing Deviation	± 0.2

Ms Wong Wai Man, Alice Laboratory Manager - Hong Kong



# Appendix G

**Monitoring Locations** 

10/02/09 10:03 5

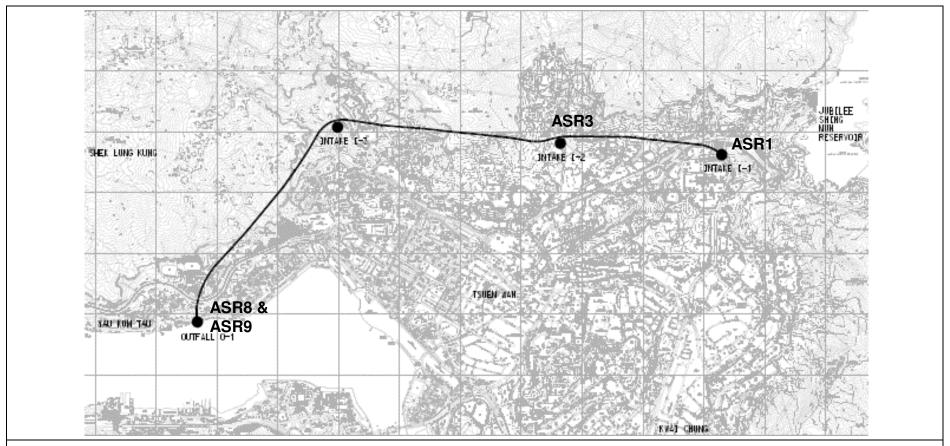


Figure 1 Air Quality Monitoring Stations

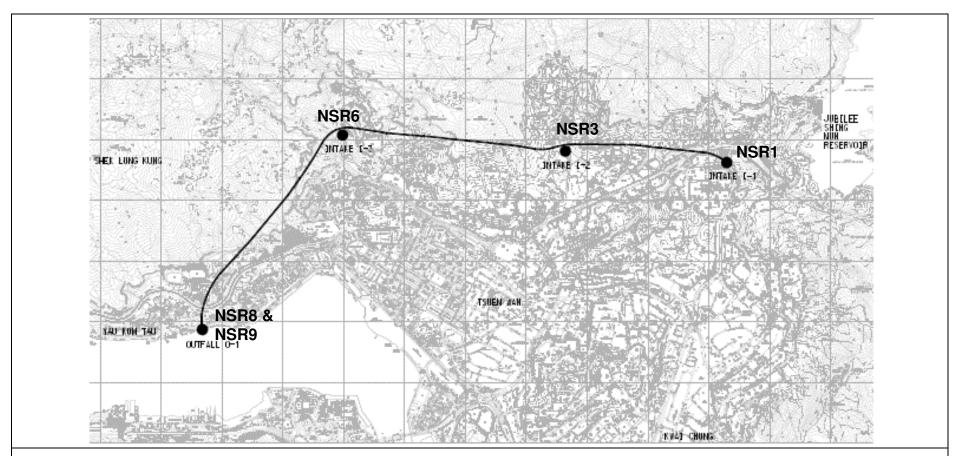


Figure 2 Noise Monitoring Stations

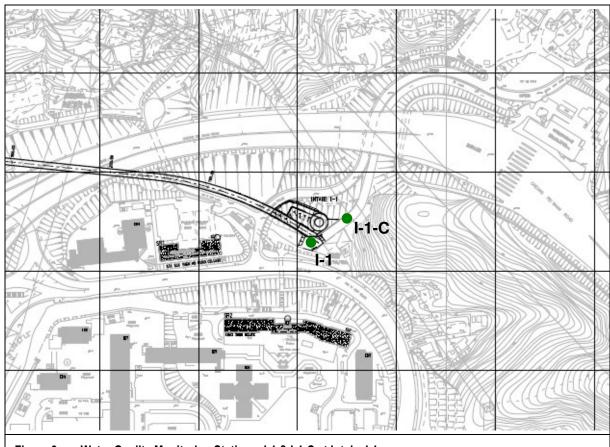
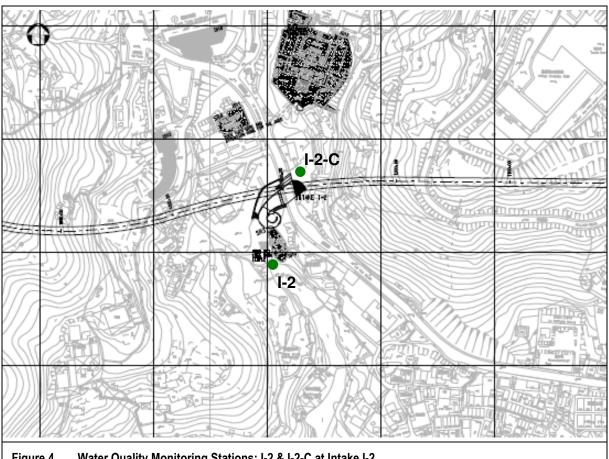
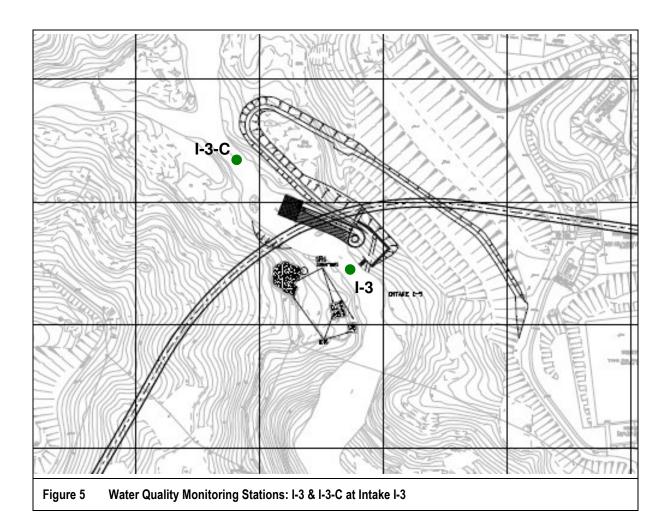


Figure 3 Water Quality Monitoring Stations: I-1 & I-1-C at Intake I-1



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



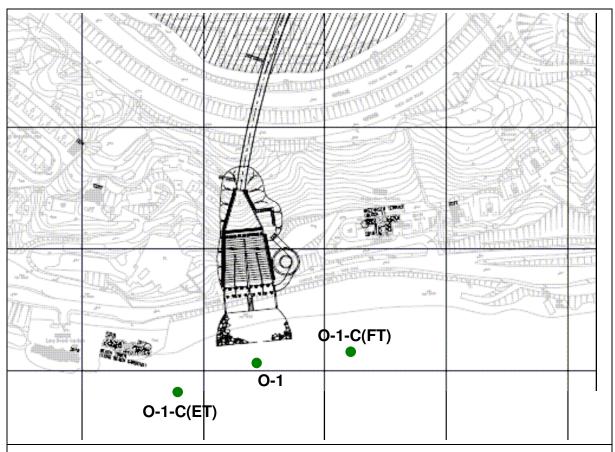


Figure 6 Water Quality Monitoring Stations: O-1, O-1-C(ET) & O-1-C(FT) at Outfall O-1



# Appendix H

EM&A Schedule

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

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

#### Note:

Shaded area indicates public holiday.

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

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

Water – Water measurements is undertaken three times per week

k:\eb000364 tsuen wan drainage tunnel\f-reports\monitoring schedule\monitoring\_schedule jan09-apr09.doc

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

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

#### Note:

Shaded area indicates public holiday.

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

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

Water – Water measurements is undertaken three times per week

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

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

#### Note:

Shaded area indicates public holiday.

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

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

Water – Water measurements is undertaken three times per week

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

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

#### Note:

Shaded area indicates public holiday.

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

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

Water – Water measurements is undertaken three times per week



# Appendix I

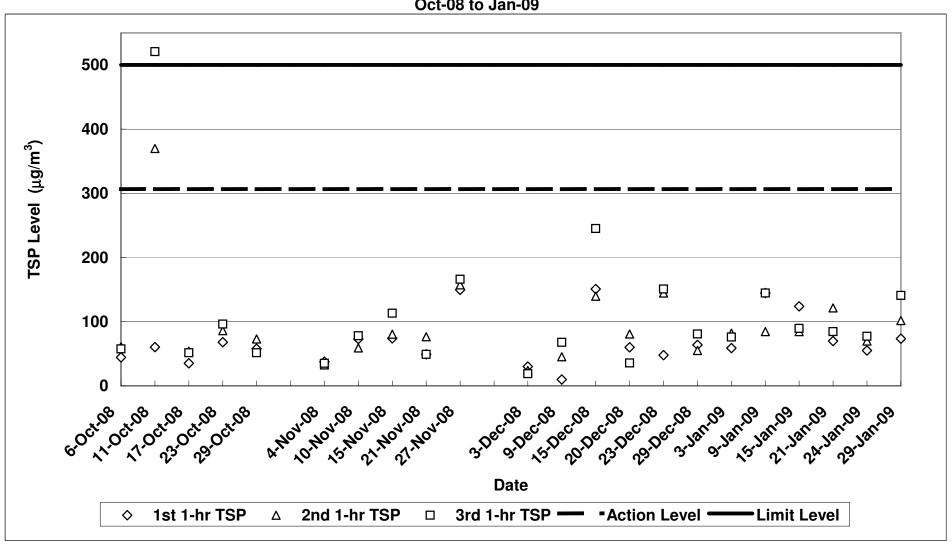
Monitoring Results

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

Air Quality Impact Monitoring Results (1-Hour TSP)

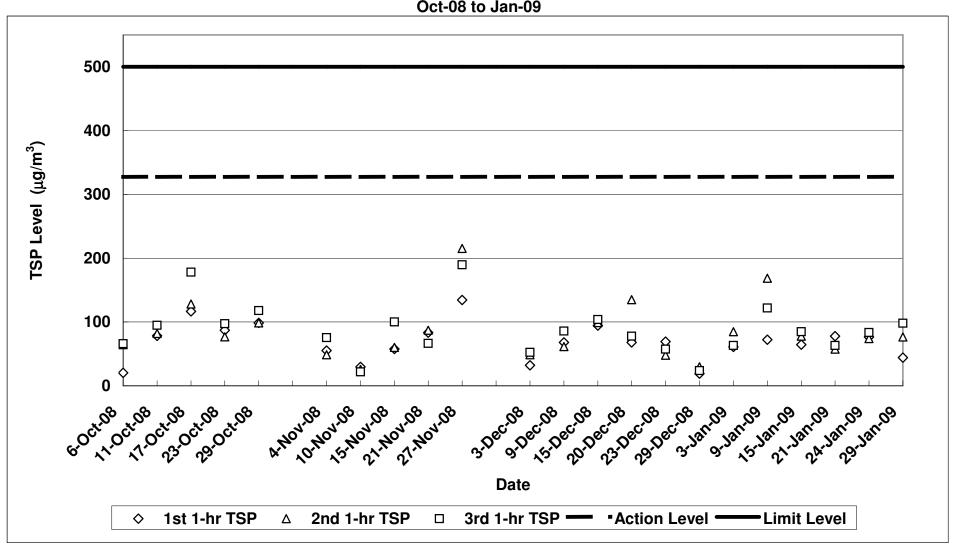
Location	Monitoring Date	Weather Conditions	Wind Speed with Direction (m/s)	Temp (°C)	Timer-I	Timer-F	Time (mins)	Flow-I (CFM)	Flow-F (CFM)	Flow-I (m³/min)	Flow-F (m³/min)	Flow-avg (m³/min)	Volume (m³)	Weight-I (g)	Weight-f (g)	Weight-diff. (g)	1-hr TSP (µg/m³)	Average 1-Hr TSP (µg/m³)	Action/Limit Levels (ug/m³)	Observation / Site Condition	Remark
		Fine	0.6NE	17	567139	567239	60.0	40	40	1.36	1.36	1.36	81.54	2.8501	2.8549	0.0048	58.9		(pg/m)		
	3-Jan-09	Fine	0.6NE	17	567239	567339	60.0	40	40	1.36	1.36	1.36	81.54	2.8264	2.8331	0.0067	82.2	72.4		Piling	Traffic
		Fine	0.6NE	17	567339	567439	60.0	40	40	1.36	1.36	1.36	81.54	2.8391	2.8453	0.0062	76.0				
	9-Jan-09	Sunny	0.7E 0.7E	12	567439 567539	567539 567639	60.0 60.0	40 40	40 40	1.36	1.36	1.36	81.54 81.54	2.8813 2.8544	2.8931 2.8613	0.0118	144.7 84.6	124.7		Nil	Traffic
	5-5a11-05	Sunny	0.7E	12	567639	567739	60.0	40	40	1.36	1.36	1.36	81.54	2.8553	2.8671	0.0069	144.7	124.7		I VIII	Tranic
		Sunny	0.6NE	14	567739	567839	60.0	40	40	1.36	1.36	1.36	81.54	2.8243	2.8344	0.0101	123.9				
	15-Jan-09	Sunny	0.6NE	14	567839	567939	60.0	40	40	1.36	1.36	1.36	81.54	2.8118	2.8187	0.0069	84.6	99.3		NII	Traffic
Sik Sik Yuen Ho Fung College - Intake (ASR1)		Sunny	0.6NE	14	567939	568039	60.0	40	40	1.36	1.36	1.36	81.54	2.8415	2.8488	0.0073	89.5		306.6/500		
College - Ilitake (ASITT)	21-Jan-09	Sunny	0.7NE 0.7NE	23	568039 568139	568139 568239	60.0	40	40	1.36	1.36	1.36	81.54 81.54	2.8707	2.8764 2.8569	0.0057	69.9 121.4	92.0		Nil	Traffic
		Sunny	0.7NE	23	568239	568339	60.0	40	40	1.36	1.36	1.36	81.54	2.8797	2.8866	0.0069	84.6				
		Fine	0.6NE	16	568339	568439	60.0	40	40	1.36	1.36	1.36	81.54	2.8478	2.8523	0.0045	55.2				
	24-Jan-09	Fine	0.6NE	16	568439 568539	568539	60.0	40	40	1.36	1.36	1.36	81.54	2.8893	2.8950	0.0057	69.9	67.4		Nil	Traffic
		Fine Cloudy	0.6NE 0.5NE	16 16	568539 568639	568639 568739	60.0 60.0	40 40	40 40	1.36	1.36	1.36	81.54 81.54	2.8806 2.7261	2.8869 2.7321	0.0063	77.3 73.6				
	29-Jan-09	Cloudy	0.5NE	16	568739	568839	60.0	40	40	1.36	1.36	1.36	81.54	2.7271	2.7354	0.0083	101.8	105.5		Nil	Nil
		Cloudy	0.5NE	16	568839	568939	60.0	40	40	1.36	1.36	1.36	81.54	2.7485	2.7600	0.0115	141.0				
		Cloudy	0.5N	15	535589	535689	60.0	40	40	1.39	1.39	1.39	83.68	2.7481	2.7532	0.0051	60.9				
	3-Jan-09	Cloudy	0.5N	15	535689	535789	60.0	40	40	1.39	1.39	1.39	83.68	2.8578	2.8649	0.0071	84.8	69.7		Set up pilling	Nil
		Cloudy Sunny	0.5N 0.6N	15	535789 535889	535889 535990	60.0 60.6	40	40 40	1.39	1.39	1.39	83.68 84.52	2.8479	2.8532 2.8704	0.0053	63.3 72.2				
	9-Jan-09	Sunny	0.6N 0.6N	12	535889 535990	535990 536085	60.6 57.0	40	40	1.39	1.39	1.39	79.50	2.8643	2.8704	0.0061	72.2 168.6	120.9		Piling	Nil
		Sunny	0.6N	12	536085	536186	60.6	40	40	1.39	1.39	1.39	84.52	2.8531	2.8634	0.0103	121.9	1-410			
		Sunny	0.7N	14	536189	536289	60.0	40	40	1.39	1.39	1.39	83.68	2.8818	2.8872	0.0054	64.5				
	15-Jan-09	Sunny	0.7N	14	536289	536389	60.0	40	40	1.39	1.39	1.39	83.68	2.8656	2.8721	0.0065	77.7	75.7		Piling	Nil
Hong Hoi Chee Hong Temple - Intake (ASR3)		Sunny	0.7N 0.4NE	14	536389 536489	536489	60.0	40	40	1.39	1.39	1.39	83.68 83.68	2.8336	2.8407 2.8715	0.0071	84.8 77.7		327.4/500		
remple intake (violito)	21-Jan-09	Sunny	0.4NE	17	536589	536589 536689	60.0 60.0	40	40	1.39	1.39	1.39	83.68	2.8650 2.8357	2.8405	0.0065	57.4	66.1		Piling , breaking by backhoe	Nil
		Sunny	0.4NE	17	536689	536789	60.0	40	40	1.39	1.39	1.39	83.68	2.9074	2.9127	0.0053	63.3			Nil	
		Fine	0.5N	16	536789	536889	60.0	40	40	1.39	1.39	1.39	83.68	2.8428	2.8492	0.0064	76.5				
	24-Jan-09	Fine	0.5N	16	536889	536989	60.0	40	40	1.39	1.39	1.39	83.68	2.8792	2.8854	0.0062	74.1	78.1			Nil
		Fine Cloudy	0.5N 0.4NE	16 16	536989 537089	537089 537189	60.0	40 40	40 40	1.39	1.39	1.39	83.68 83.68	2.886 2.8768	2.893 2.8805	0.0070	83.7 44.2				
	29-Jan-09	Cloudy	0.4NE	16	537089	537189	60.0	40	40	1.39	1.39	1.39	83.68	2.8586	2.865	0.0064	76.5	72.9		Nil	Nil
		Cloudy	0.4NE	16	537289	537389	60.0	40	40	1.39	1.39	1.39	83.68	2.8728	2.881	0.0082	98.0	-			
		Cloudy	0.5E	15	590693	590793	60.0	40	40	1.37	1.37	1.37	81.91	2.8858	2.891	0.0052	63.5				
	3-Jan-09	Cloudy	0.5E	15	590793	590893	60.0	40	40	1.37	1.37	1.37	81.91	2.8266	2.8337	0.0071	86.7	78.5		Excavation by backhoe	Traffic
		Cloudy Sunny	0.5E 0.6NE	15 16	590893 590993	590993 591093	60.0	40 40	40 40	1.37	1.37	1.37	81.91 81.91	2.8556 2.876	2.8626 2.8896	0.0070	85.5 166.0				
	9-Jan-09	Sunny	0.6NE	16	591093	591093	60.0	40	40	1.37	1.37	1.37	81.91	2.8116	2.8196	0.0080	97.7	138.8	Excavation by backhoe	Traffic	
		Sunny	0.6NE	16	591193	591293	60.0	40	40	1.37	1.37	1.37	81.91	2.8772	2.8897	0.0125	152.6			.,	
		Sunny	0.5NE	16	591293	591393	60.0	40	40	1.37	1.37	1.37	81.91	2.8372	2.8510	0.0138	168.5				
	15-Jan-09	Sunny	0.5NE	16	591393	591493	60.0	40	40	1.37	1.37	1.37	81.91	2.8079	2.8211	0.0132	161.2	162.0		Excavation by backhoe , breaking by backhoe	Traffic
Long Beach Gardens - Outfall (ASR8)		Sunny	0.5NE 0.5NE	16 17	591493 591593	591593 591693	60.0	40 40	40 40	1.37	1.37	1.37	81.91 81.91	2.8701 2.8758	2.8829 2.8845	0.0128	156.3 106.2		336.6/500		
Outrair (Alorio)	21-Jan-09	Sunny	0.5NE	17	591593	591693	60.0	40	40	1.37	1.37	1.37	81.91	2.8758	2.8845	0.0087	105.0	110.7		Excavation by backhoe , breaking by backhoe	Traffic
		Sunny	0.5NE	17	591793	591893	60.0	40	40	1.37	1.37	1.37	81.91	2.8250	2.8349	0.0099	120.9	-			
		Sunny	0.7NE	19	591893	591993	60.0	40	40	1.37	1.37	1.37	81.91	2.8308	2.8406	0.0098	119.6				
	24-Jan-09	Sunny	0.7NE	19	591993	592093	60.0	40	40	1.37	1.37	1.37	81.91	2.8533	2.8609	0.0076	92.8	106.6		Nil	Nil
		Sunny	0.7NE	19	592093	592193	60.0	40 40	40 40	1.37	1.37	1.37	81.91	2.8577	2.8665	0.0088	107.4				
	29-Jan-09	Cloudy	0.6E	18	592193 592293	592293 592393	60.0	40	40	1.37	1.37	1.37	81.91 81.91	2.8476	2.8570 2.8537	0.0094	114.8 112.3	117.6		Nil	Nii
		Cloudy	0.6E	18	592393	592493	60.0	40	40	1.37	1.37	1.37	81.91	2.8256	2.8359	0.0103	125.8				
		Cloudy	0.9E	15	522593	522693	60.0	40	40	1.26	1.26	1.26	75.69	2.9015	2.9057	0.0042	55.5				
	3-Jan-09	Cloudy	0.9E	15 15	522693	522793	60.0	40	40	1.26	1.26	1.26	75.69	2.8523	2.8566	0.0043	56.8	58.6		Excavation by backhoe	Traffic
		Cloudy Sunny	0.9E 0.6NE	15	522793 522893	522893 522993	60.0	40	40	1.26	1.26	1.26	75.69 75.69	2.8493 2.8643	2.8541 2.873	0.0048	63.4 114.9				
	9-Jan-09	Sunny	0.6NE	16	522993	523093	60.0	40	40	1.26	1.26	1.26	75.69	2.8891	2.8939	0.0048	63.4	94.7		Excavation by backhoe	Traffic
		Sunny	0.6NE	16	523093	523193	60.0	40	40	1.26	1.26	1.26	75.69	2.8747	2.8827	0.0080	105.7				
	45.1.00	Sunny	0.8NE	16	523193	523293	60.0	40	40	1.26	1.26	1.26	75.69	2.8215	2.8301	0.0086	113.6	100.0			7 /6
C	15-Jan-09	Sunny	0.8NE 0.8NE	16 16	523293 523393	523393 523493	60.0	40 40	40 40	1.26	1.26	1.26	75.69 75.69	2.7924 2.8655	2.8002 2.8737	0.0078	103.1 108.3	108.3		Excavation by backhoe , breaking by backhoe	Traffic
Greenview Terrance - Outfall (ASR9)		Sunny	0.8NE 0.7NE	16	523393 523493	523493 523593	60.0	40	40	1.26	1.26	1.26	75.69 75.69	2.8655	2.8737	0.0082	108.3 67.4		329.2/500		
	21-Jan-09	Sunny	0.7NE	17	523493	523593	60.0	40	40	1.26	1.26	1.26	75.69	2.8739	2.8790	0.0051	59.5	66.1		Excavation by backhoe , breaking by backhoe	Traffic
		Sunny	0.7NE	17	523693	523793	60.0	40	40	1.26	1.26	1.26	75.69	2.8253	2.8307	0.0054	71.3	•		, , , , , , , , , , , , , , , , , , , ,	
		Sunny	1.2NE	19	523793	523893	60.0	40	40	1.26	1.26	1.26	75.69	2.8696	2.8756	0.0060	79.3				
	24-Jan-09	Sunny	1.2NE	19	523893	523993	60.0	40	40	1.26	1.26	1.26	75.69	2.8734	2.8786	0.0052	68.7	76.6		Nil	Nii
		Sunny	1.2NE 1.0E	19 18	523993 524093	524093 524193	60.0	40 40	40 40	1.26	1.26	1.26	75.69 75.69	2.833 2.8076	2.8392 2.8154	0.0062	81.9 103.1				
	29-Jan-09	Cloudy	1.0E	18	524093	524193	60.0	40	40	1.26	1.26	1.26	75.69	2.8076	2.8154	0.0078	111.0	109.7		Nil	Nil
L		Cloudy	1.0E	18	524293	524393	60.0	40	40	1.26	1.26	1.26	75.69	2.8514	2.8601	0.0087	114.9				
						_															

Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Air Quality Monitoring (1-hr TSP) Results at Sik Sik Yuen Ho Fung College - Intake (ASR1)
Oct-08 to Jan-09



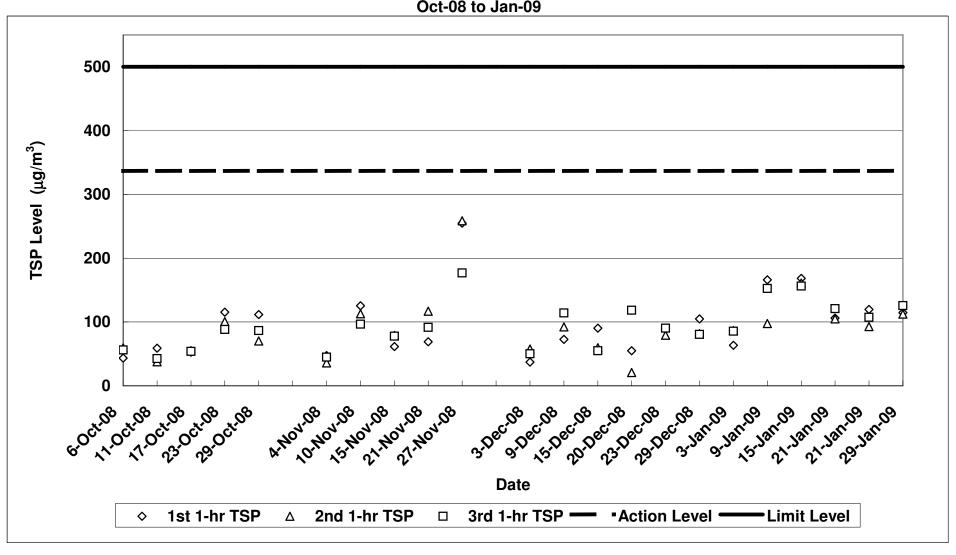
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Air Quality Monitoring (1-hr TSP) Results at Hong Hoi Chee Hong Temple - Intake (ASR3)

Oct-08 to Jan-09



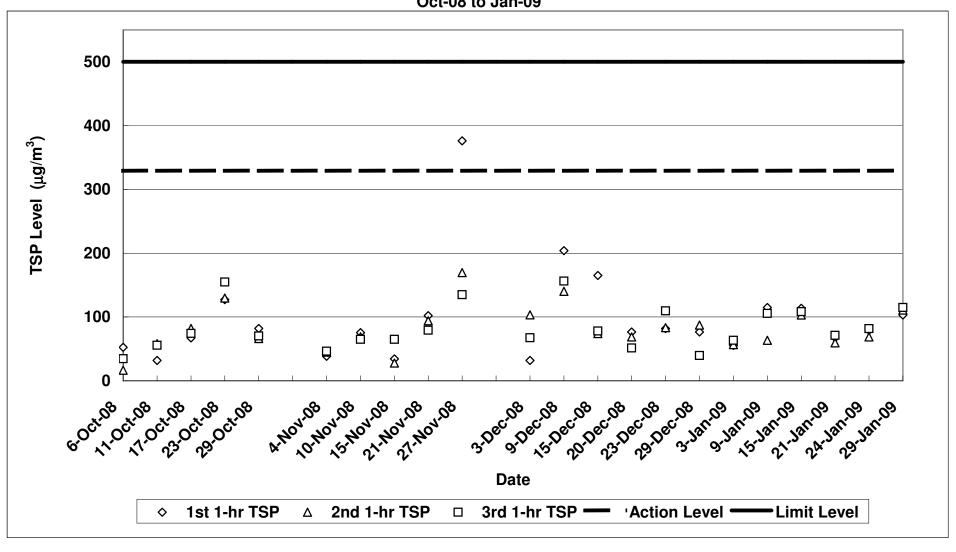
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Air Quality Monitoring (1-hr TSP) Results at Long Beach Gardens - Outfall (ASR8)

Oct-08 to Jan-09



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

Oct-08 to Jan-09



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

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

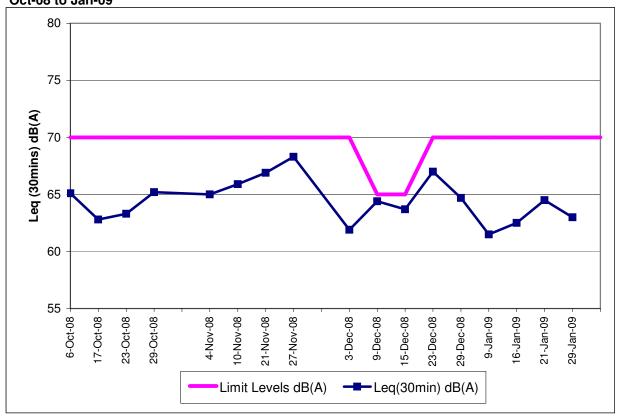
Monitoring Locations	Date	Weather	Temperature	Wind Speed	Wind	Start Time	End Time	BL <sup>1</sup>	LL <sup>2</sup>	L <sub>eq(30min)</sub>	L <sub>10(30min)</sub>	L <sub>90(30min)</sub>	CNL <sup>3</sup>	Observation /	Remark
		Conditions	(°C)	(m/s)	Direction			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Site Condition	
Sik Sik Yuen Ho Fung College	9-Jan-09	Sunny	12	0.7	E	8:30	9:00		70	61.5	64.8	57.8	-	Site tidiness	Traffic noise
NSR 1	16-Jan-09	Sunny	14	0.6	NE	11:30	12:00		70	62.5	65.4	57.9	-	Nil	Traffic noise, human activity
	21-Jan-09	Sunny	23	0.7	NE	16:38	17:08	66.1	70	64.5	67.5	59.9	-	Nil	Traffic noise
	29-Jan-09	Cloudy	15	0.5	NE	11:30	12:00		70	63.0	65.8	60.3	-	Nil	Traffic noise
	-	-	-	-	-	-	-		-	-	-	-	-	-	-
Hong Hoi Chee Hong Temple	9-Jan-09	Sunny	12	0.6	N	11:30	12:00		75	71.1	72.9	68.1	-	Piling	Nil
NSR 3	16-Jan-09	Sunny	14	0.5	NE	11:30	12:00		75	71.4	74.3	68.4	-	Piling	Traffic noise
	21-Jan-09	Sunny	18	0.4	NE	11:30	12:00	57.9	75	66.1	69.1	63.0	-	Piling	Traffic noise, water fall
	29-Jan-09	Cloudy	15	0.4	NE	11:30	12:00		75	60.0	62.8	56.7	-	Nil	Traffic noise
	-	-	-	-	-	-	-		-	-	-	-	-	-	-
Squatters	9-Jan-09	Sunny	12	0.6	N	13:05	13:35		75	63.6	66.4	60.5	-	Nil	Dog Darking
NSR 6	16-Jan-09	Sunny	15	0.3	NE	13:05	13:35		75	63.7	66.7	60.7	-	Nil	Dog Darking
	21-Jan-09	Sunny	22	0.4	NE	15:30	16:00	61.2	75	65.7	67.4	63.1	-	Nil	Dog Darking
	29-Jan-09	Cloudy	18	0.3	NE	15:15	15:45		75	59.5	62.6	56.5	-	Nil	Nil
	-	-	-	-	-	-	-		-	-	-	-	-	-	-
Long Beach Gardens	9-Jan-09	Sunny	15	0.6	NE	13:50	14:20		75	64.2	67.3	58.9	-	Excavation by backhoe	Traffic noise
NSR 8	16-Jan-09	Sunny	16	0.5	NE	13:00	13:30		75	64.7	67.0	60.7	-	Nil	Traffic noise
	21-Jan-09	Sunny	18	0.5	NE	9:20	9:50	60.9	75	64.6	68.8	58.4	-	Excavation by backhoe, breaking by backhoe	Traffic noise
	29-Jan-09	Cloudy	18	0.6	E	14:25	14:55		75	58.8	60.6	56.5	-	Nil	Traffic noise
	-	-	-	-	-	-	-		-	-	-	-	-	-	-
Greenview Terrace	9-Jan-09	Sunny	15	0.6	NE	14:50	15:20		75	61.4	64.3	57.6	-	Excavation by backhoe	Traffic noise
NSR 9	16-Jan-09	Sunny	16	0.8	NE	14:55	15:25		75	66.7	69.0	62.3	-	Excavation by backhoe, breaking by backhoe	Traffic noise
	21-Jan-09	Sunny	18	0.4	NE	10:20	10:50	59.7	75	66.0	68.6	63.1	-	Excavation by backhoe, breaking by backhoe	Traffic noise
	29-Jan-09	Cloudy	18	1	E	15:25	15:55		75	51.9	53.6	50.0	-	Nil	Traffic noise
	-	-	-	-	-	-	-		-	-	-	-	-	-	-

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

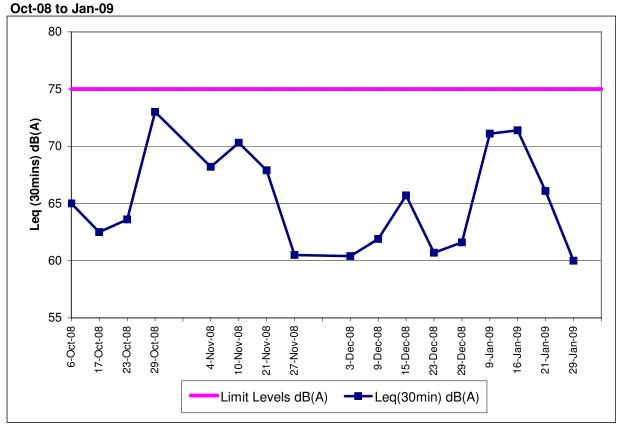
Note: The limit level of NSR1 is 65dB(A) during school examination period. Red Bold indicates an exceedance of Limit Level

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

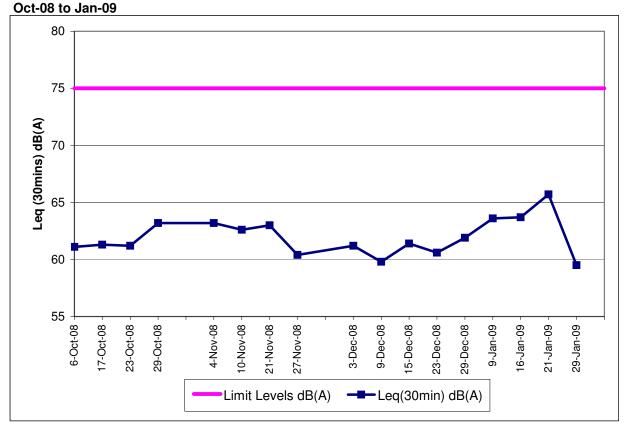
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Noise Monitoring Results at Sik Sik Yuen Ho Fung College (NSR 1) Oct-08 to Jan-09



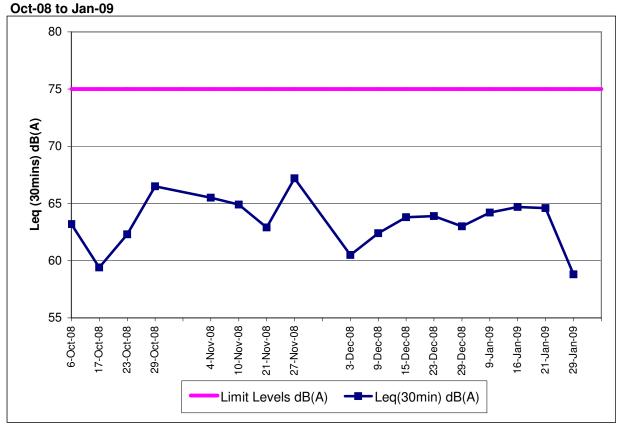
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Noise Monitoring Results at Hong Hoi Chee Hong Temple (NSR 3)



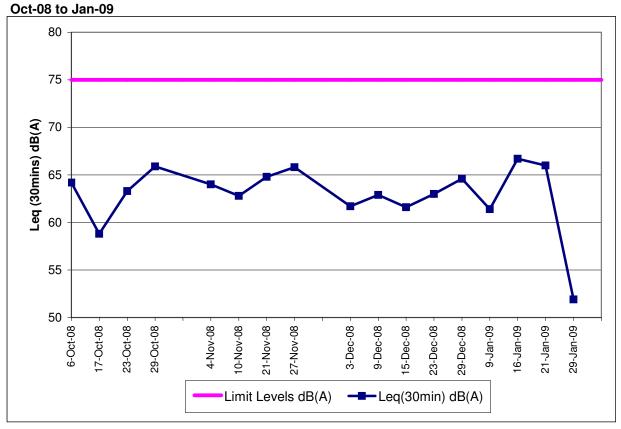
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Noise Monitoring Results at Squatters (NSR 6)



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



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



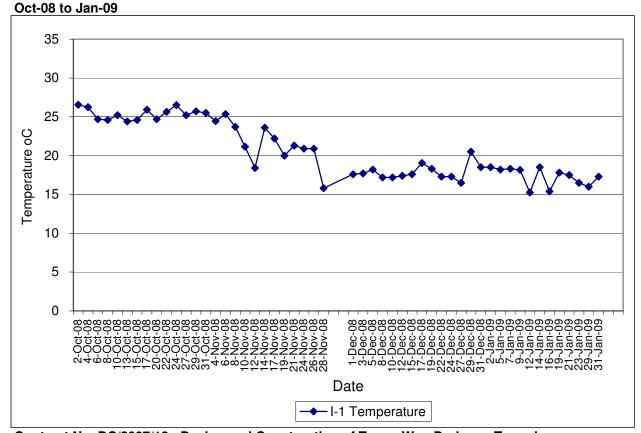
#### Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel

Water Quality Impact Monitoring Results

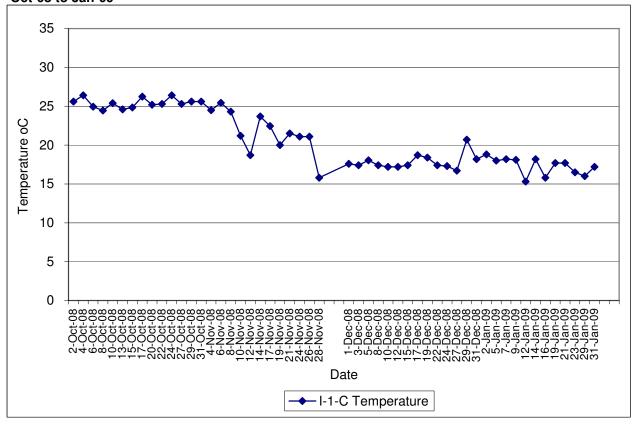
Monitoring Locations	Date Start Weather		Temp			Action/Limit	pH		Turbidity		Action/Limit	SS (mg		Action/Limit	Remarks:	Action to be taken
0". 0". V	Time	Depth(m) 1	2 Avg			Level of DO(mg/L)			1 2		Level of Tby	1 2		Level of SS(mg/L)	A PI	A1"
Sik Sik Yuen Ho Fung College	2-Jan-09 9:05 Sunny 5-Jan-09 9:50 Sunny		18.50 18.50 18.20 18.20		4.75 4.76 4.88 4.87		7.77 7.77 7.22 7.22					2.0 2.0 2.0 2.0	2.0		NII	NII
I- I	7-Jan-09 9:35 Sunny		18.30 18.30						4.18 4.22			2.0 2.0			Excavation by backhoe	Nii
	9-Jan-09 9:20 Sunny		18.20 18.15		4.42 4.43		7.75 7.76		4.01 4.02			4.2 3.9	4.1		Nii	Nii
	12-Jan-09 9:45 Sunny		15.20 15.25		5.75 5.74		7.55 7.55		5.44 5.42			2.0 2.0	2.0		Nil	Nil
	14-Jan-09 9:38 Sunny	<1 18.50			4.83 4.83		7.55 7.53		4.68 4.62			4.0 4.1	4.1		Nil	Nil
	16-Jan-09 9:38 Sunny		15.40 15.40		5.30 5.32	3.42 / 3.34	7.43 7.43		5.07 5.10		9.75 / 12.47	2.0 2.0	2.0	8.85 / 10.17	Nil	Nil
	19-Jan-09 9:38 Sunny	<1 17.80	17.80 17.80	4.52 4	4.54 4.53	3.42 / 3.34	7.73 7.75	7.74	5.22 5.19	5.21		2.0 2.0	2.0		Nil	Nil
	21-Jan-09 13:48 Sunny		17.50 17.50		5.86 5.87		7.52 7.51	7.52	4.22 4.24	4.23		2.0 2.0	2.0		Nil	Nil
	23-Jan-09 9:36 Sunny		16.50 16.50		5.57 5.55		7.71 7.71					2.0 2.0			Nil	Nil
	29-Jan-09 13:35 Cloudy			6.46			7.73 7.73		5.32 5.38			3.7 3.5	3.6		Nil	Nil
	31-Jan-09 9:22 Sunny	<1 17.30	17.30 17.30	6.22 6	6.27 6.25		8.03 8.03	8.03	5.15 5.11	5.13		3.7 4.2	4.0		Nil	Nil
				-	-					-			-		•	-
Sik Sik Yuen Ho Fung College	2-Jan-09 9:36 Sunny	<1 18.80	18.80 18.80	167 /	4.65 4.66		7.72 7.72	7 72	121 122	1 22		2.0 2.0	2.0		- Nii	Nii
I-1-C	5-Jan-09 9:29 Sunny		18.00 18.00		4.93 4.92		7.22 7.20		3.86 3.89			2.0 2.0	2.0		Nil	Nil
	7-Jan-09 9:20 Sunny	<1 18.20			4.92 4.94		7.77 7.77		4.23 4.35			2.0 2.0	2.0		Nil	Nil
	9-Jan-09 9:00 Sunny				4.17 4.18		7.72 7.74		3.96 3.98	3.97		3.6 4.2	3.9		Nil	Nil
	12-Jan-09 9:15 Sunny		15.30 15.30		5.86 5.85		7.53 7.53	7.53	5.47 5.46	5.47		2.0 2.0	2.0		Nil	Nil
	14-Jan-09 9:13 Sunny		18.20 18.20		4.93 4.92	- /-	7.56 7.56		4.72 4.74			3.8 4.1	4.0		Nil	Nil
	16-Jan-09 9:17 Sunny		15.80 15.80		5.43 5.45		7.42 7.42		5.12 5.18	5.15	- /-	2.0 2.0	2.0	- /-	Nil	Nil
	19-Jan-09 9:15 Sunny	<1 17.70			4.64 4.63		7.55 7.53		5.31 5.22	5.27		2.0 2.0	2.0		Nil	Nil
	21-Jan-09 13:20 Sunny 23-Jan-09 9:15 Sunny	<1 17.70 <1 16.50	17.70 17.70 16.50 16.50		5.42 5.49 5.43 5.42		7.21 7.22 7.73 7.73		4.32 4.53 5.24 5.30			2.0 2.0 2.0 2.0	2.0		NII Nii	INII Nii
	29-Jan-09 9:15 Sunny 29-Jan-09 13:09 Cloudy	<1 16.50			5.43 5.42 6.53 6.53		7.73 7.73		5.24 5.30	5.27		2.0 2.0 3.9 4.2	4.1		Nii	Nil
1	31-Jan-09 9:15 Sunny	<1 17.20			6.32 6.33		8.01 8.12	8.07	5.26 5.24			5.3 5.6	5.5		Nil	Nil
1								-		-			-		-	-
1				-				-		-			-		-	-
Hong Hoi Chee Hong Temple	2-Jan-09 10:36 Sunny		18.30 18.30		4.73 4.74		7.73 7.73					2.0 2.0	2.0		Piling setting	Nil
I-2	5-Jan-09 10:55 Sunny	<1 18.50	18.50 18.50	4.53 4	4.56 4.55		7.40 7.40	7.40	5.18 5.27	5.23		2.0 2.0	2.0		Piling setting, excavation by backhoe	Nil
1	7-Jan-09 10:50 Sunny		17.80 17.80		4.72 4.71		7.44 7.44					2.0 2.0			Piling setting	Nil
	9-Jan-09 10:20 Sunny		17.30 17.30				7.26 7.24					4.9 5.5			Piling setting	Nil
	12-Jan-09 10:40 Sunny		15.00 15.00		5.57 5.55				4.67 4.65			2.0 2.0			Piling setting	Nil
	14-Jan-09 10:36 Sunny		14.30 14.30				7.63 7.62		4.10 4.08			2.8 2.8	2.8		Piling setting	NII
	16-Jan-09 10:35 Sunny 19-Jan-09 11:46 Sunny	<1 15.30 <1 19.70	15.20 15.25 19.70 19.70		4.85 4.83 4.19 4.18	3.66 / 3.63	7.32 7.33 7.55 7.55		4.33 4.38 5.24 5.22		6.63 / 6.99	2.0 2.0 2.0 2.0	2.0	7.68 / 8.34	Piling setting Piling setting	Nii
	21-Jan-09 10:50 Sunny				4.52 4.57		7.55 7.55		4.27 4.20			2.0 2.0	2.0		Piling	NII
	23-Jan-09 10:37 Sunny		16.50 16.50		5.21 5.23		7.70 7.70		5.16 5.14			2.0 2.0	2.0		Nil	Nil
	29-Jan-09 10:48 Cloudy		16.00 16.00				7.72 7.72		5.22 5.24			3.7 3.6	3.7		Nil	Nil
	31-Jan-09 10:52 Sunny				6.38 6.38		7.82 7.82		5.42 5.47			2.0 2.0	2.0		Nil	Nil
				-				-		-			-		-	-
				-				-		-			-		-	-
Hong Hoi Chee Hong Temple	2-Jan-09 10:50 Sunny		18.50 18.50				7.42 7.44					2.0 2.0			Nil	Nil
I-2-C	5-Jan-09 10:35 Sunny				4.71 4.70		7.43 7.43		5.22 5.31 3.77 3.86			2.0 2.0 2.0 2.0	2.0		Nil	Nil
							7 40 7 40					20 1 20	2.0			
	7-Jan-09 10:35 Sunny		18.00 18.00		4.68 4.67										NII	Nil Nii
	9-Jan-09 10:00 Sunny	<1 17.40	17.30 17.35	4.77 4	4.73 4.75		7.23 7.25	7.24	3.82 3.84	3.83		3.6 4.8	4.2		NII NII NII	Nil Nii Nii
	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny	<1 17.40 <1 15.20	17.30 17.35 15.20 15.20	4.77 4 5.62 5	4.73 4.75 5.58 5.60		7.23 7.25 7.44 7.45	7.24 7.45	3.82 3.84 4.77 4.72	3.83 4.75		3.6 4.8 2.0 2.0	4.2 2.0		NII Nii Nii	Nii Nii Nii
	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny 14-Jan-09 10:16 Sunny	<1 17.40 <1 15.20 <1 14.50	17.30 17.35 15.20 15.20 14.30 14.40	4.77 4 5.62 5 5.32 5	4.73 4.75	,	7.23 7.25	7.24 7.45 7.56	3.82 3.84	3.83 4.75 4.12	,	3.6 4.8 2.0 2.0 2.8 3.0	4.2	,	NII NiI NiI NiI	Nii Nii Nii Nii
	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny	<1 17.40 <1 15.20 <1 14.50 <1 15.80	17.30 17.35 15.20 15.20 14.30 14.40	4.77 4 5.62 5 5.32 5 4.73 4	4.73 4.75 5.58 5.60 5.38 5.35	- /-	7.23 7.25 7.44 7.45 7.56 7.56	7.24 7.45 7.56 7.33	3.82 3.84 4.77 4.72 4.12 4.12	3.83 4.75 4.12 4.29	-/-	3.6 4.8 2.0 2.0	4.2 2.0 2.9 2.0	- /-	NII NII NII NII NII	Nii Nii Nii Nii Nii
	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny 14-Jan-09 10:16 Sunny 16-Jan-09 10:20 Sunny 19-Jan-09 10:20 Sunny 21-Jan-09 11:15 Sunny	<1 17.40 <1 15.20 <1 14.50 <1 15.80 <1 19.60 <1 17.50	17.30 17.35 15.20 15.20 14.30 14.40 15.80 15.80 19.60 19.60 17.50 17.50	4.77 4 5.62 5 5.32 5 4.73 4 4.04 4 4.48 4	4.73 4.75 5.58 5.60 5.38 5.35 4.76 4.75 4.07 4.06 4.52 4.50	- /-	7.23 7.25 7.44 7.45 7.56 7.56 7.33 7.33 7.56 7.56 7.72 7.72	7.24 7.45 7.56 7.33 7.56 7.72	3.82 3.84 4.77 4.72 4.12 4.12 4.28 4.30 5.35 5.33 4.18 4.22	3.83 4.75 4.12 4.29 5.34 4.20	-/-	3.6 4.8 2.0 2.0 2.8 3.0 2.0 2.0 2.0 2.0 2.0 2.0	4.2 2.0 2.9 2.0 2.0 2.0	- /-	NII NII NII NII NII NII Piling	Nii Nii Nii Nii Nii Nii
	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny 14-Jan-09 10:16 Sunny 16-Jan-09 10:20 Sunny 19-Jan-09 10:20 Sunny 21-Jan-09 11:15 Sunny 23-Jan-09 10:16 Sunny	<1 17.40 <1 15.20 <1 14.50 <1 15.80 <1 19.60 <1 17.50 <1 16.30	17.30 17.35 15.20 15.20 14.30 14.40 15.80 15.80 19.60 19.60 17.50 17.50 16.30 16.30	4.77 4 5.62 5 5.32 5 4.73 4 4.04 4 4.48 4 5.31 5	4.73 4.75 5.58 5.60 5.38 5.35 4.76 4.75 4.07 4.06 4.52 4.50 5.33 5.32	- /-	7.23 7.25 7.44 7.45 7.56 7.56 7.33 7.33 7.56 7.56 7.72 7.72 7.71 7.71	7.24 7.45 7.56 7.33 7.56 7.72 7.71	3.82 3.84 4.77 4.72 4.12 4.12 4.28 4.30 5.35 5.33 4.18 4.22 5.21 5.17	3.83 4.75 4.12 4.29 5.34 4.20 5.19	- /-	3.6 4.8 2.0 2.0 2.8 3.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	4.2 2.0 2.9 2.0 2.0 2.0 2.0 2.0	- /-	NII	Nii
	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny 14-Jan-09 10:16 Sunny 16-Jan-09 10:20 Sunny 19-Jan-09 10:20 Sunny 21-Jan-09 10:15 Sunny 23-Jan-09 10:16 Sunny 29-Jan-09 10:15 Cloudy	<1 17.40 <1 15.20 <1 14.50 <1 19.60 <1 17.50 <1 16.30 <1 16.30	17.30 17.35 15.20 15.20 14.30 14.40 15.80 15.80 19.60 19.60 17.50 17.50 16.30 16.30 16.20 16.20	4.77 4 5.62 5 5.32 5 4.73 4 4.04 4 4.48 4 5.31 5 6.40 6	4.73 4.75 5.58 5.60 5.38 5.35 4.76 4.75 4.07 4.06 4.52 4.50 5.33 5.32 6.38 6.39	- /-	7.23 7.25 7.44 7.45 7.56 7.56 7.33 7.33 7.56 7.56 7.72 7.72 7.71 7.71 7.71 7.71	7.24 7.45 7.56 7.33 7.56 7.72 7.71 7.71	3.82 3.84 4.77 4.72 4.12 4.12 4.28 4.30 5.35 5.33 4.18 4.22 5.21 5.17 5.30 5.28	3.83 4.75 4.12 4.29 5.34 4.20 5.19 5.29	-/-	3.6 4.8 2.0 2.0 2.8 3.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 4.0 3.6	4.2 2.0 2.9 2.0 2.0 2.0 2.0 2.0 3.8	- /-	NII NII NII NII NII NII PIIIII NII NII PIIIII	NII
	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny 14-Jan-09 10:16 Sunny 16-Jan-09 10:20 Sunny 19-Jan-09 10:20 Sunny 21-Jan-09 11:15 Sunny 23-Jan-09 10:16 Sunny	<1 17.40 <1 15.20 <1 14.50 <1 19.60 <1 17.50 <1 16.30 <1 16.30	17.30 17.35 15.20 15.20 14.30 14.40 15.80 15.80 19.60 19.60 17.50 17.50 16.30 16.30	4.77 4 5.62 5 5.32 5 4.73 4 4.04 4 4.48 4 5.31 5 6.40 6	4.73 4.75 5.58 5.60 5.38 5.35 4.76 4.75 4.07 4.06 4.52 4.50 5.33 5.32 6.38 6.39	- <i> -</i>	7.23 7.25 7.44 7.45 7.56 7.56 7.33 7.33 7.56 7.56 7.72 7.72 7.71 7.71	7.24 7.45 7.56 7.33 7.56 7.72 7.71 7.71	3.82 3.84 4.77 4.72 4.12 4.12 4.28 4.30 5.35 5.33 4.18 4.22 5.21 5.17	3.83 4.75 4.12 4.29 5.34 4.20 5.19 5.29	-/-	3.6 4.8 2.0 2.0 2.8 3.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	4.2 2.0 2.9 2.0 2.0 2.0 2.0 3.8 2.0	- /-	NII	Nii
	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny 14-Jan-09 10:16 Sunny 16-Jan-09 10:20 Sunny 19-Jan-09 10:20 Sunny 21-Jan-09 10:15 Sunny 23-Jan-09 10:16 Sunny 29-Jan-09 10:15 Cloudy	<1 17.40 <1 15.20 <1 14.50 <1 19.60 <1 17.50 <1 16.30 <1 16.30	17.30 17.35 15.20 15.20 14.30 14.40 15.80 15.80 19.60 19.60 17.50 17.50 16.30 16.30 16.20 16.20	4.77 4 5.62 5 5.32 5 4.73 4 4.04 4 4.48 4 5.31 5 6.40 6	4.73 4.75 5.58 5.60 5.38 5.35 4.76 4.75 4.07 4.06 4.52 4.50 5.33 5.32 6.38 6.39	- /-	7.23 7.25 7.44 7.45 7.56 7.56 7.33 7.33 7.56 7.56 7.72 7.72 7.71 7.71 7.71 7.71	7.24 7.45 7.56 7.33 7.56 7.72 7.71 7.71	3.82 3.84 4.77 4.72 4.12 4.12 4.28 4.30 5.35 5.33 4.18 4.22 5.21 5.17 5.30 5.28	3.83 4.75 4.12 4.29 5.34 4.20 5.19 5.29	- /-	3.6 4.8 2.0 2.0 2.8 3.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 4.0 3.6	4.2 2.0 2.9 2.0 2.0 2.0 2.0 2.0 3.8	- /-	NII	Nii
Squatters	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny 14-Jan-09 10:16 Sunny 16-Jan-09 10:20 Sunny 19-Jan-09 10:20 Sunny 21-Jan-09 10:16 Sunny 23-Jan-09 10:16 Sunny 29-Jan-09 10:15 Cloudy 31-Jan-09 10:15 Sunny	<1 17.40 <1 15.20 <1 14.50 <1 19.60 <1 17.50 <1 17.50 <1 16.30 <1 17.20 <1 17.20	17.30 17.35 15.20 15.20 15.20 14.30 14.40 15.80 15.80 19.60 19.60 17.50 17.50 16.30 16.30 16.20 16.20 17.20 17.20	4.77 4 5.62 5 5.32 5 4.73 4 4.04 4 4.48 4 5.31 6 6.40 6 6.23 6	4.73 4.75 5.58 5.60 5.38 5.35 4.76 4.75 4.07 4.06 4.52 4.50 5.33 5.32 6.38 6.39 6.19 6.21	- /-	7.23 7.25 7.44 7.45 7.56 7.56 7.33 7.33 7.56 7.56 7.72 7.72 7.71 7.71 7.71 7.71 7.82 7.82	7.24 7.45 7.56 7.33 7.56 7.72 7.71 7.71 7.82	3.82 3.84 4.77 4.72 4.12 4.12 4.28 4.30 5.35 5.33 4.18 4.22 5.21 5.17 5.30 5.28 5.63 5.66	3.83 4.75 4.12 4.29 5.34 4.20 5.19 5.29 5.65	-/-	3.6 4.8 2.0 2.0 2.8 3.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 4.0 3.6 2.0 2.0	4.2 2.0 2.9 2.0 2.0 2.0 2.0 2.0 3.8 2.0	- /-	NII	Nii
Squatters I-3	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny 14-Jan-09 10:16 Sunny 16-Jan-09 10:20 Sunny 19-Jan-09 10:20 Sunny 21-Jan-09 11:15 Sunny 23-Jan-09 10:16 Sunny 29-Jan-09 10:15 Cloudy 31-Jan-09 10:15 Sunny	<1 17.40 <1 15.20 <1 14.50 <1 19.60 <1 17.50 <1 16.30 <1 16.20 <1 17.20 <1 17.20 <1 17.20	17.30 17.35 15.20 15.20 14.30 14.40 15.80 15.80 19.60 19.60 17.50 17.50 16.30 16.30 16.20 16.20 17.20 17.20	4.77 4 5.62 5 5.32 5 4.73 4 4.04 4 4.48 4 5.31 5 6.40 6 6.23 6	4.73 4.75 5.58 5.60 5.38 5.35 4.76 4.75 4.07 4.06 4.52 4.50 5.33 5.32 6.38 6.39 6.19 6.21	- /-	7.23 7.25 7.44 7.45 7.56 7.56 7.33 7.33 7.56 7.56 7.72 7.72 7.71 7.71 7.71 7.71	7.24 7.45 7.56 7.33 7.56 7.72 7.71 7.71 7.82	3.82 3.84 4.77 4.72 4.12 4.12 4.28 4.30 5.35 5.33 4.18 4.22 5.21 5.17 5.30 5.28 5.63 5.66 	3.83 4.75 4.12 4.29 5.34 4.20 5.19 5.29 5.65	-/-	3.6 4.8 2.0 2.0 2.8 3.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 4.0 3.6 2.0 2.0	4.2 2.0 2.9 2.0 2.0 2.0 2.0 2.0 2.0 - - - 2.0	- /-	NII NII NII NII NII NII NII NII NII Piling NII NII NII NII NII NII NII NII N	Nii
	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny 14-Jan-09 10:16 Sunny 16-Jan-09 10:20 Sunny 19-Jan-09 10:20 Sunny 21-Jan-09 11:15 Sunny 23-Jan-09 10:16 Sunny 29-Jan-09 10:15 Cloudy 31-Jan-09 10:15 Sunny	1   17.40     1   15.20     1   15.80     1   17.50     1   17.50     1   16.30     1   17.20     1   19.40     1   19.40     1   19.20     1   1   19.20     1   1   1   1     1   1   1   1     1   1	17.30 17.35 15.20 15.20 15.20 14.30 14.40 15.80 15.80 19.60 19.60 17.50 17.50 16.30 16.30 16.20 16.20 17.20 17.20 17.20 17.20 19.40 19.30 18.70 18.70 19.40 19.40	4.77 4 5.62 5 5.32 5 4.73 4 4.04 4 4.48 4 5.31 5 6.40 6 6.23 6 	4.73 4.75 5.58 5.60 5.38 5.35 4.76 4.75 4.07 4.06 4.52 4.50 5.33 5.32 6.38 6.39 6.19 6.21 	- /-	7.23 7.25 7.44 7.45 7.56 7.56 7.33 7.33 7.56 7.56 7.72 7.72 7.71 7.71 7.71 7.71 7.82 7.82 	7.24 7.45 7.56 7.33 7.56 7.72 7.71 7.71 7.82 - - - 7.52 7.42 7.80	3.82 3.84 4.77 4.72 4.12 4.12 4.28 4.30 5.35 5.33 4.18 4.22 5.21 5.17 5.30 5.28 5.63 5.66 	3.83 4.75 4.12 4.29 5.34 4.20 5.19 5.29 5.65 - - 3.43 3.14 3.57	-/-	3.6 4.8 2.0 2.0 2.8 3.0 2.0 2.0 2.0 2.0 2.0 2.0 4.0 3.6 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	4.2 2.0 2.9 2.0 2.0 2.0 2.0 3.8 2.0 - - 2.0 2.0 2.0	- /-	NII	Nii
	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny 14-Jan-09 10:16 Sunny 16-Jan-09 10:20 Sunny 19-Jan-09 10:20 Sunny 21-Jan-09 11:15 Sunny 23-Jan-09 10:16 Sunny 29-Jan-09 10:15 Cloudy 31-Jan-09 10:15 Sunny	17.40	17.30 17.35 15.20 15.20 14.30 14.40 15.80 15.80 19.60 19.60 17.50 17.50 16.30 16.30 16.20 16.20 17.20 17.20 17.20 17.20 19.40 19.30 18.70 18.70 19.40 19.40 18.90 18.95	4.77 4 5.62 5 5.32 5 4.73 4 4.04 4 4.48 4 5.31 5 6.40 6 6.23 6 	4.73 4.75 5.58 5.60 5.38 5.35 4.76 4.75 4.07 4.06 4.52 4.50 5.33 5.32 6.38 6.39 6.19 6.21 	- /-	7.23 7.25 7.44 7.45 7.56 7.56 7.57 7.56 7.50 7.56 7.72 7.72 7.71 7.71 7.71 7.71 7.82 7.82 	7.24 7.45 7.56 7.33 7.56 7.72 7.71 7.71 7.82 - - - 7.52 7.42 7.80 7.76	3.82 3.84 4.77 4.72 4.12 4.12 4.28 4.30 5.35 5.33 4.18 4.22 5.21 5.21 5.30 5.28 5.63 5.66 	3.83 4.75 4.12 4.29 5.34 4.20 5.19 5.29 5.65 - - 3.43 3.14 3.57 3.73	-/-	3.6 4.8 2.0 2.0 2.8 3.0 2.0 2.0 2.0 2.0 2.0 2.0 4.0 3.6 2.0 2.0  2.0	4.2 2.0 2.9 2.0 2.0 2.0 2.0 3.8 2.0 - - 2.0 2.0 2.0	- /-	NII NII NII NII NII NII NII NII PIIIIII NII N	Nii
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	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny 14-Jan-09 10:16 Sunny 16-Jan-09 10:20 Sunny 19-Jan-09 10:20 Sunny 21-Jan-09 10:15 Sunny 23-Jan-09 10:16 Sunny 29-Jan-09 10:15 Cloudy 31-Jan-09 10:15 Sunny	17.40	17.30 17.35 15.20 15.20 15.20 14.30 14.40 15.80 15.80 19.60 19.60 17.50 17.50 16.30 16.30 16.20 16.20 17.20 17.20 17.20 17.20 19.40 19.30 18.70 18.70 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40	4.77 4 5.62 5 5.32 5 4.73 4 4.04 4 4.48 4 5.31 5 6.40 6 6.23 6 4.37 4 4.88 4 4.88 4 4.61 4 5.47 5 4.85 4	4.73 4.75 5.58 5.60 5.38 5.35 4.76 4.75 4.07 4.06 4.52 4.50 5.33 5.32 6.38 6.39 6.19 6.21 	- /- 3.65 / 3.51	7.23 7.25 7.44 7.45 7.56 7.56 7.33 7.33 7.56 7.56 7.72 7.72 7.71 7.71 7.71 7.71 7.82 7.82 	7.24 7.45 7.56 7.56 7.72 7.71 7.71 7.71 7.82 - - 7.52 7.42 7.80 7.76 8.02 7.43	3.82 3.84 4.77 4.72 4.12 4.12 4.28 4.30 5.35 5.33 4.18 4.22 5.21 5.17 5.30 5.28 5.63 5.66 	3.83 4.75 4.12 4.29 5.34 4.20 5.19 5.29 5.65 - - 3.43 3.14 3.57 3.73 3.36 3.19	-/- 3.99 / 4.18	3.6 4.8 2.0 2.0 2.8 3.0 2.0 2.0 2.0 2.0 2.0 2.0 4.0 3.6 2.0	4.2 2.0 2.9 2.0 2.0 2.0 3.8 2.0 - 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	- /- 6.13 / 7.23	NII NII NII NII NII NII NII NII Piling NII NII NII NII NII NII I NII NII NII	130
	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny 14-Jan-09 10:16 Sunny 16-Jan-09 10:20 Sunny 19-Jan-09 10:20 Sunny 21-Jan-09 10:15 Sunny 23-Jan-09 10:15 Cloudy 31-Jan-09 10:15 Sunny	17.40	17.30 17.35 15.20 15.20 14.30 14.40 15.80 15.80 19.60 19.60 17.50 17.50 16.30 16.30 16.20 16.20 17.20 17.20 17.20 17.20 19.40 19.30 18.70 18.70 19.40 19.40 18.90 19.40 18.90 15.30 14.90 14.90 15.20 15.20 15.20 18.30	4.77 4 5.62 5 4.73 4 4.04 4 4.48 4 5.31 5 6.40 6 6.23 6 	4.73 4.75 5.58 5.60 5.38 5.35 4.76 4.75 4.07 4.06 4.52 4.50 5.33 5.32 6.38 6.39 6.19 6.21 		7.23 7.25 7.44 7.45 7.56 7.56 7.57 7.56 7.50 7.56 7.72 7.72 7.71 7.71 7.71 7.71 7.82 7.82 	7.24 7.45 7.56 7.33 7.56 7.72 7.71 7.71 7.82 - - - - - - - - - - - - - - - - - - -	3.82 3.84 4.77 4.72 4.12 4.12 4.28 4.30 5.35 5.33 4.18 4.22 5.21 5.17 5.30 5.28 5.63 5.66 	3.83 4.75 4.12 4.29 5.34 4.20 5.19 5.29 5.65 - - 3.43 3.14 3.57 3.73 3.36 3.46 3.49 3.29	-/- 3.99 / 4.18	3.6 4.8 2.0 2.0 2.8 3.0 2.0 2.0 2.0 2.0 2.0 2.0 4.0 3.6 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	4.2 2.0 2.9 2.0 2.0 2.0 2.0 3.8 2.0 - - 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0		NII NII NII NII NII NII NII Piling NII NII NII NII NII  NII NII NII NII N	130
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	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny 14-Jan-09 10:16 Sunny 16-Jan-09 10:20 Sunny 19-Jan-09 10:20 Sunny 21-Jan-09 10:15 Sunny 23-Jan-09 10:15 Cloudy 31-Jan-09 10:15 Sunny	17.40   17.4	17.30 17.35 15.20 15.20 14.30 14.40 15.80 15.80 19.60 19.60 17.50 17.50 16.30 16.30 16.20 16.20 17.20 17.20 17.20 17.20 19.40 19.30 18.70 18.70 19.40 19.40 18.90 19.40 18.90 15.30 14.90 14.90 15.20 15.20 15.20 18.30	4.77 4 5.62 5 4.73 4 4.04 4 4.48 4 5.31 5 6.40 6 6.23 6 	4.73 4.75 5.58 5.60 5.38 5.35 4.76 4.75 4.07 4.06 4.52 4.50 5.33 5.32 6.38 6.39 6.19 6.21 		7.23 7.25 7.44 7.45 7.56 7.56 7.57 7.56 7.50 7.56 7.72 7.72 7.71 7.71 7.71 7.71 7.82 7.82 	7.24 7.45 7.56 7.33 7.56 7.71 7.71 7.71 7.82 	3.82 3.84 4.77 4.72 4.12 4.12 4.28 4.30 5.35 5.33 4.18 4.22 5.21 5.17 5.30 5.28 5.63 5.66 	3.83 4.75 4.12 4.29 5.34 4.20 5.19 5.29 5.65 - - 3.43 3.14 3.57 3.73 3.36 3.19 3.29 3.34 3.31	-/- 3.99 / 4.18	3.6 4.8 2.0 2.0 2.8 3.0 2.0 2.0 2.0 2.0 2.0 2.0 4.0 3.6 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	4.2 2.0 2.9 2.0 2.0 2.0 3.8 2.0 - - 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0		NII NII NII NII NII NII NII NII PIIIII NII N	130
	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny 14-Jan-09 10:16 Sunny 19-Jan-09 10:20 Sunny 19-Jan-09 10:20 Sunny 21-Jan-09 10:15 Sunny 23-Jan-09 10:16 Sunny 29-Jan-09 10:15 Cloudy 31-Jan-09 10:15 Cloudy 31-Jan-09 10:15 Sunny	17.40   17.40   17.40   17.40   17.40   17.5	17.30 17.35 15.20 15.20 14.30 14.40 15.80 15.80 19.60 19.60 17.50 17.50 16.30 16.30 16.20 16.20 17.20 17.20 17.20 17.20 19.40 19.40 18.70 18.70 18.70 18.95 15.30 15.30 15.20 15.20 15.20 15.20 18.30 18.30 17.70 17.70 16.70 16.70	4.77 4 5.62 5 4.73 4 4.04 4 4.48 4 5.31 5 6.40 6 6.23 6 	4.73 4.75 5.58 5.60 5.38 5.35 4.76 4.75 4.07 4.06 4.52 4.50 5.33 5.32 6.38 6.39 6.19 6.21 		7.23 7.25 7.44 7.45 7.56 7.56 7.33 7.33 7.56 7.56 7.72 7.72 7.71 7.71 7.71 7.71 7.82 7.82 	7.24 7.45 7.56 7.33 7.56 7.72 7.71 7.71 7.82 - - 7.52 7.42 7.83 8.02 7.45 7.45 7.45 7.55 7.47	3.82 3.84 4.77 4.72 4.12 4.12 4.28 4.30 5.35 5.33 4.18 4.22 5.21 5.21 5.30 5.28 5.63 5.66 	3.83 4.75 4.12 4.29 5.34 4.20 5.19 5.29 5.65 - - 3.43 3.14 3.57 3.73 3.36 3.46 3.19 3.29 3.34 3.31 3.31 3.31 3.32	-/- 3.99 / 4.18	3.6 4.8 2.0 2.0 2.8 3.0 2.0 2.0 2.0 2.0 2.0 2.0 4.0 3.6 2.0 2.0 	4.2 2.0 2.9 2.0 2.0 2.0 2.0 3.8 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0		NII NII NII NII NII NII NII NII Piling NII NII NII NII NII NII NII NII NII NI	130
	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny 14-Jan-09 10:16 Sunny 16-Jan-09 10:20 Sunny 19-Jan-09 10:20 Sunny 21-Jan-09 10:20 Sunny 23-Jan-09 10:16 Sunny 29-Jan-09 10:15 Cloudy 31-Jan-09 10:15 Sunny	17.40   17.40   17.40   17.40   17.40   17.5	17.30 17.35 15.20 15.20 14.30 14.40 15.80 15.80 19.60 19.60 17.50 17.50 16.30 16.30 16.20 16.20 17.20 17.20 17.20 17.20 19.40 19.30 18.70 18.70 19.40 19.40 18.90 18.95 15.30 15.30 14.90 14.90 15.20 15.20 18.30 18.30 17.70 17.70 16.70 16.70	4.77 4 5.62 5 4.73 4 4.04 4 4.48 4 5.31 5 6.40 6 6.23 6 	4.73 4.75 5.58 5.60 5.38 5.35 4.76 4.75 4.07 4.06 4.52 4.50 5.33 5.32 6.38 6.39 6.19 6.21 		7.23 7.25 7.44 7.45 7.56 7.56 7.57 7.56 7.50 7.56 7.72 7.72 7.71 7.71 7.71 7.71 7.82 7.82 	7.24 7.45 7.56 7.33 7.56 7.72 7.71 7.71 7.82 - - 7.52 7.42 7.83 8.02 7.45 7.45 7.45 7.55 7.47	3.82 3.84 4.77 4.72 4.12 4.12 4.28 4.30 5.35 5.33 4.18 4.22 5.21 5.21 5.30 5.28 5.63 5.66 	3.83 4.75 4.12 4.29 5.34 4.20 5.19 5.29 5.65 - - 3.43 3.14 3.57 3.73 3.36 3.46 3.19 3.29 3.34 3.31 3.31 3.31 3.32	-/- 3.99 / 4.18	3.6 4.8 2.0 2.0 2.8 3.0 2.0	4.2 2.0 2.9 2.0 2.0 2.0 3.8 2.0 - - 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0		NII NII NII NII NII NII NII NII Piling NII NII NII NII NII NII NII NII NII NI	130
l-3	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny 14-Jan-09 10:16 Sunny 19-Jan-09 10:20 Sunny 19-Jan-09 10:20 Sunny 21-Jan-09 10:15 Sunny 23-Jan-09 10:16 Sunny 29-Jan-09 10:15 Cloudy 31-Jan-09 10:15 Sunny	17.40     17.40     1   17.40     1   15.20     1   14.50     1   17.50     1   16.30     1   16.20     1   17.20     1   19.20     1   19.40     1   19.30     1   15.30     1   15.30     1   16.70     1   17.70     1   17.70     1   18.7	17.30 17.35 15.20 15.20 15.20 14.30 14.40 15.80 15.80 19.60 19.60 17.50 17.50 16.30 16.30 16.20 16.20 17.20 17.20 19.40 19.30 18.70 18.70 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 18.70 16.70 16.70 16.70 17.70 17.70 16.70 16.70 16.70 16.70	4.77 4 5.62 5 4.73 4 4.04 4 4.48 4 5.31 5 6.40 6 6.23 6 4.37 4 4.88 4 4.61 4 5.47 5 4.35 4 4.29 4 4.45 4 5.47 5 6.27 6	4.73 4.75 5.58 5.60 5.38 5.35 4.76 4.75 4.07 4.06 4.52 4.50 5.33 5.32 6.38 6.39 6.19 6.21		7.23 7.25 7.44 7.45 7.56 7.56 7.33 7.33 7.56 7.56 7.72 7.72 7.71 7.71 7.71 7.71 7.82 7.82 	7.24 7.45 7.56 7.33 7.56 7.71 7.71 7.82 	3.82 3.84 4.77 4.72 4.12 4.12 4.28 4.30 5.35 5.33 4.18 4.22 5.21 5.17 5.30 5.28 5.63 5.66 	3.83 4.75 4.12 4.29 5.34 4.20 5.19 5.29 5.65 - - 3.43 3.14 3.57 3.73 3.36 3.19 3.29 3.34 3.31 3.31 3.31 3.31	- /- 3.99 / 4.18	3.6 4.8 2.0 2.0 2.8 3.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 4.0 3.6 2.0 2.0  2.0 2.0 2.0 2.0	4.2 2.0 2.9 2.0 2.0 2.0 3.8 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0		Nil	130
I-3 Squatters	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny 14-Jan-09 10:16 Sunny 16-Jan-09 10:20 Sunny 19-Jan-09 10:20 Sunny 21-Jan-09 10:15 Sunny 23-Jan-09 10:16 Sunny 29-Jan-09 10:15 Cloudy 31-Jan-09 10:15 Sunny	17.40   17.40   17.40   17.40   17.40   17.40   17.5	17.30 17.35 15.20 15.20 14.30 14.40 15.80 15.80 19.60 19.60 17.50 17.50 16.30 16.30 16.20 16.20 17.20 17.20 19.40 19.30 18.70 18.70 19.40 19.40 19.40 19.30 18.70 18.70 19.40 19.30 15.30 15.30 14.90 14.90 15.20 15.20 16.70 16.70 16.70 16.70 16.70 16.70 17.30 17.30 17.30 17.30 19.20 19.20	4.77 4 5.62 5 4.73 4 4.04 4 4.48 4 5.31 5 6.40 6 6.23 6 	4.73 4.75 5.58 5.60 5.58 5.60 4.76 4.75 4.07 4.06 4.52 4.50 6.38 6.39 6.19 6.21 4.33 4.35 4.83 4.86 4.90 4.89 4.68 4.65 5.45 5.46 4.90 4.89 4.37 4.36 4.33 4.31 4.32 4.39 5.49 5.48 6.29 6.28 6.32 6.32		7.23 7.25 7.44 7.45 7.56 7.56 7.57 7.56 7.56 7.72 7.72 7.71 7.71 7.71 7.71 7.82 7.82 7.52 7.52 7.42 7.42 7.80 7.80 7.76 7.63 8.02 8.02 8.02 8.02 8.02 8.02 8.02 8.02 8.02	7.24 7.45 7.56 7.33 7.56 7.72 7.71 7.71 7.82 - - - - - - - - - - - - - - - - - - -	3.82 3.84 4.77 4.72 4.12 4.12 4.28 4.30 5.35 5.33 4.18 4.22 5.21 5.21 5.30 5.28 5.63 5.66 	3.83 4.75 4.12 4.29 5.34 4.20 5.19 5.29 5.65 - - 3.43 3.14 3.57 3.73 3.36 3.46 3.19 3.29 3.34 3.31 3.31 3.31 3.31 3.31 3.31 3.31	-/- 3.99 / 4.18	3.6 4.8 2.0 2.0 2.8 3.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 4.0 3.6 2.0	4.2 2.0 2.9 2.0 2.0 2.0 2.0 3.8 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0		NII	130
l-3	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny 14-Jan-09 10:16 Sunny 16-Jan-09 10:20 Sunny 19-Jan-09 10:20 Sunny 21-Jan-09 10:15 Sunny 23-Jan-09 10:15 Cloudy 31-Jan-09 10:15 Sunny	<1	17.30 17.35 15.20 15.20 14.30 14.40 15.80 15.80 19.60 19.60 17.50 17.50 16.30 16.30 16.20 16.20 17.20 17.20 	4.77 4 5.62 5 5.32 5 4.73 4 4.04 4 4.48 4 5.31 6 6.23 6 6.24 6 6.25 6 6.26 6 6.27 6 6.28 6 6.29 6 6.29 6 6.29 6 6.29 6 6.29 6 6.20 6 6 6 6 7 6 7 6 7 6 7 6 7 6 7 7 6 7 7 6 7 7 6 7 7 6 7 7 7 6 7 7 7 7	4.73 4.75 5.58 5.60 5.58 5.35 4.76 4.75 4.07 4.06 4.52 4.50 5.33 5.32 6.38 6.39 6.19 6.21 4.33 4.35 4.83 4.86 4.90 4.89 4.89 4.89 4.68 4.65 5.45 5.46 4.90 4.89 4.33 4.31 4.32 4.39 5.49 5.48 6.32 6.32 4.44 4.46 4.68 4.67		7.23 7.25 7.44 7.45 7.56 7.56 7.33 7.33 7.56 7.56 7.72 7.72 7.71 7.71 7.71 7.71 7.82 7.82	7.24 7.45 7.56 7.33 7.56 7.72 7.71 7.71 7.82 - - - - - - - - - - - - - - - - - - -	3.82 3.84 4.77 4.72 4.12 4.12 4.28 4.30 5.35 5.33 4.18 4.22 5.21 5.17 5.30 5.28 5.63 5.66 3.42 3.44 3.17 3.10 3.58 3.55 3.72 3.73 3.37 3.35 3.50 3.42 3.18 3.19 3.31 3.26 3.32 3.29 3.33 3.37 3.35 3.36 3.37 3.35 3.36 3.36 3.37 3.35 3.36 3.36 3.37 3.35 3.36 3.36 3.37 3.36 3.38 3.37 3.39 3.39 3.31 3.32 3.32 3.39 3.31 3.32 3.32 3.39 3.31 3.32 3.32 3.39 3.31 3.32 3.32 3.32 3.33 3.33 3.35	3.83 4.75 4.12 4.29 5.34 4.20 5.19 5.29 5.65 - - 3.43 3.14 3.57 3.73 3.36 3.49 3.39 3.34 3.31 3.38 3.38 3.34 3.31 3.38 3.38 3.34 3.38 3.38 3.38 3.38 3.38	3.99 / 4.18	3.6 4.8 2.0 2.0 2.8 3.0 2.0	4.2 2.0 2.9 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0		Nil	130
I-3	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny 14-Jan-09 10:16 Sunny 19-Jan-09 10:20 Sunny 19-Jan-09 10:20 Sunny 21-Jan-09 10:15 Sunny 23-Jan-09 10:15 Cloudy 31-Jan-09 10:15 Cloudy 31-Jan-09 10:15 Sunny 2-Jan-09 11:55 Sunny 5-Jan-09 11:50 Sunny 11:50 Sunny 11:50 Sunny 12-Jan-09 11:50 Sunny 12-Jan-09 11:50 Sunny 14-Jan-09 11:55 Sunny 14-Jan-09 11:55 Sunny 19-Jan-09 11:58 Sunny 19-Jan-09 11:58 Sunny 21-Jan-09 11:58 Sunny	17.40	17.30 17.35 15.20 15.20 14.30 14.40 15.80 15.80 19.60 19.60 17.50 17.50 16.30 16.30 16.20 16.20 17.20 17.20 19.40 19.40 18.70 18.70 18.70 18.70 19.40 19.40 18.90 18.95 15.30 15.30 15.20 15.20 16.20 16.20 17.20 17.20 19.40 19.40 18.90 18.95 15.30 17.70 17.70 16.70 16.70 16.70 16.70 16.70 16.70 16.90 18.90 17.90 19.90 19.90 19.90 19.90 19.90 19.90 19.90	4.77 4 5.62 5 5.32 6 4.73 4 4.04 4 4.48 4 5.31 5 6.40 6 6.23 6 	4.73 4.75 5.58 5.60 5.38 5.35 4.76 4.75 4.07 4.06 4.52 4.50 5.33 5.32 6.38 6.39 6.19 6.21		7.23 7.25 7.44 7.45 7.56 7.56 7.33 7.33 7.56 7.56 7.72 7.72 7.71 7.71 7.71 7.71 7.82 7.82 	7.24 7.45 7.56 7.33 7.56 7.71 7.71 7.71 7.82 	3.82 3.84 4.77 4.72 4.12 4.12 4.28 4.30 5.35 5.33 4.18 4.22 5.21 5.17 5.30 5.28 5.63 5.66 	3.83 4.75 4.12 4.29 5.34 4.20 5.19 5.29 5.65 - - 3.43 3.14 3.57 3.73 3.36 3.46 3.19 3.29 3.31 3.31 3.38 3.41 - - -	3.99 / 4.18	3.6 4.8 2.0 2.0 2.8 3.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 4.0 3.6 2.0	4.2 2.0 2.9 2.0 2.0 2.0 2.0 3.8 2.0 - - 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0		Nil	130
I-3	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny 14-Jan-09 10:16 Sunny 16-Jan-09 10:20 Sunny 19-Jan-09 10:20 Sunny 21-Jan-09 10:15 Sunny 23-Jan-09 10:16 Sunny 23-Jan-09 10:15 Cloudy 31-Jan-09 10:15 Cloudy 31-Jan-09 11:50 Sunny 5-Jan-09 11:50 Sunny 9-Jan-09 11:50 Sunny 11-50 Sunny	17.40	17.30 17.35 15.20 15.20 14.30 14.40 15.80 15.80 19.60 19.60 17.50 17.50 16.30 16.30 16.20 16.20 17.20 17.20 19.40 19.30 18.70 18.70 19.40 19.40 19.40 19.40 18.90 18.95 15.30 15.30 14.90 14.90 15.20 15.20 16.00 16.00 17.30 17.30 17.30 17.30 19.40 19.40 18.90 18.95 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.50 15.20 18.30 18.30 17.70 17.70 16.70 16.70 16.70 16.70 16.90 19.20 19.30 19.30 18.90 19.30 18.90 19.90	4.77 4 5.62 5 4.73 4 4.04 4 4.48 4 5.31 5 6.40 6 6.23 6 4.37 4 4.88 4 4.61 4 5.47 5 4.85 4 4.29 4 4.45 4 4.45 4 4.45 4 4.46 6 6.27 6 6.28 6 6.29 6 6.29 6 6.29 6 6.20 6 6 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6	4.73 4.75 5.58 5.60 5.38 5.35 4.76 4.75 4.07 4.06 4.52 4.50 5.33 5.32 6.38 6.39 6.19 6.21		7.23 7.25 7.44 7.45 7.56 7.56 7.33 7.33 7.56 7.56 7.72 7.72 7.71 7.71 7.71 7.71 7.82 7.82 7.52 7.52 7.42 7.42 7.42 7.42 7.62 7.63 8.02 8.02 7.42 7.43 7.43 7.47 7.55 7.55 7.67 7.67 7.70 7.70 7.42 7.42 7.42 7.42 7.43 7.43 7.47 7.55 7.55 7.57 7.67 7.67 7.70 7.70 7.42 7.42 7.42 7.43 7.44 7.45 7.55 7.55 7.44 7.44 7.55 7.55 7.44 7.42 7.55 7.55 7.44 7.44 7.55 7.55 7.55 7.55	7.24 7.45 7.56 7.33 7.56 7.72 7.71 7.82 	3.82 3.84 4.77 4.72 4.12 4.12 4.28 4.30 5.35 5.33 4.18 4.22 5.21 5.17 5.30 5.28 5.63 5.66 	3.83 4.75 4.12 4.29 5.34 4.20 5.19 5.29 5.65 - - 3.43 3.14 3.57 3.73 3.36 3.46 3.19 3.29 3.34 3.31 3.38 3.41 - -	3.99 / 4.18	3.6 4.8 2.0 2.0 2.8 3.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 4.0 3.6 2.0	4.2 2.0 2.9 2.0 2.0 2.0 2.0 3.8 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	6.13 / 7.23	Nil	130
I-3	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny 14-Jan-09 10:16 Sunny 16-Jan-09 10:20 Sunny 19-Jan-09 10:20 Sunny 21-Jan-09 10:15 Sunny 23-Jan-09 10:16 Sunny 29-Jan-09 10:15 Cloudy 31-Jan-09 10:15 Sunny	<1	17.30 17.35 15.20 15.20 14.30 14.40 15.80 15.80 19.60 19.60 17.50 17.50 16.30 16.30 16.20 16.20 17.20 17.20 19.40 19.30 18.70 18.70 19.40 19.40 19.40 19.40 19.40 19.30 18.70 18.70 19.40 19.30 15.20 15.20 15.20 15.20 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 17.30 17.30 17.30 17.30 19.30 19.30 19.30 19.30 18.50 18.50 18.50 18.50 18.90 19.20 18.90 19.20 18.90 19.20 19.20 19.20 19.20 19.20 18.50 19.30 19.30	4.77 4 5.62 5 4.73 4 4.04 4 4.48 4 5.31 5 6.40 6 6.23 6 	4.73 4.75 5.58 5.60 5.58 5.60 4.76 4.75 4.07 4.06 4.52 4.50 6.38 6.39 6.19 6.21 4.33 4.35 4.83 4.86 4.90 4.89 4.68 4.65 5.46 5.46 4.30 4.89 4.31 4.32 4.39 5.49 5.48 6.32 6.32		7.23 7.25 7.44 7.45 7.56 7.56 7.56 7.56 7.72 7.72 7.71 7.71 7.71 7.71 7.82 7.82 7.52 7.52 7.42 7.42 7.80 7.80 7.80 7.80 7.80 7.80 7.75 7.77 7.62 7.63 8.02 8.02 8.02 8.02 8.02 8.02 8.02 8.02 8.02	7.24 7.45 7.56 7.33 7.56 7.72 7.71 7.71 7.82 - - - - - - - - - - - - - - - - - - -	3.82 3.84 4.77 4.72 4.12 4.12 4.28 4.30 5.35 5.33 4.18 4.22 5.21 5.21 5.30 5.28 5.63 5.66 	3.83 4.75 4.12 4.29 5.34 4.20 5.19 5.29 5.65 - - 3.43 3.14 3.57 3.73 3.36 3.46 3.19 3.29 3.34 3.31 - - - - - - - - - - - - - - - - - - -	3.99 / 4.18	3.6 4.8 2.0 2.0 2.8 3.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 4.0 3.6 2.0	4.2 2.0 2.9 2.0 2.0 2.0 2.0 3.8 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	6.13 / 7.23	Nil	130
I-3	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny 14-Jan-09 10:16 Sunny 16-Jan-09 10:20 Sunny 19-Jan-09 10:20 Sunny 21-Jan-09 10:16 Sunny 23-Jan-09 10:16 Sunny 23-Jan-09 10:15 Cloudy 31-Jan-09 10:15 Cloudy 31-Jan-09 11:35 Sunny	<1	17.30 17.35 15.20 15.20 14.30 14.40 15.80 15.80 19.60 19.60 17.50 17.50 16.30 16.30 16.20 16.20 17.20 17.20 19.40 19.30 18.70 19.40 18.90 18.95 15.30 15.30 15.20 15.20 16.00 16.00 17.70 16.70 16.70 16.70 16.70 16.70 17.30 17.30 17.30 17.30 19.40 19.40 19.40 19.40 19.50 15.20 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50	4.77 4 5.62 5 4.73 4 4.04 4 4.48 4 5.31 5 6.40 6 6.23 6 4.37 4 4.88 4 4.61 4 5.47 4 4.35 4 4.29 4 4.45 4 4.46 5 6.27 6 6.27 6 6	4.73 4.75 5.58 5.60 5.38 5.35 4.76 4.75 4.07 4.06 4.52 4.50 5.33 5.32 6.38 6.39 6.19 6.21		7.23 7.25 7.44 7.45 7.56 7.56 7.33 7.33 7.56 7.56 7.72 7.72 7.71 7.71 7.71 7.71 7.82 7.82	7.24 7.45 7.45 7.56 7.33 7.56 7.71 7.71 7.82 - - - 7.52 7.42 7.80 7.76 7.63 8.02 7.43 7.45 7.55 7.67 7.70 7.42 7.45 7.75 8.02 7.77 7.70 7.70 8.02 8.02 8.02 8.03 8.03 8.03 8.03 8.03 8.03 8.03 8.03	3.82 3.84 4.77 4.72 4.12 4.12 4.28 4.30 5.35 5.33 4.18 4.22 5.21 5.17 5.30 5.28 5.63 5.66 	3.83 4.75 4.12 4.29 5.34 4.20 5.19 5.29 5.65 - - 3.43 3.14 3.57 3.73 3.36 3.46 3.19 3.29 3.34 3.31 3.34 3.31 3.38 3.41 - - - - - - - - - - - - -	3.99 / 4.18	3.6 4.8 2.0 2.0 2.8 3.0 2.0	4.2 2.0 2.9 2.0 2.0 2.0 3.8 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	6.13 / 7.23	Nil	130
I-3	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny 14-Jan-09 10:16 Sunny 16-Jan-09 10:20 Sunny 19-Jan-09 10:20 Sunny 21-Jan-09 10:15 Sunny 23-Jan-09 10:16 Sunny 29-Jan-09 10:15 Cloudy 31-Jan-09 10:15 Sunny	<1	17.30 17.35 15.20 15.20 14.30 14.40 15.80 15.80 19.60 19.60 17.50 17.50 16.30 16.30 16.20 16.20 17.20 17.20 19.40 19.30 18.70 18.70 19.40 19.40 19.40 19.40 19.40 19.30 18.70 18.70 19.40 19.30 15.20 15.20 15.20 15.20 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 17.30 17.30 17.30 17.30 19.30 19.30 19.30 19.30 18.50 18.50 18.50 18.50 18.90 19.20 18.90 19.20 18.90 19.20 19.20 19.20 19.20 19.20 18.50 19.30 19.30	4.77 4 5.62 5 4.73 4 4.04 4 4.48 4 5.31 5 6.40 6 6.23 6 4.37 4 4.88 4 4.61 4 5.47 4 4.35 4 4.29 4 4.45 4 4.46 5 6.27 6 6.27 6 6	4.73 4.75 5.58 5.60 5.38 5.35 4.76 4.75 4.07 4.06 4.52 4.50 5.33 5.32 6.38 6.39 6.19 6.21	3.65 / 3.51	7.23 7.25 7.44 7.45 7.56 7.56 7.56 7.56 7.72 7.72 7.71 7.71 7.71 7.71 7.82 7.82 7.52 7.52 7.42 7.42 7.80 7.80 7.80 7.80 7.80 7.80 7.75 7.77 7.62 7.63 8.02 8.02 8.02 8.02 8.02 8.02 8.02 8.02 8.02	7.24 7.45 7.45 7.56 7.33 7.56 7.71 7.71 7.82 - - - 7.52 7.42 7.80 7.76 7.63 8.02 7.43 7.45 7.55 7.67 7.70 7.42 7.45 7.75 8.02 7.77 7.70 7.70 8.02 8.02 8.02 8.03 8.03 8.03 8.03 8.03 8.03 8.03 8.03	3.82 3.84 4.77 4.72 4.12 4.12 4.28 4.30 5.35 5.33 4.18 4.22 5.21 5.17 5.30 5.28 5.63 5.66 	3.83 4.75 4.12 4.29 5.34 4.20 5.19 5.29 5.65 - - 3.43 3.14 3.57 3.73 3.36 3.46 3.19 3.29 3.34 3.31 3.34 3.31 3.38 3.41 - - - - - - - - - - - - -		3.6 4.8 2.0 2.0 2.8 3.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 4.0 3.6 2.0	4.2 2.0 2.9 2.0 2.0 2.0 3.8 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	6.13 / 7.23	Nil	Nii
I-3	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny 14-Jan-09 10:16 Sunny 16-Jan-09 10:20 Sunny 19-Jan-09 10:20 Sunny 21-Jan-09 10:16 Sunny 23-Jan-09 10:16 Sunny 23-Jan-09 10:15 Cloudy 31-Jan-09 10:15 Cloudy 31-Jan-09 11:35 Sunny	<1         17.40           <1         15.20           <1         14.50           <1         19.60           <1         17.50           <1         17.50           <1         16.20           <1         17.20           <1         19.20           <1         19.20           <1         19.00           <1         15.20           <1         18.30           <1         17.70           <1         16.00           <1         17.30           <1         19.20           <1         19.30           <1         19.30           <1         19.30           <1         19.20           <1         19.20           <1         19.30           <1         19.20           <1         19.20           <1         19.20           <1         19.20           <1         19.20           <1         19.20           <1         19.20           <1         19.20	17.30 17.35 15.20 15.20 14.30 14.40 15.80 15.80 19.60 19.60 17.50 17.50 16.30 16.30 16.20 16.20 17.20 17.20 19.40 19.30 18.70 18.70 19.40 19.40 19.40 19.40 19.40 19.40 18.90 18.95 15.30 15.30 14.90 14.90 15.20 15.20 16.00 16.00 17.30 17.30 17.30 17.30 19.40 19.40 18.90 18.95 15.30 18.30 14.90 19.40 15.20 15.20 16.70 16.70 16.70 16.70 16.90 19.90 17.30 17.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 18.90 19.00 15.20 15.20 15.20 15.20	4.77 4 5.62 5 5.32 6 4.73 4 4.04 4 4.48 4 5.31 5 6.40 6 6.23 6 4.37 4 4.88 4 4.61 4 5.47 5 4.85 4 4.29 4 4.45 4 4.45 4 4.45 4 4.45 4 4.45 4 4.45 4 4.45 4 4.45 4 4.65 4 4.65 4 4.72 6 5.42 5 5.42 5 4.32 4	4.73 4.75 5.58 5.60 5.38 5.35 4.76 4.75 4.07 4.06 4.52 4.50 5.33 5.32 6.38 6.39 6.19 6.21		7.23 7.25 7.44 7.45 7.56 7.56 7.33 7.33 7.56 7.56 7.72 7.72 7.71 7.71 7.71 7.71 7.82 7.82	7.24 7.45 7.56 7.33 7.56 7.72 7.71 7.82 	3.82 3.84 4.77 4.72 4.12 4.12 4.28 4.30 5.35 5.33 4.18 4.22 5.21 5.17 5.30 5.28 5.63 5.66 	3.83 4.75 4.12 4.29 5.34 4.20 5.19 5.29 5.65 - - 3.43 3.14 3.57 3.73 3.36 3.46 3.19 3.29 3.34 3.31 3.34 3.31 3.38 3.41 - - - - - - - - - - - - -	-/- 3.99 / 4.18	3.6 4.8 2.0 2.0 2.8 3.0 2.0	4.2 2.0 2.9 2.0 2.0 2.0 3.8 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	6.13 / 7.23	Nil	Nii Nii Nii Nii Nii Nii Nii Nii Nii  Nii Nii
I-3	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny 14-Jan-09 10:16 Sunny 16-Jan-09 10:20 Sunny 19-Jan-09 10:20 Sunny 19-Jan-09 10:20 Sunny 21-Jan-09 10:15 Sunny 23-Jan-09 10:15 Sunny 29-Jan-09 10:15 Sunny	<1	17.30 17.35 15.20 15.20 14.30 14.40 14.30 15.80 19.60 19.60 17.50 17.50 16.30 16.30 16.20 16.20 17.20 17.20 19.40 19.30 18.70 18.70 18.70 18.90 15.30 15.30 15.30 15.30 15.20 15.20 16.70 16.70 16.70 16.70 17.70 16.70 16.70 18.90 19.90 17.30 17.30 17.30 17.30 18.90 19.90 18.90 19.00 18.90 19.00 18.90 19.00 18.90 19.00 18.90 19.00 18.90 19.00 18.90 19.00	4.77 4 5.62 5 5.32 5 4.73 4 4.04 4 4.48 4 5.31 5 6.40 6 6.23 6 	4.73 4.75 5.58 5.60 5.38 5.35 4.76 4.75 4.07 4.06 4.07 4.06 4.52 4.50 5.33 5.32 6.38 6.39 6.19 6.21	3.65 / 3.51	7.23 7.25 7.44 7.45 7.56 7.56 7.33 7.33 7.56 7.56 7.72 7.72 7.71 7.71 7.71 7.71 7.82 7.82 7.52 7.52 7.42 7.42 7.42 7.42 7.42 7.43 7.43 7.47 7.62 7.63 8.02 8.02 7.42 7.43 7.43 7.47 7.55 7.57 7.57 7.50 7.50 7.50 7.50 7.5	7.24 7.45 7.45 7.56 7.33 7.56 7.71 7.71 7.82 	3.82 3.84 4.77 4.72 4.12 4.12 4.28 4.30 5.35 5.33 4.18 4.22 5.21 5.17 5.30 5.28 5.63 5.66 	3.83 4.75 4.12 4.29 5.34 4.20 5.19 5.29 5.65 		3.6 4.8 2.0 2.0 2.8 3.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 4.0 3.6 2.0	4.2 2.0 2.9 2.0 2.0 2.0 3.8 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	6.13 / 7.23	Nil	Nii
I-3	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny 14-Jan-09 10:16 Sunny 16-Jan-09 10:20 Sunny 19-Jan-09 10:20 Sunny 21-Jan-09 10:15 Sunny 23-Jan-09 10:15 Sunny 23-Jan-09 10:15 Cloudy 31-Jan-09 10:15 Sunny	<1	17.30 17.35 15.20 15.20 14.30 14.40 15.80 15.80 19.60 19.60 17.50 17.50 16.30 16.30 16.20 16.20 17.20 17.20 19.40 19.30 18.70 18.70 19.40 19.40 19.40 19.40 19.40 19.40 18.70 18.70 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.50 15.30 15.30 15.30 15.30 15.30 15.30 17.70 17.70 16.70 16.70 16.70 16.70 16.90 19.20 19.20 19.20 19.20 19.20 19.30 19.30 18.90 19.00 15.20 15.20 15.70 15.70 18.50 18.50 18.50 18.50	4.77 4 5.62 5 5.32 5 4.73 4 4.04 4 4.48 4 5.31 5 6.40 6 6.23 6 6.23 6 4.37 4 4.88 4 4.61 4 5.47 5 6.27 6 6.32 6 6 6.32 6 6 6.32 6 6 6.32 6 6 6.32 6 6 6.32 6 6 6 6.32 6 6 6 6.32	4.73 4.75 5.58 5.60 5.38 5.35 4.76 4.75 4.07 4.06 4.52 4.50 5.33 5.32 6.38 6.39 6.19 6.21	3.65 / 3.51	7.23 7.25 7.44 7.45 7.56 7.56 7.33 7.33 7.56 7.56 7.72 7.72 7.71 7.71 7.71 7.71 7.82 7.82 7.52 7.52 7.42 7.42 7.80 7.80 7.75 7.77 7.62 7.63 8.02 8.02 7.42 7.43 7.43 7.47 7.55 7.55 7.44 7.42 7.51 7.55 7.44 7.42 7.57 7.62 7.63 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.70	7.24 7.45 7.56 7.33 7.56 7.72 7.71 7.71 7.82 - 7.52 7.42 7.80 7.76 7.63 8.02 7.43 7.45 7.55 7.70 7.42 7.43 7.45 7.55 7.70 7.42 7.71 7.82 7.71 7.82 7.80 7.8	3.82 3.84 4.77 4.72 4.12 4.12 4.28 4.30 5.35 5.33 4.18 4.22 5.21 5.17 5.30 5.28 5.63 5.66 	3.83 4.75 4.12 4.29 5.34 4.20 5.19 5.29 5.65 - - 3.43 3.14 3.57 3.73 3.36 3.19 3.29 3.34 3.31 3.38 3.41 - - - 3.64 3.62 3.65 3.65 3.61 3.46 3.22 3.65 3.61 3.43		3.6 4.8 2.0 2.0 2.8 3.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 4.0 3.6 2.0	4.2 2.0 2.9 2.0 2.0 2.0 3.8 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	6.13 / 7.23	Nil	Nii Nii Nii Nii Nii Nii Nii Nii Nii  Nii Nii
I-3	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny 14-Jan-09 10:16 Sunny 16-Jan-09 10:20 Sunny 19-Jan-09 10:20 Sunny 21-Jan-09 10:20 Sunny 21-Jan-09 10:15 Sunny 23-Jan-09 10:16 Sunny 29-Jan-09 10:15 Sunny	<1	17.30 17.35 15.20 15.20 14.30 14.40 15.80 15.80 19.60 19.60 17.50 17.50 16.30 16.30 16.20 16.20 17.20 17.20 19.40 19.30 18.70 18.70 19.40 19.40 18.90 18.95 15.30 15.30 14.90 14.90 15.20 15.20 16.70 16.70 16.70 16.70 16.70 16.70 16.70 15.70 18.50 18.50 19.30 19.30 19.30 19.30 19.30 19.30 18.90 18.95 15.30 15.30 15.30 15.30 15.30 15.30 15.30 15.30 15.20 15.20 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 17.70 17.70 18.50 18.50 19.30 19.30 19.30 19.30 19.30 19.30 15.20 15.20 15.20 15.20 15.70 15.70 18.50 18.50	4.77 4 5.62 5 5.32 4 4.04 4 4.48 4 5.31 5 6.40 6 6.23 6 	4.73	3.65 / 3.51	7.23 7.25 7.44 7.45 7.56 7.56 7.56 7.56 7.72 7.72 7.71 7.71 7.71 7.71 7.82 7.82	7.24 7.45 7.56 7.33 7.56 7.72 7.71 7.71 7.82 - 7.52 7.42 7.80 7.76 7.63 8.02 7.43 7.45 7.55 7.67 7.42 7.43 7.45 7.55 7.67 7.70 7.42 - 7.70 7.42 7.71 7.63 8.02 7.76 7.63 8.02 7.76 7.63 8.02 7.76 7.63 8.02 7.76 7.63 8.02 7.76 7.63 8.02 7.77 7.62 8.02 7.70 7.42 7.70 7.42 7.70 7.42 7.70 7.42 7.70 7.42 7.70 7.42 7.70 7.42 7.80 7.70 7.42 7.70 7.42 7.70 7.42 7.70 7.42 7.80 7.70 7.42 7.80 7.70 7.42 7.80 7.70 7.42 7.80 7.70 7.42 7.80 7.70 7.42 7.80 7.70 7.42 7.80 7.70 7.42 7.80 7.70 7.42 7.80 7.70 7.42 7.80 7.70 7.44 7.82 7.77 7.70 7.42 7.70 7.44 7.82 7.77 7.70 7.44 7.82 7.77 7.70 7.70 7.44 7.82 7.77 7.70 7.70 7.44 7.82 7.77 7.70 7.44 7.82 7.77 7.70 7.44 7.82 7.77 7.70 7.44 7.82 7.77 7.70 7.44 7.82 7.77 7.70 7.44 7.83 7.44 7.45 7.55 7.67 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.76 8.04 7.77 7.70 7.42 8.04 7.44 7.43 7.44 7.43 7.55 7.55 7.70	3.82 3.84 4.77 4.72 4.12 4.12 4.28 4.30 5.35 5.33 4.18 4.22 5.21 5.21 5.30 5.28 5.63 5.66 	3.83 4.75 4.12 4.29 5.34 4.20 5.19 5.29 5.65 - - 3.43 3.14 3.57 3.73 3.36 3.46 3.19 3.29 3.34 3.31 3.38 3.41 - - - 3.64 3.22 3.65 3.65 3.65 3.61 3.43 3.21		3.6	4.2 2.0 2.9 2.0 2.0 2.0 2.0 3.8 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	6.13 / 7.23	Nil	Nii Nii Nii Nii Nii Nii Nii Nii Nii  Nii Nii
I-3 Squatters	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny 14-Jan-09 10:16 Sunny 19-Jan-09 10:20 Sunny 19-Jan-09 10:20 Sunny 21-Jan-09 10:15 Sunny 21-Jan-09 10:15 Cloudy 31-Jan-09 10:15 Cloudy 31-Jan-09 10:15 Sunny 2-Jan-09 11:35 Sunny 5-Jan-09 11:35 Sunny 7-Jan-09 11:50 Sunny 11:50 Sunny 11:50 Sunny 11:50 Sunny 11:51 Sunny 11:51 Sunny 11:52 Sunny 12-Jan-09 11:55 Sunny 12-Jan-09 11:58 Sunny 14-Jan-09 11:58 Sunny 21-Jan-09 11:30 Sunny 1-Jan-09 11:30 Sunny	<1	17.30 17.35 15.20 15.20 14.30 14.40 14.30 15.80 19.60 19.60 17.50 17.50 16.30 16.30 16.20 16.20 17.20 17.20 19.40 19.30 18.70 19.40 18.90 18.95 15.30 15.30 15.30 15.30 15.20 15.20 16.70 16.70 16.00 16.00 17.70 17.70 16.70 16.70 18.90 19.90 15.20 15.20 15.30 15.30 15.30 15.30 15.30 15.30 15.30 15.30 15.30 15.30 15.30 15.30 15.30 15.30 15.30 15.30 15.30 15.30 17.70 17.70 16.70 16.70 16.70 16.70 16.70 16.70 17.70 17.70 18.50 18.50 19.30 19.30 19.30 19.30 15.20 15.20 15.20 15.20 15.20 15.20 15.20 15.20 18.50 18.50 18.50 18.50 18.50 18.50	4.77 4 5.62 5 5.32 5 4.73 4 4.04 4 4.48 4 5.31 5 6.40 6 6.23 6 	4.73 4.75 5.58 5.60 5.38 5.35 4.76 4.75 4.07 4.06 4.07 4.06 4.52 4.50 5.33 5.32 6.38 6.39 6.19 6.21	3.65 / 3.51	7.23 7.25 7.44 7.45 7.56 7.56 7.33 7.33 7.56 7.56 7.72 7.72 7.71 7.71 7.71 7.71 7.82 7.82 7.52 7.52 7.42 7.42 7.80 7.80 7.75 7.77 7.62 7.63 8.02 8.02 7.42 7.43 7.43 7.47 7.55 7.55 7.67 7.67 7.70 7.70 7.42 7.42 7.82 7.82 7.83 7.86 7.86 7.67 7.70 7.70 7.74 7.44 7.82 7.82 7.83 8.04 7.44 7.44 7.85 7.66 7.62 7.62 8.03 8.04 7.44 7.44 7.42 7.44 7.42 7.44 7.42 7.44 7.55 7.56 7.67 7.67 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.70	7.24 7.45 7.45 7.56 7.33 7.56 7.71 7.71 7.82 7.52 7.42 7.80 7.76 7.80 7.76 7.67 7.70 7.43 7.45 7.55 7.67 7.70 7.42 8.02 7.43 7.45 7.70 7.70 7.42 8.02 7.71 7.70 7.70 7.70 7.70 7.70 7.70 7.70	3.82 3.84 4.77 4.72 4.12 4.12 4.28 4.30 5.35 5.33 4.18 4.22 5.21 5.17 5.30 5.28 5.63 5.66 	3.83 4.75 4.12 4.29 5.34 4.20 5.19 5.29 5.65 - - 3.43 3.14 3.57 3.73 3.36 3.46 3.19 3.29 3.34 3.31 3.38 3.41 - - - - - - - - - - - - -		3.6	4.2 2.0 2.9 2.0 2.0 2.0 3.8 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	6.13 / 7.23	Nil	Nii Nii Nii Nii Nii Nii Nii Nii Nii  Nii Nii
I-3 Squatters	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny 14-Jan-09 10:16 Sunny 19-Jan-09 10:20 Sunny 19-Jan-09 10:20 Sunny 21-Jan-09 10:15 Sunny 23-Jan-09 10:15 Cloudy 31-Jan-09 10:15 Cloudy 31-Jan-09 10:15 Sunny 2-Jan-09 11:35 Sunny 5-Jan-09 11:50 Sunny 9-Jan-09 11:50 Sunny 11:50 Sunny 11:50 Sunny 12-Jan-09 11:50 Sunny 12-Jan-09 11:50 Sunny 12-Jan-09 11:50 Sunny 14-Jan-09 11:55 Sunny 19-Jan-09 11:56 Sunny 21-Jan-09 11:57 Sunny 21-Jan-09 11:58 Sunny 21-Jan-09 11:58 Sunny 21-Jan-09 11:58 Sunny 21-Jan-09 11:38 Sunny 21-Jan-09 11:38 Sunny 21-Jan-09 11:38 Sunny 21-Jan-09 11:30 Sunny 11:31 Sunny 21-Jan-09 11:30 Sunny 31-Jan-09 11:30 Sunny	<1	17.30 17.35 15.20 15.20 14.30 14.40 14.30 15.80 19.60 19.60 17.50 17.50 16.30 16.30 16.20 16.20 17.20 17.20 19.40 19.30 18.70 18.70 18.70 18.90 15.30 15.30 15.30 15.30 15.20 15.20 16.00 16.00 17.30 17.70 16.70 16.70 16.70 18.90 19.90 15.20 15.20 18.30 18.30 17.70 17.70 16.70 16.70 16.70 16.70 16.70 16.70 18.90 19.90 17.10 17.70 18.50 18.50 18.30 19.30 18.30 19.30 18.50 18.50	4.77 4 5.62 5 5.32 5 4.73 4 4.04 4 4.48 4 5.31 5 6.40 6 6.23 6 	4.73 4.75 5.58 5.60 5.38 5.35 4.76 4.75 4.07 4.06 4.52 4.50 5.33 5.32 6.38 6.39 6.19 6.21	3.65 / 3.51	7.23 7.25 7.44 7.45 7.56 7.56 7.56 7.56 7.72 7.72 7.71 7.71 7.71 7.71 7.82 7.82	7.24 7.45 7.45 7.56 7.33 7.56 7.71 7.71 7.82 	3.82 3.84 4.77 4.72 4.12 4.12 4.28 4.30 5.35 5.33 4.18 4.22 5.21 5.17 5.30 5.28 5.63 5.66 	3.83 4.75 4.12 4.29 5.34 4.20 5.19 5.29 5.65 - - - - - - - - - - - - -		3.6	4.2 2.0 2.9 2.0 2.0 2.0 3.8 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	6.13 / 7.23	Nil	Nii Nii Nii Nii Nii Nii Nii Nii Nii  Nii Nii
I-3	9-Jan-09 10:00 Sunny 12-Jan-09 10:11 Sunny 14-Jan-09 10:16 Sunny 19-Jan-09 10:20 Sunny 19-Jan-09 10:20 Sunny 21-Jan-09 10:15 Sunny 21-Jan-09 10:15 Cloudy 31-Jan-09 10:15 Cloudy 31-Jan-09 10:15 Sunny 2-Jan-09 11:35 Sunny 5-Jan-09 11:35 Sunny 7-Jan-09 11:50 Sunny 11:50 Sunny 11:50 Sunny 11:50 Sunny 11:51 Sunny 11:51 Sunny 11:52 Sunny 12-Jan-09 11:55 Sunny 12-Jan-09 11:58 Sunny 14-Jan-09 11:58 Sunny 21-Jan-09 11:30 Sunny 1-Jan-09 11:30 Sunny	<1         17.40           <1         15.20           <1         15.80           <1         19.60           <1         17.50           <1         16.30           <1         16.20           <1         17.20           <1         19.20           <1         19.40           <1         15.30           <1         15.20           <1         18.30           <1         17.70           <1         16.00           <1         17.30           <1         19.20           <1         19.30           <1         19.30           <1         19.20           <1         15.20           <1         16.00           <1         17.30           <1         19.20           <1         18.50           <1         15.20           <1         18.50           <1         16.00	17.30 17.35 15.20 15.20 14.30 14.40 14.30 15.80 19.60 19.60 17.50 17.50 16.30 16.30 16.20 16.20 17.20 17.20 19.40 19.30 18.70 19.40 18.90 18.95 15.30 15.30 15.30 15.30 15.20 15.20 16.70 16.70 16.00 16.00 17.70 17.70 16.70 16.70 18.90 19.90 15.20 15.20 15.30 15.30 15.30 15.30 15.30 15.30 15.30 15.30 15.30 15.30 15.30 15.30 15.30 15.30 15.30 15.30 15.30 15.30 17.70 17.70 16.70 16.70 16.70 16.70 16.70 16.70 17.70 17.70 18.50 18.50 19.30 19.30 19.30 19.30 15.20 15.20 15.20 15.20 15.20 15.20 15.20 15.20 18.50 18.50 18.50 18.50 18.50 18.50	4.77 4 5.62 5 5.32 5 4.73 4 4.04 4 4.48 4 5.31 5 6.40 6 6.23 6 	4.73 4.75 5.58 5.60 5.38 5.35 4.76 4.75 4.07 4.06 4.07 4.06 4.52 4.50 5.33 5.32 6.38 6.39 6.19 6.21	3.65 / 3.51	7.23 7.25 7.44 7.45 7.56 7.56 7.33 7.33 7.56 7.56 7.72 7.72 7.71 7.71 7.71 7.71 7.82 7.82 7.52 7.52 7.42 7.42 7.80 7.80 7.75 7.77 7.62 7.63 8.02 8.02 7.42 7.43 7.43 7.47 7.55 7.55 7.67 7.67 7.70 7.70 7.42 7.42 7.82 7.82 7.83 7.86 7.86 7.67 7.70 7.70 7.74 7.44 7.82 7.82 7.83 8.04 7.44 7.44 7.85 7.66 7.62 7.62 8.03 8.04 7.44 7.44 7.42 7.44 7.42 7.44 7.42 7.44 7.55 7.56 7.67 7.67 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.70	7.24 7.45 7.45 7.56 7.33 7.56 7.71 7.71 7.82 7.52 7.42 7.80 7.76 7.80 7.76 7.67 7.70 7.43 7.45 7.55 7.67 7.70 7.42 8.02 7.43 7.45 7.70 7.70 7.42 8.02 7.71 7.70 7.70 7.70 7.70 7.70 7.70 7.70	3.82 3.84 4.77 4.72 4.12 4.12 4.28 4.30 5.35 5.33 4.18 4.22 5.21 5.17 5.30 5.28 5.63 5.66 	3.83 4.75 4.12 4.29 5.34 4.20 5.19 5.29 5.65 - - 3.43 3.14 3.57 3.73 3.36 3.46 3.19 3.29 3.34 3.31 3.38 3.41 - - - - - - - - - - - - -		3.6	4.2 2.0 2.9 2.0 2.0 2.0 3.8 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	6.13 / 7.23	Nil	Nii Nii Nii Nii Nii Nii Nii Nii Nii  Nii Nii

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

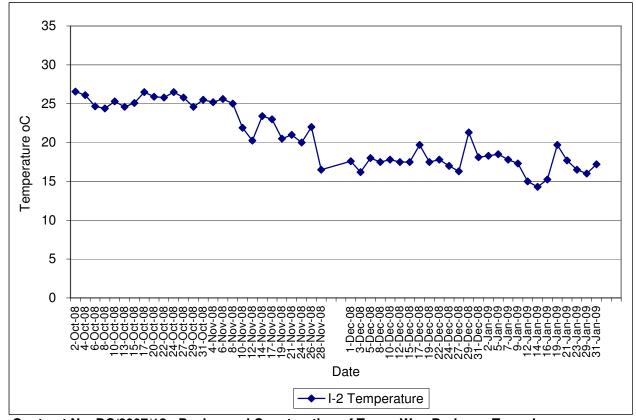
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Sik Sik Yuen Ho Fung College (I-1)



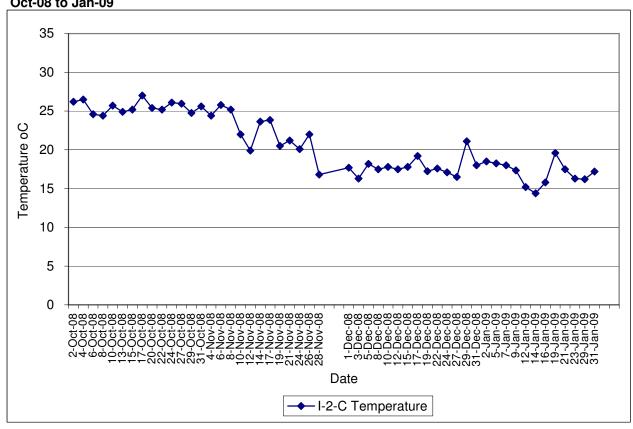
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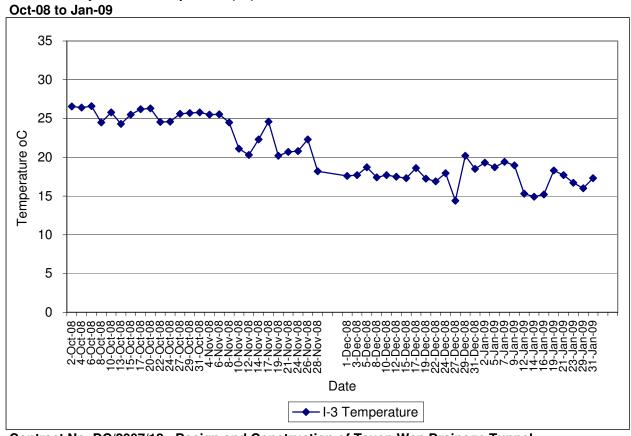
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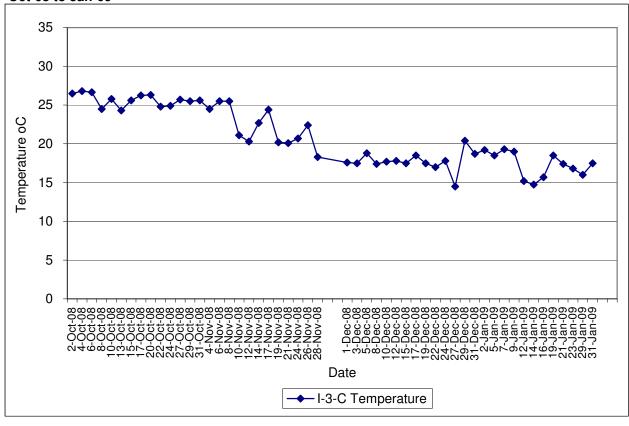
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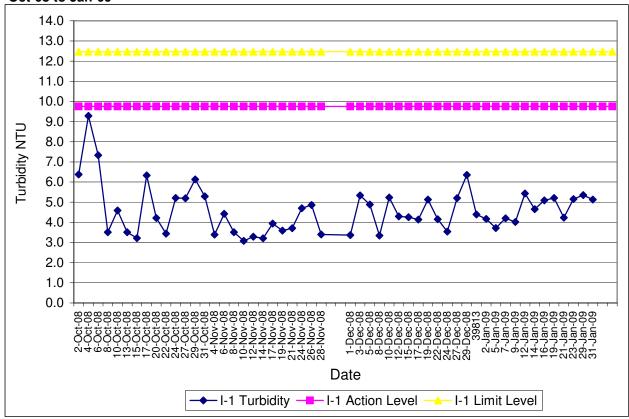
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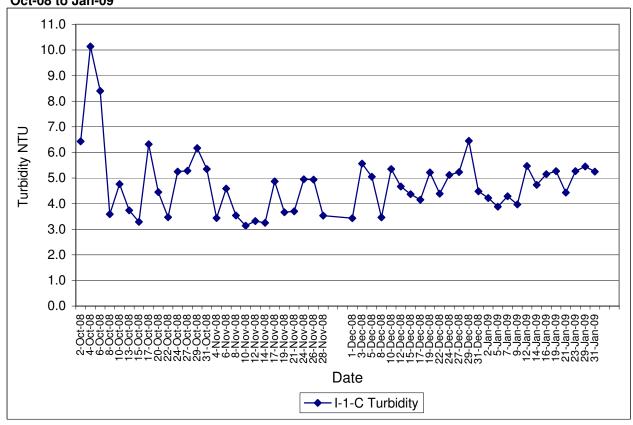
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Oct-08 to Jan-09



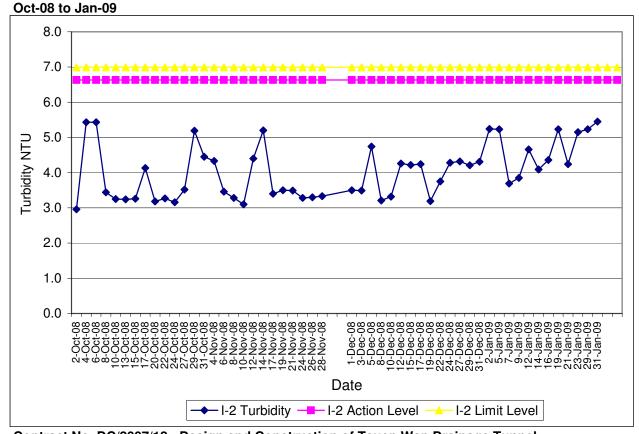
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Oct-08 to Jan-09



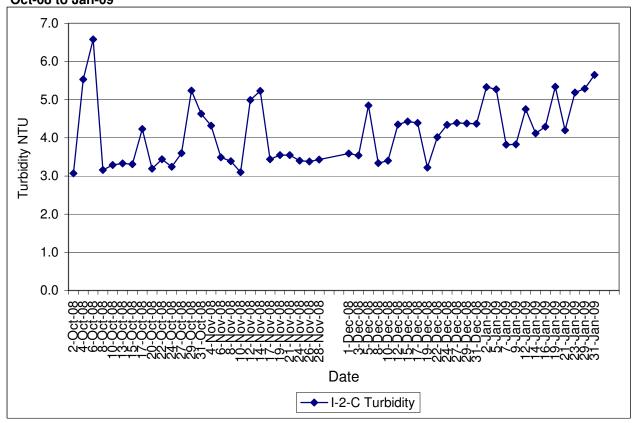
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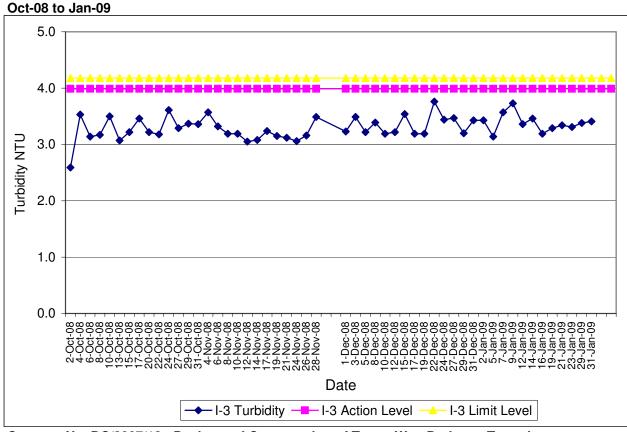
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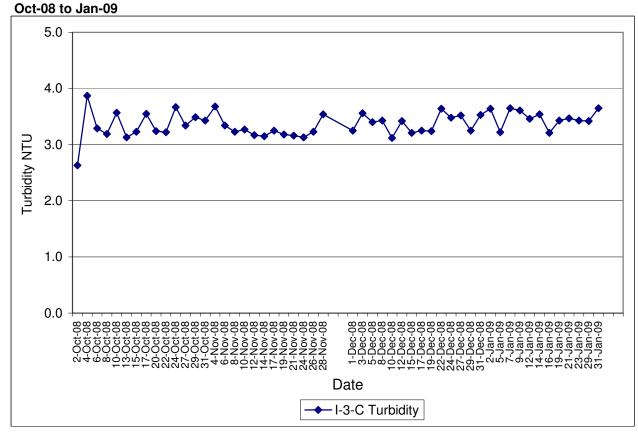
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Oct-08 to Jan-09



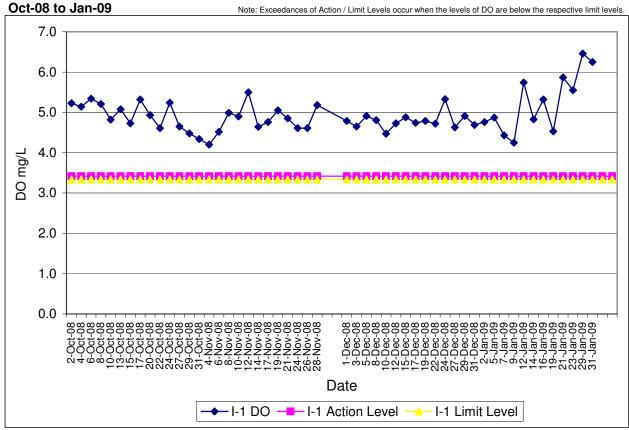
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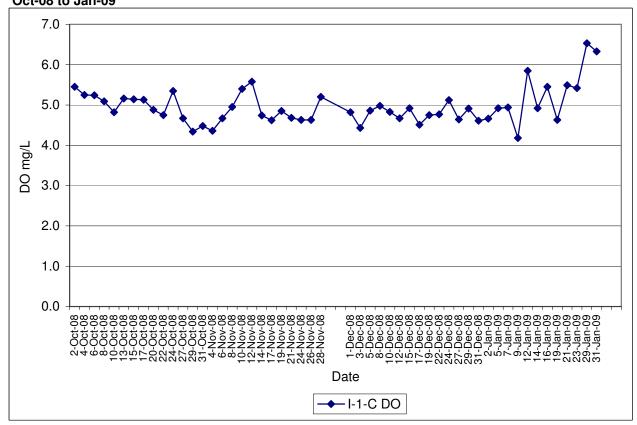
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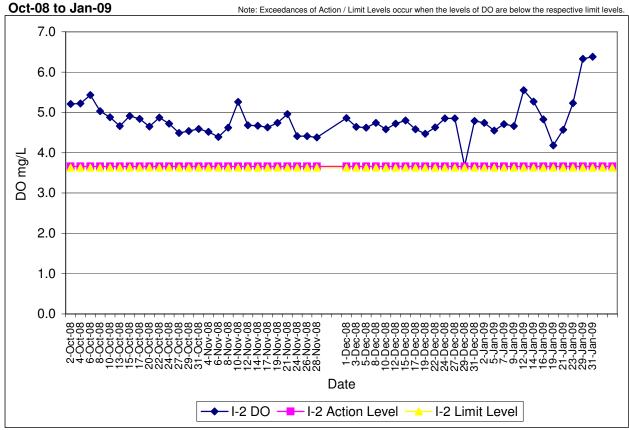
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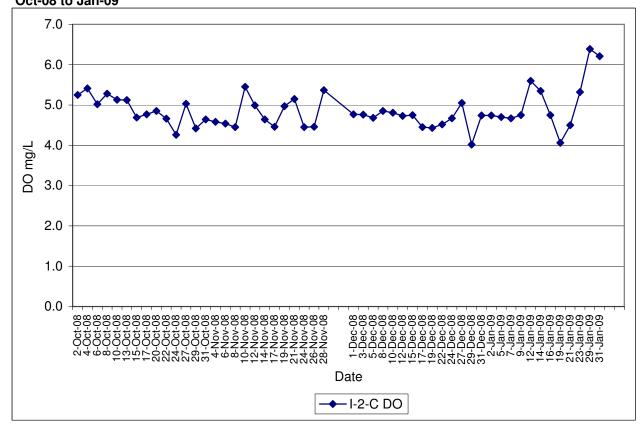
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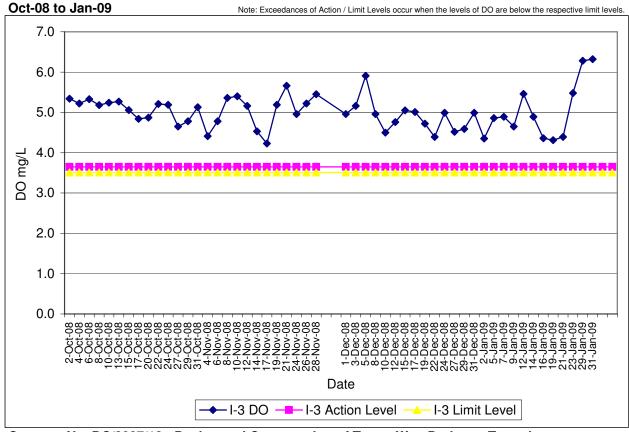
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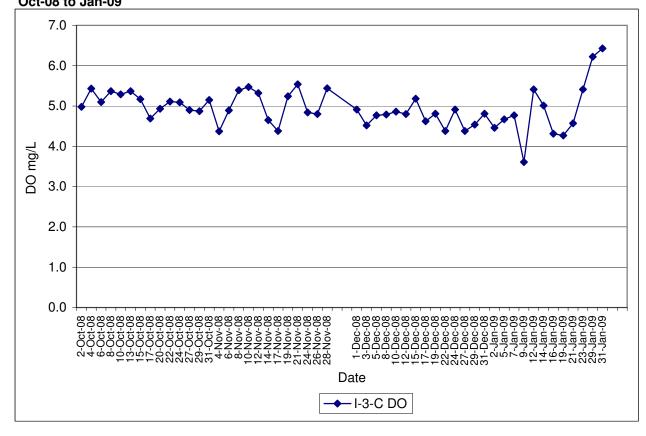
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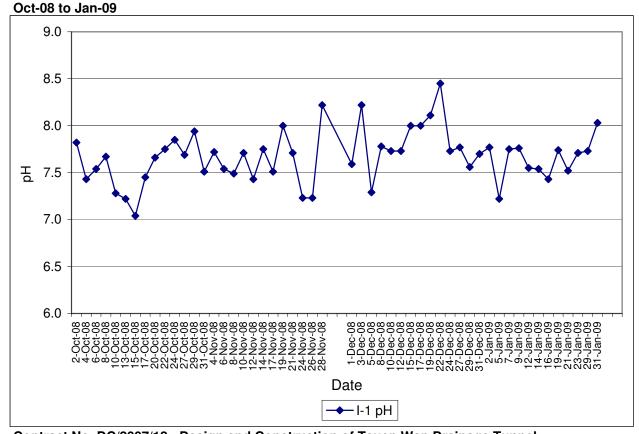
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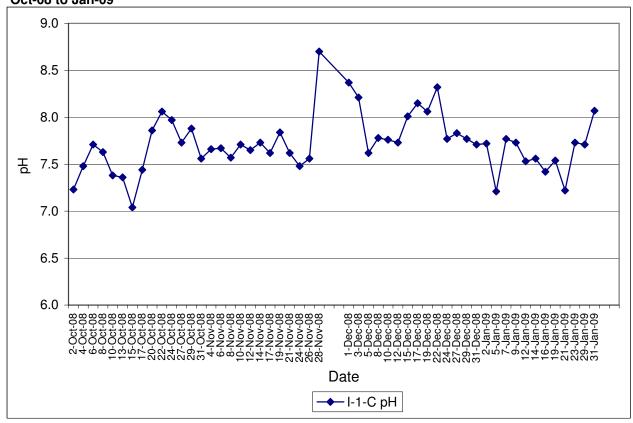
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Oct-08 to Jan-09



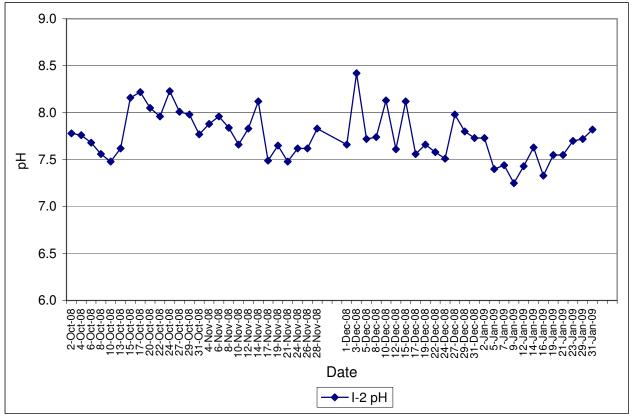
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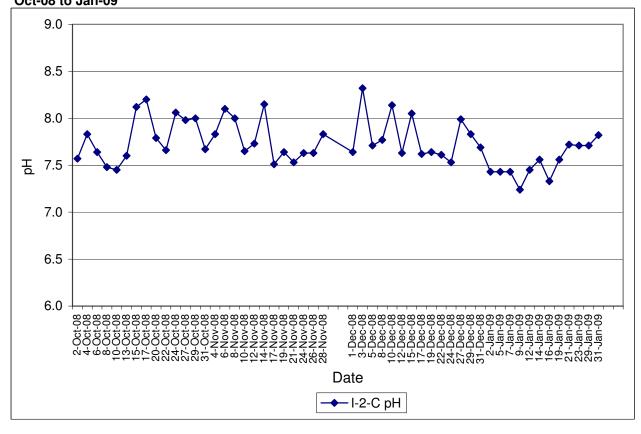
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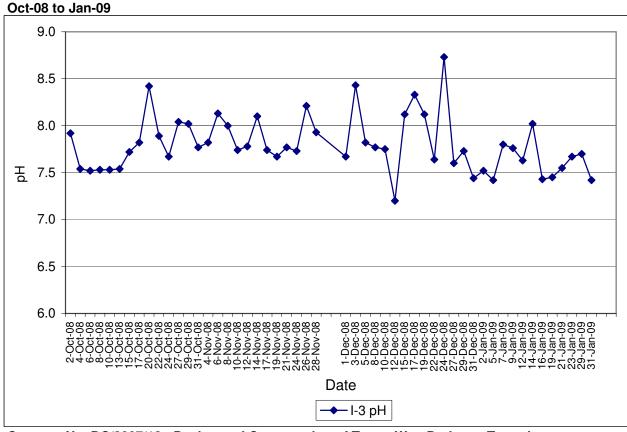
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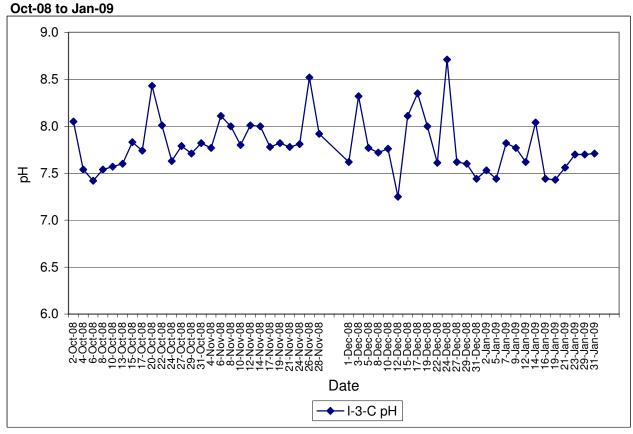
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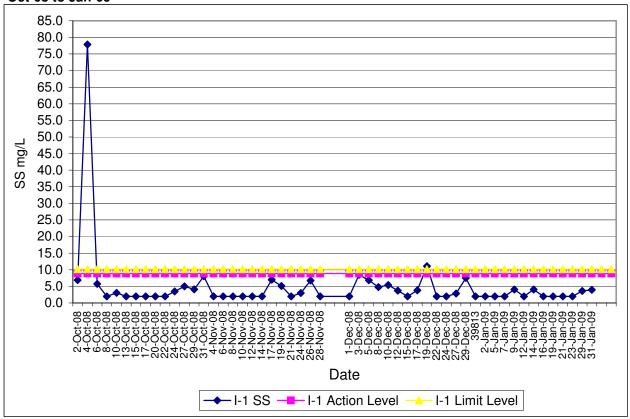
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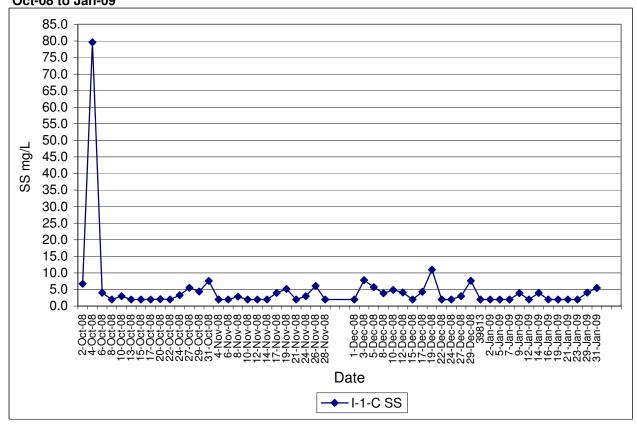
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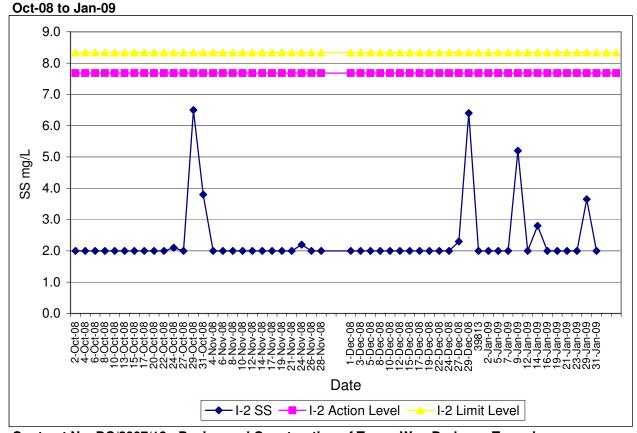
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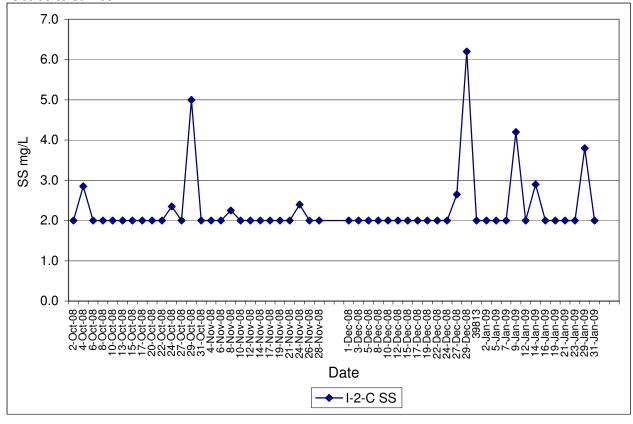
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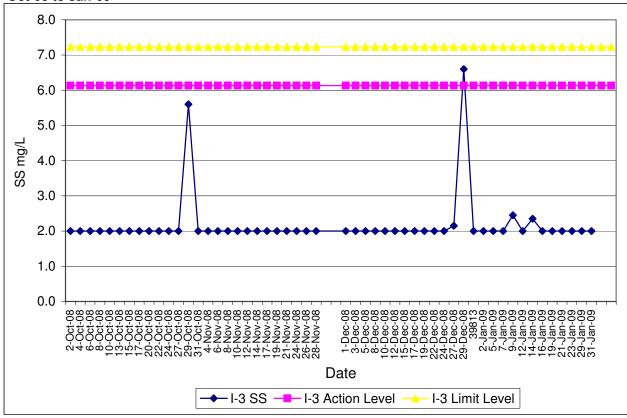
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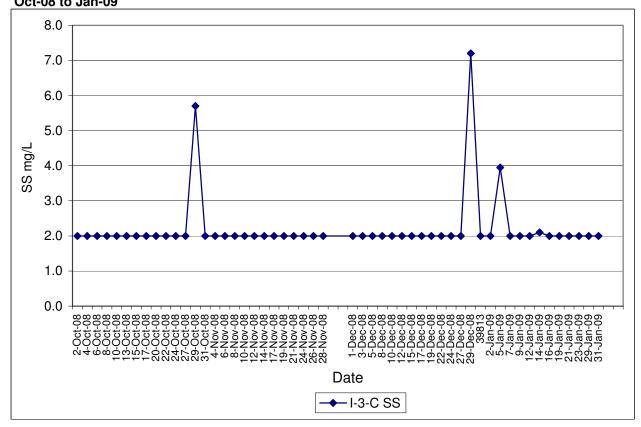
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Hong Hoi Chee Hong Temple (I-2-C) Oct-08 to Jan-09



Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Squatters (I-3)
Oct-08 to Jan-09



Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Squatters (I-3-C)
Oct-08 to Jan-09





# Appendix J

Interim Notifications of Environmental Quality Limits
Exceedances

### Interim Notifications of Environmental Quality Limits Exceedances

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

Project	Tsuen Wan Drainage Tunnel
Date	9-Jan-09
Time	10:20 AM
Monitoring Location	Hong Hoi Chee Hong Temple (I-2)
Parameter	Suspended Solid
Action & Limit Levels	7.68 / 8.34
Measured Level	5.2 (higher than 120% of control station's SS)
Possible reason for Action or Limit Level Non-compliance	A low SS level of 4.2 is recorded at Control Station (I-2-C)
Actions taken / to be taken	The measured SS level was below baseline Action / Limit Level and was within the range of baseline SS concentration (1-8.5mg/L). Site tidiness and cleanliness and drilling hole for air vent shaft construction were undertaken during the measurement and no direct disturbance was observed. Thus, the exceedance is considered to be contributed by natural variation and no action should be required.
Remarks	

Actions taken / to be taken	construction were undertaken during the measurement and no direct disturbance was observed. Thus, the exceedance is considered to be contributed by natural variation and no action should be required
Remarks	
Prepared by:	Antony Wong
Designation:	Environmental Team Leader
Signature:	Atomy

19-Jan-09

Date:

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

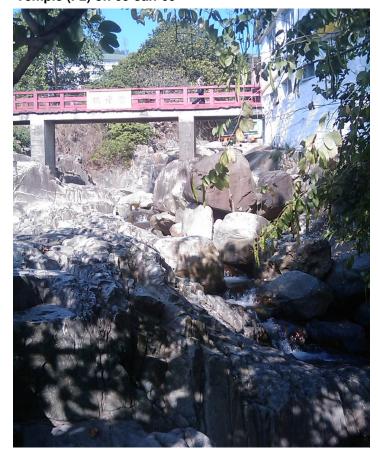


Photo taken at I-2

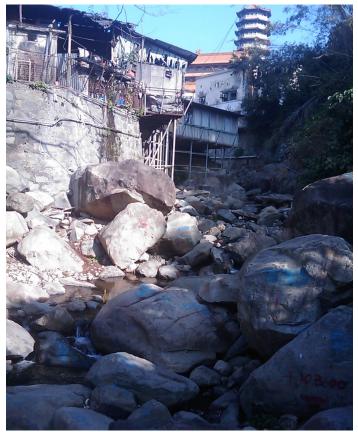


Photo taken at I-2-C

### Interim Notifications of Environmental Quality Limits Exceedances

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

Project	Tsuen Wan Drainage Tunnel
Date	9-Jan-09
Time	11:50 AM
Monitoring Location	Squatters (I-3)
Parameter	Suspended Solid
Action & Limit Levels	6.13 / 7.23
Measured Level	2.5 (higher than 120% of control station's SS)
Possible reason for Action or Limit Level Non-compliance	A low SS level of 2.0 is recorded at Control Station (I-3-C)
Actions taken / to be taken	The measured SS level was below baseline Action / Limit Level and was within the range of baseline SS concentration (1-7.5mg/L). Site tidiness and cleanliness, drilling pre-bore H-pile and installation of H-pile and grout pre-bore H-pile were undertaken during the measurement and no direct disturbance was observed. Thus, the exceedance is considered to be contributed by natural variation and no action should be required.
Remarks	

	exceedance is considered to be contributed by natural variation and no action should be required.
Remarks	
Prepared by:	Antony Wong
Designation:	Environmental Team Leader
Signature:	Atomy

19-Jan-09

Date:

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

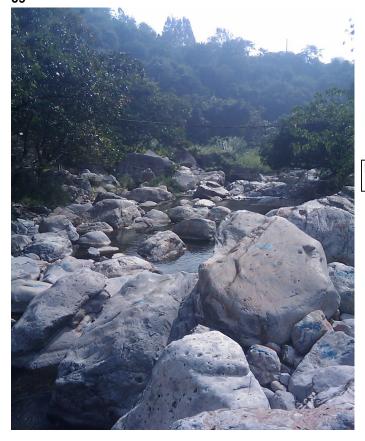


Photo taken at I-3



Photo taken at I-3-C