Maeda - CREC - SELI Joint Venture







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

Quarterly EM&A Report

(October - December 2008)

January 2009

Report no: EB000364R0152

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Quarterly EM&A Report (October - December 2008)

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January 2009

This report has been prepared for Maeda - CREC - SELI Joint Venture in accordance with the terms and conditions of appointment for Environmental Monitoring and Audit Manual 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

Consulting

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Executive Summary

- 1. This quarterly EM&A summary report under the Main Contract for the Design and Construction of Tsuen Wan Drainage Tunnel (hereafter referred to as the "Project") to Maeda-CREC-SELI Joint Venture (MCSJV), which summarises the findings of environmental impact monitoring works during the period from October to December 2008.
- 2. Noise monitoring was performed at five monitoring stations (NSR1, NSR3, NSR6, NSR8 and NSR9). Air quality monitoring was carried out at four monitoring stations (ASR1, ASR3, ASR8 and ASR9). Water quality monitoring was carried out at three monitoring stations (Intake I-1, Intake I-2 and Intake I-3). Noise level was measured in terms of L_{eq}, L₁₀ and L₉₀ (30min). Air quality was measured in terms of 1-hour Total Suspended Particulates (TSP). Water quality was measured in terms of Temperature, pH, Dissolved Oxygen (DO), Turbidity (Tby) and Suspended Solid (SS).
- 3. Details of all monitoring stations are summarized in the below table.

Type of Monitoring	Monitoring Station ID	Name of Premises	Status of Monitoring Works during the Reporting Period	
Air Quality	ASR1	Sik Sik Yuen Ho Fung College	Ongoing	
Monitoring	ASR3	Hong Hoi Chee Hong Temple	Ongoing	
	ASR8	Beach Tower (Long Beach Gardens)	Ongoing	
	ASR9	Greenview Terrace (Block 1)	Ongoing	
Noise Monitoring	NSR1	Sik Sik Yuen Ho Fung College	Ongoing	
	NSR3	Hong Hoi Chee Hong Temple	Ongoing	
	NSR6	Squatters	Ongoing	
	NSR8	Beach Tower (Long Beach Gardens)	Ongoing	
	NSR9	Greenview Terrace (Block 1)	Ongoing	
Water Quality	I-1	Intake I-1	Ongoing	
Monitoring	1-2	Intake I-2	Ongoing	
	I-3	Intake I-3	Ongoing	
	0-1	Outfall O-1	Not yet commenced until construction of rip rap is in place.	

- 4. The major construction activities undertaken by the Contractor during the period from October to December 2008 include pre-construction survey, site clearance; hoarding & fencing erection; tree transplanting; slope stabilization; soil nailing; pipe pile; relocation of verified boulder; formation of access road; and pre-bore H-piling.
- 5. No construction activities were carried out during the restricted hours during the reporting period.
- 6. One exceedance of Action Level for air quality monitoring related to Project activities were recorded on 27 November 2008 during the reporting period. Other exceedances for air quality monitoring were not related to Project activities. No project related exceedance of noise and water quality monitoring was recorded. The below table summarizes the exceedances of air quality, noise and water quality in the reporting period.

Parameter	Action Level Exceedance	Limit Level Exceedance
Air	 Two recorded on 11 October at ASR 1 (non project related) One recorded on 27 November at ASR 9 (project related) 	Nil
Noise	Nil	Nil
DO	Nil	Nil
Turbidity	Nil	Nil
SS	 One recorded on 29 October at I-2 (non project related) Two recorded at I-1 on 5 and 8 and19 December (non project related) One recorded on 29 December at I-3 (non project related) 	 Two recorded on 4 and 6 October at I-1 (non project related) One recorded on 31 October at I-2 (non project related) One recorded at I-1 on 17 November (non project related) One recorded at I-1 on 19 December (non project related)

7. Waste figures during the reporting period are summarized in the below table.

Status of Waste Management	
Inert C&D Material Disposed of to Public Fill at Tuen Mun (m³)	436.8
Inert C&D Material Reused in the Contract (m³)	10
Metals Generated (kg)	5
Paper / Cardboard Packaging (kg)	600.0
Plastics (kg)	0
Chemical Waste (kg)	0
General Waste Disposed of to NENT Landfill (m³)	30.3

- 8. No environmental complaint was received in the reporting quarter.
- 9. No Notification of Summons was received since the commencement of the Project.

1 Introduction

- 1.1.1 The Drainage Services Department (DSD) proposes to construct a tunnel of an internal diameter of 6.5m and length 5.13km, with the purpose to alleviate the flooding risk in Tsuen Wan and Kwai Chung.
- 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 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 commenced on January 2008. This is the third quarterly EM&A report summarising the impact monitoring results and audit findings of the EM&A program during the reporting period in October December 2008.

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 It is anticipated that the overall project programme from the detail design to completion of all civil works shall take approximately 54 months. The construction programme is presented in Appendix C.
- 2.2.2 The major construction activities undertaken in the reporting quarter are:
 - Site clearance:
 - Hoarding & fencing erection;
 - Tree survey & transplanting;
 - Slope stabilization;
 - Pre-construction survey;
 - Soil nailing;

- Relocation of verified boulder;
- Formation of access road; and
- Pre-bore H-piling

2.3 Mitigation Measures

2.3.1 The environmental mitigation measures that have been implemented and their status are given in Appendix D.

3 EM&A Requirement

3.1 General

3.1.1 The EM&A requirements are stipulated in the EM&A Manual. The principal purposes of the EM&A program are to assess the compliance with applicable environmental legislation and associated regulations; to ensure the implementation of mitigation measures specified in the EM&A Manual; and to identify any remedial works necessary for redressing any unacceptable or unanticipated environmental impacts.

3.2 EM&A on Air Quality; Noise and Water Quality

Monitoring Parameters

3.2.1 The air quality; noise and water quality frequencies and parameters are shown in Table 3-1.

Type of Monitoring	Monitoring Station ID	Parameter	Frequency
Air Quality Monitoring	ASR1; ASR3; ASR8 and ASR9	1-hour TSP	Once every 6-day
Noise Monitoring	NSR1; NSR3; NSR6; NSR8 and NSR9	Leq (30 min.)	Once every week
Water Quality Monitoring		` ` ,	Three days per
	I-3-C	SS (mg/l)	week
		Turbidity (NTU)	
		рН	
		Temperature (°C)	

Table 3-1 Frequency of Air Quality; Noise and Water Quality Monitoring

Monitoring Locations

3.2.2 The monitoring locations for air quality; noise and water quality are shown in Tables 3-2; 3-3; 3-4 and Appendix E.

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

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 3-3 Noise Monitoring Locations

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

Note: *Water quality monitoring will be undertaken when the construction of rip rap is in placed.

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

Table 3-4 Water Quality Monitoring Locations

Performance Limits (AL Levels)

3.2.3 In accordance with the EM&A Manual; the appropriate Action and Limit Levels for Air Quality; Noise and Water Quality were established and are presented in Tables 3-5; 3-6 and 3.7. Should non-compliance of the air quality; noise and water quality criteria occur; actions in accordance with the Event / Action Plan stipulated in contract specific EM&A Manual should be carried out.

Station	1-hr TSP Le	evel in µg/m³
Station	Action Level	Limit Level
ASR1	307	500
ASR3	327	500
ASR8	337	500
ASR9	329	500

Table 3-5 Action & Limit Levels for Air Quality

Time Period	Action	Limit
0700 – 1900 hrs on normal weekdays		75 dB(A)*
0700 – 2300 hrs on holidays; and	When one documented complaint	70 dB(A)
1900 – 2300 hrs on all other days	is received	
2300 – 0700 hrs of next day		55 dB(A)

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

Table 3-6 Action & Limit Levels for Noise

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 3-7 Action & Limit Levels for Water Quality

Monitoring Result

3.2.4 A summary of air quality monitoring results is presented in Table 3-8 and Appendix F.

Monitoring		1-hour TSP (μg/m	3)	Action Level	Limit Level
Station		Range		(μg/m³)	(μg/m³)
ASR1	10.1	-	520.9	307	500
ASR3	19.1	-	215.3	327	500
ASR8	20.8	-	258.6	337	500
ASR9	16.7	-	376.0	329	500

Italic indicates the exceedances of Action Levels

Bold indicates the exceedances of Limit Levels

Table 3-8 Summary of Air Quality Monitoring Results

- 3.2.5 A total of one project related and two non project related exceedances were recorded in the reporting period.
- 3.2.6 Two non project related exceedance of 1-hr TSP were recorded at ASR 1 on 11 October 2008. The 2nd and 3rd measurements of 1-hr TSP monitoring at ASR 1 were exceeded Action and Limit Levels respectively. River clearance by a small backhoe was undertaken during measurement and no major fugitive dust was generated from on-site activities. In addition, emission from the stockpiled construction material arising from renovation works within Ho Fung College was observed. As such, it is concluded that both exceedances were not project related.
- 3.2.7 One project related exceedance of 1-hr TSP monitoring at ASR 9 was recorded on 27 November 2008. The 1st measurement of 1-hr TSP monitoring at ASR 9 has exceeded Action Level. Fugitive dust generated from tree logging and site tidiness was observed during the measurement of 1st 1-hr TSP monitoring. Contractor had immediately provided water spraying for dust suppression.
- 3.2.8 All measured noise monitoring levels were complying with the Action and Limit Levels in the reporting period. A summary of noise monitoring results is presented in Table 3-9 and Appendix F.

Monitoring Station	Le	q (30mins) di	B(A)	Limit Level
		Range		dB(A)
NSR1	62	-	68	65 / 70*
NSR3	60	-	73	75
NSR6	60	-	63	75
NSR8	59	-	67	75
NSR9	59	-	66	75

Bold indicates the exceedances of Limit Levels

Table 3-9 Summary of Impact Noise Monitoring Results

- 3.2.9 A summary of water quality monitoring results is presented in Table 3-10 and Appendix F.
- 3.2.10 None of exceedance related to project construction activities was recorded during reporting quarter but a total of nine non project related exceedances were recorded.
- 3.2.11 A total of four non project related exceedances were recorded in October 2008 including:
 - exceedance of Baseline Limit Level of SS recorded at I-1 on 4 October was contributed by muddy water generated from CEDD's project (Yick Hing) at upper stream;
 - exceedance of Control Limit Level of SS (130% higher than I-1-C) was recorded at I-1 on 6 October but no direct disturbance was observed contributed by the project construction activities.
 - exceedance of Control Action Level of SS (120% higher than I-2-C) recorded at I-2 on 29 October was well below both Baseline Action & Limit Levels and no direct disturbance was observed contributed by the project construction activities
 - exceedance of Control Limit Level of SS (130% higher than I-2-C) recorded at 31 October at I-2 was well below both Baseline Action & Baseline Limit Levels and no direct disturbance was observed contributed by project construction activities.
- 3.2.12 One non project related exceedance was recorded in November 2008 including:
 - exceedance of Control Limit Level of SS (130% higher than I-1-C) recorded at I-1 on 17 November was well below both Baseline Action & Limit Levels and no direct disturbance was observed contributed by the project construction activities
- 3.2.13 A total of four non project related exceedance were recorded in December 2008 including:
 - exceedance of Control Action Level of SS (120% higher than I-1-C) recorded at I-1 on 5 and 8 December was below both baseline Action and Limit Levels and was within the range of baseline SS concentration and exceedance was considered to be contributed by natural variation

^{*} Noise limit level at NSR 1 reduces from 70dB(A) to 65 dB(A) during examination period from 4 to 18 December 2008.

- exceedance of Limit Level of SS recorded at I-1 on 19 December was over both Baseline Action and Limit Levels, but was below both 120% and 130% of the measured level at Control Station and no direct disturbance was observed contributed by project construction activities
- exceedance of Action Level of SS was recorded at I-3 on 29 December was over Baseline Action Level, but the measured SS level was well below both 120% and 130% of the measured level at Control Station and no direct disturbance was observed contributed by project construction
- 3.2.14 Details of the above mentioned exceedance investigations could be referred to the notifications of exceedances as enclosed in Appendix G.

Monitoring	Temperature	DO (mg/L)	рН	Turbidi	ty (NTU)	Suspended	Solid (mg/L)
Station	Range	Range	Action / Limit Level	Range	Range	Action / Limit Level	Range	Action / Limit Level
I-1	15.80 - 26.55	4.20 - 5.50	3.42/3.34	7.04 - 8.45	3.08 - 9.28	9.75/12.47	2.00 - 77.85	8.85/10.17
I-1-C	15.80 - 26.40	4.34 - 5.58	-	7.04 - 8.70	3.14 - 10.14	-	2.00 - 79.60	-
I-2	16.20-26.55	3.67 - 5.43	3.66/3.63	7.48 - 8.42	2.96 - 5.43	6.63/6.99	2.00 - 6.50	7.68/8.34
I-2-C	16.30-27.00	4.02 - 5.45	-	7.45 - 8.32	3.07 - 6.58	-	2.00 - 6.20	-
I-3	14.40-26.60	4.23 - 5.91	3.65/3.51	7.20 - 8.73	2.59 - 3.76	3.99/4.18	2.00 - 6.60	6.13/7.23
I-3-C	14.50-26.80	4.37 - 5.54	-	7.25 - 8.71	2.63 - 3.87	-	2.00 - 7.20	-

Note: Italic indicates the exceedances of Action Levels

Bold indicates the exceedances of **Limit Levels**

Table 3-10 Summary of Impact Water Quality Monitoring Results

4 Quarterly Summary; Environmental Condition and Non-Compliance Records

4.1 Summary of Waste Disposal Records

4.1.1 According to the information provided by the Contractor; the quantities of C&D materials in the reporting period are summarized in Table 4-1.

Status of Waste Management	October 08	September 08	December 08
Inert C&D Material Disposed of to Public Fill at Tuen Mun (m³)	232.4	60.3	144.1
Inert C&D Material Reused in other Contract (m³)	Nil	Nil	10
Metals Generated (kg)	Nil	Nil	5
Paper / Cardboard Packaging (kg)	200	250	150
Plastics (kg)	Nil	Nil	Nil
Chemical Waste (kg)	Nil	Nil	Nil
General Waste Disposed of to NENT Landfill (m³)	12	12.1	6.2

Table 4-1 Waste Generated from October to December 2008

4.2 Weather Conditions

4.2.1 The weather conditions during the period from October to December 2008 were mainly sunny, and occasional cloudy weather.

4.3 Summary of Project-Related Exceedances

4.3.1 Summary of exceedance results are summarized in Table 4-2. For the exceedances that are considered to be non-related to the construction activities; please refer to the monthly EM&A reports separately. Appendix G shows the Interim Notifications of Environmental Quality Limits Exceedances recorded in the reporting period.

Environmental Monitoring	Total No. of Measurement	Action Level Exceedance	% of Action Level Exceedance	Limit Level Exceedance	% of Limit Level Exceedance
Air Quality	192	1	0.5	0	0
Noise	65	0	0	0	0
Water	240*	0	0	0	0

^{*}A total of 84 water monitoring was undertaken in December 2008.

Table 4-2 Summary of Project- related Exceedances

February 2009

5 Complaint

5.1.1 No complaint was received during the reporting period. Cumulative statistics of environmental complaints are shown in Table 5-1.

Complaints Received in the Reporting Period	Cumulative Number of Complaints
0	0

Table 5-1 Cumulative Statistic of Environmental Complaints

6 Summary of Notification of Summons; Successful Prosecutions and Corrective Actions

- 6.1.1 No summons and successful prosecution was received during the reporting period.
- 6.1.2 Cumulative statistics of Notification of Summon; Successful Prosecutions and Convictions are shown in Table 6-1.

Notification of	of Summons	Successfu	Prosecution
October - December 08	Cumulative	October - December 08	Cumulative
0	0	0	0

Table 6-1 Cumulative Statistics of notification of summons and successful prosecutions

7 Comments; Recommendations and Conclusion

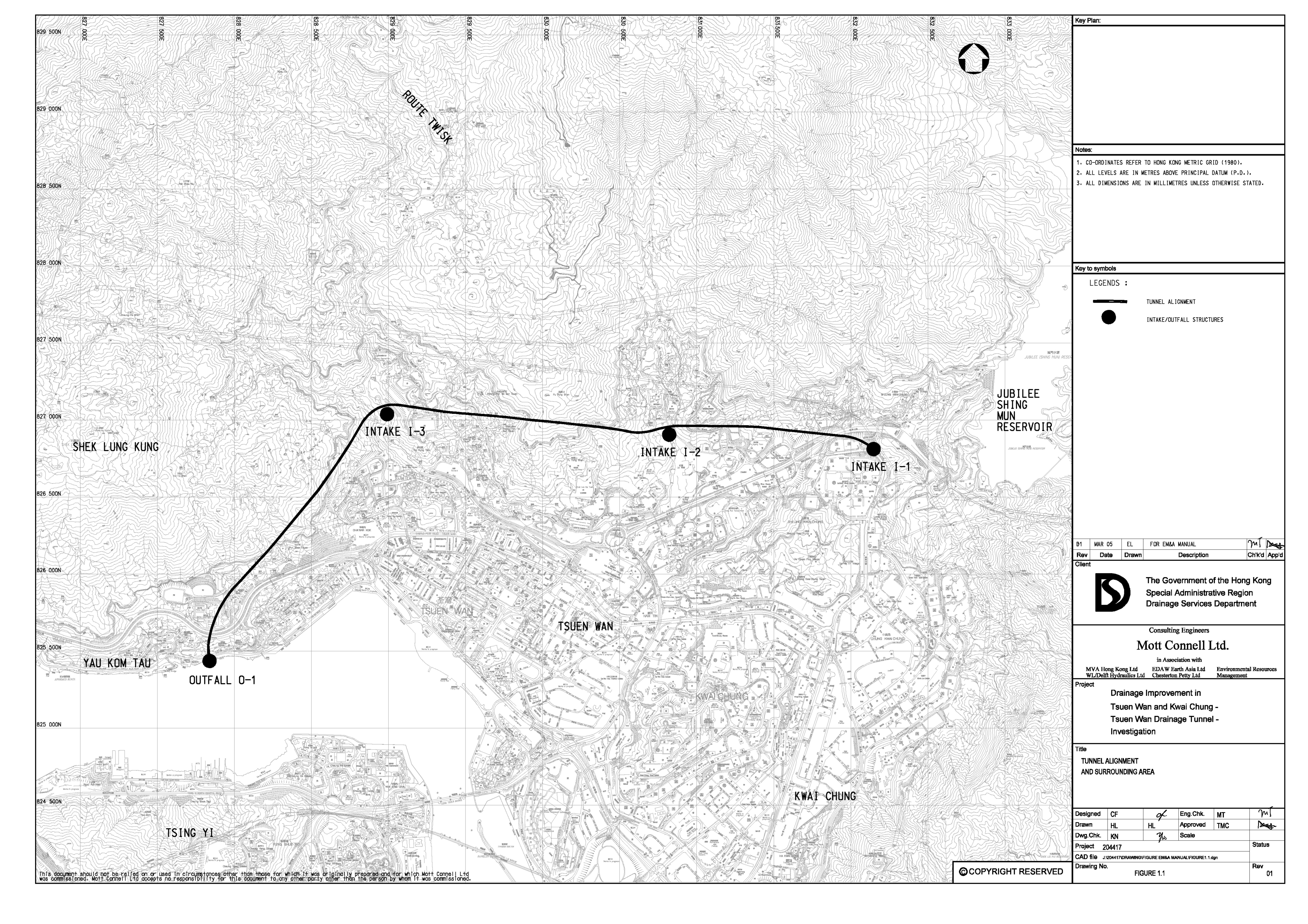
- 7.1.1 During the reporting period, one project related exceedance of air quality monitoring was recorded on 27 November 2008. Other exceedances for air quality monitoring were not related to Project activities. Exceedances of water quality monitoring were recorded but none of these exceedances were related to Project's construction activities.
- 7.1.2 No construction noise complaint was received and all measured construction noise levels were below Limit Level in the reporting period.
- 7.1.3 Waste management mitigation measures have been implemented by the Contractor within the reporting period. Waste figures during the reporting period are summarized in the below table.

Status of Waste Management	
Inert C&D Material Disposed of to Public Fill at Tuen Mun (m³)	436.8
Inert C&D Material Reused in the Contract (m³)	10
Metals Generated (kg)	5
Paper / Cardboard Packaging (kg)	600.0
Plastics (kg)	0
Chemical Waste (kg)	0
General Waste Disposed of to NENT Landfill (m³)	30.3

- 7.1.4 No environmental complaint was received during the reporting period.
- 7.1.5 No Notification of Summons has been received since the commencement of the Project.
- 7.1.6 The environmental performance of the Contractor during the reporting period was considered satisfactory.

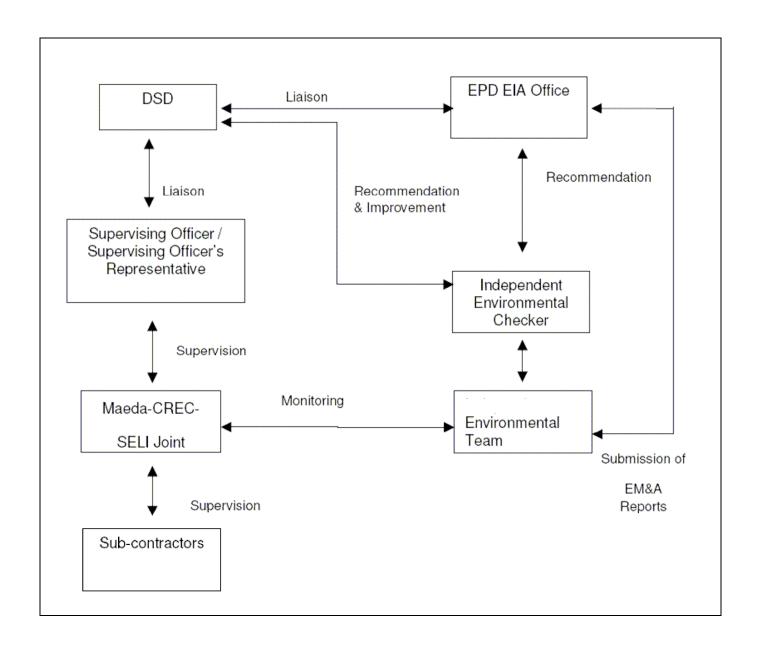
Appendix A

Site Map and Works Area



Appendix B

Organization Chart



document2 1:1

Appendix C

Work 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	01 R00000308
Fermily the satisfaction of the SO	1	14APR08	28JAN08	8	Erect SO's principle office in Portion H1/H2	01R0000306
<u>.</u>	1	11MAR08	28JAN08	35	5 Erect Hoarding/Signboard/Gate/Fencing	01R0000305
To the satisfaction of SOsubmit detailed propasal 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 control of 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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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	
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
EarVile Unitem		
01R0000902 Nominate Environmental Officer	14 14PEC07 97PEC07 0 PEC B 1 CL	
	140EC07 03 IANDS 2 0	
01R0000904 Submit draft EMP	14DEC07 03.IAN08 2 0	
01R0000906 Revise draft EMP within 7 days of SO's notice	04JAN08 17JAN08 2	
01R0000908 Submit final version of EMP	14DEC07 27JAN08 2 0 Mas ne	
01R0000910 Review/update/submit EMP monthly	2 28JAN08 26JUL12 2 0	
	03JAN08 2	Owner control or and a second
01R0000914 Submit Baseline Monitoring Plan	28DEC07 17JAN08 2 0	•
01R0000915 Seek for EPD's Agreement on WQML & schedule	21 18JAN08 07FEB08 2 0 F	
- 1	-	
	20 27FEB08 17MAR08 2 0 Efer approval of the SO	: 1
- 1	1,592 18MAR08 26JUL12 2 0	
17R0000902 Fulfill all relevant environmental obligation	1,673 28DEC07 26JUL12 2 0	

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Everyation Permittiffilms sersions as		3284656 3284656
	7 14DEC07 20DEC07 2 0 as per SCC83; within 7 days of LOAlternet Interface Utility Management System	•
	14 21DEC07 03JAN08 2 21 M	
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- 1	21 04JAN08 24JAN08 2 21 📴	
l	7 25JAN08 2 22 1	
01R0001014 Process XP Application by HYD & others	20FEB08 2	
01R0001016 Issue of XP	20FEB08 2 22 ♦	
Presonstruction condition survey.		-
018000102 Amoint a Arralling Standard Emission	COLUMN TO THE PROPERTY OF THE	
	28DEC07 26JAN08 2 4	
į.	28DEC07 26JAN08 2	
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01R0001108 Prepare/submit reports for pre-construction C.S.	72 05FEB08 07MAY08 1	=
TRATIL		
01R0001202 Appoint Traffic Consultant/Traffic Engineer	14 14DEC07 27DEC07 2 7 8	
01R0001204 Eng's Approval of Traffic Consultant	03JA	
01R0001206 Prepare/submit TTA Schemes (ingress & egress)	14 04JAN08 17JAN08	
ļ.,,	21	
01R0001234 Approval of TTA schemes by the Authorities	28 08FEB08 06MAR08 2 7 THIND & Police ER.B(1.15(9) refers	
Management of Subsequified of Saspersoo		
Od Doortoo S. though S. th.		
Of BOOM 304 Submit Quarterly the Undeted SMB		
100	72AU	S Jedanson
6 00-1		
01R0001502 Appoint Landscape Specialist Contractor	14 14DEC07 27DEC07 2 83	
01R0001504 SO's Approval of Landscape Contractor	7 28DEC07 03JAN08 2 83	
01R0001506 Nominate competent person to oversee tree works	45 14DEC07 27JAN08 2 59 THER 26.02A; within 45 dyas of LOA	•
ļ	90 28DEC07 26MAR08 2 0	
01R0001512 Remove / Transplant Trees start	2 0 DER 1.5.3(2) within 3 months from DOC	
FAIR		
01R0001602 Appoint Surveyors	14 28DECO7 101ANOR 2 17 8	
T	11 IANIDO 17 IANIDO	
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7	100/19/00 CZT CDUO 11 11 4 4 4 4 ERSPENDENCE CONTROL OF	•
1 1	COLUMN INCIDENTIAL PROPERTY CONTROL OF THE PROPERTY CO	

Description	Dur Slar	Finish ID Float	DIN EMAMMERASION DE IEMANINE EN ANTION DIN EMANINE SON DE EN ANTION DE INSTITUTION DE INTERNATION DE INTERNATIO
01R0002402 Propose the design of web page	30 28DEC07	26JAN08 2 0	Envithin 1 month from DOC
01R0002404 Produce the web page for approval of SO	30 27JAN08	25FEB08 2 0	within 2 months from DOC
	30 26FEB08	26MAR08 2 0	
01R0002408 Submit updated web pages monthly	1,613 27MAR08	25AUG12 2 0	
รางเรื่องและเป็นจะเขาสู่เก็บการสู่เก็บการสู่เก็บการสู่เก็บการสู่เก็บการสู่เก็บการสู่เก็บการสู่เก็บการสู่เก็บกา			
01R0002501 1R 1; On provision of SO's Accommodation	0	14APR08 2 1.624	Saccommodation for accupation as ner App. FR M
01-70002502 1R 2; On providing documents of effected CWI	0		Care of the works insurance has been effected
Ī 7	0	03JAN08 2 1,726	Std party insurance has been effected
	0	03JAN08 2 1,726	◆P.1. Insurance has been effected.
Ţ	0	26MAR08: 2 1,643	Aland transpoert delivered for use of the SO
	0	14APR08 2 1,624	Computer facilities for use of the SO
- 1	0	25SEP09 2 1,095	◆detailed CRA incl. pre-condition 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	Of 3 mths 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
Ī	0	2	♦of all obligations by this CS 6 miths from DOC
Ť	0	25SEP08 2 1,400	♦of all obligations by this CS 9 mths from DOC
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	0	27MAR09 2 1,217	of all obligations by this CS 15 mths frm DOC
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Ī	0	2	Or all obligations by this CS 21 mths frm DOC
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- " 	0	26DEC10 2 578	of all obligations by this CS 36 mths frm DOC◆
	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 axcept:Section 7.◆
	0	260CT11 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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02L10D0114 Approval of Design Checker by the SO	28 11JAN08 07FEB08 2 1
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	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
02:L1DD0312 AIP submission for rel. authorities' approval	1 15MAR08 1 13 1
02L1DD0314 Design (AIP) review by the rel. authorities	28 16MAR08 12APR08 2 20 🖾
02L1DD0316 Obtain rel. 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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i	1 20JUN08 20JUN08 1 16
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
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02L1DD0418 Obtain SO's consent for design (AIP)	0 11MAR08 2 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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02L1DD0436 Obtain SO's consent for design (DDA)	0	24APR08 2	-	The control of the co
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- 1	14	29FEB08 13MAR08 2	m	36
02L1DD0506 Design (AIP) submission for the SO's approval	-	14MAR08 14MAR08 1	2	
	14	15MAR08 28MAR08 2	က	
	0	28MAR08 2	က	
02L1DD0512 AIP submission for rel. authorities' approval	-	29MAR08 29MAR08 1	Ø	
02L1DD0514 Design (AIP) review by the rel. authorities	24	30MAR08 19APR08 2	60	
	-	21APR08 21APR08 1	23	
- 1	0	22APR08 2	2	•
02L1DD0520 Design preparation for the DDA submission	14	16APR08 29APR08 2	CVI	136
02L1DD0522 Design (DDA) certification by the Design Checker	14	30APR08 13MAY08 2	7	
02L1DD0524 Design (DDA) submission for the SO's approval	-	14MAY08 14MAY08 1	2	
02L1DD0526 Design (DDA) review by the SO	14	15MAY08 28MAY08 2	2	
02L1DD0528 Obtain design (DDA) approval from the SO	0	28MAY08 2	7	•
02L1DD0530 DDA submission for rel. authorities' approval		29MAY08 29MAY08 1	CJ	
02L1DD0532 Design (DDA) review by the rel. authorities	21	30MAY08 19JUN08 2	က	
02L1DD0534 Obtain rel. authorities's approval for DDA	-	20JUN08 20JUN08 1	2	
02L1DD0536 Obtain SO's consent for design (DDA)	0	21JUN08 2	60	· · · · · · · · · · · · · · · · · · ·
Site Formation Design; +24mPD to 14mPD				
02L1DD0602 Design preparation for the AIP submission	14	29FEB08 13MAR08 2	32	
	14	14MAR08 27MAR08 2	25	255
	-	28MAR08 28MAR08 1	ଯ	
ī	44	29MAR08 11APR08 2	83	
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02L1DD0616 Obtain rel. authorities's approval for AIP		13MAY08 : 13MAY08 1	23	
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02L1DD0620 Design preparation for the DDA submission	44	08MAY08 21MAY08 2	ន	
02L1DD0622 Design (DDA) certification by the Design Checker	14	22MAY08: 04JUN08 2	ສ	ESS
02L1DD0624 Design (DDA) submission for the SO's approval	-	05JUN08 05JUN08 1	<u>6</u>	
02L1DD0626 Design (DDA) review by the SO	4	06JUN08 19JUN08 2	24	
02L1DD0628 Obtain design (DDA) approval from the SO	0	19JUN08 2	24	•
02L1DD0630 DDA submission for ref. authorities' approval	-	20JUN08 20JUN08 1	19	
	58	21JUN08 18JUL08 2	24	
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02L1DD0636 Obtain SO's consent for design (DDA)	0	21JUL08 2	23	•

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TBM Launching Chamber Design	Managara Ma	849505152533455585758598061626364658
02L1DD0702 Design preparation for the AIP submission	15 14MAR08 28MAR08 2 36 B	P1 to ABOU
- 1	15 29MAR08 12APR08 2 36 B	
,	1 14APR08 14APR08 1 28	
T.	30 15APR08 14MAY08 2 35 ES	
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02L1DD0716 Obtain ref. authorities's approval for AiP	1 13JUN08 13JUN08 1 29	
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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 27JUJ.08 2 77	
02L1DD0810 Obtain design approval from the SO	27JUL.08	
Steel Platform & Hopper Design		
- 1	30 12JUN08 11JUL08 2 47	
T	15 12JUL08 26JUL08 2 47 R	
	28JUL08	
	29JUL08 27AUG08 2	
02L1DD0910 Obtain design approval from the SO	0 :27AUG08 2 46	
Overhead Gantry Support & Noise Enclosure Design		
	30 28APR08 27MAY08 2 47	·
- 1	11JUN08 2	
1	1 12JUN08 1 50	
02L1DD1008 Design review by the SO	30 13JUN08 12JUL08 2 60 🖾	
	0 12JUL08 2 60	
02L1DD1012 Design submission for rel. authorities' approval	1 14JUL08 1 51	
	28 15JUL08 11AUG08 2 59 E	
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02L1DD1018 Obtain SO's consent for design	0 13AUG08 2 60	

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ELS Design for Spiral Ramp & Vehicular Access		110 1114 111 11 11 11 11 11 11 11 11 11 11
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	E22
02L1DD1106 Design (AIP) submission for the SO's approval	1 19MAY08 19MAY08 1 109	
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- 1	0 18JUL08 2 130	•
02L1DD1112 AIP submission for rel. authorities' approval	1 19JUL08 19JUL08 1 108	
02L1DD1114 Design (AIP) review by the rel. authorities	21 20JUL08 09AUG08 2 130	The state of the s
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	E
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	ŀ	
02L1DD1136 Obtain SO's consent for design (DDA)	0 17DEC08 2 131	
ELS Design for Box Culvert & Open Channel		The state of the s
021.1DD1202 Design preparation for the AIP submission	30 12JUL08 10AUG08 2 262	
02L1DD1204 Design (AIP) certification by the Design Checker	09SEP08 2	
02L1DD1206 Design (AIP) submission for the SO's approval	1 10SEP08 10SEP08 1 209	
02L1DD1208 Design (AIP) review by the SO	60 11SEP08 09NOV08 2 263	
02L1DD1210 Obtain design (AIP) approval from the SO	0 09NOV08 2 263	
02L1DD1212 AIP submission for rel. authorities' approval	1 10NOV08 10NOV08 1 212	
02L1DD1214 Design (AIP) review by the rel. authorities	28 11NOV08 08DEC08 2 263	
02L1DD1218 Obtain SO's consent for design (AIP)	10DEC08 2	
02L1DD1220 Design preparation for the DDA submission	30 18NOV08 17DEC08 2 264	
02L1DD1222 Design (DDA) certification by the Design Checker	30 18DEC08 16JAN09 2 264	8 -
02L1DD1224 Design (DDA) submission for the SO's approval	1 17JAN09 1 213	
02L1DD1226 Design (DDA) review by the SO	. 60 18JAN09 18MAR09 2 264	
02L1DD1228 Obtain design (DDA) approval from the SO	21	
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		
	08FEB08 08MA	
02L1FF0104 Design (AIP) certification by the Design Checker		585
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02L1FF0106 Design (AIP) submission for the SO's approval	- 25	25MAR08 25MAR08 1	1	
02L1FF0108 Design (AIP) review by the SO	60 26	26MAR08 24MAY08 2	-	
02L1FF0110 Obtain design (AIP) approval from the SO	0	24MAY08 2		•
02L1FF0112 AIP submission for rel. authorities' approval	1 26	26MAY08 26MAY08 1	o	
- 1	_	23.1	0	
02L1FF0116 iObtain rei, authorities's approval for AIP		+	0	
102L1FF0120 Design preparation for the DDA submission	30	O3.II INOB 02.II II 08 2	0 0	
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02L1FF0124 Design (DDA) submission for the SO's approval	-	18JUL08 18JUL08 1	0	
02L1FF0126 Design (DDA) review by the SO	60 15	19JUL08 16SEP08 2	0	
02L1FF0128 Obtain design (DDA) approval from the SO	0	16SEP08 2	0	•
- 1	17	7SEP08 17SEP08 1	٥	
02L1FF0132 Design (DDA) review by the rel. authorities	28 18	18SEP08 15OCT08 2	0	56
02L1FF0134 Obtain rel. authorities's approval for DDA	1-16	16OCT08 16OCT08 1	0	
02L1FF0136 Obtain SO's consent for design (DDA)	0	17OCT08 2	0	
Impact Assessment on WSD Yau Kam Tau WTW				
02L1FF0202 Design preparation for the AIP submission	30 06	09MAR08 07APR08 2	107	
02L1FF0204 Design (AIP) certification by the Design Checker	15 08	08APR08 22APR08 2	107	
02L1FF0206 Design (AIP) submission for the SO's approval	1 23	23APR08 23APR08 1	88	
02L1FF0208 Design (AIP) review by the SO	45 24	24APR08 07JUN08 2	107	
02L1FF0210 Obtain design (AIP) approval from the SO	0	07JUN08 2	107	•
021.1FF0212 AIP submission for rel. authorities' approval	-	10JUN08 10JUN08 1	88	
02L1FF0214 Design (AIP) review by the rel. authorities	28 11	11JUN08 08JUL08 2	105	
02L1FF0216 Obtain rel. authorities's approval for AIP	1	09JUL08 09JUL08 1	87	
02L1FF0218 Obtain SO's consent for design (AIP)	0	· ··•••	105	
02L1FF0220 Design preparation for the DDA submission	30 18	18JUN08 17JUL08 2	105	
02L1FF0222 Design (DDA) certification by the Design Checker	15 18	18JUL08 01AUG08 2	105	
02L1FF0224 Design (DDA) submission for the SO's approval	- 8	02AUG08 02AUG08 1	87	
02L1FF0226 Design (DDA) review by the SO	45 03	03AUG08 16SEP08 2	50	
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02L1FF0236 Obtain SO's consent for design (DDA)	0	17OCT08 2	107	
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02L1FF0330 DDA submission for rel. authorities' approval	1 27AUG08 27AUG08 1 3	
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02L1FF0402 Design preparation for the AIP submission	30 08APH08 07MAY08 2 190	
02L1FF0404 Design (AIP) certification by the Design Checker	15 08MAY08 22MAY08 2 190	
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	
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02L1FF0414 Design (AIP) review by the rel. authorities	28 24JUL08 20AUG08 2 191	
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02L1FF0424 Design (DDA) submission for the SO's approval	1 16SEP08 16SEP08 1 155	
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02L1AA0108 Design review by the SO	28 08MAR08 04APR08 2 29 E2
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02L1AA0202 Design preparation for the AIP submission	15 22FEB08 07MAR08 2 22 8
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02L1AA0206 Design (AIP) submission for the SO's approval	1 25MAR08 25MAR08 1 16 E
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	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
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122	15 14SEP08 28SEP08 2 322	02L1GG0104 Design (AIP) certification by the Design Checker
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•	0 14AUG08 2 322	02L1CC0736 Obtain SO's consent for design (DDA)
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	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
200	15 31MAY08 14JUN08 2 319	02L1CC0722 Design (DDA) certification by the Design Checker
	30 01MAY08 30MAY08 2 319	02L1CC0720 Design preparation for the DDA submission
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	1 25MAR08 25MAR08 1 259	02L1CC0706 Design (AIP) submission for the SO's approval
622	15 09MAR08 23MAR08 2 319	02L1CC0704 Design (AIP) certification by the Design Checker
	15 23FEB08 08MAR08 2 262	02L1CC0702 Design preparation for the AIP submission
		Boulder Assessment & Design for Stabili. Measure
•	0 02FEB09 2 413	02L1CC0636 Obtain SO's consent for design (DDA)
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		Design for Communication System
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•	0 07FEB09 2 631	02L1GG0328 Obtain design (DDA) approval from the SO
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	15 14OCT08 28OCT08 . 2 630	02L1GG0302 Design preparation for the AIP submission
		ELS Design for Pipe Jacking at Portion G
•	0 24JAN09 2 438	02L1GG0228 Obtain design (DDA) approval from the SO
	28 28DEC08 24JAN09 2 438	02L1GG0226 Design (DDA) review by the SO
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		Temp. Platform Design for H-Piling at Portion G
	0 09APR09 2 323	02L1GG0136 Obtain SO's consent for design (DDA)
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TBM advances; CH-8005-3005	5), within 6 months of DOCTOT the design of pre-excavation grouning at F1	000	1000000	
Install book-up system (13 deds + 2 pateromes)		0	09DEC08	TBM mobilization to tunnel face (CH5085)
ITAM advances: CH 5005-5075 ITAM		1	11DEC08	Install back-up system (3 decks + 3 platforms)
TBM advances; P7 CH5075-5033		-	19DEC08	TBM advances; CH5085-5075
Install back-up system (6 decks)	ult P7; CH5075-5033	0	22DEC08	TBM advances; P7 CH5075-5033
IRBM advances; PF CH8032 6005		: : - -	07JAN09	Install back-up system (6 decks)
Install back-up system (1 decks)	P7; CH5033	0	19JAN09	TBM advances; P7 CH5033-5005
TBM advances; CH 5005-5000		 - -	30JAN09	Install back-up system (1 decks)
TBM advances; WSDYKWTW/Fig. CH5000-4963 9 02FEB06 11FEB09 1 0		-	31JAN09	TBM advances; CH 5005-5000
Conveyor belt sys Conveyor belt sys Conveyor belt sys	NSD Yau Kom Water Treatment Works & Fault F6c	0	02FEB09	TBM advances; WSDYKWTW/F6c CH5000-4963
Install noise enclosure 19 17 14 15 15 15 15 15 15 15		1 0	12FEB09	Conveyor belt sys
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TBM advances; F6b CH4760-4740 3 30MAR09 01APR09 1 0 0 4))	0 1	26MAR09	TBM advances; CH4830-4760
TBM advances; CH4740-4555 9 02APR09 16APR09 1 0 17APR09 1 0 17AP	tion grouting @ 20m/1	0	†	TBM advances; F6b CH4760-4740
TBM advances; Pea CH4555-4510 6 17APR09 23APR09 1 0 0 0 TBM advances; CH4510-4460 36 27APR09 10_UN09 1 0 0 TBM advances; CH4250-4220 4 11_UN09 15_UU09 1 0 TBM advances; Pe CH420-3840 18 16_UN09 10_UL09 1 8 TBM advances; Pe CH320-3840 18 16_UN09 10_UL09 1 8 TBM advances; Pe CH3575-3525 12 11_UL09 24_UL09 1 8 TBM advances; Pe CH3575-3525 13 13AUG09 12AUG09 1 8 TBM advances; CH3525-3308 10 01AUG09 12AUG09 1 8 TBM advances; CH3525-3308 10 01AUG09 12AUG09 1 8 TBM advances; Pa CH3143-3125 2 04SEP09 1 8 TBM advances; Pa CH3145-3125 2 04SEP09 1 8 TBM advances; Pa CH3145-3125 2 04SEP09 1 8 TBM advances; Pa CH3145-3125 2 04SEP09 2 2 TBM advances; Pa CH3145-3125 2 04SEP09 2 2 TBM advances; Pa CH3145-3125 2 04SEP09 2 2 TBM advances; Pa CH3145-3125 2 2 2 2 TBM advances; Pa CH3145-3125 2 2 2 2 2 TBM advances; Pa CH3145-3125 2 2 2 2 2 TBM advances; Pa CH3145-3125 2 2 2 2 2 TBM advances; Pa CH3145-3125 2 2 2 2 2 2 TBM advances; Pa CH3145-3125 2 2 2 2 2 2 2 2 TBM advances; Pa CH3145-3125 2 2 2 2 2 2 2 2 2	₩@ 21m/day	0	ļ	TBM advances; CH4740-4555
TBM advances; CH4510-4460 2 24APR09 10 UlN09 1	Fault F6a; CH4555-4510pre-excavation grouting @ 20m/1.5day	0 1	17APR09	TBM advances; F6a CH4555-4510
TBM advances; WSD T3/P6 CH4460-4250 36 27APR09 10JUN09 1	(@ 21m/day	0	24APR09	TBM advances; CH4510-4460
TBM advances; P6 CH4250-4220 4 11JUN09 15JUN09 1 6 11JUN09 1 8 IF IF TBM advances; P5 CH3840-3820 3 08JUL09 10JUL09 1 8 10JUL09 1 <td< td=""><td>Ham Fault P6& WBD 73pre-excavation grouting @ 20m/1.5day</td><th></th><td>27APR09</td><td>TBM advances; WSD T3/P6 CH4460-4250</td></td<>	Ham Fault P6& WBD 73pre-excavation grouting @ 20m/1.5day		27APR09	TBM advances; WSD T3/P6 CH4460-4250
TBM advances; CH3220-3840 18 16JUN09 07JUL09 1 6 16JUN09 1 8 Example of the excavation grouting and the excavation group and the excavation group and the excavation grouting and the excavation group and the excavation group and the excavation gro	Fault P6 CH4250 4220pre-excavation grouting @ 20m/1,5day	-	11JUN09	TBM advances; P6 CH4250-4220
TBM advances; P5 CH3840-3820 3 08JUL09 10JUL09 1 8 re-excavation grouting @ 20m1.5da TBM advances; P4 CH3675-3525 6 25JUL09 31JUL09 1 8 re-excavation grouting @ 20m1.5da TBM advances; CH3525-3308 10 01AUG09 12AUG09 1 8 re-excavation grouting @ 20m1.5da TBM advances; Noise sestitive area CH3308-3175 13 13AUG09 1 8 TBM advance rate 10.5m/d TBM advances; P3 CH3143-3125 2 28AUG09 05SEP09 1 8 re-excavation grouting @ 2dm/1.5m/d TBM advances; P3 CH3143-3125 2 04SEP09 05SEP09 1 8 pre-excavation grouting @ 2dm/1.5m/d	® 21miday	-	16JUN09	TBM advances; CH4220-3840
TBM advances; P4 CH3675-3525 12 11JUL09 24JUL09 1 8 re-excavation grouting @ 20m/1.5da TBM advances; P4 CH3575-3525 10 01AUG09 12AUG09 1 8 re-excavation grouting @ 20m/1.5da TBM advances; CH3525-3308 10 01AUG09 1 8 re-excavation grouting @ 20m/1.5da TBM advances; P3/Noise sestitive area CH3175-3143 6 28AUG09 03SEP09 1 8 TBM advance rate 10.5m/d TBM advances; P3 CH3143-3125 2 04SEP09 05SEP09 1 8 pre-excavation grouting @ 2dm/1.5m/d TBM advances; P3 CH3143-3125 2 04SEP09 05SEP09 1 8 pre-excavation grouting @ 2dm/1.5m/d	Fault P5; CH3840-3820pre-excavation grouting @ 20m/1.5day	-	08JUL09	TBM advances; P5 CH3840-3820
TBM advances; P4 CH3575-3525 6 25JUL09 1 31JUL09 1 8 (PP-excéva TBM advances; CH3525-3308	B@ 21m/day	+-	11JUL09	TBM advances CH3820-3575
TBM advances; CH3525-3308 10 014UG09 12AUG09 1 8 1 1 1 1 1 1 1 1	m.1.5day#Fault P4,	1 8 ore	25JUL09	TBM advances; P4 CH3575-3525
TBM advances; Noise sestitive area CH3175-3143 6 28AUG09 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	®@ 21m/day		01AUG09	
TBM advances; P3/Noise sestifive area CH3175-3143 6 28AUG09 03SEP09 1 8 pre-exca	10.5m/day≅TBM operates 0700 to 1900	- 8	13AUG09	TBM advances; Noise sesitive area CH3308-3175
TBM advances; P3 CH3143-3125 2 04SEP09 05SEP09 1 8 pre-ex	10.5m/daylTBM operates 0700 to 1900	8	28AUG09	TBM advances; P3/Noise sesitive area CH3175-3143
TBM advance: 049195 9970	2dm/1.5dayiFault P8; CH3175-3125	: 1 8 pre-ex		TBM advances; P3 CH3143-3125
1 DW advances, CH3123-2870	#@ 21rh/day	- 8	7 07SEP09 14SEP09	TBM advances; CH3125-2970
3AL1FT0840 TBM advances; WSD WS Reservior CH2970-2865 13 15SEP09 29SEP09 1 8 pre-excavation grounting @ 2bm/1.5day#	2bm/1.5dayR	4	j · · ·	

	To to the ord				
	09 2 1,080	100CT	0	oan 15, 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
	N	05SEP09	0	6aR 13; On completion of grouting wks at P3	- 1
•	09 2 1,151	31700	0	6aR 12; On completion of grouting wks at P4	7
•	87	10JUL09	0	6aR 11; On completion of grouting wks at P5	
•	2	15JUN09	0	6aR 10; On completion of grouting works at P6	6AR1FT0920
•	8	90NUC30	0	6aR 9; On completion of 80% grout by Ith at P6	6AR1FT0918
•	2	26MAY09	0	6aR 8; On completion of 60% grout by Ith at P6	6AR1FT0916
	2	16MAY09	0	6aR 7; On completion of 40% grout by Ith at P6	6AR1FT0914
•	09 2 1,236	07MAY09	0	6aR 6; On completion of 20% grout by Ith at P6	6AR1FT0912
•	ļ	10JUN09	0	6aR 5; On completion of grouting at WSD T. 3	6AR1FT0910
•	09 2 1,250	23APR09	0	6aR 4; On completion of grouting at F6a	6AR1FT0908
•	2	01APR09	0	6aR 3; On completion of grouting at F6b	6AR1FT0906
	2	25MAH09	0	6аR 2; On completion of grouting at F6c	- 1
	N09 2 1.334	29JAN	0	6aR 1; On completion of grouting at P7	. ,
	B11 2 577	OSFEB11 25FEE	24	SO issues completion certificate	3AL1FT0888
	-	28JA	0	Handover of Portion F	3AL1FT0886
	2 5	04FE	7	Contractor serve notice for Works completion	3AL1FT0884
	-	04DEC10 28JAN11	45	Authorities' inspection/remedial works; daytime	3AL1FT0882
	-		788	Testing & Commissioning; daytime	3AL1FT0880
	+-	0110	06	Installation of communication system (Daytime)	3AL1FT0878
rpoor comprehensive comprehensive comprehensive comprehensive γ supprehensive comprehensive compreh	-	24SE	98	Complete maintennce access & dry weather channel	3AL1FT0876
W. 740% 181 7001	-	22DEC08 20MAY10	414	Back grouting (daytime); CH5100-00	3AL1FT0874
	-	15MAY10 15JUI	£0\$	Desembly & demobilization of TBM	3AL1FT0873
Dre-excavation months (2) 20 m/4 Education	-	14M	37	TBM advances; F1 CH300-0	3AL1FT0872
74	-	15MAR10 26MA	=	TBM advances; CH530-300	3AL1FT0870
Ago, Zi Myoay	-	13MAR10 13MA	+	TBM advances; P1 CH540-530	3AL1FT0868
	-	12M	1	TBM advances; CH770-540	3AL1FT0866
Gre-excavation grainting @ 20m/1.5Hm.4		÷	6	TBM advances; P2 CH795-770	3AL1FT0864
ASSOCIATION OF BUILDING OF BUI	-	24F	2	TBM advances; CH1230-795	3AL1FT0862
pre-exception arouting a some interest			က	TBM advances; F2 CH1250-1230	3AL1FT0860
I plvv advance rate 10.5m/day=i BW operates 0700 to 1900	- 1 -	- +	2	TBM advances; CH1295-1250	3AL1FT0858
Town Advanced of the Company of the		05JAN10 21JAN10	15	TBM advances; Noise sesitive area CH1449-1295	3AL1FT0856
Portocavation is usually and the control of the con		20NOV09 04.IAN10	36	TBM advances; CH2205-1449	3AL1FT0854
ma expanding and the Source of the Company	- -	·	9		3AL1FT0852
September 1 Allow 1 Al	- -	•	13	TBM advances; CH2535-2255	3AL1FT0850
Dre-excevation grounding @ 20m/4 Edwar	-	21OCT09 28OCT09	9		3AL1FT0848
	T09 1 8	12OCT09 20OCT09	8	-	3AL1FT0846
Dre-lexnavation months @ Dom (+ Education and provided an	-	08OCT09 10OCT09	က		3AL1FT0844
8.19.10.11.13.11.13.10.17.19.19.19.19.19.19.19.19.19.19.19.19.19.	-	0.20	5	TBM advances; CH286	3AL1FT0842
JEMINAMULY ASSONDO FEMANDATAS OF THE MAINTENANT PROPERTY ENDINGS OF THE PROPERTY OF THE PROPER	irly Car Toral	ωá			
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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 0	-	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	ď	1,020	•	
3AL1FT1036 3aL 18; On completion of 70% perm. tunnel lining	. 27	21DEC09 2	1,008	•	
3AL1FT1038 3aL 19; On completion of 75% perm. tunnel lining	72	22JAN10 2	926	•	
- 1	ð		362	•	
- 1	5	01MAR10 2	938	•	-
- T	Φ,		924	•	**
	0.	07APR10 2	901	•	
3AL1FT1048 3aL 24; On completion of perm. tunnel lining	4	14MAY10 2	864	•	
		ō			

	7 10 1-140		
	03MAY08 27JUN12 1 24	1,230 031	ATTIUS i Monitorreport Geotechnical Instrumentation
	02MAY08 1	30 27	3DL1Al1106 Installation of Geotechnical Instrumentation
	26MAR08 2 29	† †	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	01R1Al1122 Install remote control CCTV as per ER 4.4.10
	1	24 03	01R1AI1117 Erect temp. steel decking spanning Shing M. Nul.
	27MAR08 02MAY08 1 31	30 27	01R1Al1116 Site clearance
	27MAR08 02MAY08 1 31	30 27	01R1Al1114 Site establishment
♦ 90d after DOC	26MAR08 1 12	0 28	
	07MAR08 2 59	0 07	
	26MAR08 2 90	0	01R1Al1108 Obtain tree felling permit
			Felimiary Works
			Construction of Intake I-1
 tunnel after completion of strengtheing works 	18FEB09 2 1,314	0	10AR1JT137 10aR 7; On recharge of the water after wrk comp
	8	0	
	i	0	- 1
	1	0	10AR1JT134 10aR 4; On completion of 50% strengthening wks
	7	0 8	10AR1JT133 10aR 3; On completion of 25% strengthening wks
•	03DEC08 2 1,391	0	10AR1JT132 10aR 2; On installation temp. lighting
	03DEC08 2 11,391	0	
			Sarettle of Milestones (directles) per mal/lor (di
under this Cost Centre	26JUL12 2 60	0	3DL10T1224 3dL 12; On completion of all works under this CC
flow monitoring to issue of Maint. Certificate	26JUL12 2 60	0	- 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	
Sinstalled instruments for 12 months from DOC	26DEC08 2 1,368	0	\neg
• deptechnical instruments	02SEP09 2 11,118	0	
♦ within this cost centre	28JAN11 2 605	0	3AL1F11054 3aL 27; On completion of all works under this CC
	01NOV10 2 693	0	
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OF MANUEL SANDONE STRUCK MEDITAL SOCIAL DESIGNATIONS OF STRUCK SANDONES OF STRUCK SANDONE		72	
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Excavation from +88.5mPD to +72.5mPD; North 04L1A11442 Bulk excavation; rock (6300m3) 07R1A11444 Bulk excavation for vehicular access; 1400m3 07R1A11446 Construct vehicular access Excavation to Bottom Level to south west of SR 04L1A11448 Bulk excavation; rock (5300m3) Construction of Spiral Ramp Structure 07R1A11402 Raft foundation 07R1A11404 Construct RC spiral ramp 07R1A11406 Construct RC spiral ramp ton	1 17	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	25APR09 04SEP09 1	
[]	30 01AUG09 04SEP09 1 17	SSTANDER SEGMENT (Updi excavation)
Excavation to Bottom Level to south west of SR 04L1A11448 Bulk excavation; rock (5300m3) Construction of Spiral Ramp Structure 07R1A11402 Raft foundation 07R1A11404 Construct RC spiral ramp 07R1A11406 Construct RC spiral ramp ton	05SEP09 19OCT09 1	Fighton drote Extended of the order
04L1A11448 Bulk excavation; rock (5300m3) Construction of Spiral Ramp Structure 07R1A11402 Ratt foundation 07R1A11404 Construct RC spiral ramp 07R1A11406 Construct RC spiral ramp top		WALEST CALL STREET COLUMN STREET STRE
Construction of Spiral Ramp Structure 07R1Al1402 Raft foundation 07R1Al1404 Construct RC spiral ramp 07R1Al1406 Construct RC spiral ramp top	88 20OCT09 03FEB10 1 71	25.500 m 20.500 m 20.
		Washing World Commence of the
	12 20OCT09 03NOV09 1 17	Carbon Ca
	Ž	=10272m2, re-bar=755f. condrete=2788m3程列码器
İ	12 02JUL10 15JUL10 1 17	MADE IN THE PROPERTY OF THE PR
Dismantle & removal of TBM		OHIOTO
04L1Al1450 Install temporary steel works for removal of TBM	24 16APR10 14MAY10 1 17	E
04L1Al1452 Dissembly & demobilization of TBM	15MAY10 15JUL10 1	ECASTO CONTRACTOR CONT
Construction of Cascade Structure	.1	AVECTOR AND ADDRESS OF THE PROPERTY OF THE PRO
04L1Al1454 Construct box culvert & cascade	72 16JUL10 09OCT10 1 17	fwke 880m2 re-har-145t & Annersta-049m2898988 &
Mod frattonati Basung a hamelifindhy season		
OTETATENT Medits chemen had 0	AND THE PROPERTY OF THE PROPER	
T	01NOV10" 11DEC10 1	
Modify channel bed and orlice; Phase	13DEC10	
07R1Al1506 Modify channel bed and orfice; Phase 3	36 27JAN11 12MAR11 1 61	
Remaining Works Proprietaver		
07R1AI1602 Backfill & compaction above box culvert; Port. A	72 11OCT10 06.IAN11 1 90	T. C.
07B1Al1606 Finishing & reinstatement works; Portion A	14FEB11 11APR11 1	POST TO THE POST T
07R1Al1608 Pre-handover inspections and remedial works	14MAB11 13MAY11 1	Total Carlo
07R1Al1610 Contractor serve notice for Works completion	14MAY11 20MAY11 2 4	
07R1A11612 SO issues completion certificate	10JUN11 2	
	13MAY11 1	15000s climber 20000s world and 20000s and 20000s
16R7Al1604 Establishment Works at Portion A	365 14MAY11 12MAY12 2 75	
3DL1AI1602 Install flow measurement devices at Intake I-1	12MAR11 1	
3DL1AI1604 Maintain & monitor flow monitoring	365 13MAR11 11MAR12 2 137	
Suiçonie of fulles for established at		
04L1Al1802 4L 1; On completion of 50% excavation	0 24APBng 2 1.249	A CONTRACTOR OF THE PROPERTY O
04L1Al1804 4L 2; On completion of excavation	03FEB10 2	Tot Castal at this of the Control of this of the Control of the Co
04L1A11806 4L 3; On completion of 25% concreting	2	Occorded at Heave 1.
04L1Al1808 4L 4; On completion of 50% concreting	0 26AUG10 2 760	Pro Cascade at Intake 1-1
	0 16SEP10 2 739	• for Cascade at Intake 1-1
[0 09OCT10 2 716	• Patiniake III
i	0 19OCT09 2 1,071	Spox culvert at Intake I-1
04L1Al1816 4L 8; On completion of all works under this CC	0 13MAY11 2 500	entrantic Cost

Fig.	778 1. On completion of trash guile 778 2. On completion of 25% excertainth 2 265 778 2. On completion of 25% excertainth 2 205 2 255 2 255 2 2 2 2	Start. Finish 10. Fisal 18.9 10.11 21.2 21	
The 1-Concentration of 15% executation	778 (1.00 completion of treat) guils 778 (1.00 completion of treat) guils 778 (1.00 completion of 12% excavation 0 12MAR10 2 1.365		sienesifor@sk.cemte.Nor7R
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Phase 1. Sto 3-Flatten exist Stream Red at West	000	20010000000000000000000000000000000000
	200000000000000000000000000000000000000	
Construct temp. concrete block bund	12 01NOV08* 14NOV0R 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	32 E
Excavate eastern portion of guide wall & slab	29DEC09 1	
Construct eastern portion of guide wall & slab	30DEC09 20JAN10 1	
Remove temp. concrete blook bund	21JAN10 27JAN10 1	c
Phase 2, Stg 2- Const Approach Channel at West		
Construct temp, concrete block bund	S 1 08 IANAO 100EEDAO	
Excavate for western portion guide wall & stab	COUNTING CONTENTS	Eprovision of water pump
Construct western portion of mide wall a state	04rebio 20rebio 1	25
Remove concrete block bush	22FEB10 20MAR10 1	
Ding place place build	6 ZZMAR10 Z7MAR10 1 175	
Pulase 4- Construct Remaining Approach Channel		
Construct temp, concrete block bund	1	78
Complete guide wall between A.C. & V.S.	12 28APR11 12MAY11 1 8	
Remove temp. conctete block bund	6 13MAY11 19MAY11 1 8	mArter Construction of Outfall O.1
Diedvale a Construit Voirevilorop Shaff		
Phase 1, Stg 2- Form temp. access ramp to VS		
Setting up	6 05SEP08 11SEP08 1 13	
Probing & curtain grouting around shaft	12SEP08 13OCT08 1 13	
Construct ELS around shaft	03NOV08 1 13	
Phase 3, Stg 1- Const. Vortex Shaft/Trash Grill		
Construct temp. concrete block bund	6 01NOV10" 06NOV10 1 0	
Excavate for vortex shaft & guide wall	24 27NOV10 24DEC10 1 13	provision of water bump
Construct vortex shaft & guide wall		9154 9174 9174
Construct trash grill		1075 B
Construction of boulder traps; 7nos.	-	
Phase 3, Stg 2- Construct Rem. West. Guide Wall		
Relocate temp, concrete block bund	4 12MAR11 16MAR11 1 13	3
Excavate/const. rem. western guide wall	17MAR11 02APB11 1	· · · · · · · · · · · · · · · · · · ·
Remove temp, concrete block bund	04APR11 11APR11 1	
Mechanical excavation for drop shaft; 32m	160 11NOV08 30MAY09 1 13	720 E171 E171 E171 E171 E171 E171 E171 E17

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

•under this Cost Centre			16JUL11	0	12114, Oil completion of all works under this CC
◆traps at Intake -2		2	11MAR11	0	12R3bl2Sub 12R 3; On completion of boulder traps
	wall at Intake I-2	13SEP08 2 1,472	13SE	0	Ţ.
	♦wall at Intake I-2	14JUL08 2 1,533	14.11	0	\Box T
♦under this Cost Centre		16JUL11 2 436	16J	0	CONTROLL TO GARAS, OF COMPREHEND OF All WORKS UNder This CC
Aat Intake I-2			25FI	0	U8K1 BI2R04 8R 2; On completion of trash grill
channel and assiciated decking at fritake 1-2.	chan	AY11 2 501	12MA	0	
◆under this Cost Centre		JL11 2 436	1630	O T	The sample of th
◆adit at Intake F-2		2	011	0	OF TRIOMOD RI 10: On completion of all marks and
Shaft at Intake I-2		~	02M	0	OSE REIGHTE SE 8; On completion of man access shaft
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Chambar at Intake 1.2		200CT10 2 705	200	0	
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Fron Adil Turnel at Intake 1-2	- 18	P10 2	028E	0	1
Tor Adit Tunnel at Intake 1-2	- V (pr.	310 : 2	26AU	0	-
Tor Adit Tunnel at Intake 1-2		310 2	19AU	0	
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▼1or Adit Tunnel at Intake I-2		G10 2	04AU	0	_
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			11JUN11	365	3DL1BI2105 Maintain & monitor flow monitoring

	Aerving Description	ong Early Dar Stan	Early Gal Total Finish ID Float	2005 DIJE MAJERI JAS GINDU. EMAMILITAKSDINDU FIJANI JUNSONI EMAMINI KAMMUNIKASICINDU TAMAMINI 78 BIOTITATIS GITTER SONDU. EMAMINIS SERVINAS SERVINA
	CONSINUING FOWER PAIL OF ACCESS HORIS			
09R1Cl3402	1 [60 13MAY09	09 23JUL09 1 274	
09R1Cl3406		60 24JUL09	02OCT09 1	
09R1CI3408	1	30 03OCT	03OCT09 09NOV09 1 274	
09R1Cl3410		32 10NOV	-	
09R1Cl3412		32 17DEC	-	
09R1Cl3414	†	48 27JAN10	26MAR10 1	
13R1Cl3402		112 28AUG	28AUG08 12JAN09 1 288	
13R1Cl3404	Excavate & install soil nail (NW Turning Area)		-	
13R1CI3406		+	12MAY09 1	Example of Lagrangian and Lagrangian
16R7Cl3402		 -	24FEB09 1	100 I 00 I 100 I 1
Excevane	Skeavare & Construction in Vent Share			
Phase 1	A CONTRACTOR OF THE PROPERTY O			
06L1Cl3502	Modify & flatten the stream bed	6 26NOV08	02DFC08 1	
06L1CI3504	Construct temporary concrete block wall bund	1	· 🛉	
06L1Cl3506	Mobilization & setting up of RCD rig	+		
06L1Cl3508	Drilling for air vent shaft	+:	20JAN09	Market Ma
06L1Cl3510	Construction of air vent shaft	14 21 JAN09	09FFB09 1 1	1/m long for the day and a containing AIP 107 design submission
	Excelvate & Construction Shart			The months of the same of the
Phase 1	ALE PROMISSION CONTRACTOR OF THE WORLD OF TH			
06L1Cl3602	Probing & curtain grouting	18 21JAN09	9 13FEB09 1 71	
06L1Cl3604	Construct temp. rain shelter & bund	24 21JAN0	20FEB09 1	
06L1Cl3606	Bulk excavation for Vortex (southern portion)		-	27 July 198m 3 10m 2 10 July 1 57
06L1Cl3608	Bulk excavation for drop shaft	60 27APH09	09JUL09 1	
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	3004m/4riavs
Phase 3				
06L1Cl3614	Bulk excavation for Vortex (northern portion)	37 21SEP1	21SEP10 05NOV10 1 106	27 - vehicle 10m3/day - 27
06L1Cl3616	Construction of vortex (northern portion)	24 06NOV1	06NOV10 03DEC10 1 106	
06L1Cl3618	Relocate flood wall within vortex	4 04DEC10	0 08DEC10 : 1 106	
06L1Cl3620	Construct remaining of the vortex	24 09DEC10	08JAN11 1	
) 	A constituct Mail Access Shaft			
Phase 1				
06L1Cl3706	Bulk excavation for man access shaft	110 14FEB09	30JUN09 1 170	Waterway 22m, @0.2m/dav
06L1Cl3708	Construction of man access shaft	44 30SEP09	3 23NOV09 1 170	6*4 cycle each cycle 4 days@@22m @ 4m/8days including stairs
	Well Reniement Stream Beach (Day Season) (notks)			
Phase 2				
09R1Cl3802	Construct temporary sand bag bund	6 02NOV09* 07NO	1 07NOV09 1 07NOV09	

09R1CI3804 09R1CI3806 09R1CI3808		THE PARTY NAMED IN			1031 7 8 9	
09R1CI3806 09R1CI3808 09R1CI3810	Removal of large boulders	01	60AON60	19NOV09		88.9 P. 01.11.21.31.41.51.61.77.08 P. 92021 P. 22021 P. 2
09R1CI3808 09R1CI3810	Excavation of the stream bed	36	20NOV09		1 67	2
09R1Cl3810	Laying of granular filter	42	05JAN10	05JAN10 01FEB10	16	
(T (C () T () () T () T	Laying of rock armour	24	05JAN10	05JAN10 · 01FEB10	1 67	
09R1CI3812	Construction of boulder trap; 7 nos.	24	02FEB10	04MAR10	1 67	
09R1Cl3814	Removal of sand bag bund	4	05MAR10		1 67	3
09R1Cl3816	Construct temporary concrete block bund	8	10MAR10	10MAR10 30MAR10	1 67	
E.G. Valle	Aceivate a Gunstraki Approach Channel					
Phase 3	Sira habara kakana kaka da kata ka	N. C.	TOTAL SECTION OF THE			
09R1Cl3902	Excavation of the Stream Bed	54	31MAR10	31MAR10 08JUN10	1 67	
09R1CI3904	Laying Granular Filter within Stream Bed	18	09JUN10 - 30JU	30JUN10	1 67	
09R1Cl3908	Open excavation for Approach Channel	69	02JUL10	20SEP10	1 67	
09R1Cl3910	Construction of Approach Channel	122	21SEP10	21SEP10 : 19FEB11	1 67	
09R1Cl3912	Construction of trash grill	12	14FEB11	26FEB11	1 67	
0CR1Cl3914	Removal of concrete bolck bund	9	28FEB11	05M	1 67	
	excavate & Construct Delacration Spanioer					
Phase 2	erronen en elektrikan kantalan		A 10 TO 10 T		· · · · · · · · · · · · · · · · · · ·	
06L1Cl3102	Excavation for de-aeration chamber	87	10JUL09	21OCT09	1 83	23 - 125 m 3 0 0 m 3/Hav - 124 byce
06L1Cl3104	Construction of de-aeration chamber	32	09JAN10	18FEB10	- 83	A Jours & week days invert drave walls 向 ave a succession of
	a cavalety constitutor a other men					<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
	agmanning Volks Pricing handoverne Olenk					
09R1Cl3142	Finishing & reinstatement works; Portion C	48	07FEB11 02AP	02APR11	1 67	
09R1Cl3143	Pre-handover inspections and remedial works	48	O7MAR11 O5MA	05MAY11	1 67	
09R1Cl3144	Contractor serve notice for Works completion	2	06MAY11	12MA	2 480	
09R1Cl3146	SO issues completion certificate	21	13MAY11	02JUN11	2 480	
16R7Cl3142	Landscaping works at Portion C	120	06DEC10 05MA	05MAY11	1 68	
	Establishment Works at Portion C	365	06MAY11	04MAY12	2 83	
	Install flow measurement devices at Intake I-3	24	07FEB11 05MA	05MAR11	1 88	· · · · · · · · · · · · · · · · · · ·
3DL1Cl3143	Maintain & monitor flow monitoring	365	06MAR11 04MA	04MAR12	2 144	

| 13R 1; On completion of 30% soil natiling 0 28AUG08 2 1,488 ◆at intake I-3 13R 2; On completion of 60% soil natiling 0 25NOV08 2 1,399 ◆at intake I-3 13R 3; On completion of all soil nating works 0 12MAY09 2 1,231 ◆at intake I-3 13R 4; On completion of 10% piles by number 0 26MAY08 2 1,582 ◆at intake I-3 | 0 19FEB11 2 583 | channel 0 21JAN11 2 612 | G.L 0 24FEB09 2 1,308 | G.L 0 05SEP08 2 1,480 | 0 26MAR10 2 913
 |
 | 0 05MAY11 2 508 | 0 293EP09 2 1,091 | 0 23NOV09 2 1,036
 | 0 09FEB09 2 1,323 | n chamber 0 18FEB10 2 949 | 0 08.JAN11 2 625 | 0 21OCT09 2 1,069 Helmin C 1 |
 | C 0 17AUG10 2 769 | 0 08JAN10 2 990 | 31DEC09 2 998 | 0 : 28DEC09 2: 1,001 | 0 22DEC09 2 1,007 | 0 18DEC09 2 1,011 | 0 15DEC09 2 11.014
 | 11DEC09 2 1.018 | 0 210CT09: 2 1,069 | | ### Part Process Control of Contr | 109 2 1,018 109 2 1,014 109 2 1,011 109 2 1,001 100 2 1,001 100 2 1,001 100 2 1,001 100 2 1,001 100 2 1,001 100 2 1,009 100 2 1,036 100 2 1,036 100 2 1,036 100 2 1,036 11 2 1,031 11 2 1,159 12 1,159 13 2 1,159 14 2 1,159 15 2 1,159 15 2 1,159 15 2 1,159 15 2 1,159 16 2 5,83 17 2 5,83 18 2 5,83 | | 3CL1CI3A02 3CL1; On establishing tunnelling equipments 3CL1CI3A04 3cL 2; On completion of 12.5% perm. tunnel lining 3CL1CI3A08 3cL 4; On completion of 25% perm. tunnel lining 3CL1CI3A10 3cL 5; On completion of 50% perm. tunnel lining 3CL1CI3A11 3cL 5; On completion of 50% perm. tunnel lining 3CL1CI3A12 3cL 6; On completion of 50% perm. tunnel lining 3CL1CI3A14 3cL 7; On completion of 50% perm. tunnel lining 3CL1CI3A18 3cL 9; On completion of 62.5% perm. tunnel lining 3CL1CI3A18 3cL 9; On completion of 62.5% perm. tunnel lining 3CL1CI3A18 3cL 9; On completion of 62.5% perm. tunnel lining 3CL1CI3A18 3cL 9; On completion of 60.5% perm. tunnel lining 3CL1CI3A18 3cL 9; On completion of 60.5% perm. tunnel lining 3CL1CI3A18 3cL 9; On completion of 60.5% perm. tunnel lining 3CL1CI3A18 3cL 9; On completion of 60.5% perm. tunnel lining 3CL1CI3A18 3cL 9; On completion of 60.5% perm. tunnel lining 3CL1CI3A18 3cL 9; On completion of forexavation works 3CL1CI3A18 3cL 9; On completion of forexavation of 60.5% of excavation 3CL1CI3A18 3cL 9; On completion of forex shaft 3CL1CI3A18 3cL 9; On completion of 60.5% of excavation at G.L 3CL1CI3A18 3cL 9cl |
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| | 5 0 05MAY11 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 22JULO9 2 1,139 0 21JANTI 2 674 0 21JANTI 2 583 0 19FEB11 2 583 0 19FEB11 2 583</td><td>0 0 09FEB09 2 1,332 ◆at Intake I-3 <</td><td>0 18FEB10 2 943 Pat Intake I.3 Pat Intake I.3 Pat Intake I.3 0 0 23NDV09 2 1,323 1,323 1,323 Pat Intake I.3 Pat Intake I.3 Pat Intake I.3 Pat Intake I.3 Punder this Cost C 0 28SED09 2 1,333 Pat Intake I.3 Pat Intake</td><td>0 0</td><td> 0 21OCT09 2 11,069 Colored G.L. except for Adit Tunnel at Intake I-3 O O OSNAVT1 2 E25 O O OSSNAVT1 2 E35 O OSSNAVT1 2 E35 O O OSSNAVT1 2 O O OSSNAVT1 D O OSSNAVT1 O O O OSSNAVT1 O O O OSSNAVT1 O O O O OSSNAVT1 O O O O O O O O O </td><td> 0 21/OCT09 2 1,069 </td><td>C 0 17ALG10 2 769 0 0 0 0 0 0 0 0 0 4 belowe G.L. except for Adit Tunnel at Intake I-3 4 under this Cost Centre 0 0 0 0 0 0 4 belowe G.L. except for Adit Tunnel at Intake I-3 4 at Intake I-3 <th< td=""><td> C</td><td> 1</td><td> 1</td><td> 10 10 10 10 10 10 10 10</td><td> 10 18DEC09 2 1,017 </td><td> 150EC09 150EC09 2 1,014 </td><td> 10 10 10 10 10 10 10 10</td><td> 10</td><td>Wunder this Dost C</td><td></td><td></td><td>indices i centralité de partir</td></th<></td></td<> | Channel and associated decking at Intake I-3 Channel at Intake I-3 Chann | C O O O O O O O O O | C 0 29SEP09 2 1,091 Punder this Cost C 0 0 26MAY11 2 508 G.L 0 26MAR10 2 913 Punder this Cost G.L 0 26MAR10 2 913 Punder this Cost G.L 0 26FEB09 2 1,231 Pat Intake I-3 Pat Intake I-3 Pat Intake I-3 G.L 0 23JUL09 2 1,159 Pat Intake I-3 | C 0 23NOV09 2 1,034 C 0 29SEP09 2 1,091 C 0 26MAY11 2 508 G.L 0 26MARTIO 2 913 G.L 0 24FEB09 2 1,308 G.L 0 23JULO9 2 1,139 G.L 0 22JULO9 2 1,139 mel 0 22JULO9 2 1,139 0 21JANTI 2 674 0 21JANTI 2 583 0 19FEB11 2 583 0 19FEB11 2 583 | 0 0 09FEB09 2 1,332 ◆at Intake I-3 < | 0 18FEB10 2 943 Pat Intake I.3 Pat Intake I.3 Pat Intake I.3 0 0 23NDV09 2 1,323 1,323 1,323 Pat Intake I.3 Pat Intake I.3 Pat Intake I.3 Pat Intake I.3 Punder this Cost C 0 28SED09 2 1,333 Pat Intake I.3 Pat Intake | 0 | 0 21OCT09 2 11,069 Colored G.L. except for Adit Tunnel at Intake I-3 O O OSNAVT1 2 E25 O O OSSNAVT1 2 E35 O OSSNAVT1 2 E35 O O OSSNAVT1 2 O O OSSNAVT1 D O OSSNAVT1 O O O OSSNAVT1 O O O OSSNAVT1 O O O O OSSNAVT1 O O O O O O O O O | 0 21/OCT09 2 1,069 | C 0 17ALG10 2 769 0 0 0 0 0 0 0 0 0 4 belowe G.L. except for Adit Tunnel at Intake I-3 4 under this Cost Centre 0 0 0 0 0 0 4 belowe G.L. except for Adit Tunnel at Intake I-3 4 at Intake I-3 <th< td=""><td> C</td><td> 1</td><td> 1</td><td> 10 10 10 10 10 10 10 10</td><td> 10 18DEC09 2 1,017 </td><td> 150EC09 150EC09 2 1,014 </td><td> 10 10 10 10 10 10 10 10</td><td> 10</td><td>Wunder this Dost C</td><td></td><td></td><td>indices i centralité de partir</td></th<> | C | 1 | 1 | 10 10 10 10 10 10 10 10 | 10 18DEC09 2 1,017 | 150EC09 150EC09 2 1,014 | 10 10 10 10 10 10 10 10 | 10 | Wunder this Dost C | | | indices i centralité de partir |
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Purder this Cost 0 0 0 23NOV09 2 1,031 Pat Intake 1-3 Pat Intake 1-3 Purder this Cost 0 28NAV11 2 508 Pat Intake 1-3 Pat Intake 1-3 Pat Intake 1-3 Purder this Cost 0 28NAV11 2 508 Pat Intake 1-3 Pat Intake 1-3 Pat Intake 1-3 Purder this Cost 0 28MARTIO 2 1,333 Pat Intake 1-3 Pat Intake 1-3 Pat Intake 1-3 Purder this Cost 0 24FEB10 2 1,480 Pat Intake 1-3 Pat Intake 1-3 Purder this Cost 0 24FEB10 2 1,1480 Pat Intake 1-3 Pat Intake 1-3 Pat Intake 1-3 0 23JUL09 2 1,1480 Pat Intake 1-3 Pat Intake 1-3 Pat Intake 1 | 1 | 3 DEC09 2 999 | 1 | 1 | 18DECO9 2 1,001 2 1 | 150EC09 150EC09 2 1,014 | 11 12 12 13 14 15 15 15 15 15 15 15 | 10 110EC09 2 1,0104 2 1,0104 3 4 4 1 1 1 1 1 1 1 1 | at Intake I-3
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H2*40*4m2	12 18AUG10 31AUG10 1 8	10R1D00704 Drive temp, sheet piles along footpath
310	12 04AUG10 17AUG10 1 8	10R1DO0702 Form temp. working platorm
		Constitute carcade v. Upper Pan Box Guivan
8E 0	24 07JUL10 03AUG10 1 8	3AL1DO0606 Construct portal head wall
#For TBM Launching Chamber	12 22JUN10 06JUL10 1 8	3AL1DO0604 Construct permanent lining for CH5100-5085
Eminal gantry crane	30 15MAY10 21JUN10 1 8	
3.6	12 18DEC10 04JAN11 1 8	
	48 04AUG10 29SEP10 1 74	10R1DO0604 Construct tapered open channel
86	24 07JUL10 03AUG10 1 8	10R1DC0602 Excavation/formation for tapered open channel
		construct Panel Read & Lesocrated Statutines
6.50	6 01MAR11 07MAR11 1 39	10R1D00528 Reinstate existing outfall "W"
	-	10R1D00526 Construct open channel at 2.3 mPD
	24 14JAN11 14FEB11 1 39	10R1DC0524 Construct channel toe below 2.3mPD
	24 30DEC10 27JAN11 1 39	10R1D00522 Excavate for open channel
	-	10R1D00520 Construt wall & roof of box culvert; 2 cells
Cardy a decorate a february	19OCT10 10NOV10 1	10R1D00518 Construct base slabs of box culvert; 2 cells
Security Collision of the Collision of t	25AUG10 18OCT10 1	10R1D00516 Excavate for box-culvert; 2 cells
	40 TIMAY10 28JUN10 1 39	10R1D00515 Install 273mm dia temp. pile for nine modina
™Concete 160m3	16APR10 10MAY10 1	10H10U0512 Construct base slabs of box culvert; 2 cells
(KEE)/SOII 2900m3	19FEB10	10R1DO0510 Excavate for box-culvert; 2 cells
Manager 2 cells: 105 rios.	48 18DEC09 18FEB10 1 39	
20440E	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
		Constate EnwersPansEo Colliver & Open Channel
	12 11JUN10 25JUN10 1 40	10R1D00424 Commission of Spiral Ramp
	24 13MAY10 10JUN10 1 40	10R1D00422 Construct vehicular access bet, tunnel & s. ramp
	27NOV09 27APR10 1	10H10U0416 Construct spiral ramp; +4.5 to +24mPD at 0-1
	16 24OCT09 12NOV09 1 40	-
	8 15OCT09 23OCT09 1 40	10R1DO0410 Construct base for vehicular access
sheet pile roofing & lagging ~180m2@also; 640m3	48 18AUG09 14OCT09 1 40	10R1DO0408 Excavation for vehicular access underneath CPR
740ft3 soil & 4000m3 rock隔离高高加口cluding terms supports mesures	120 21MAR09 17AUG09 1 40	10R1DO0404 Mechanical excavation for spiral ramp
740 nos. *13m lono	12 07MAR09 20MAR09 1 40	10R1DO0402 Install 273mm dia. temp. pipe piles; 40 nos.
7.8 9.00 (1/2/3/4/5/G67/8/92/02/22/24/22/24/22/24/22/24/24/24/24/24/24	Dur Starf Finish 15 Float	
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10R1DO0706 Excavate for box culvert (upper part)	_	Miles Sol 5400m3
10R1DO0708 Construct box-culvert (upper part)	15OCT10 04JAN11 1	Emergeoncrete 1830m3
10R1DO0710 Excavate for cascade construction	05JAN11	##Soi 840m3, rock 600m3
10R1D00712 Construct cascade	48 19FEB11 16APR11 1 8	Emilia concrete 950m3
10B1D00714 Construct retaining wall, baffle, railing etc.	48 19FEB11 16APR11 1 33	
Seabeathratestion Wolks		
10R1DO0804 Excavate & formation for 100m*16m slab	72 11MAY10 05AUG10 1 93	IMMERICASION 4000m3
10R1DO0806 Construct concrete apron with pre-cast RC slabs	26MAY10 19AUG10 1	[国际][1] [1] [1] [1] [1] [1] [1] [1] [1] [1]
10R1D00808 Installtion of precast stepped blocks	144 06AUG10 27JAN11 1 93	pre-cast panel 2340m2, granular filter 700m3 Francisco and control of 300mm granular fill & geotextile
10RtDO0810 Removal of platform & formation	12 08MAR11 21MAR11 1 39	128
10H1D00812 Install remain. Concrete apron for rem. Area	04APR11 1	
14R5DO0802 Removal of sea wall armour	72 26APR10 22JUL10 1 93	[3] [3] [3] [3] [3] [3] [3] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4
Repellings Works, Enton of Educiover		
10R1DO0904 Finishing & reinstatement works; Portion D	48 19MAR11 19MAY11 1 33	
10R1DO0906 Pre-handover inspections and remedial works	48 18APR11 17JUN11 1 33	
10R1DO0908 Contractor serve notice for Works completion	7 18JUN11 24JUN11 2 437	
10R1DO0910 SO issues completion certificate	21 25JUN11 15JUL11 2 437	£32
i 16R7DO0902 Landscaping works at Portion D	120 19JAN11 17JUN11 1 33	
16R7DO0904 Establishment Works at Portion D	365 18JUN11 16JUN12 2 40	
3DL1D00902 Install flow measurement devices at Outfall O-1	24 18APR11 19MAY11 1 29	
37L1DO0904 Maintain & monitor flow monitoring	365 20MAY11 18MAY12 2 69	
Schedule of Milestones/forcoshicemne No. 105		
110R1DO1002 10R 1; On completion of 20% excavation works	0 09JUL08 2 1,538	♦Outfli O-1
10R1DO1004 10R 2; On completion of 40% excavation works		♦Outral O-1
10R1DO1006 10R 3; On completion of 60% excavation works	08NOV08 2	♦Outfall Q-1
10R1DO1008 10R 4; On completion of 80% excavation works	14OCT09 2 11	Ontial Oil
10R1DO1010 10R 5; On completion all excavation works	18FEB11	◆at Outfall 0-1
10B1DO1014 10B 7: On completion of caircle structure	u 0	
10R1DO1016 10R 8; On completion of spiral access ramp	25JUN10 2	◆at Outfall O-1
10R1DO1018 10R 9; On completion box-culvert & open channel	į	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
State of the bines of the property of the second se		
14R5DO1102 14R 1; On complet. of remove exist. rock armour	8	Parmour al Outfall O-1
	20JUN08 2	In Outfall O-1
14R5DO1106 14R 3; On completion all soiling works	0 13AUG08 2 1,503	❤nailing at Outfall O-1

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SOLVEN STANDARD STAND	◆pipe jacking method at Portion G	Poipe jacking method at Portion G	Spipe jacking method at Portion G	Spipe facking method at Portion G	Sunder this Cost Centre
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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

IMPLEMENTATION SCHEDULE for October 2008

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	ality	•	•		
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 Air Pollution Control (Construction Dust) 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 Air Pollution Control (Construction Dust) Regulation, the dust level is expected to be reduced by over 75%.				N/A
	General				,
	To further ensure compliance with the guideline and AQO limit at the ASRs at all time, it is recommended to implement the <i>Air Pollution Control (Construction Dust) Regulation</i> and include good site practice in the contract clauses to minimize cumulative dust impact.In addition, a comprehensive dust monitoring and audit programme is recommended to ensure proper implementation of the identified mitigation measures. Details of the monitoring and audit requirements are provided in a separate EM&A Manual. • effective dust screens, sheeting or netting should be provided to enclose the scaffolding				
	from the ground floor level of the building or if a canopy is provided at the first floor level, from the first floor level, up to the highest level of the scaffolding where a scaffolding is erected around the perimeter of a building under construction;				N/A
	• dump truck for material transport should be totally enclosed by impervious sheeting;				✓
	• any excavated dusty materials or stockpile of dusty materials should be covered entirely by impervious sheeting or sprayed with water so as to maintain the entire surface wet, and recovered or backfilled or reinstated within 24 hours of the excavation or unloading;				√
	stockpile of dusty materials should not extend beyond the pedestrian barriers, fencing or traffic cones;				✓
	 dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; 				✓

EIA Ref.	Recommended Mitigation Measures	Who to implement the measure ?	Location of the measure	What requirements or standards for the measure to achieve ?	Status	
3.6.1	• the area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores;	DSD's Contractor	Construction Work Sites	Air Pollution Control (Construction Dust) Regulation	✓	
	 where a site boundary adjoins a road, street or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length except for a site entrance or exit; 				✓	
	• every main haul road should be scaled with concrete and kept clear of dusty materials or sprayed with water so as to maintain the entire road surface wet;				✓	
	• the portion of road leading only to a construction site that is within 30m of a designated vehicle entrance or exit should be kept clear of dusty materials;				✓	
	stockpile of dusty materials should be either covered entirely by impervious sheeting, placed in an area sheltered on the top and the 3 sides; or sprayed with water so as to maintain the entire surface wet;				✓	
	all dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty material wet;				✓	
	vehicle speed should be limited to 10 kph except on completed access roads;				✓	
	• every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites;				✓	
	the load of dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle; and					✓
	• the working area of excavation should be sprayed with water immediately before, during and immediately after the operations so as to maintain the entire surface wet.				✓	
Noise						
4.6.1	During Construction Appropriate mitigation measures such as the use of quiet equipment and movable barriers will be developed to ensure that noise can be reduced to acceptable levels without causing programme delays	DSD's Contractor	Construction Work Sites	PN 2/93 Noise from Construction Activities & EIAO	N/A	
	Good Site Practice Good site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs. The following package of measures should be followed during construction:	_				
	 only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction works; 				✓	
	 machines and plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; 				✓	

EIA Ref.	Recommended Mitigation Measures	Who to implement the measure ?	Location of the measure	What requirements or standards for the measure to achieve ?	Status	
4.6.1	• plant known to emit noise strongly in one direction should, where possible, be orientated to direct noise away from the NSRs;	DSD's Contractor	Construction Work	Air Pollution Control (Construction Dust)	✓	
	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.				✓	
	 For Drill and Blast Works Charge mass per delay should be decreased by minimising the number of blastholes firing on each delay. 				N/A	
	Smaller blasthole patterns and longer delays should be used between dependent charges.				N/A	
	Times of blasting should be established to suit the situation and firing blasts when neighbours are busy with their daily tasks (and at a regular time such as lunch time).					N/A
	 For TBM Tunnelling For the tunnel excavation, it is anticipated that beyond the initial length (say within 30m), excavation will be carried out well within the tunnel and door should be provided to further minimize the noise nuisance to the nearby receivers. 			N/A		
4.6.2	During Operation	DSD's Contractor	Project Area	NCO & EIAO		
	Good site practice and noise management can significantly reduce the impact of maintenance activities on nearby NSRs. The following package of measures should be followed during construction	Contractor				
	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	√	
	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 WQO		
	Precautions to be taken at any time of year when rainstorms are likely:				✓	
	 Temporarily exposed surfaces should be covered e.g. by tarpaulin. Temporary access roads should be protected by crushed stone or gravel. 	-			✓	
	Trenches should be dug and backfilled in short sections. Measures should be taken to minimize the ingress of rainwater into trenches.	-			✓	
	Actions to be taken when a rainstorm is imminent or forecast: • Silt removal facilities, should be checked to ensure that they can function properly.				✓	

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	 Open stockpiles of construction materials on site should be covered with tarpaulin or similar fabric. 	DSD's Contractor	Construction Work Sites	WQO	✓				
	All temporary covers to slopes and stockpiles should be secured.				✓				
	 Actions to be taken during or after rainstorms: Silt removal facilities should be checked and maintained to ensure satisfactory working conditions. 				✓				
	Spill Control and Response Plan								
	1 Prevention and Precaution Measures								
	General PrecautionsNo discharge of silty water into watercourses.				✓				
	 All materials to be used during construction and operation shall be identified and their hazard potential evaluated. 				✓				
	 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. 				✓				
	 Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials. 				✓				
	 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. 					✓			
	 Suitable containers shall be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport 					✓			
	 Chemical waste containers shall be suitably labelled to notify and warn the personnel who are handling the wastes to avoid accidents. 					✓			
	• 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.				✓				
	Storage PrecautionsAll chemical storage containers shall be correctly labelled.						✓		
	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.				✓	
	 Absorbent materials shall be used to clean up the spills and shall be disposed of as chemical wastes. 				✓	
	 Where appropriate suitable solvents may be used to clean the contaminated area after removal of all contaminated materials. 				✓	
	 All necessary protective devices, safety equipment, containers and clean up materials for emergency use shall be maintained to a high standard. 				✓	
	3 Spill Clean Up and Disposal					
	Effect the response plan.					✓
	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.				✓	
	• Pumps.	1			\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				√
	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	√

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 ₃ of inert surplus material generated by the project is suitable for public fill. The public fill reception facility at Tuen Mun Area 38 provides a suitable facility for the reuse of surplus inert C&D material generated from the project.	DSD's Contractor	Construction Work Sites	WDO (Cap.354), ETWBTC No. 15/2003, ETWBTC No. 12/2002 and ETWBTC No. 31/2004	
	Under the contract, the contractor will be required to minimise the generation of C&D material and reuse it on site through the following:				
	(a) to plan in the design and construction, methods to minimise the generation of C&D material;		✓		
	(b) to submit a Waste Management Plan (WMP) in accordance with Environment Transport and Works Bureau Technical Circular (ETWBTC) No. 15/2003 or any superseding circular(s);				✓
	(c) to reuse recycled aggregates in accordance with ETWBTC No. 12/2002 or any superseding circular(s);				✓
	(d) to observe the requirements of the Trip-Ticket System, stipulated in ETWBTC No. 31/2004 or any superceding circular(s), for disposal of C&D material;				✓
	(e) to incorporate a Waste Management System into the WMP for effective management and control of C&D materials to avoid/reduce/minimise the generation of C&D material during construction.				✓
	The contractor will be required to properly sort into inert C&D materials, metals, timber and other non-inert C&D material in the workplace to prevent cross-contamination.				\checkmark
	In addition, DSD will conduct site inspection to monitor the contractors' performance in the implementation of the WMP and other relevant specified requirements.	DSD	Construction Work Sites	WDO (Cap.354) and ETWBTC No. 15/2003 WDO (Cap.354) and ETWBTC No. 15/2003	√
	Excavated Materials Excavated materials should be segregated from other wastes to avoid contamination thereby ensuring acceptability at public filling areas and avoiding the need for disposal at landfill. Municipal Waste	DSD's Contractor	Construction Work Sites		√
	Temporary refuse collection facilities should be set-up by the contractor and wastes should be stored in appropriate containers prior to collection and disposal.				✓
	Domestic effluent generated by the workforce will be directed to foul sewer or chemical toilets if public facilities are not available.				\checkmark
6.5.1	Waste Management Plan A Waste Management Plan (WMP) for the construction of the Project should be prepared as part of the contractors submission. It will provide recommendations for appropriate recycling or disposal route and should include method statement for stockpiling and transportation of the excavated material and other construction wastes should also be included in the WMP and approved before the commencement of construction. All mitigation measures arising from the approved WMP shall be fully implemented.	DSD's Contractor	Construction Work Sites	WDO (Cap.354), ETWBTC No. 15/2003 and ETWBTC No. 33/2002	√

EIA Ref.	Recommended Mitigation Measures	Who to implement the measure?	Location of the measure	What requirements or standards for the measure to achieve?	Status
	For the purpose of enhancing the management of C&D material including rock, and to minimize its generation at source, a C&D Material Management Plan (C&DMMP) has been prepared for this project and would be processed in accordance with the Environment, Transport and Works Bureau Technical Circular (Works) No. 33/2002 - Management of Construction and Demolition Material Including Rock.				N/A
Ecology	_			· · · · · · · · · · · · · · · · · · ·	
7.7.1	Avoidance The surface structures are located mainly on existing disturbed areas (ie pollution and urbanisation) and have generally avoided the natural stream sections of higher species diversity and abundance of aquatic organisms.	DSD's Contractor	Construction Work Sites	EIAO	✓
	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	~
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

IMPLEMENTATION SCHEDULE for November 2008

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. The dust suppression measures set out in the <i>Air Pollution Control (Construction Dust)</i>	DSD's Contractor	Construction Work Sites	Air Pollution Control (Construction Dust) Regulation	N/A
	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 Air Pollution Control (Construction Dust) Regulation, the dust level is expected to be reduced by over 75%.				N/A
	General				
	To further ensure compliance with the guideline and AQO limit at the ASRs at all time, it is recommended to implement the <i>Air Pollution Control (Construction Dust) Regulation</i> and include good site practice in the contract clauses to minimize cumulative dust impact. In addition, a comprehensive dust monitoring and audit programme is recommended to ensure proper implementation of the identified mitigation measures. Details of the monitoring and audit requirements are provided in a separate EM&A Manual.				
	• effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building or if a canopy is provided at the first floor level, from the first floor level, up to the highest level of the scaffolding where a scaffolding is erected around the perimeter of a building under construction;				N/A
	• dump truck for material transport should be totally enclosed by impervious sheeting;				✓
	 any excavated dusty materials or stockpile of dusty materials should be covered entirely by impervious sheeting or sprayed with water so as to maintain the entire surface wet, and recovered or backfilled or reinstated within 24 hours of the excavation or unloading; 				✓
	• stockpile of dusty materials should not extend beyond the pedestrian barriers, fencing or traffic cones;				✓
	 dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; 				✓

EIA Ref.	Recommended Mitigation Measures	Who to implement the measure ?	Location of the measure	What requirements or standards for the measure to achieve ?	Status
3.6.1	• the area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores;	DSD's Contractor	Construction Work Sites	Air Pollution Control (Construction Dust) Regulation	✓
	 where a site boundary adjoins a road, street or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length except for a site entrance or exit; 				✓
	• every main haul road should be scaled with concrete and kept clear of dusty materials or sprayed with water so as to maintain the entire road surface wet;				✓
	• the portion of road leading only to a construction site that is within 30m of a designated vehicle entrance or exit should be kept clear of dusty materials;				✓
	stockpile of dusty materials should be either covered entirely by impervious sheeting, placed in an area sheltered on the top and the 3 sides; or sprayed with water so as to maintain the entire surface wet;	-			✓
	all dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty material wet;			✓	
	vehicle speed should be limited to 10 kph except on completed access roads;				✓
	• every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites;			✓	
	the load of dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle; and				✓
	• the working area of excavation should be sprayed with water immediately before, during and immediately after the operations so as to maintain the entire surface wet.				✓
Noise					
4.6.1	During Construction Appropriate mitigation measures such as the use of quiet equipment and movable barriers will be developed to ensure that noise can be reduced to acceptable levels without causing programme delays	DSD's Contractor	Construction Work Sites	PN 2/93 Noise from Construction Activities & EIAO	N/A
	Good Site Practice Good site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs. The following package of measures should be followed during construction:				
	 only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction works; 				✓
	 machines and plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; 				✓

EIA Ref.	Recommended Mitigation Measures	Who to implement the measure ?	Location of the measure	What requirements or standards for the measure to achieve ?	Status	
4.6.1	• plant known to emit noise strongly in one direction should, where possible, be orientated to direct noise away from the NSRs;	DSD's Contractor	Contractor Work (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.				✓	
	 For Drill and Blast Works Charge mass per delay should be decreased by minimising the number of blastholes firing on each delay. 				N/A	
	Smaller blasthole patterns and longer delays should be used between dependent charges.				N/A	
	Times of blasting should be established to suit the situation and firing blasts when neighbours are busy with their daily tasks (and at a regular time such as lunch time).				N/A	
	 For TBM Tunnelling For the tunnel excavation, it is anticipated that beyond the initial length (say within 30m), excavation will be carried out well within the tunnel and door should be provided to further minimize the noise nuisance to the nearby receivers. 				N/A	
4.6.2	During Operation	DSD's Contractor	Project Area NCO & EIAO	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					
	• 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	√	
	Mitigation measures and a spill control and response plan have been prepared for works at the intakes and work sites.			regard to site drainage (ProPECC PN 1/94) and		
	Precautions to be taken at any time of year when rainstorms are likely:			WQO	✓	
	 Temporarily exposed surfaces should be covered e.g. by tarpaulin. Temporary access roads should be protected by crushed stone or gravel. 	_			✓	
	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	• Open stockpiles of construction materials on site should be covered with tarpaulin or similar fabric.	DSD's Contractor		Construction Work Sites	WQO	✓					
	All temporary covers to slopes and stockpiles should be secured.				✓						
	 Actions to be taken during or after rainstorms: Silt removal facilities should be checked and maintained to ensure satisfactory working conditions. 						✓				
	Spill Control and Response Plan										
	1 Prevention and Precaution Measures										
	General PrecautionsNo discharge of silty water into watercourses.				✓						
	 All materials to be used during construction and operation shall be identified and their hazard potential evaluated. 		- - - -					✓			
	 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. 					✓					
	 Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials. 								✓		
	 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. 										✓
	 Suitable containers shall be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport 								✓		
	 Chemical waste containers shall be suitably labelled to notify and warn the personnel who are handling the wastes to avoid accidents. 							✓			
	• 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.			✓							
	Storage PrecautionsAll chemical storage containers shall be correctly labelled.				✓						
	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.				✓
	 Absorbent materials shall be used to clean up the spills and shall be disposed of as chemical wastes. 				✓
	 Where appropriate suitable solvents may be used to clean the contaminated area after removal of all contaminated materials. 				✓
	 All necessary protective devices, safety equipment, containers and clean up materials for emergency use shall be maintained to a high standard. 				✓
	3 Spill Clean Up and Disposal				
	Effect the response plan.				✓
	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.				✓
	• 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				√
	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		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	√

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 ₃ 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		No. 15/ 2003, ETWBTC No. 12/2002 and ETWBTC No.	
	der the contract, the contractor will be required to minimise the generation of C&D terial 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;	perceding circular(s), for disposal of C&D material; Vaste Management System into the WMP for effective management D materials to avoid/reduce/minimise the generation of C&D onstruction. e required to properly sort into inert C&D materials, metals, timber and			✓	
	(e) to incorporate a Waste Management System into the WMP for effective management and control of C&D materials to avoid/reduce/minimise the generation of C&D material during construction.				✓	
	The contractor will be required to properly sort into inert C&D materials, metals, timber and other non-inert C&D material in the workplace to prevent cross-contamination.				\checkmark	
	In addition, DSD will conduct site inspection to monitor the contractors' performance in the implementation of the WMP and other relevant specified requirements.	DSD	Construction Work Sites	WDO (Cap.354) and ETWBTC No. 15/2003	√	
	Excavated Materials Excavated materials should be segregated from other wastes to avoid contamination thereby ensuring acceptability at public filling areas and avoiding the need for disposal at landfill. Municipal Waste	DSD's Contractor	D's Construction WDO (Cap.354) and	WDO (Cap.354) and	√	
	Temporary refuse collection facilities should be set-up by the contractor and wastes should be stored in appropriate containers prior to collection and disposal.			✓		
	Domestic effluent generated by the workforce will be directed to foul sewer or chemical toilets if public facilities are not available.				\checkmark	
6.5.1	Waste Management Plan A Waste Management Plan (WMP) for the construction of the Project should be prepared as part of the contractors submission. It will provide recommendations for appropriate recycling or disposal route and should include method statement for stockpiling and transportation of the excavated material and other construction wastes should also be included in the WMP and approved before the commencement of construction. All mitigation measures arising from the approved WMP shall be fully implemented.	DSD's Contractor	Construction Work Sites	WDO (Cap.354), ETWBTC No. 15/2003 and ETWBTC No. 33/2002	√	

EIA Ref.	Recommended Mitigation Measures	Who to implement the measure?	Location of the measure	What requirements or standards for the measure to achieve?	Status
	For the purpose of enhancing the management of C&D material including rock, and to minimize its generation at source, a C&D Material Management Plan (C&DMMP) has been prepared for this project and would be processed in accordance with the Environment, Transport and Works Bureau Technical Circular (Works) No. 33/2002 - Management of Construction and Demolition Material Including Rock.				N/A
Ecology	_			· · · · · · · · · · · · · · · · · · ·	
7.7.1	Avoidance The surface structures are located mainly on existing disturbed areas (ie pollution and urbanisation) and have generally avoided the natural stream sections of higher species diversity and abundance of aquatic organisms.	DSD's Contractor	Construction Work Sites	EIAO	✓
	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	~
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
Cultural	<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

IMPLEMENTATION SCHEDULE for December 2008

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	ıality				
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. The dust suppression measures set out in the <i>Air Pollution Control (Construction Dust)</i>	DSD's Contractor	Construction Work Sites	Air Pollution Control (Construction Dust) Regulation	N/A
	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 Air Pollution Control (Construction Dust) Regulation, the dust level is expected to be reduced by over 75%.				N/A
	General				
	To further ensure compliance with the guideline and AQO limit at the ASRs at all time, it is recommended to implement the <i>Air Pollution Control (Construction Dust) Regulation</i> and include good site practice in the contract clauses to minimize cumulative dust impact. In addition, a comprehensive dust monitoring and audit programme is recommended to ensure proper implementation of the identified mitigation measures. Details of the monitoring and audit requirements are provided in a separate EM&A Manual.				
	 effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building or if a canopy is provided at the first floor level, from the first floor level, up to the highest level of the scaffolding where a scaffolding is erected around the perimeter of a building under construction; 				N/A
	• dump truck for material transport should be totally enclosed by impervious sheeting;				\checkmark
	 any excavated dusty materials or stockpile of dusty materials should be covered entirely by impervious sheeting or sprayed with water so as to maintain the entire surface wet, and recovered or backfilled or reinstated within 24 hours of the excavation or unloading; 				✓
	• stockpile of dusty materials should not extend beyond the pedestrian barriers, fencing or traffic cones;				✓
	 dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; 				✓

EIA Ref.	Recommended Mitigation Measures	Who to implement the measure ?	Location of the measure	What requirements or standards for the measure to achieve?	Status	
3.6.1	• the area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores;	DSD's Contractor	Construction Work Sites	Air Pollution Control (Construction Dust) Regulation	✓	
	 where a site boundary adjoins a road, street or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length except for a site entrance or exit; 				✓	
	• every main haul road should be scaled with concrete and kept clear of dusty materials or sprayed with water so as to maintain the entire road surface wet;				✓	
	• the portion of road leading only to a construction site that is within 30m of a designated vehicle entrance or exit should be kept clear of dusty materials;				✓	
	stockpile of dusty materials should be either covered entirely by impervious sheeting, placed in an area sheltered on the top and the 3 sides; or sprayed with water so as to maintain the entire surface wet;				✓	
	all dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty material wet;				✓	
	vehicle speed should be limited to 10 kph except on completed access roads;				✓	
	• every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites;				✓	
	the load of dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle; and					✓
	• the working area of excavation should be sprayed with water immediately before, during and immediately after the operations so as to maintain the entire surface wet.				✓	
Noise						
4.6.1	During Construction Appropriate mitigation measures such as the use of quiet equipment and movable barriers will be developed to ensure that noise can be reduced to acceptable levels without causing programme delays	DSD's Contractor	Construction Work Sites	PN 2/93 Noise from Construction Activities & EIAO	N/A	
	Good Site Practice Good site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs. The following package of measures should be followed during construction:					
	 only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction works; 				✓	
	 machines and plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; 				✓	

EIA Ref.	Recommended Mitigation Measures	Who to implement the measure ?	Location of the measure	What requirements or standards for the measure to achieve ?	Status
4.6.1	• plant known to emit noise strongly in one direction should, where possible, be orientated to direct noise away from the NSRs;	DSD's Contractor	Construction Work	Air Pollution Control (Construction Dust)	✓
	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.				✓
	 For Drill and Blast Works Charge mass per delay should be decreased by minimising the number of blastholes firing on each delay. 				N/A
	Smaller blasthole patterns and longer delays should be used between dependent charges.				N/A
	Times of blasting should be established to suit the situation and firing blasts when neighbours are busy with their daily tasks (and at a regular time such as lunch time).				N/A
	 For TBM Tunnelling For the tunnel excavation, it is anticipated that beyond the initial length (say within 30m), excavation will be carried out well within the tunnel and door should be provided to further minimize the noise nuisance to the nearby receivers. 				N/A
4.6.2	During Operation	DSD's Contractor	Project Area	NCO & EIAO	
	Good site practice and noise management can significantly reduce the impact of maintenance activities on nearby NSRs. The following package of measures should be followed during construction	-			
	only well-maintained plant should be operated on-site;				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	√
	Mitigation measures and a spill control and response plan have been prepared for works at the intakes and work sites.			regard to site drainage (ProPECC PN 1/94) and	
	Precautions to be taken at any time of year when rainstorms are likely:			WQO	✓
	 Temporarily exposed surfaces should be covered e.g. by tarpaulin. Temporary access roads should be protected by crushed stone or gravel. 				✓
	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	• Open stockpiles of construction materials on site should be covered with tarpaulin or similar fabric.	DSD's Contractor	Construction Work Sites	WQO	✓											
	All temporary covers to slopes and stockpiles should be secured.				✓											
	Actions to be taken during or after rainstorms: Silt removal facilities should be checked and maintained to ensure satisfactory working conditions.				✓											
	Spill Control and Response Plan															
	1 Prevention and Precaution Measures															
	General PrecautionsNo discharge of silty water into watercourses.				✓											
	 All materials to be used during construction and operation shall be identified and their hazard potential evaluated. 				✓											
	 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. 	-														✓
	 Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials. 					✓										
	 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. 							✓								
	 Suitable containers shall be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport 						✓									
	 Chemical waste containers shall be suitably labelled to notify and warn the personnel who are handling the wastes to avoid accidents. 				✓											
	• 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.				✓											
	Storage PrecautionsAll chemical storage containers shall be correctly labelled.				✓											
	• 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.						✓									
	 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.				✓	
	 Absorbent materials shall be used to clean up the spills and shall be disposed of as chemical wastes. 				✓	
	 Where appropriate suitable solvents may be used to clean the contaminated area after removal of all contaminated materials. 				✓	
	 All necessary protective devices, safety equipment, containers and clean up materials for emergency use shall be maintained to a high standard. 				✓	
	3 Spill Clean Up and Disposal					
	Effect the response plan.				✓	
	Control the leakage and absorb the spillage using suitably absorbent materials.				\checkmark	
	Provide safety equipment and personal protective equipment for handling of chemical wastes would be similar to that for handling of chemicals.				\checkmark	
	Safety equipment includes but is not limited to: • Fire extinguishers.				✓	
	• Spades, brushes, dustpan, mop and bucket (or similar readily available on site).				✓	
	• Absorbent material such as dry sand, tissues and toweling (all materials readily available on-site).				\checkmark	
	Containers including plaster bags, drums, etc.				\checkmark	
	Absorbing materials.	_ - -			\checkmark	
	• Pumps.				\checkmark	
	Personal protective equipment includes as appropriate: • First-aid kits.					✓
	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				√
	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	√

EIA Ref.	Recommended Mitigation Measures	Who to implement the measure?	Location of the measure	What requirements or standards for the measure to achieve ?	Status	
6.5.1	As referred to the section 6.4.1, the 317,936m3 of inert surplus material generated by the project is suitable for public fill. The public fill reception facility at Tuen Mun Area 38 provides a suitable facility for the reuse of surplus inert C&D material generated from the project.	DSD's Contractor	Construction Work Sites			
	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;	irements of the Trip-Ticket System, stipulated in ETWBTC No.			✓	
	(e) to incorporate a Waste Management System into the WMP for effective management and control of C&D materials to avoid/reduce/minimise the generation of C&D material during construction.				✓	
	The contractor will be required to properly sort into inert C&D materials, metals, timber and other non-inert C&D material in the workplace to prevent cross-contamination.				\checkmark	
	In addition, DSD will conduct site inspection to monitor the contractors' performance in the implementation of the WMP and other relevant specified requirements.	DSD	Construction Work Sites	WDO (Cap.354) and ETWBTC No. 15/2003	√	
	Excavated Materials Excavated materials should be segregated from other wastes to avoid contamination thereby ensuring acceptability at public filling areas and avoiding the need for disposal at landfill. Municipal Waste	DSD's Contractor	Construction Work Sites	Construction WDO (Cap.354) and	WDO (Cap.354) and	√
	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.				✓	
6.5.1	Waste Management Plan A Waste Management Plan (WMP) for the construction of the Project should be prepared as part of the contractors submission. It will provide recommendations for appropriate recycling or disposal route and should include method statement for stockpiling and transportation of the excavated material and other construction wastes should also be included in the WMP and approved before the commencement of construction. All mitigation measures arising from the approved WMP shall be fully implemented.	DSD's Contractor	Construction Work Sites	WDO (Cap.354), ETWBTC No. 15/2003 and ETWBTC No. 33/2002	√	

EIA Ref.	Recommended Mitigation Measures	Who to implement the measure?	Location of the measure	What requirements or standards for the measure to achieve?	Status
	For the purpose of enhancing the management of C&D material including rock, and to minimize its generation at source, a C&D Material Management Plan (C&DMMP) has been prepared for this project and would be processed in accordance with the Environment, Transport and Works Bureau Technical Circular (Works) No. 33/2002 - Management of Construction and Demolition Material Including Rock.				N/A
Ecology	_			· · · · · · · · · · · · · · · · · · ·	
7.7.1	Avoidance The surface structures are located mainly on existing disturbed areas (ie pollution and urbanisation) and have generally avoided the natural stream sections of higher species diversity and abundance of aquatic organisms.	DSD's Contractor	Construction Work Sites	EIAO	✓
	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	√
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
Cultural	<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

Monitoring Locations

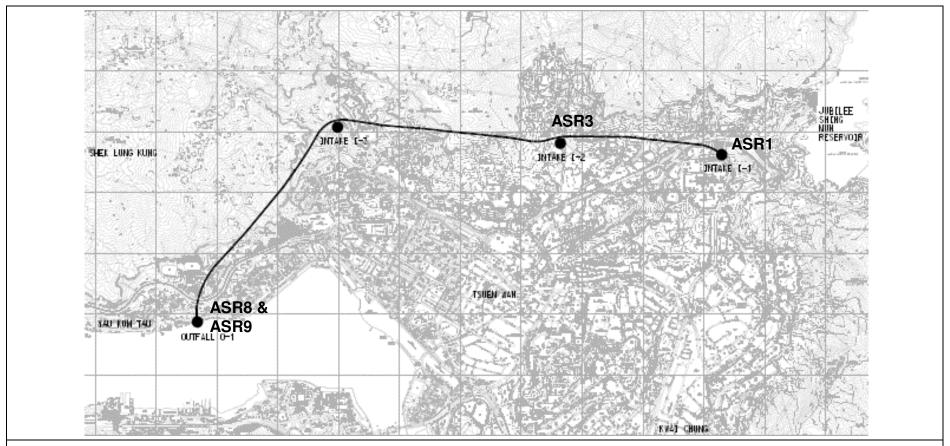


Figure 1 Air Quality Monitoring Stations

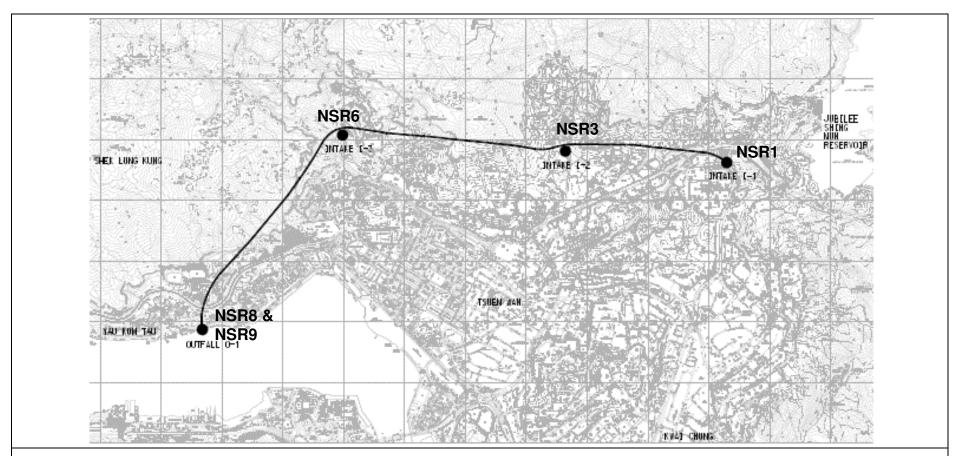


Figure 2 Noise Monitoring Stations

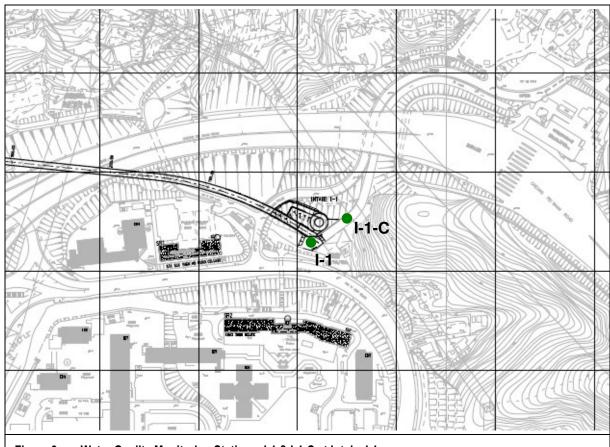
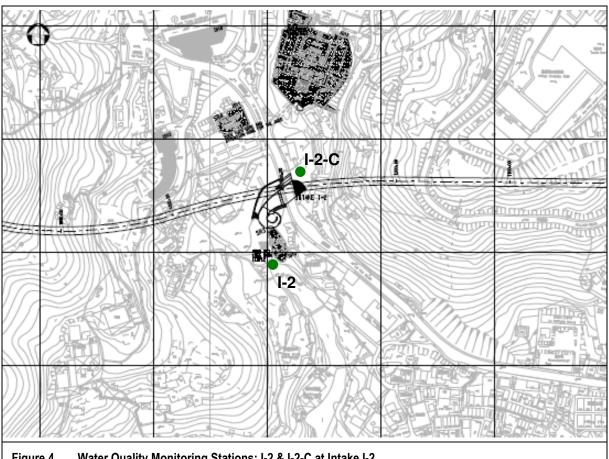
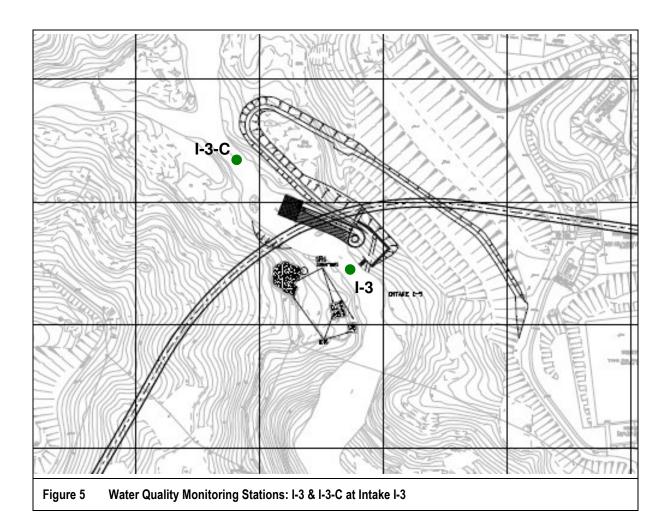


Figure 3 Water Quality Monitoring Stations: I-1 & I-1-C at Intake I-1



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



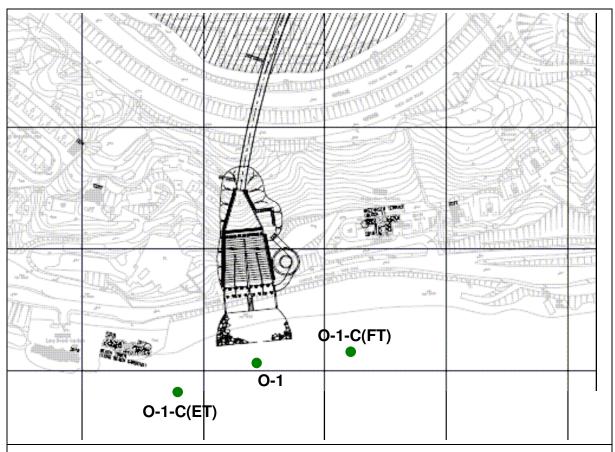
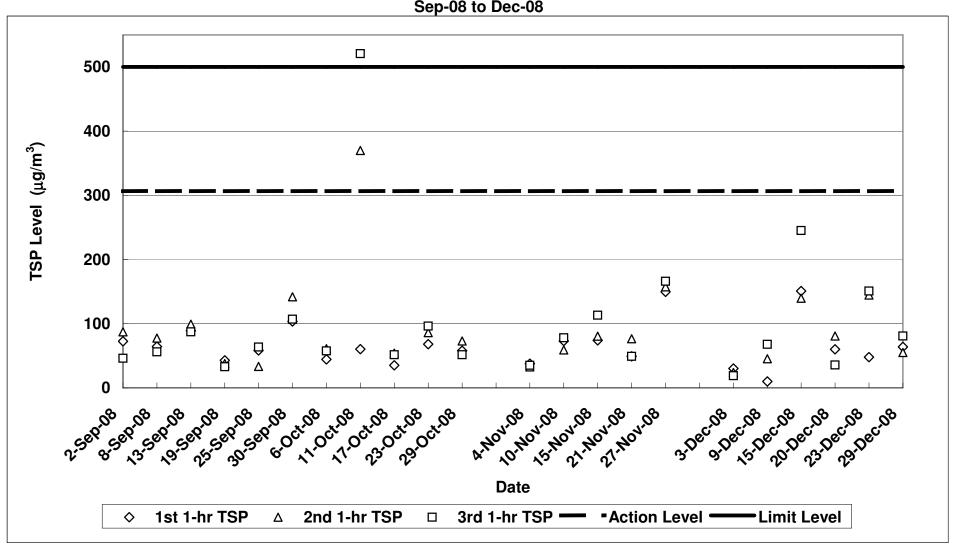


Figure 6 Water Quality Monitoring Stations: O-1, O-1-C(ET) & O-1-C(FT) at Outfall O-1

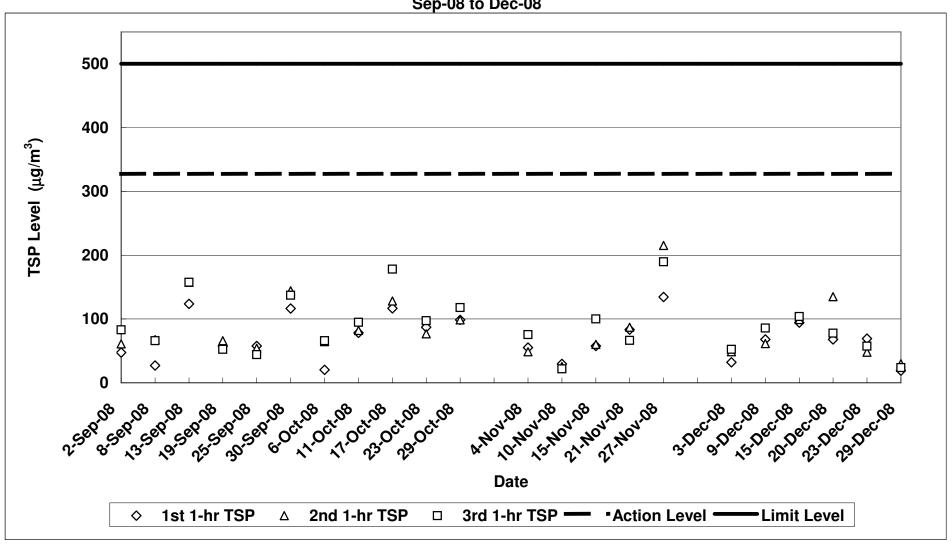
Appendix F

Monitoring Results

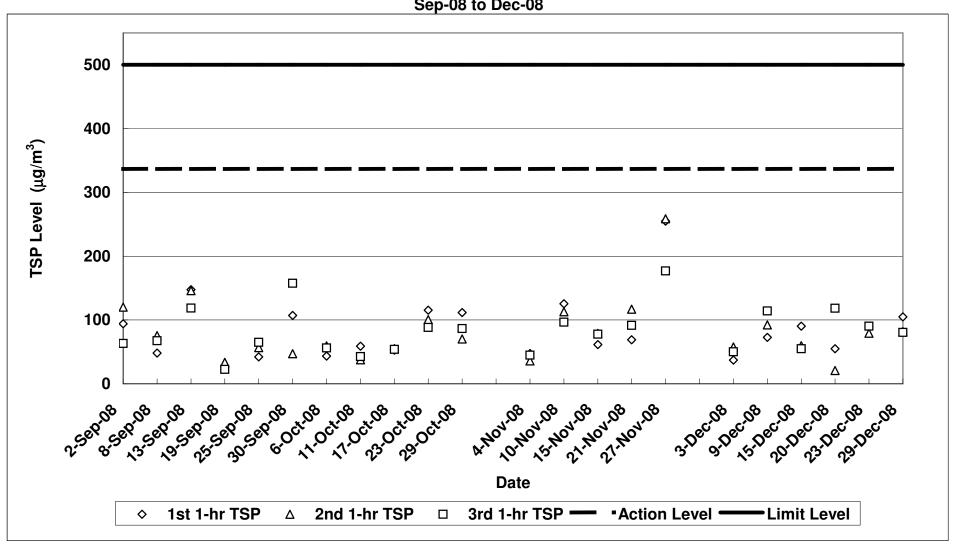
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Air Quality Monitoring (1-hr TSP) Results at Sik Sik Yuen Ho Fung College - Intake (ASR1) Sep-08 to Dec-08



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) Sep-08 to Dec-08

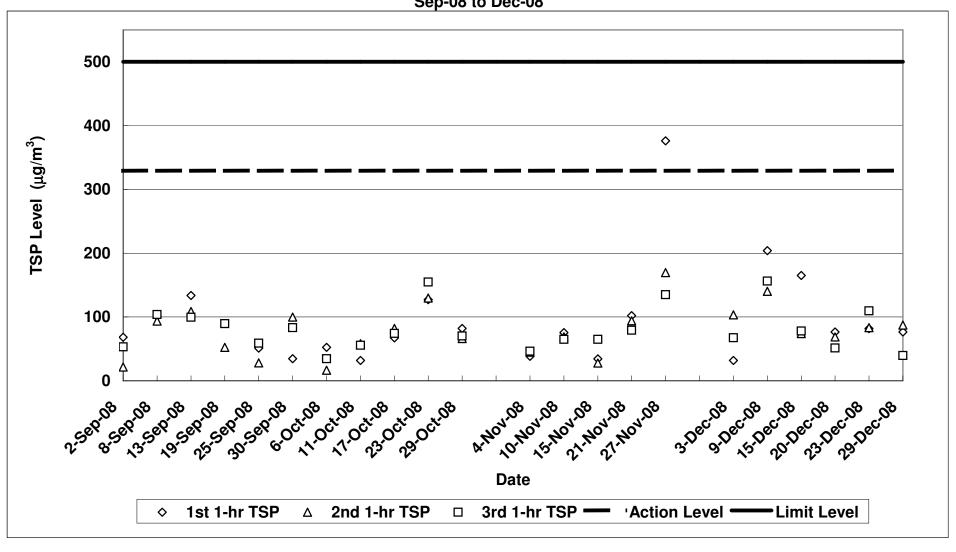


Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Air Quality Monitoring (1-hr TSP) Results at Long Beach Gardens - Outfall (ASR8) Sep-08 to Dec-08

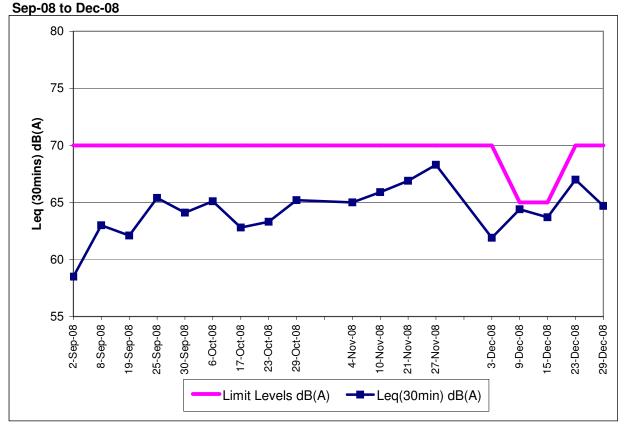


Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Air Quality Monitoring (1-hr TSP) Results at Greenview Terrance - Outfall (ASR9)

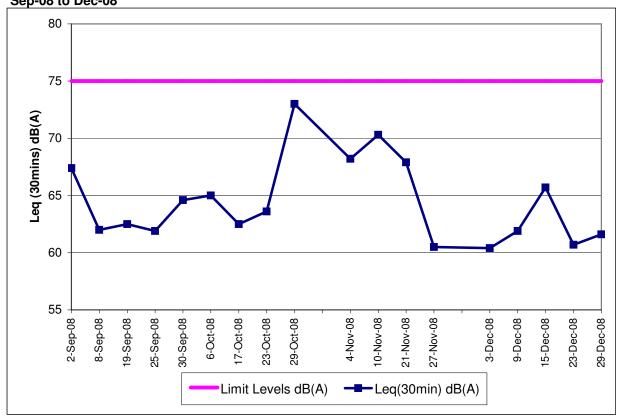
Sep-08 to Dec-08



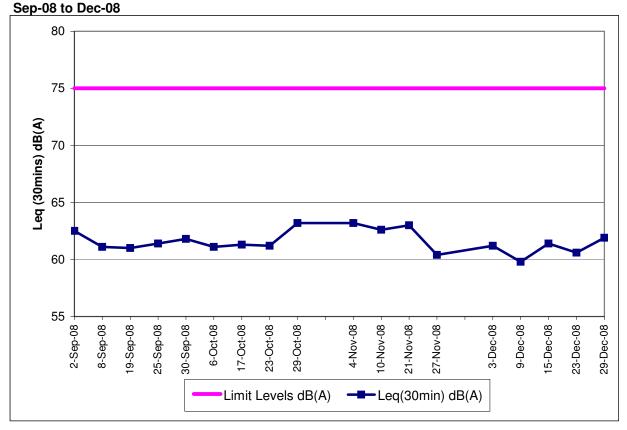
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Noise Monitoring Results at Sik Sik Yuen Ho Fung College (NSR 1)



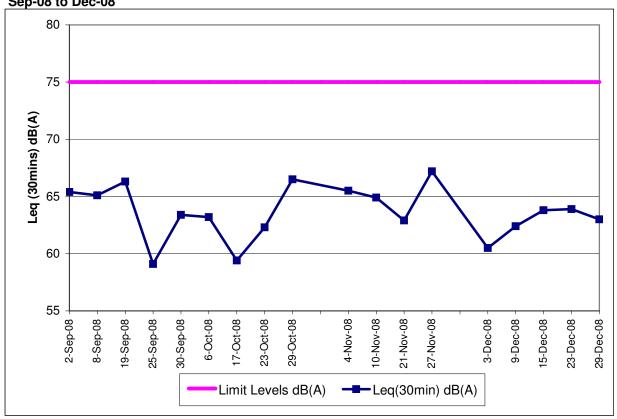
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Noise Monitoring Results at Hong Hoi Chee Hong Temple (NSR 3) Sep-08 to Dec-08



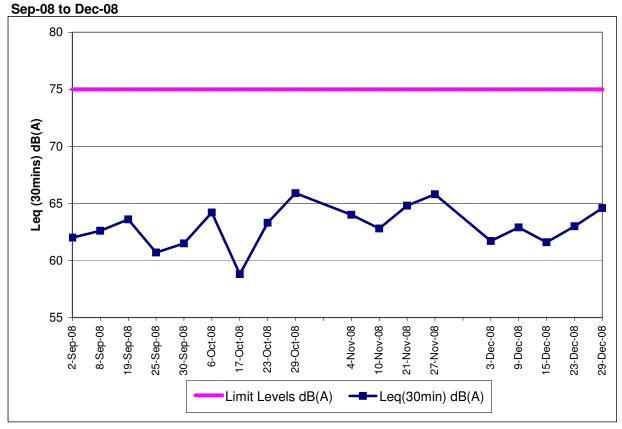
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Noise Monitoring Results at Squatters (NSR 6)



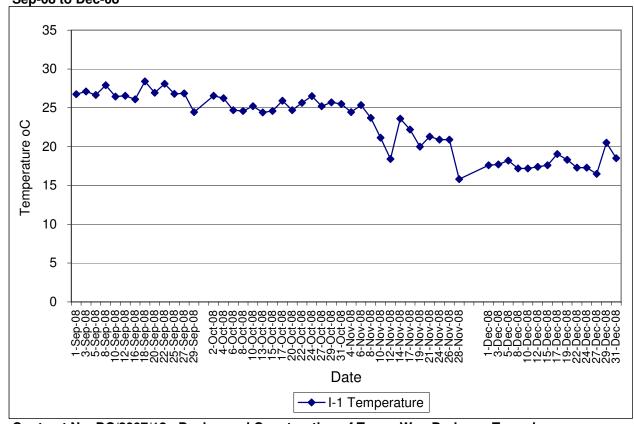
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Noise Monitoring Results at Long Beach Gardens (NSR 8) Sep-08 to Dec-08



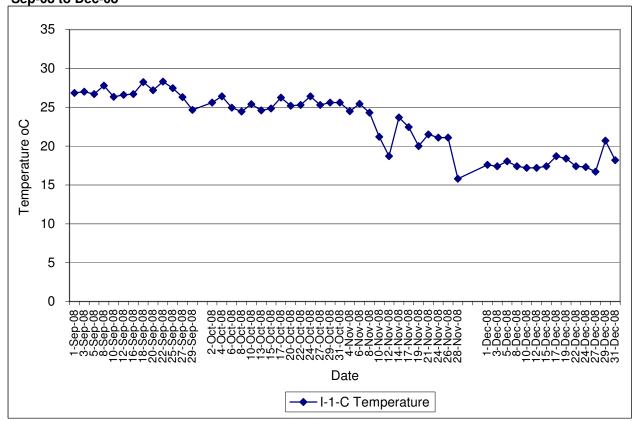
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Noise Monitoring Results at Greenview Terrace (NSR 9)



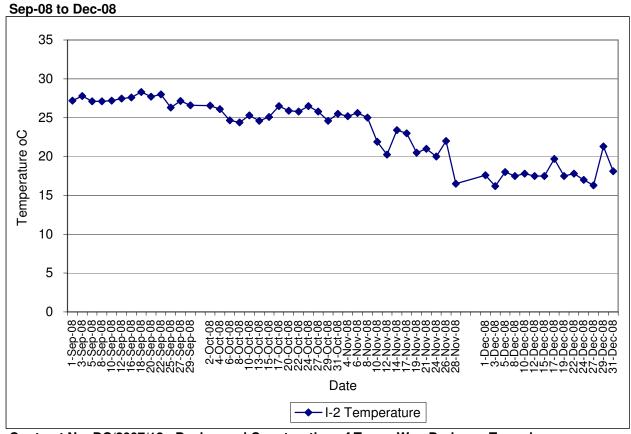
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Sik Sik Yuen Ho Fung College (I-1) Sep-08 to Dec-08



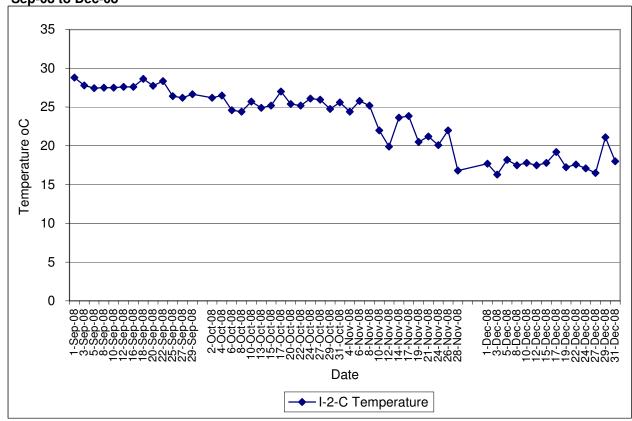
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Sik Sik Yuen Ho Fung College (I-1-C) Sep-08 to Dec-08



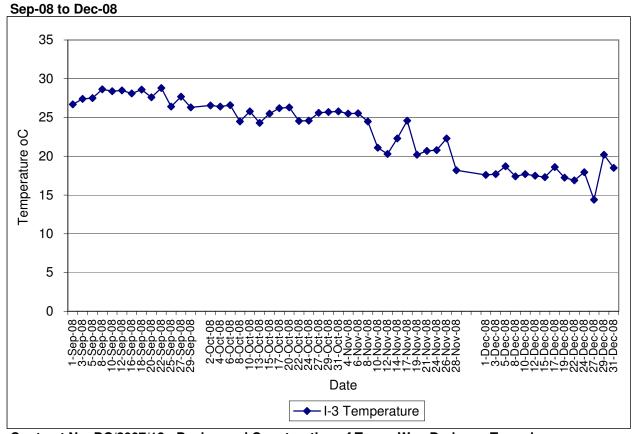
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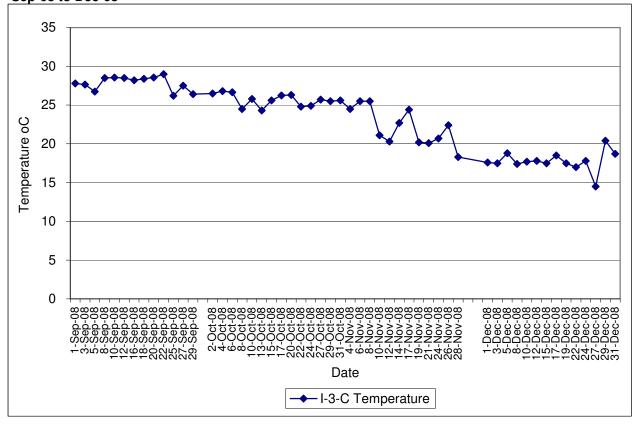
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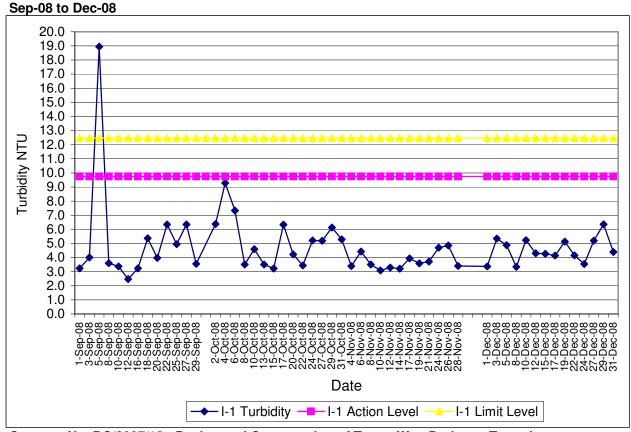
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Squatters (I-3)



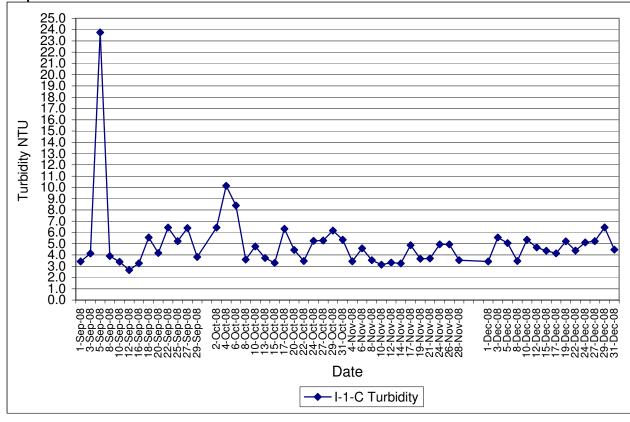
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Squatters (I-3-C) Sep-08 to Dec-08



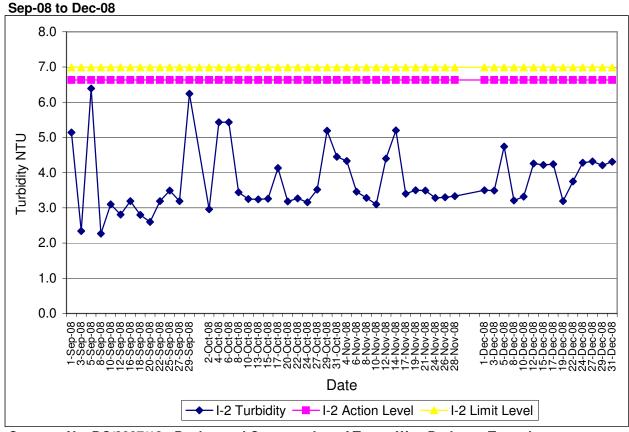
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Sik Sik Yuen Ho Fung College (I-1)



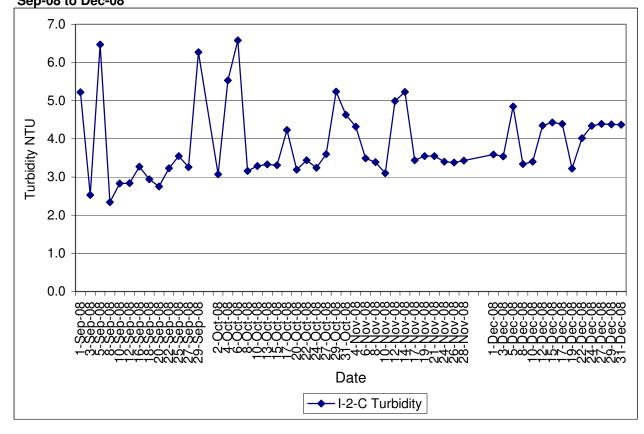
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Sik Sik Yuen Ho Fung College (I-1-C) Sep-08 to Dec-08



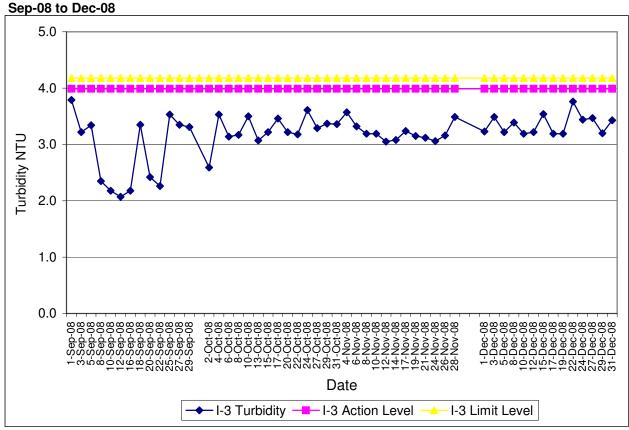
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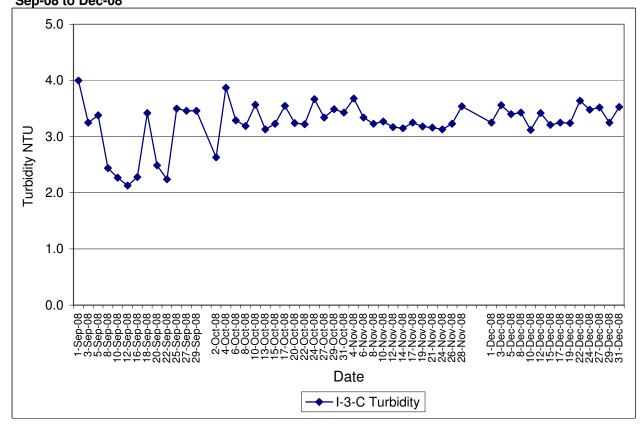
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Hong Hoi Chee Hong Temple (I-2-C) Sep-08 to Dec-08



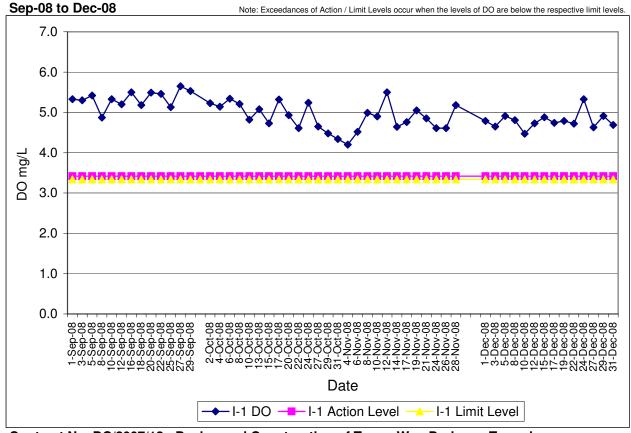
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Squatters (I-3)



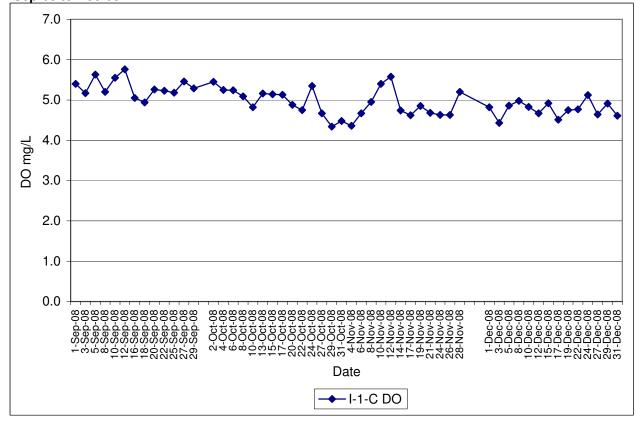
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Squatters (I-3-C) Sep-08 to Dec-08



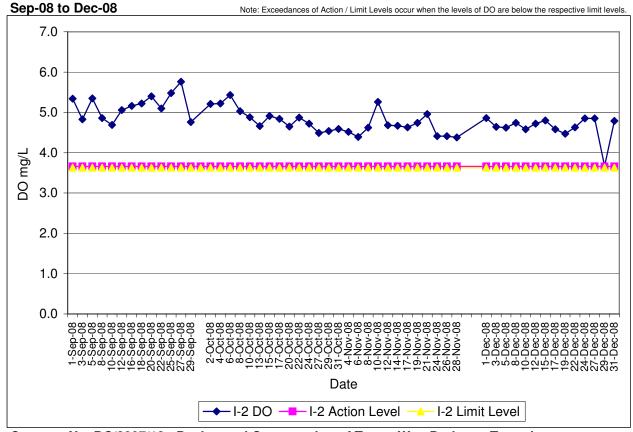
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Sik Sik Yuen Ho Fung College (I-1)



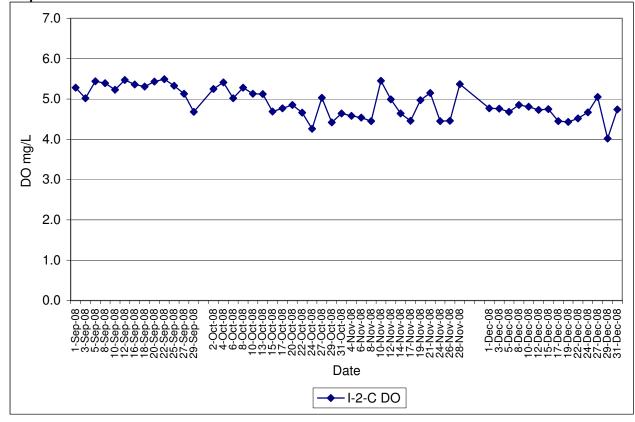
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Sik Sik Yuen Ho Fung College (I-1-C) Sep-08 to Dec-08



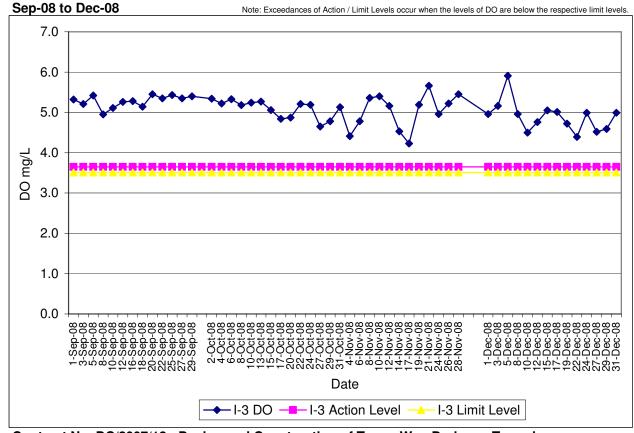
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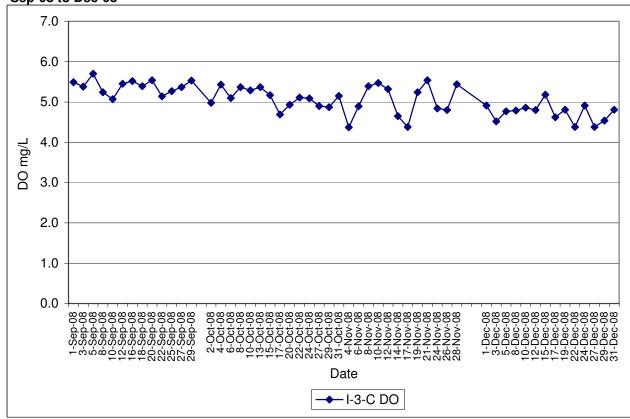
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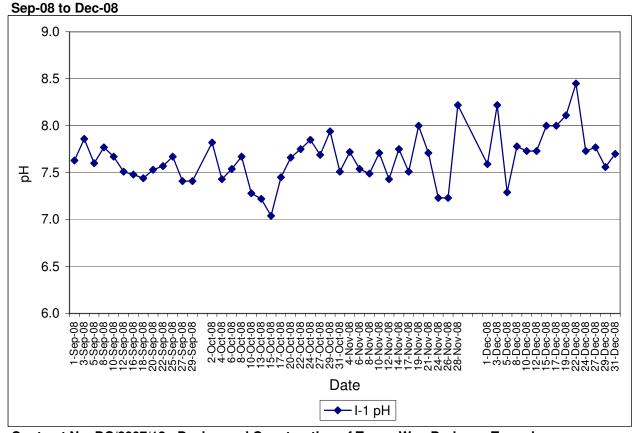
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Squatters (I-3)



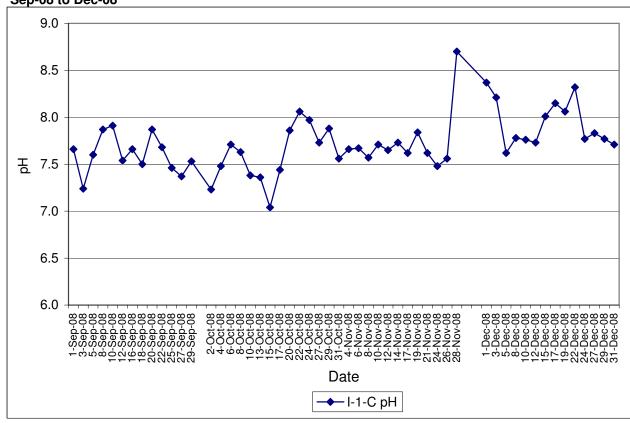
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Squatters (I-3-C) Sep-08 to Dec-08



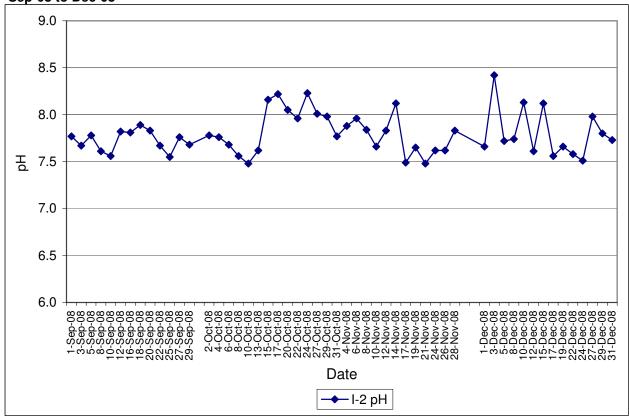
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Sik Sik Yuen Ho Fung College (I-1)



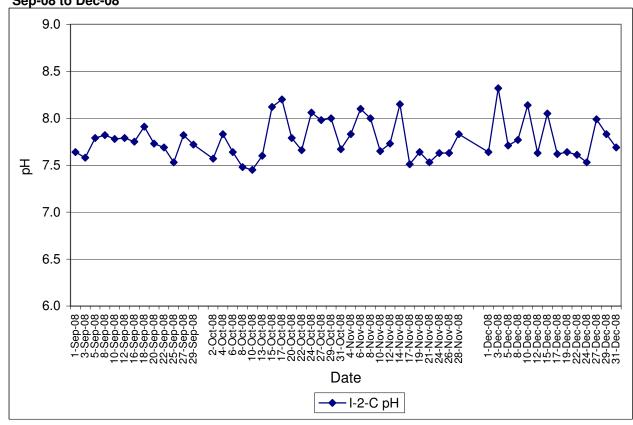
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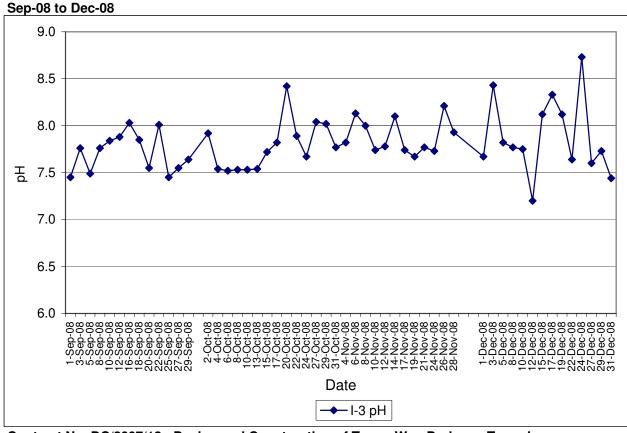
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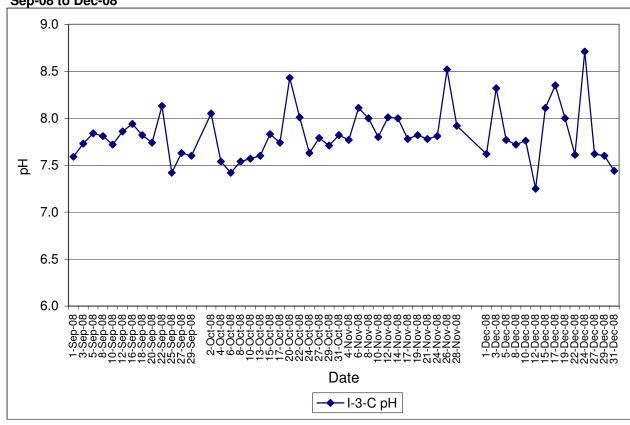
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Hong Hoi Chee Hong Temple (I-2-C) Sep-08 to Dec-08



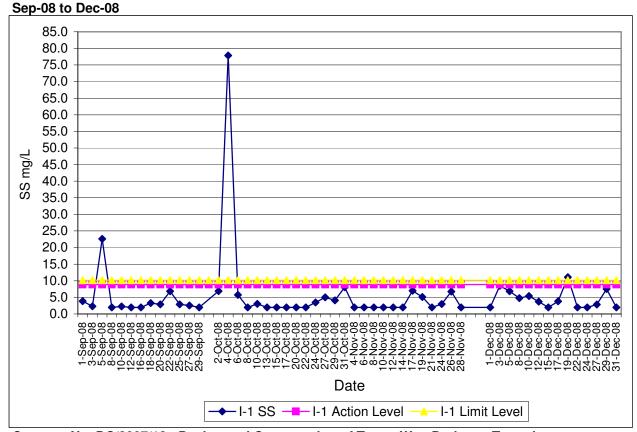
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Squatters (I-3)



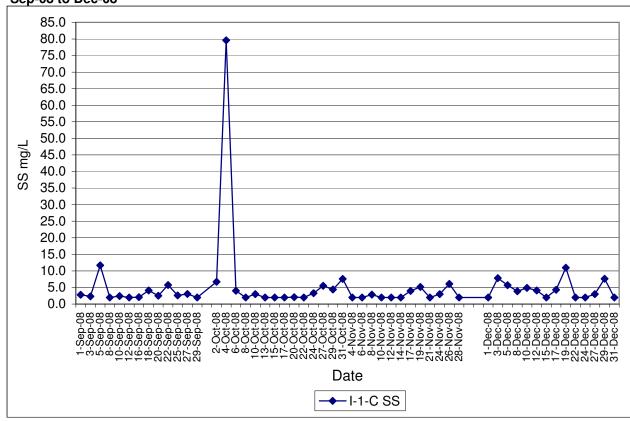
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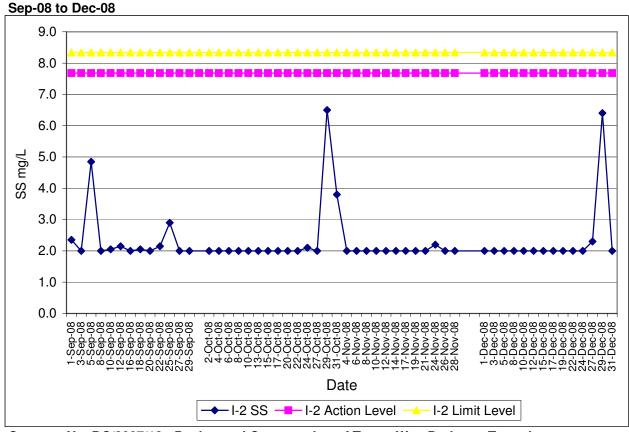
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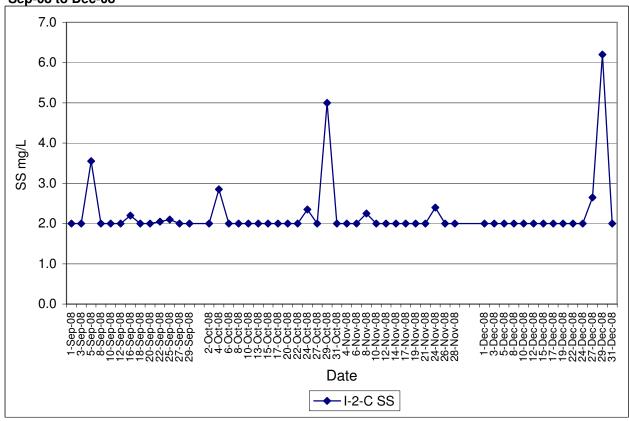
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Sik Sik Yuen Ho Fung College (I-1-C) Sep-08 to Dec-08



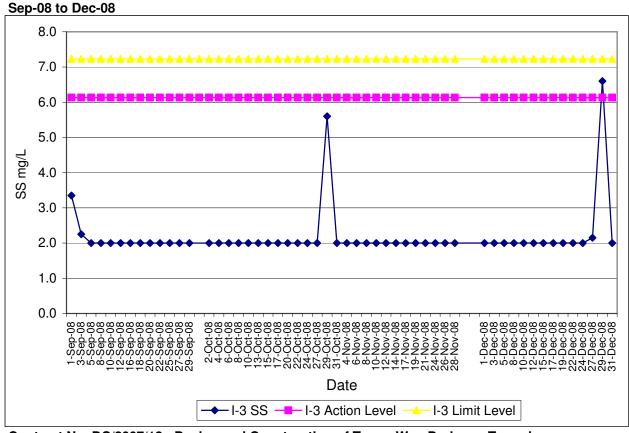
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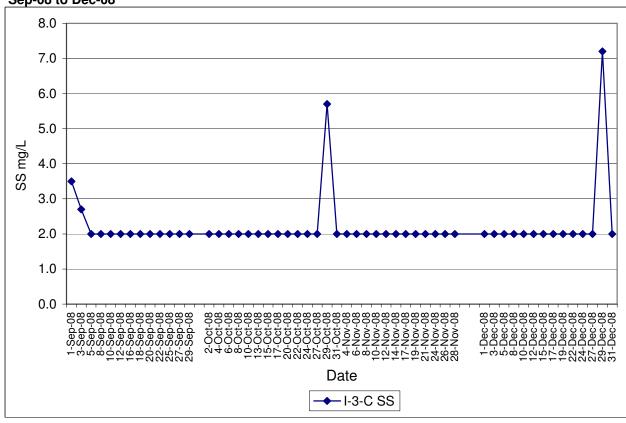
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Hong Hoi Chee Hong Temple (I-2-C) Sep-08 to Dec-08



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



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



Appendix G

Interim Notifications of Environmental Quality Limits

Exceedances

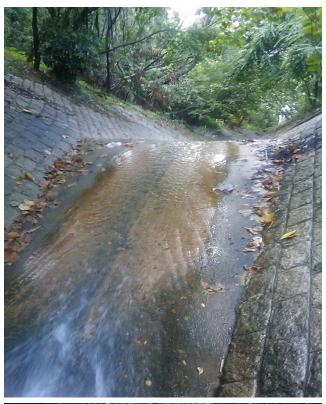
Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	04-Oct-08
Time	10:19 AM
Monitoring Location	Sik Sik Yuen Ho Fung College (I-1)
Parameter	Suspended Solid
Action & Limit Levels	8.85 / 10.17
Measured Level	77.9
Possible reason for Action or Limit Level Non-compliance	Muddy water was observed generated from CEDD's project (Yick Hing) at upper steam regarding to site investigation. Refer to attached photos for details
Actions taken / to be taken	No action is taken as the result of monitoring station was below the control station and no direct disturbance was observed contributed by the project construction activities (site tidiness).
Remarks	The baseline limit level exceedance is considered not to be project-related.

Remarks	The baseline limit level exceedance is considered not to be project related.
Prepared by:	Desmond Chan
Designation:	Senior Environmental Consultant
Signature:	Domond Chan

14-Oct-08

Photographic record for exceedance of Suspended Solid recorded at Sik Sik Yuen Ho Fung College (I-1) on 04-Oct-08





Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	06-Oct-08
Time	01:40 PM
Monitoring Location	Sik Sik Yuen Ho Fung College (I-1)
Parameter	Suspended Solid
Action & Limit Levels	8.85 / 10.17
Measured Level	5.8 (higher than 130% of control station's SS)
Possible reason for Action or Limit Level Non-compliance	A low SS level of 4.0 is recorded at Control Station (I-1-C)
Actions taken / to be taken	No action is taken as the monitoring result was well below both baseline action & limit levels and no direct disturbance was observed contributed by project construction activities (dismantle timber platform for additional borehole). There is no evidence to show the exceedance is project-related.
Remarks	The control limit level exceedance is considered not to be project-related.

	related.
Prepared by:	Desmond Chan
Designation:	Senior Environmental Consultant
Signature:	Camond Chan

15-Oct-08

Photographic record for exceedance of Suspended Solid recorded at Sik Sik Yuen Ho Fung College (I-1) on 06-Oct-08





Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	11-Oct-08
Time	14:00 - 16:00
Monitoring Location	Sik Sik Yuen Ho Fung College (ASR1)
Parameter	Total Suspended Particulate
Action & Limit Levels	306.6 / 500
Measured Level	369.9 (2nd measurement exceed Action Level) 520.9 (3rd measurement exceed Limit Level)
Possible reason for Action or Limit Level Non-compliance	River clearance by a small backhoe was undertaken during measurement. No major fugitive dust was generated from on-site activities. As such, the sources of the above mentioned exceedances may not be identified.
Actions taken / to be taken	There is no evidence that the exceedance was caused by the on-site activities. The Contractor was reminded to provide dust suppression measures for all dusty works to minimise the fugitive dust impact, if necessary.
Remarks	The effectiveness of dust mitigation measures will be monitored and rectified in subsequent monitoring on 17 October.

Designation:	Environmental Team Leader
Signature:	Degmond Chan

Desmond Chan

17-Oct-08

Prepared by:

Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	29-Oct-08
Time	10:42 AM
Monitoring Location	Hong Hoi Chee Hong Temple (I-2)
Parameter	Suspended Solid
Action & Limit Levels	7.68 / 8.34
Measured Level	6.5 (higher than 120% of control station's SS)
Possible reason for Action or Limit Level Non-compliance	A low SS level of 5.0 is recorded at Control Station (I-2-C)
Actions taken / to be taken	No action is taken as the monitoring result was well below both Baseline Action & Baseline Limit Levels and no direct disturbance was observed contributed by project construction activities (hole drilling for ground investigation). There is no evidence to show the exceedance is project-related.
Remarks	The control action level exceedance is considered not project-related.

Prepared by:	Desmond Chan
Designation:	Senior Environmental Consultant
Signature:	Demond Chan

06-Nov-08

Photographic record for exceedance of Suspended Solid recorded at Hong Hoi Chee Hong Temple (I-2) on 29-Oct-08





Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	31-Oct-08
Time	10:58 AM
Monitoring Location	Hong Hoi Chee Hong Temple (I-2)
Parameter	Suspended Solid
Action & Limit Levels	7.68 / 8.34
Measured Level	3.8 (higher than 130% 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-2-C)
Actions taken / to be taken	No action is taken as the monitoring result was well below both Baseline Action & Baseline Limit Levels and no direct disturbance was observed contributed by project construction activities (hole drilling for ground investigation, driving temporary casing for pre-bore H-pile, pre-bore H-pile and site tidiness). The Contractor is suggested to increase the frequency of cleaning the geo-textile and sandbags and to improve the efficiency of sedimentation tank. No exceedance was recorded for the subsequence measurement performed on 04/11/2008.
Remarks	The control limit level exceedance is considered not project-related.

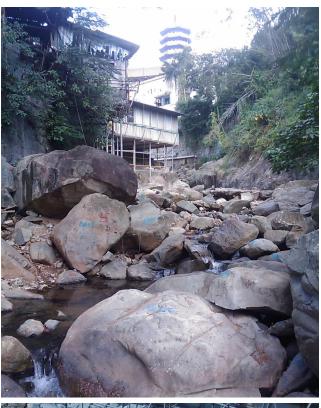
Senior Environmental Consultant
Comond Chan

10-Nov-08

Desmond Chan

Prepared by:

Photographic record for exceedance of Suspended Solid recorded at Hong Hoi Chee Hong Temple (I-2) on 31-Oct-08





Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	17-Nov-08
Time	9:40 AM
Monitoring Location	Sik Sik Yuen Ho Fung College (I-1)
Parameter	Suspended Solid
Action & Limit Levels	8.85 / 10.17
Measured Level	7.0 (higher than 130% of control station's SS)
Possible reason for Action or Limit Level Non-compliance	A low SS level of 4.0 is recorded at Control Station (I-1-C)
Actions taken / to be taken	No action is taken as the monitoring result was well below both Baseline Action & Baseline Limit Levels and no direct disturbance was observed contributed by project construction activities including site tidiness, drilling temporary pipe pile for spiral ramp construction. No exceedance was recorded for the subsequence measurement performed on 19/11/2008.
Remarks	The control limit level exceedance is considered not project-related.

Prepared by:	Desmond Chan
Designation:	Senior Environmental Consultant
Signature:	Domond Chan

25-Nov-08

Photographic record for exceedance of Suspended Solid recorded at Sik Sik Yuen Ho Fung College (I-1) on 17-Nov-08





Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	27-Nov-08
Time	1:30 PM
Monitoring Location	Greenview Terrace (ASR9)
Parameter	Total Suspended Particulate
Action & Limit Levels	329.2 / 500
Measured Level	376
Possible reason for Action or Limit Level Non-compliance	Fugitive dust generated from tree logging and site tidiness was observed during the measurement of 1st 1hr TSP monitoring.
Actions taken / to be taken	Contractor was requested to provide water spraying for dust suppression. Water spraying was immediately provided by Contractor. The consequent monitoring results (2nd, 169.5ug/m3 and 3rd, 135.1 ug/m3) were below Action and Limit Level. The recommended dust suppression measures were effective.
Remarks	Nil

Prepared by:	Desmond Chan
Designation:	Senior Environmental Consultant
Signature:	Dagmond Chan

4-Dec-08

Photographic record for exceedance of Total Suspended Particulate recorded at Greenview Terrace (ASR9) on 27-Nov-08





Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	5-Dec-08
Time	9:55 AM
Monitoring Location	Sik Sik Yuen Ho Fung College (I-1)
Parameter	Suspended Solid
Action & Limit Levels	8.85 / 10.17
Measured Level	6.9 (higher than 120% of control station's SS)
Possible reason for Action or Limit Level Non-compliance	A low SS level of 5.7 is recorded at Control Station (I-1-C) and natural variation
Actions taken / to be taken	The measured SS level was below baseline Action / Limit Level and was within the range of baseline SS concentration (1.0 - 10.5mg/L). With reference to photo records, pipe piling and levelling of concrete platform were undertaken during the measurement and no direct disturbance was observed. In addition, exposed earth was covered by imprevious sheeting. Thus, the exceedance is considered to be contributed by natural variation and no action should be required.
Remarks	

Designation:	Environmental Team Leader

Antony Wong

Date: 15-Dec-08

Prepared by:

Signature:

Photographic record for exceedance of Suspended Solid recorded at Sik Sik Yuen Ho Fung College (I-1) on 05-Dec-08





Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	8-Dec-08
Time	9:50 AM
Monitoring Location	Sik Sik Yuen Ho Fung College (I-1)
Parameter	Suspended Solid
Action & Limit Levels	8.85 / 10.17
Measured Level	4.8 (higher than 120% of control station's SS)
Possible reason for Action or Limit Level Non-compliance	A low SS level of 3.9 is recorded at Control Station (I-1-C) and natural variation
Actions taken / to be taken	The measured SS level was below baseline Action / Limit Level and was within the range of baseline SS concentration (1.0 - 10.5mg/L). With reference to site photo records, pipe piling and delivery of concrete block 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	concrete block 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:	tony

15-Dec-08

Photographic record for exceedance of Suspended Solid recorded at Sik Sik Yuen Ho Fung College (I-1) on 08-Dec-08





Date:

Interim Notifications of Environmental Quality Limits Exceedances

Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	19-Dec-08
Time	9:45 AM
Monitoring Location	Sik Sik Yuen Ho Fung College (I-1)
Parameter	Suspended Solid
Action & Limit Levels	8.85 / 10.17
Measured Level	11.1
Possible reason for Action or Limit Level Non-compliance	A high SS level of 11.0 was recorded at Control Station (I-1-C)
Actions taken / to be taken	The measured SS level is well below both 120% and 130% of the measured level at Control Station. No direct disturbance was observed contributed by project construction activities including site tidiness and drilling temporary pipe pile during the day of sampling. There is no evidence to show the exceedance is project-related. Thus, no action is required.
Remarks	

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Actions taken / to be taken	The measured SS level is well below both 120% and 130% of the measured level at Control Station. No direct disturbance was observed contributed by project construction activities including site tidiness and drilling temporary pipe pile during the day of sampling. There is no evidence to show the exceedance is project-related. Thus, no action is required.
Remarks	
Prepared by:	Antony Wong
Designation:	Environmental Team Leader
Signature:	tony

30-Dec-08

Photographic record for exceedance of Suspended Solid recorded at Sik Sik Yuen Ho Fung College (I-1) on 19-Dec-08





Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	29-Dec-08
Time	3:39 PM
Monitoring Location	Squatters (I-3)
Parameter	Suspended Solid
Action & Limit Levels	6.13 / 7.23
Measured Level	6.6
Possible reason for Action or Limit Level Non-compliance	A high SS level of 7.2 was recorded at Control Station (I-3-C)
Actions taken / to be taken	The measured SS level is well below both 120% and 130% of the measured level at Control Station. No direct disturbance was observed contributed by project construction activities including site tidiness during the day of sampling. There is no evidence to show the exceedance is project-related. Thus, no action is required.
Remarks	

Actions taken / to be taken	The measured SS level is well below both 120% and 130% of the measured level at Control Station. No direct disturbance was observed contributed by project construction activities including site tidiness during the day of sampling. There is no evidence to show the exceedance is project-related. Thus, no action is required.
Remarks	
Prepared by:	Antony Wong
Designation:	Environmental Team Leader
Signature:	tony

6-Jan-09

Photographic record for exceedance of Suspended Solid recorded at Squatters (I-3) on 29-Dec-

