Contract No. : DC/2007/06 River Improvement Works in Upper Lam Tsuen, She Shan River and Upper Tai Po River

ENVIRONMENTAL MONITORING AND AUDIT

MONTHLY EM&A REPORT of

UPPER TAI PO RIVER

for June 2009

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Executive summary

This is the tenth monthly Environmental Monitoring and Audit (EM&A) Report for the river improvement works in Upper Tai Po River under Drainage Services Department Contract No. DC/2007/06 entitled "River Improvement Works in Upper Lam Tsuen River, She Shan River and Tai Po River". This report concludes the impact monitoring for the activities undertaken during the period from 1st June 2009 to 30th June 2009. The major construction activity carried out by the contractor was backfilling works for the boulder traps.

The Environmental Team (ET) is responsible for the EM&A works required in the EM&A manual. Site inspections were carried out on weekly basis to investigate and audit the equipment and work methodologies with respect to pollution control and environmental mitigation. The weekly inspections records and photos taken were kept.

Ecological Impact Monitoring prepared by the Ecologist Dr. Mark Shea was not scheduled in this month hence no related information was included in this reporting month. The next ecological impact monitoring was scheduled to be conducted in 21^{st} and 22^{nd} July 2009. The summary of ecological site inspection findings and implementation status of environmental protection and mitigation for ecology, prepared by the Ecologist Dr. Mark Shea, are provided in table 6.2 and Appendix G respectively.

Environmental Team had carried out construction noise monitoring on weekly basis and no exceedance was found. Noise monitoring records for the reporting month and the data is presented in section 4. The location plan and the graphical plots presenting the data are provided in Appendix D.

Piling works were not scheduled for this month. Therefore, no vibration monitoring was conducted during the reporting month.

There was no non-compliance recorded for this reporting month.

There was no breach of action and limit levels for this month.

There was no reporting change for this month.

In accordance with the contractual requirements, no excavation works in river is allowed to be carried out during the present wet season. Site works proposed to be carried out in the upcoming will be mainly installation works of noise barriers and/or hoardings. With reference to the environmental permit and EM&A manual, mitigation measures should be implemented if necessary.

ET has reminded the contractor to provide environmental pollution control measures wherever necessary and to keep a good environmental management at site practice.

1.0 Introduction

This is the tenth monthly Environmental Monitoring and Audit (EM&A) Report for the river improvement works in Upper Tai Po River under Drainage Services Department Contract No. DC/2007/06 entitled "River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River". The site layout plan is shown in Figure 2.1. The Environmental Team, Environmental Pioneers & Solutions Limited appointed by Chiu Hing Construction and Transportation Company Limited, prepares the report. The report is to be submitted to the Contractor, the Engineer and the IEC.

This report presents the results of the environmental monitoring of the project activities for Upper Tai Po River conducted during the month of June 2009. This included regular site inspections once per week for verification of implementation of the mitigation measures as recommended in the Environmental Permit (EP-223/2005/A) (EP), EM&A Manual and the Contractor's Environmental Management Plan (EMP).

2.0 Environmental status

2.1 Project area

The location of the project site – Upper Tai Po River starting from Ta Tit Yan of Yai Mo Shan, the Upper Tai Po River flows from southeast to northeast alongside Wilson Trail, turning northward before joining the Lam Tsuen River and then runs towards Tai Po Market. To the east of the river, there are active and abandoned cultivated lands. While the village settlements are mainly located on the west and northeast side of the river bank, where the San Uk Ka and Lai Chi Shan establishment also lie. The Project site is indicated in **Figure 2.1**.

2.2 Construction programme

Approximately 0.6km of Upper Tai Po River will be improved to enhance the hydraulic performance of the river. The improvement works comprise the following:

- (1) Re-profiling and realignment of the Channel;
- (2) Inclusion of gabions and retaining wall for bank protection whilst providing a natural channel bed; and
- (3) Re-provisioning of footbridges and footpaths along the channel

The construction of the proposed improvement works for Upper Tai Po River has been commenced on September 15th 2008 and anticipated to complete in April 2011.

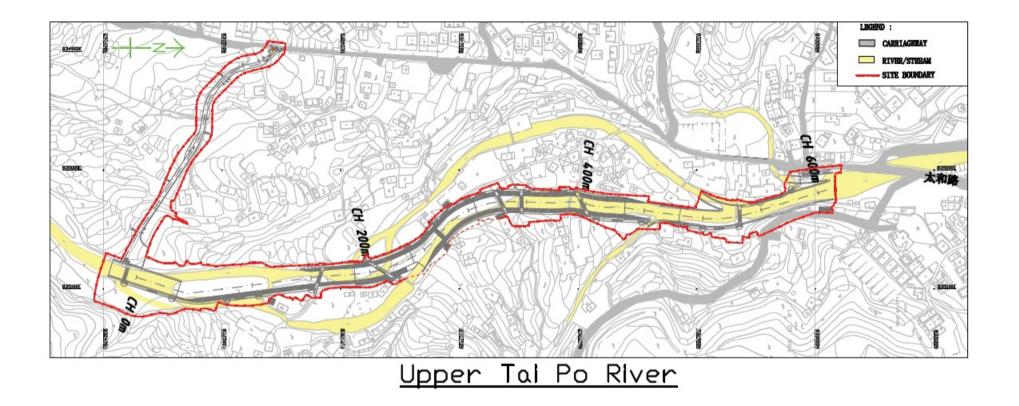
2.3 Proposed construction sequences

The proposed construction sequence is shown in the following sequences:

- (1) Site clearance and preparation works
- (2) Construction of the maintenance access which involves the construction of retaining walls
- River channel construction and excavation, involving the excavation works, construction of retaining walls and gabion walls
- (4) Re-provisioning of footbridges
- (5) Construction of footpaths
- (6) Landscaping works

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Fig 2.1 Layout of construction area



2.4 Construction activities for the reporting period

River-based construction activities were ceased in the reporting period since no excavation works in river is allowed due to contractual requirements. The major construction activity carried out in this reporting period was backfilling works for boulder trap.

2.5 Construction activities for the next reporting period

Due to the contractual requirements, no excavation works in river is allowed during wet season and hence no major construction activities will be carried out. Major Construction activities carried out by the contractor anticipated for the coming month include:

- (1) Construction of Access Road D;
- (2) Backfilling works for gabion walls and retaining walls;
- (3) Installation of noise barriers and/or hoardings; and
- (4) River reinstatement.

2.6 Non-compliance with the environmental performance limits

There was no non-compliance with the environmental performance limits for this reporting month. The event and action plan for Ecology is shown in Appendix A. The action and limit level for Noise is shown in Appendix B. The reference standards for vibration are shown in Appendix C.

2.7 Summary of complaints

There was no complaint received for this monitoring month. Totally, four complaints had been received since the commencement of the contract. The cumulative complaint log is shown in Appendix F.

3.0 Ecological monitoring results

Capture survey and ecological impact monitoring conducted by Dr. Mark Shea was not scheduled for this month. The next ecological impact monitoring is scheduled in 21st and 22nd July 2009 and the next capture survey is scheduled in November 2009.

4.0 Noise monitoring results

In accordance with the EM&A Manual, monitoring locations were established at 11 N.S.R. locations. The description of all 11 N.S.R. are shown in Table 4.1.

Sensitive Receiver	Location and Description
No.	
UTP1	54B, Sheung Wun Yiu
UTP2	Village House in Lai Chi Shan
UTP3	Village House near Upper Tai Po River
UTP4	Village House near Upper Tai Po River
UTP5	Village House near Upper Tai Po River
UTP6	Village House near Upper Tai Po River
UTP7	Village House near Upper Tai Po River
UTP8	Village House near Upper Tai Po River
UTP9	49A, Pun Shan Chau
UTP10	Village House near the proposed access road
UTP11	49G, San Uk Ka

TABLE 4.1 Description of Noise Sensitive Receivers

Noise monitoring was carried out by the Environmental Team on weekly basis for this reporting month on 2^{nd} , 9^{th} , 16^{th} , 23^{rd} and 30^{th} June 2009 and the $L_{eq (30min)}$ results ranged from 44.3dB(A) to 71.0dB(A), and therefore, no exceedance of action or limit level was recorded in this reporting month. For further details of the monitoring results, graphical plots and the location plan, please refer to Appendix D.

5.0 Vibration monitoring results

There was no vibration monitoring results for this reporting month. Vibration monitoring will be started once the piling works starts in Upper Tai Po River.

6.0 Environmental issues and actions

6.1 Site inspections and key environmental issues

As mentioned in Section 8.1 of the EM&A manual, site inspections were undertaken routinely to inspect the construction activities in Upper Tai Po River to ensure that appropriate environmental protection and pollution control mitigation measures are properly implemented. Implementation status of environmental protection and mitigation measures is shown in Appendix G.

Within this reporting month, site inspections were conducted on 3rd, 10th, 17th, 24th and 30th June 2009. A detailed checklist of each site inspection together with comments and relevant photos have been filed and kept. The findings from inspection were summarized in Table 6.1, the ecological inspection prepared by the Ecologist, Dr. Mark Shea were summarized in Table 6.2.

Table 6.1 Summary	results of s	ite inspections	findings	

Date	Findings	Identification	Advice from ET	Action taken	Closing date	Remarks
13 May 09	Open stockpiles of earth	Observation	Contractor was advised to	Piles of earth materials were	17 June 09	
	material were observed		control size of stockpile and	used for backfilling		
	along the site area		provide proper tarpaulin			
			coverings to prevent erosion			
13 May 09	At UTPR ch.10	Observation	Although immediate follow up	No further gushing of	03 June 09	
	Underground water was		actions were carried out to	underground water was		
	found gushed from the		divert the water to the gabion	observed and underground		
	backfilled pit for boulder trap		wall for further treatment,	water generated at the location		
	formation and entered the		contractor was reminded to	was diverted to the gabion wall		
	river stream from the haul		provide sufficient protective	at lower stream area		
	access.		measures before carrying out			
			any works nearby the channel.			
27 May 09	General wastes were found	Observation	Contractor was advised to	Regular site cleaning was	03 June 09	
	dumped at the haul access		remove the wastes as soon as	implemented to maintain good		
	road D during inspection		possible; regular site checking	site condition as reported by		
			and cleaning should be	contractor		
			provided to maintain the site			
			cleanliness			
03 June 09	No major findings for this	N/A	N/A	N/A	N/A	
	inspection					
10 June 09	No major findings for this	N/A	N/A	N/A	N/A	
	inspection					
17 June 09	Housekeeping issues of	Observation	Contractor was advised to	Contractor took the advice and	24 June 09	
	loosing meshes and idling		transfer the idling materials to	the item was followed prior to		
	hoses were observed at		proper storage area, as to	the inspection on 24 June		
	ch.50 and 210		prevent water quality impact and			
			clogging to the river channel			
17 June 09	Stagnant water was	Observation	Contractor was reminded to	Mosquito control measures as	Ongoing	
	accumulated in the holes of		remove stagnant water from site	a part of daily cleaning has		
	the mass concrete blocks at		after rainfall, as to prevent	been implemented as reported		
	ch.210		mosquito breeding	by contractor		

Date	Findings	Identification	Advice from ET	Action taken	Closing date	Remarks
17 June 09	Bare soil surface of the	Observation	Contractor was advised to	Barriers formed by wooden	24 June 09	
	excavated boulder trap	avated boulder trap backfill the e		boards and sand bags were		
	structure was eroded and	eroded and soon as possible. Bunds and/or provided prior to the inspection				
	It was observed to be barriers should be formed to on 24 June					
	entered the boulder trap		prevent silt water further			
	section and river channel		entering the river channel			
24 June 09	No major findings for this	N/A	N/A	N/A	N/A	
	inspection					
30 June 09	No major findings for this	N/A	N/A	N/A	N/A	
	inspection					

The summary of ecological inspection prepared by the Ecologist, Dr. Mark Shea is shown in Table 6.2.

Table 6.2 S	Table 6.2 Summary results of ecological site inspection findings								
Date	Observations	Advice from	Action Taken	Closing					
		Ecologist		Date					
03 June	No Major findings for this	No Advice is	No Action is required to	N/A					
2009	inspection	required be taken							
10 June	No Major findings for this	No Advice is	No Action is required to	N/A					
2009	inspection	required	be taken						
17 June	No Major findings for this	No Advice is	No Action is required to	N/A					
2009	inspection	required	be taken						
24 June	No Major findings for this	No Advice is	No Action is required to	N/A					
2009	inspection	required	be taken						

6.2 Non-compliance

There was no non-compliance recorded for the month of June 2009.

6.3 Recommendations

Although no major construction activities were being carried out during the reporting month, contractor was reminded for the housekeeping practices as well as status of bunds.

Contractor was advised to provide regular site checking and cleaning to maintain good site condition. Waste generation and accumulation on site should be minimized as major construction was ceased. Contractor should consider enhancing stagnant water removal after rainfall as to prevent mosquito breeding.

Bared soil surface by excavation and open stockpile of earth materials should be prevented on site as far as practicable, else those should be covered by tarpaulin to prevent soil erosion and run-off during rainstorm.

6.4 Implementation status and effectiveness of the mitigation measures

Contractor took most of the advices given by ER, IEC as well as ET and followed up the comments given.

As there were some ongoing follow up practices, contractor was reminded to regularly review and rectify the discrepancy once found.

7.0 Waste management status

It is the contractor's responsibility to ensure that all wastes produced during construction phase for the drainage improvement works are handled, stored and disposed of in accordance with good waste management practices and EPD's regulation and requirement. Waste materials generated during construction activities such as construction and demolition(C&D) material, chemical wastes and general refuse, are recommended to be audited at regular intervals to ensure that proper storage, transportation and general reuse are recommended to be audited to ensure that proper storage, transportation and disposal practices are being implemented. **Table 7.1** is the Waste Disposal recorded by the Contractor in this month.

Type of waste	Inert Waste	Non-Inert Waste	Chemical Waste
June 2009	0	0	0

Table 7.1 Summary of Waste Disposal for the reporting month.

The cumulative waste flow table is shown in Appendix H.

8.0 Status of environmental licensing and permit

This project requires different permits and licenses to be run legally. **Table 8.1** is the summary of permits/ licenses for this project.

Description	License / Permit No.#	Date of Issue	Date of Expiry	Remarks
Environmental	EP-223/2005	31 st Aug, 2005	N/A	Issued
Permit				
Amended	EP-223/2005/A	18 th Nov, 2008	N/A	Issued
Environmental				
Permit				
Construction	N/A	N/A	N/A	N/A
Noise Permit				
Effluent	3678	14 th Mar, 2008	31 st Mar, 2013	Issued
Discharge				
License				
Registration as a	5213-724-C3251-03	19 th Dec, 2007	Not applicable	Issued
Chemical Waste				
Producer				
Billing Account	7006101	N/A	N/A	N/A
for Disposal of				
Construction				
Waste				

 Table 8.1 Summary of Environmental Licensing and Permit Status

9.0 Future key issues

As informed by contractor, construction of haul access, backfilling works, river reinstatement as well as installation of noise barriers and/or hoardings is the major activities in the upcoming reporting period. In accordance with the requirements in the Environmental Permit as well as the EM&A manual, contractor was reminded to implement proper mitigation measures if found necessary.

For construction of haul access and/or backfilling works, stockpiling of earth material would be found on site and those should be well covered by tarpaulin to prevent erosion.

Construction materials may be used for installation of noise barriers and/or hoardings, such materials should be well stored in designated area to maintain good housekeeping. Stagnant water may be accumulated in those materials hence regular removal would be required.

Construction activities may generate noise impacts to the vicinity of sensitive receivers. Contractor was recommended to well arrange their working schedule as to minimize noise nuisance.

10.0 Conclusion

The major construction activities carried out by the contractor during this reporting period were backfilling works for the boulder trap.

Regular site meetings and inspection audits led by the seniors for discussing environmental issues were held among project proponent, Contractor and the ET on weekly basis.

Environmental Team had carried out construction noise monitoring on weekly basis. All results obtained were within limit and therefore no exceedance was recorded in this reporting month.

Piling works were not scheduled for this month. Therefore, no vibration monitoring was conducted during the reporting month.

From the summary of ecological site inspection findings and implementation status of environmental protection and mitigation for ecology, prepared by the Ecologist Dr. Mark Shea, there is no abnormal finding observed in the reporting month. The ecologist has no further advice and no action suggested to the contractor.

There was no non-compliance recorded for the reporting month.

There was no complaint received for the reporting month.

ET has reminded the contractor to provide environmental pollution control measures wherever necessary; and to keep a good environmental management at site practice.

The ET will continue to implement the environmental monitoring & audit programme in accordance with the EM&A Manual and Environmental Permit requirement.

Appendix A: Event and action plan for ecology

Event and action plan for ecology

In the event of non-compliance, the Event / Action plan prepared by the ecologist shall be followed. Detailed Event/ Action plan was shown in **Appendix Table 1** for reference.

It is not proposed to set population size of the three species (i.e. Three-lined Chinese Stream Catfish, Predaceous and the Hong Kong Newt) or other faunal species for the Action Level and Limit Level in the revised EM&A manual in considering the following reasons:

I. The schedule capture surveys would let to decrease in the populations of the target species; and

II. The planned drainage works would also temporally de-fauna the stream habitat.

It is considered logical and appropriate to audit non-compliance events in relation with ecological mitigation measures, which were specified in the EP and the PS of the project.

Event				Action				
Event		ET		ER		IEC Contracto		
Non-confor	1.	Identify Source	1.	Check report	1.	Ensure	1.	Amend
mity on one	2.	Inform the IEC and the	2.	Check the Contractor's		Remedial		working
occasion		ER		working method		measures are		methods
	3.	Discuss remedial actions	3.	Discuss with the ET and		properly	2.	Rectify
		with the IEC, the ER and		the Contractor on possible		implemented		damage and
		the Contractor		remedial measures,				undertake
	4.	Monitor remedial actions	4.	Advise the Contractor on				any
		until rectification has been		effectiveness of proposed				necessary
		completed		remedial measures				replacement
			5.	Check implementation of				
				remedial measures				
Repeated	1.	Identify Source	1.	Check monitoring report	1.	Ensure	1.	Amend
Non	2.	Inform the IEC and the	2.	Check the Contractor's		Remedial		working
conformity		ER		working method		measures		methods
	3.	Increase monitoring	3.	Discuss with the ET and		are properly	2.	Rectify
		frequency		the Contractor on possible		implemented		damage and
	4.	Discuss remedial		remedial measures				undertake
		actions with the IEC,	4.	Advise the Contractor on				any
		the ER and the		effectiveness of proposed				necessary
		Contractor		remedial measures				replacement
	5.	Monitor remedial	5.	Check implementation of				
		actions until rectification		remedial measures				
		has been completed						
	6.	If exceedance stops,						
		cease additional						
		monitoring						

APPENDIX TABLE 1 Event / Action plan table for Ecology

Appendix B: Action and limit level for construction noise

The Action and Limit levels for construction noise are defined in **Appendix Table 2**

Appendix Table 2: Action and Limit Levels for Construction Noise

Time Period	Action	Limit
0700 – 1900 hrs on normal weekdays	When one	75 dB(A)*
0700 – 2300hrs on holidays; and 1900 – 2300 hrs on all	documented	Subject to the control of
other days	complaint is	Noise Control
	received	Ordinance
2300 – 0700 hrs of next day		Subject to the control of
		Noise Control
		Ordinance

*Limit level set in accordance with Particular Specification Section 26

Appendix C: Reference standards for vibration

Guidance regarding vibration limits is provided by the following British Standards (or their equivalent ISO standards):

BS 7385 - Measurement and evaluation of vibration in buildings. Part 2: Guide to damage levels from ground borne vibration.

BS 7385 suggests vibration levels, below which damage is unlikely to occur in 95% of buildings. For cosmetic damage, the level is 15 mm/s at 4 Hz, increasing to 20 mm/s at 15 Hz, increasing to 50 mm/s at 40 Hz and above. Minor structural damage is possible at vibration levels twice those given above, major damage at four times the levels given.

Appendix Table 3: Transient vibration guide values for cosmetic building damage (BS7385:Part 2 1993)

	Type of Building	Peak component particle velocity (mm/s) in
		frequency range of predominant pulse
1	Reinforced or framed structures	50 at 4 Hz and above
2	Un-reinforced or light framed structures	15 at 4 Hz, increasing to 20 at 15 Hz, increasing to 50 at 40 Hz and above.

The vibration magnitudes and frequencies refer to Peak Particle Velocities (PPV) occurring in any single direction, measured on the ground level of the building concerned.

Appendix D: Noise monitoring results, graphical plots and location plan

Location	L ₉₀	L ₁₀	Leq	Date	Time	Major Construction Noise	Other Noise source	Weather	Location
	30min	30min	30min		Duration				description
UTP 1	54.6	63.7	61.3	2-Jun-09	09:55-10:25	The measured noise level was dominated by the background noise in the immediate	Background noise from traffic, avians and public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 2	54.8	61.5	59.8	2-Jun-09	09:20-09:50	The measured noise level was dominated by the background noise in the immediate	Background noise from traffic, avians and public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 3	47.4	57.6	55.8	2-Jun-09	13:03-13:33	The measured noise level was dominated by the background noise in the immediate	Background noise from avians and public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 4	52.3	62.9	61.1	2-Jun-09	10:35-11:05	The measured noise level was dominated by the background noise in the immediate	Background noise from traffic, avians and public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 5	46.5	56.2	53.7	2-Jun-09	11:10-11:40	The measured noise level was dominated by the background noise in the immediate	Background noise from avians and public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 6	49.5	62.3	58.7	2-Jun-09	13:35-14:05	The measured noise level was dominated by the background noise in the immediate	Background noise from avians and public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 7	57.4	69.2	66.2	2-Jun-09	14:07-14:37	The measured noise level was dominated by the background noise in the immediate	Background noise from avians, dog and public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 8	57.2	60.8	59.6	2-Jun-09	14:40-15:10	1. Noise due to land-based excavation	Background noise from avians and public	Sunny	Façade
	52.0	50.1	5(0	21 00	15 55 16 25			0	F 1
UTP 9	53.2	59.1	56.9	2-Jun-09	15:55-16:25	1. Noise due to land-based excavation	Background noise from avians	Sunny	Façade
UTP 10	42.6	54.7	51.8	2-Jun-09	16:35-17:05	1. Noise due to land-based excavation	Background noise from avians	Sunny	Façade
UTP 11	44.4	52.9	51.3	2-Jun-09	15:20-15:50	1. Noise due to land-based excavation	Background noise from avians and public	Sunny	*Free field

Location	L ₉₀	L ₁₀	Leq	Date	Time	Major Construction Noise	Other Noise source	Weather	Location
	30min	30min	30min		Duration				description
UTP 1	56.0	66.8	65.9	9-Jun-09	11:25-11:35	The measured noise level was dominated by the background noise in the immediate	Background noise from traffic and public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 2	54.1	64.0	62.3	9-Jun-09	13:00-13:30	The measured noise level was dominated by the background noise in the immediate	Background noise from traffic	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 3	48.7	54.2	53.2	9-Jun-09	14:42-15:12	The measured noise level was dominated by the background noise in the immediate	Background noise from public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 4	60.2	68.0	66.7	9-Jun-09	13:40-14:10	The measured noise level was dominated by the background noise in the immediate	Background noise from public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 5	53.4	60.9	58.9	9-Jun-09	14:12-14:42	The measured noise level was dominated by the background noise in the immediate	Background noise from public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 6	47.1	56.5	55.0	9-Jun-09	15:15-15:45	The measured noise level was dominated by the background noise in the immediate	Background noise from public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 7	50.9	54.3	53.1	9-Jun-09	15:46-16:16	The measured noise level was dominated by the background noise in the immediate	Background noise from avians and public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 8	56.4	59.3	58.1	9-Jun-09	16:17-16:47	1. Noise due to land-based excavation	Background noise from public	Sunny	Façade
UTP 9	48.6	54.3	52.5	9-Jun-09	10:40-11:10	1. Noise due to land-based excavation	Background noise from public	Sunny	Façade
UTP 10	49.2	60.2	56.6	9-Jun-09	10:00-10:30	1. Noise due to land-based excavation	Background noise from avians	Sunny	Façade
UTP 11	53.2	72.0	71.0	9-Jun-09	09:25-09:55	1. Noise due to land-based excavation	Background noise from public, dogs. Hammer	Sunny	*Free field
							noise from building innovation		

Location	L ₉₀	L ₁₀	Leq	Date	Time	Major Construction Noise	Other Noise source	Weather	Location
	30min	30min	30min		Duration				description
UTP 1	62.7	71.9	70.1	16-Jun-09	11:25-11:55	The measured noise level was dominated by the background noise in the immediate	Background noise from traffic and public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 2	59.3	64.2	63.9	16-Jun-09	13:00-13:30	The measured noise level was dominated by the background noise in the immediate	Background noise from traffic and public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 3	47.4	54.2	52.5	16-Jun-09	15:10-15:40	The measured noise level was dominated by the background noise in the immediate	Background noise from public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 4	66.7	72.2	69.9	16-Jun-09	10:45-11:15	The measured noise level was dominated by the background noise in the immediate	Background noise from traffic and public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 5	56.5	58.7	58.0	16-Jun-09	13:40-14:10	The measured noise level was dominated by the background noise in the immediate	Background noise from public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 6	48.7	63.0	60.2	16-Jun-09	15:40-16:10	The measured noise level was dominated by the background noise in the immediate	Background noise from dog and public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 7	55.4	61.0	59.3	16-Jun-09	16:11-16:41	The measured noise level was dominated by the background noise in the immediate	Background noise from public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 8	52.4	55.1	54.3	16-Jun-09	16:42-17:12	No construction was being carried out during measurement	Background noise from public	Sunny	Façade
UTP 9	53.1	57.4	56.0	16-Jun-09	14:25-14:55	No construction was being carried out during measurement	Background noise from dog	Sunny	Façade
UTP 10	50.0	57.3	56.7	16-Jun-09	10:01-10:31	No construction was being carried out during measurement	Background noise from avians	Sunny	Façade
UTP 11	50.5	64.4	63.5	16-Jun-09	09:30-10:00	No construction was being carried out during measurement	Background noise from dog and public	Sunny	*Free field

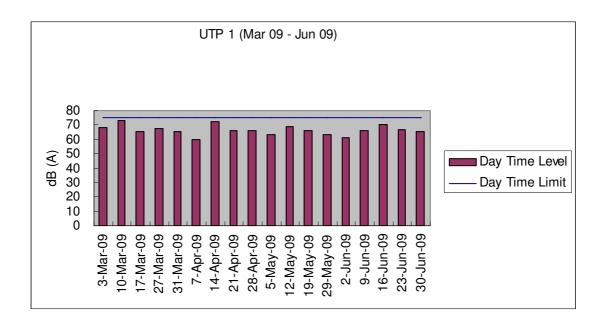
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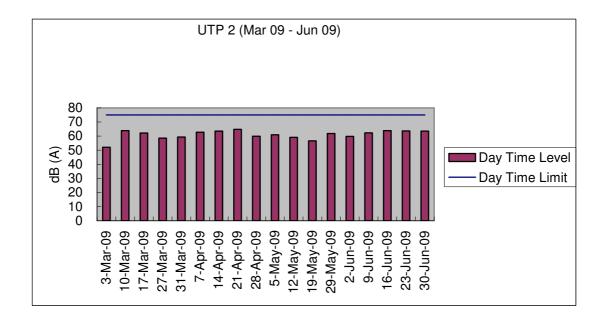
Location	L ₉₀	L_{10}	Leq	Date	Time	Major Construction Noise	Other Noise source	Weather	Location
	30min	30min	30min		Duration				description
UTP 1	55.0	69.8	67.0	23-Jun-09	10:56-11:26	The measured noise level was dominated by the background noise in the immediate	Background noise from traffic and public	Cloudy	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 2	52.8	66.2	63.7	23-Jun-09	11:30-12:00	The measured noise level was dominated by the background noise in the immediate	Background noise from traffic	Cloudy	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 3	46.3	64.3	59.1	23-Jun-09	13:00-13:30	The measured noise level was dominated by the background noise in the immediate	/	Cloudy	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 4	54.6	59.0	57.8	23-Jun-09	16:23-16:53	The measured noise level was dominated by the background noise in the immediate	Background noise from traffic and public	Cloudy	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 5	50.1	55.6	54.5	23-Jun-09	15:52-16:22	The measured noise level was dominated by the background noise in the immediate	Background noise from public	Cloudy	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 6	48.8	55.3	54.0	23-Jun-09	13:32-14:02	The measured noise level was dominated by the background noise in the immediate	Background noise from public	Cloudy	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 7	56.8	60.1	59.2	23-Jun-09	14:04-14:34	The measured noise level was dominated by the background noise in the immediate	Background noise from public and avians	Cloudy	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 8	49.9	58.6	57.2	23-Jun-09	14:35-15:05	No construction was being carried out during measurement	Background noise from public	Cloudy	Façade
UTP 9	47.4	52.2	50.0	23-Jun-09	15:10-15:40	No construction was being carried out during measurement	Background noise from avians	Cloudy	Façade
UTP 10	41.1	45.8	44.3	23-Jun-09	10:16-10:46	No construction was being carried out during measurement	Background noise from avians	Cloudy	Façade
UTP 11	49.4	56.2	55.2	23-Jun-09	09:45-10:15	No construction was being carried out during measurement	Background noise from public and dogs	Cloudy	*Free fie

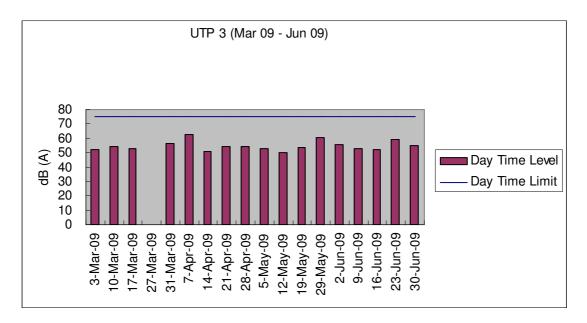
Location	L ₉₀	L ₁₀	Leq	Date	Time	Major Construction Noise	Other Noise source	Weather	Location
	30min	30min	30min		Duration				description
UTP 1	57.2	66.8	65.6	30-Jun-09	10:56-11:26	The measured noise level was dominated by the background noise in the immediate	Background noise from traffic and public	Cloudy	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 2	55.0	63.8	63.5	30-Jun-09	11:30-12:00	The measured noise level was dominated by the background noise in the immediate	Background noise from traffic	Cloudy	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 3	46.3	56.8	55.1	30-Jun-09	16:09-16:39	The measured noise level was dominated by the background noise in the immediate	Background noise from public	Cloudy	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 4	55.7	60.4	59.0	30-Jun-09	15:07-15:37	The measured noise level was dominated by the background noise in the immediate	Background noise from public	Cloudy	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 5	51.8	56.0	54.9	30-Jun-09	15:38-16:08	The measured noise level was dominated by the background noise in the immediate	Background noise from public	Cloudy	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 6	46.3	59.3	55.5	30-Jun-09	14:35-15:05	The measured noise level was dominated by the background noise in the immediate	Background noise from public	Cloudy	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 7	47.9	57.8	56.0	30-Jun-09	14:04-14:34	The measured noise level was dominated by the background noise in the immediate	Background noise from public	Cloudy	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 8	51.1	55.2	54.5	30-Jun-09	13:33-14:03	No construction was being carried out during measurement	Background noise from public	Cloudy	Façade
UTP 9	48.6	52.3	51.9	30-Jun-09	13:00-13:30	No construction was being carried out during measurement	Background noise from avians	Cloudy	Façade
UTP 10	43.0	49.5	48.4	30-Jun-09	10:16-10:46	No construction was being carried out during measurement	Background noise from public and dogs	Cloudy	Façade
UTP 11	46.0	53.6	52.0	30-Jun-09	09:45-10:15	No construction was being carried out during measurement	Background noise from public and dogs	Cloudy	*Free field

Graphical plot for noise measurements

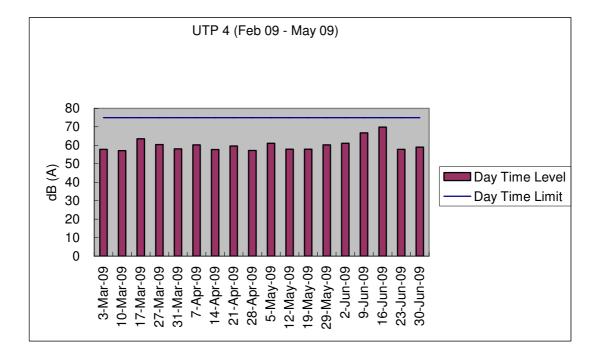
The following plots were the graphical plots for the 11 monitoring locations. Each plot showed the day time limit 75 dB(A), daytime level, date and the measured dB(A) results as in Leq 30min for each location. The graph contains the data recorded from February 2009 to May 2009.

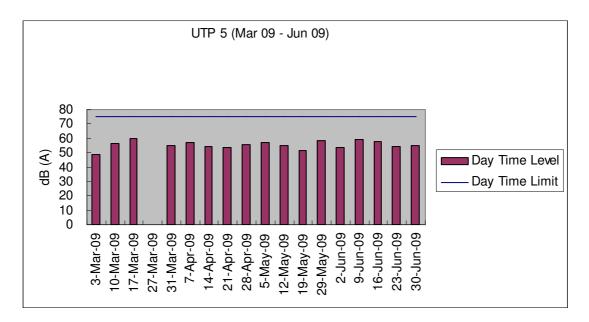




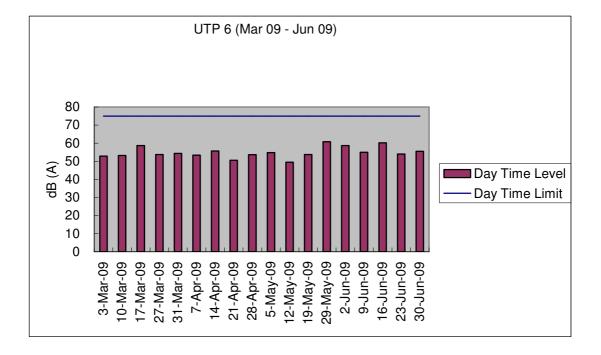


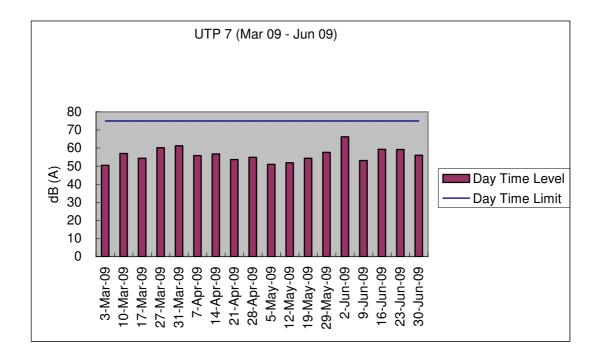
*Noise Monitoring for UTP3 on 27th March 2009 was cancelled due to heavy rain

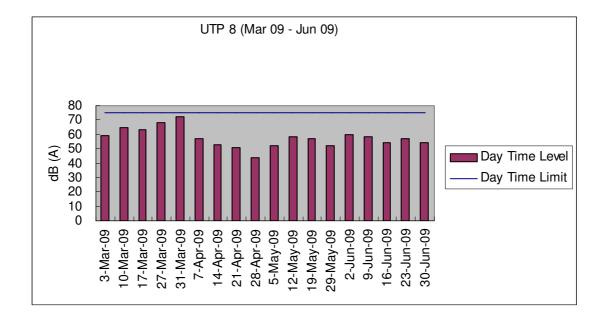


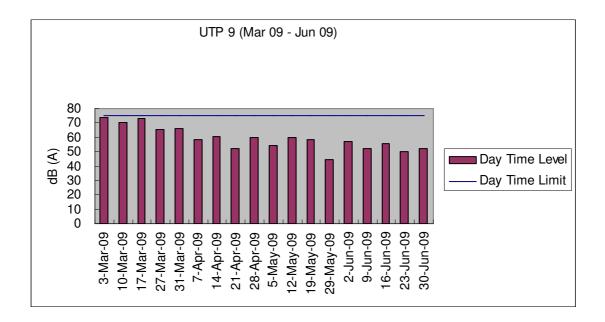


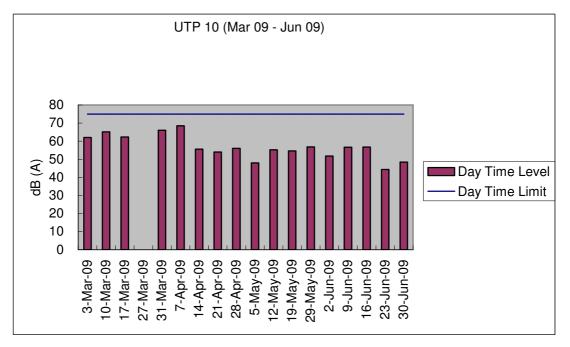
*Noise monitoring for UTP5 on 27th March 2009 was cancelled due to heavy rain



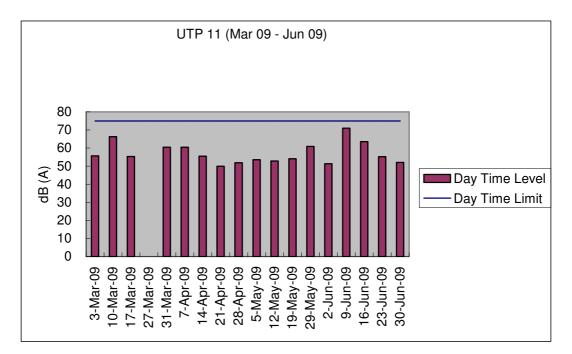






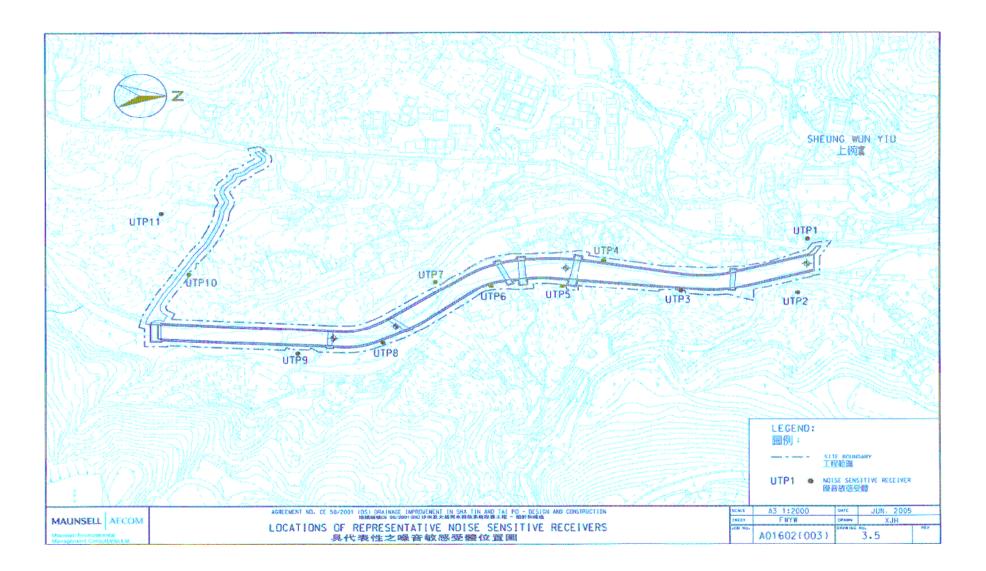


*Noise monitoring for UTP10 on 27th March was cancelled due to heavy rain



*Noise monitoring for UTP11 on 27th March was cancelled due to heavy rain

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Appendix E: Monitoring schedule for the present and next reporting period

Master Schedule of EM&A works in June 2009

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	6/1	6/2	6/3	6/4	6/5	6/6
		Noise monitoring	Site inspection at afternoon			
6/7	6/8	6/9	6/10	6/11	6/12	6/13
		Noise monitoring	Site inspection at afternoon			
6/14	6/15	6/16	6/17	6/18	6/19	6/20
		Noise monitoring	Site inspection at afternoon			
6/21	6/22	6/23	6/24	6/25	6/26	6/27
		Noise monitoring	Site inspection and SSEMC at morning			
6/28	6/29	6/30				
		Noise monitoring, and Site inspection at afternoon				

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			7/1	7/2	7/3	7/4
7/5	7/6	7/7	7/8	7/9	7/10	7/11
		Noise monitoring	Site inspection at afternoon			
7/12	7/13	7/14	7/15	7/16	7/17	7/18
		Noise monitoring	Site inspection at afternoon			
7/19	7/20	7/21	7/22	7/23	7/24	7/25
		Noise monitoring			Site inspection and SSEMC at morning	
7/26	7/27	7/28	7/29	7/30	7/31	
		Noise monitoring	Site inspection at afternoon			

Master Schedule of EM&A works in July 2009

Appendix F: Cumulative complaint log

Environmental	Cumulative no.	No. of complaint	Overall Total
Parameters	Brought forward	June 2009	
Air/Dust	1	0	1
Noise	1	0	1
Water	2	0	2
House Keeping	0	0	0
Hygiene			
Chemical waste	0	0	0
Total	4	0	4

Appendix G: Implementation status of environmental protection and mitigation measures

Environmental	Protection / Mitigation Measures	Implementation	Follow-up
Aspect		status	action
Construction Noise	No percussive piling shall be carried out	Not applicable	Not required
	-Use well maintained construction plant	Implemented	Not required
	-Shut down plants between work periods	Implemented	Not required
	-Install silencers on construction equipment	Implemented	Not required
	-Locate mobile plant far away from NSRs	Implemented	Not required
	-Quiet plants should be used	Implemented	Not required
	-2m high temporary noise barriers, as stipulated in EP condition 2.9, shall be installed	Implemented	Not required
Fugitive Dust Emission	-Implement regular watering and vehicle washing facilities	Implemented	Not required
	-Cover excavated or stockpile of dusty material by impervious sheeting or sprayed with water	Implemented	Not required
	-Use tarpaulin to cover dusty materials on vehicles	Implemented	Not required
Water Quality	Excavation works within the Tai Po River within the Project shall be	Not applicable at this	Not required
	carried out in stages and excavation area for each stage shall be limited	stage	
	to section of half width of the channel and less than 100m long at any		
	one time in order to maintain water flow within the river during		
	construction stage		
	Land-based plant shall be employed and site run-off shall be directed	Not applicable at this	Not required
	towards regularly cleaned and maintained silt traps and oil / grease	stage	
	separators to minimize leakage and loss of sediments during excavation		
	Large boulders removed from the Tai Po River within the Project during	Not applicable at this	Not required
	excavation shall be re-instated upon completion of works A section of	stage	
	150m long natural riverbank on the western side of the river channel		
	(Ch0 –Ch150) shall be retained		
	The excavation area shall be enclosed with bunds or barriers and	Not applicable at this	Not required
	dewatered prior to excavation to minimize the impacts upon the	stage	
	downstream of the Tai Po River		
	Provide silt trap and oil interceptor to remove the oil, lubricants, grease,	Not applicable at this	Not required
	silt, grit and debris from the wastewater before pumped to the public	stage	
	storm water drainage system		
	Provide site toilet facilities	Implemented	Not required

Implementation status of environmental protection and mitigation

I			
Waste	Reuse excavated material as far as possible	Implemented	Not required
Management			
	Recycle scrap metals or abandoned equipment	Implemented	Not required
	Adopt a trip ticket system for the disposal of C&D materials	Implemented	Not required
	All general refuse should be segregated and stored in enclosed bins or	Implemented	Not required
	compaction units		
Vibration	Percussive piling is to be replaced by bore-hole piling to minimize	Not applicable at this	Not required
	vibration impacts to the two identified Declared monuments	stage	
	Carrying out of vibration monitoring to ensure that vibration associated	Not applicable at this	Not required
	with the construction phase do not exceed the threshold limit otherwise	stage	
	contractor have to review the work method and construction activities		
	have to be slow down or rescheduled to reduce the impacts		
	Close monitoring and measurement on the cracks of the external wall of	Not Applicable at this	Not required
	Fan Sin Temple during construction works will be carried out. Any	stage	
	changes on the cracks will be recorded for the contractor to slow down		
	the construction activities accordingly; and to review the work methods		
	and equipments immediately		

Implementation status of environmental protection and mitigation for ecology, prepared by the Ecologist, Dr. Mark Shea.

Environmental	Protection / Mitigation Measures	Implementation status	Follow-up
Aspect			action
Ecology	Large boulders will be returned to the riverbed following	Not applicable	Not
	the excavation works.		required
	Construction works from Ch. 0.0m - Ch. 150m would be	Not applicable	Not
	along one side of the river only		required
	Approximately 150m of the existing natural riverbank on	Implemented	Not
	the western side of the river would be retained.		required
	Excavation works within the river channel should be	Implemented	Not
	restricted to an enclosed dewater section of the river, and		required
	would be limited to sections 50-100m long at any one		
	time.		
	Flows to the area downstream shall be maintained at all	Implemented	Not
	times during the construction phase		required
	Capture survey shall be conducted within the Tai Po River	Capture surveys had been conducted at	Not
	before commencement of works. The captured target	the beginning of the Contract, during	required
	species shall be relocated to areas of the watercourse	the wet season July/August 2008 and	
	upstream of the watercourse upstream of the Tai Po River	4th November 2008	
	Temporary noise barriers should be constructed to control	Implemented	Not
	noise impacts to habitats and associated wildlife within		required
	and adjacent to the proposed works area		
	Excavation works shall be carried out by land based plant	Implemented	Not
	within enclosed dry section of river channel.		required
	Compensatory planting of trees and other vegetation	Not applicable	Not
	along the banks of the newly improved drainage channel		required
	should be provided to compensate for the loss of riparian		
	vegetation.		
	Operation phase activities in the improved drainage	Not applicable	Not
	channel would be limited to periodic channel maintenance		required
	such as de-silting.		

Appendix H: Cumulative waste flow table

Type of waste	Inert Waste	Non-Inert Waste	Chemical Waste
September 2008	0	0	0
October 2008	0	2 tonnes	0
November 2008	36m ³	0	0
December 2008	0	0	0
January 2009	0	0	0
February 2009	0	0	0
March 2009	0	0	0
April 2009	0	0	0
May 2009	0	0	20kg*
June 2009	0	0	0
Total	36m ³	2 tonnes	20kg

Cumulative waste flow table since September 15th 2008

Remark*: Chemical wastes generated from the project sites including Upper Tai Po River, Lam Tsuen

River and She Shan River were centralized for disposal.

Appendix I: Construction programme

	· .	River Improvement Works in	rovement		Contrac	Contract No. DC/2007/06 r Lam Tsuen River, She \$	007/06 , She Shar	Contract No. DC/2007/06 Upper Lam Tsuen River, She Shan River and Upper Tai Po River	Po River			
		•			Mast	Master Programme	nne			A A A A A	500245	
ability Task Name	an an a dù an		Elk	制和微量化物				2007年 2006年 2006年 後年3	2009th @7b4t @ #4t			141E
720 Rocki	Rockfill & Blinding	i na manana ang ang ang manana kanana katang kat	40 days	2008/11/16	2009/12/25	2008/11/16						
	Retaining Wall		50 days	2008/12/26	2009/2/13	2008/12/20	20102/R002	•	-			
	o Wall		40 days	2009/2/176	087876002	2009/3/26	2009/3/30	· · ·		· · · ·		
1 1 1 1 1 1 1	Install Ducts/Fenoing/Railings/Drainage		a days	2009/9120	2010/13/30	2009/4/1	2010/3/30	· · ·				
F.COT	From CHL 1/00 to CHL 1550		214 davs	2009/4/1	2009/10/31	2009/4/1	2009/10/31					
7.25 Freevation			90 days	2009/11/1	2010/1/29	2009/11/1	2010/1/29					
	Rockfill & Blinding		40 days	2009/11/16	2009/12/25	2009/11/16	2009/12/25	· · · ·	.			
	Retaining Wall	· · · · · · · · · · · ·	50 days	2009/12/26	2010/2/13	2009/12/26	2010/2/13		••••			
	n Wali	· ·	40 days	2010/2/14	2010/3/25	2010/2/14	2010/3/25		•••		•	-
730 Install	Install Ducts/Fencing/Rallings/Drainage		5 days	2010/3/26	2010/3/30	2010/3/26	2010/3/30		• • •			
731 Footbridge	Footbridge, Platform and Fill Slope		384 days	2010/4/1	2011/4/19	2010/4/1	2011/4/19					
	Wet Season (April to Cict 2010)		214 days	2010/4/1	10010102	1950102	2010/01/02					
	Provision of Tomp, footbridge		5 days	1/1L/01/07	C/11/0107	2010/11/02		<i></i>		.	·	
	Footing for footbridge		25 days	0/11/01/02	05/11/01/02	0/11/01/02	06/11/07/02		•••			
	Wall		SU days	1610102	2010/12/2000	20/04/221	20101100				~ .	
	ridge see entre aller aller aller aller		oo days	101210102	84/011104	PULLININ	2011/2/28					
	Demoklion of existing lootbridge	· · · · · · · · · · · · · · · · · · ·	or days	PD146121	2012/11/2	1021102	2011/0/25			<u><u><u></u></u></u>		
	ulvert		20 days		2011/02							
	Footpaths Maintenance Stairway		Z5 days	2011/1/1/202	RI /6/1107	07/011 07	ei #-11 1.07		•••	3		
	1. In the second sec			100000000	OFFFFFF	06/01 1 100	histohia					
741 Completion of Area K	×		0 days	61/6/1102	A1 /6/1 107	41 /h/1 1 M7	21 Juli 107		:::	P		
	· · · · · · · · · · · · · · · · · · ·		0 dave	P11514119	2011/4/19	2011/4/19	2011/4/19					
743 Completion of Work at Section 2	at Section 2	and the second sec	0 1032	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2			• • •	•••			· ·
744								~	• • •			
746 Serting 3 . Hinner Tai Po River (Area L. N & P)	n River (Area L. N & P)		1300 days	2007/9/28	2011/4/19	2007/3/28	2011/4/19					
1	Sochon 3 - Under Tai Po River (Area L)		1300 days	2007/9/28	2011/4/19	2007/9/28	2011/4/19					
-	nt of Work		1 day	2007/9/28	2007/9/28	2007/0/28	2007/9/28					
	Possession to Portion of the Site (Area L)		181 days	2007/9/29	2009/3/27	2007/13/29	2008/3/27			A program of a second		
	655		40 days	2008/11/1	2008/12/10	2008/11/1	2008/12/10					
- <u>1.</u>			10 days	2008/12/11	2008/12/20	2008/12/11	2008/12/20		4			
	Chainlink Fencing Work / Hoarding		30 dáys	2008/12/21	2009/1/19	2009/12/21	51/1/6002					
753 Initial Survey			30 days	2008/3/28	2008/4/26	2008/3/28	2008/4/26					
754 Condition Surve	Condition Surveys / Set up markers		30 days	2008/3/26	2008/4/26	2008/3/28	2006/4/26		•••			
755 Preparation of	Preparation of Temporary Works Design		60 days	2008/1/14	2008/3/13	2008/1/14	2008/3/13					
756 Approval of Ter	Approval of Temporary Works Design		0 days	2008/3/27	2008/3/27	2008/3/27	2008/3/27	•			· ·	
757 Wet Season (A	Wet Season (April to Oct 2008)		214 days	2008/4/1	2009/10/31	2008/4/1	2008/10/31					
1				and division of the	Dest ison	OCTULEVITE	201411414					
	Chainage from CH 0 to CH130	· · ·	1300 02/3	2011102		2011/11/10	2011111111	•				
	the Sile		FOU days	2009/1/20	2010/3/22	2009/1/20	2010/8/22					
761 BOUIDER 1782	Ider 1/ap Excavalion		100 days	2009/1/20	2009/4/29	2009/1/20	2009/4/29			•,		
	Excevelui & Blinding Layer		120 days	2009/4/30	2009/8/27	2009/4/30	2009/8/27					
	Base Slab Structure		120 days	2009/8/28	2009/12/25	2009/8/28	2009/12/25	11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1			1 60.000	
and a second	Task		Colleal Tas	Colical Task Progress		Rolled Up Task		Rolled Up Progress	5	Project Summary	(Annunuch)	
Project: Master Programme (REV.7)			Milestone	\$		Rolled Up Critical Task	al Task (State)	spit	- - - - - - - - - - - - - - - - - - -			
ia uzar Jan zuuz nsultari, MCAL	·		Summary	•		Roted Up Milestone	c) evo	External Tasks				

River Improvement Work River Improvement Work Nail Structure 1.00 Exoling for footbridge 2000 Evolution of Term, footbridge 2001 Evolution of Term, footbridge 201 Evolution of Term, footbridge 201 Evolution of Term, footbridge 201 Evolution of existing footbridge 201 Evolution of the Sine (Avea P) 100 days 201 Evolution of the Sine (Avea P) 100 days 201 Evolution of the Sine (Avea P) 100 days 201 Evolution of the Sine (Avea P) 100 days 201 Evolution of the Sine (Avea P) 100 days 201 Evolution of the Sine (Avea P) 100 days 201 Evolution of the Sine (Avea P) 201 days 201 Evolution of the Sine (Avea P) 201 days 201 Evolution of the Sine (Avea P)
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	Pre-bored M-Pile (76) Loading test for pites	Pre-bored H-Pile (76 Nos) Loading test for piles		300 days 20 days	2009/2/9 2009/12/6	2009/12/5 2009/12/25	2009/2/9 2009/12/6	2009/12/5 2009/12/25					· · · · · · · · · · · · · · · · · · ·	
	Excavation			120 days	2009/12/26	2010/4/24	2009/12/26 2010/4/25	2010/4/24 2010/8/22			<u>.</u>			
	Base Slab Wall Stem			120 days 120 days	2010/9/23	2010/12/20	2010/8/23	2010/12/20				Landon -		
-	Construction of	Construction of Retaining Wall (TR4)		360 days	2010/4/25	2011/4/19	2010/4/25	2011/4/19			/		P	
	Excavation			120 days	2010/4/25	2010/8/22	2010/4/25	2010/8/22			<i>;</i>	E Cara		
	Base Slab Wall Stern			120 days 120 days	2010/6/23	2010/12/20 2011/4/19	2010/12/23	20202110102						
		a second a s			Qualanne	041114110	PUNALETS	2011/14/19					P	
	From CH380 to CH530 Wel Season (April	n CH380 to CH530 Wel Season (April to Oct 2009)	-	125 days	2008/6/29	2008/10/31	2008/6/29	2008/10/31				,		
:	Excavation			120 days	2008/11/1	2009/2/28	2006/11/1	2009/2/28						
-	Rockfill & Blinding	Sunding		120 days	2008/11/16	2009/3/15	2008/11/16	2009/3/15		•	*	*		
and a second second	Base Slab Structure	Sinucture		131 days	2008/11/21	2009/3/31	2008/11/21	2009/3/31						
	Wel Seaso	Wel Season (April to Oct 2010)		146 days	2009/8/25	2009/01/2/22	2009/8/26	2009/12/22						
	Wali Structure Cablon Mali	ure H		90 days	2009/12/23	2010/3/22	2009/12/23	2010/3/22				j.		
	Install Duct	Install Ducts/Fencing/Rallings/Drainage		9 days	2010/3/23	2010/3/31	2010/3/23	2010/3/31		::;				
	Wet Season			214 days	2010/4/1	2010/10/31	2010/4/1	2010/10/31		;::				
	Foolbridga	Foolbridga (TE6 & TB7)		125 days	2010/11/1	2011/3/5	2010/11/1	2011/3/5	e				40	
	Dwart Wall			30 days	2011/3/6	2011/4/4	2011/3/6	2011/4/5		::::			<u>g</u> a	
	Demolition	Demolition of Existing Footbridge		15 days	d/P/LL02	81/4/1107		2011/4/19		* * *		•	-	
	Footbridge, Plu	Footbridge, Platform and CutFill Slope metroms & CutFill Slone & Manianence Stativiav		80 days	2010/11/1	2011/1/19		2011/11/05		•••		E	•	
	Fusion 6		finantin an	80 days	2010/12/21	2011/3/10	2010/12/21	2011/3/10		:::		ľ	-	
	Rox Culverts	18. 18.		60 days	2011/1/20	2011/3/20	2011/1/20	2011/3/20				آ	<u> </u>	
	Construct Cascade	Cascade		30 days	2011/3/21	2011/4/19	2011/3/21	2011/4/19		:::				
							•			• • •				
Comple	Completion of Area N			o days	2011/4/19	2011/4/19	2011/4/19	2011/4/15					•	
		. Constant		Dictave	201114/15	201134/19	2011/4/19	2011/4/19		:::			•	
Compt	Completion of work at section a	ection o								• • •			•	
Section 4 -	Section 4 - Box Culvert at Ping Long	ng Long		730 days	2007/9/28	2009/9/26	2007/9/28	2009/9/26		Reserves and a second second		* * *		
Sectio	Section 4 - Box Culvert [Area A]	[Area A]	2.2.	730 days	2007/9/28	2009/9/25	2007/9/28	2009/9/26	ľ					
Ŏ	Commencement of Works	Works		1 day	2007/9/28	2007/9/28		2007/9/28	;}					
đ	ossession to Portic	Possession to Portion of the Site (Area A)		0 days	2007/9/28	2007/9/28		2007/9/26	•	: ? ?				
X	Material Submission			50 days	2007/9/29	2007/12/27		2007/12/27		••••				·
×	Material Submission Approval	Approval		0 days	2008/1/10	2008/1/10	÷.,	2008/1/10	¢ ;			'r		
£	Initial Survey			30 days	2007/9/29	2007/10/26		2007/10/28				· · ·		-
¥.	Application of Excavation Pertrit	zation Pertrat		60 days	2007/9/29	2007/11/27		37/LL/J002	7	:::		N05		
αŝ	reparation and Sul	Preparation and Submission of TTA on Lam Kam Road to pMC and TO	m Road to	30 days	2007/8/29	2007710/28		92/01/002	<u>,</u>					:
× ج	Approval of TTA			21 days	2007/10/29	2007/11/18	2007/10/29	2007/11/18	<u>122</u>			• • • •		
ű	Site Clearance		· · · · · · · · · · · · · · · · · · ·	60 days.	2007/5/29	2007/11/27	2007/9/29	2007/11/27				~ ~		
Vinster Prog	traitune (REV.7)	Task		Critical Task Progress	k Progress		Rolled Up Task			Rolled Up Progress with		Project Summary		2
e: Jan 200 ht: MCAL	Data Date: Jan 2009 Consultant: MCAL,	Task Progress Critical Task		Summary	>		Rolled Up Milestone	stone 🔅	Externation External Tasks	Tasks 🔛			;	
							Dank 20					new your description of the state wat had not never any support of the state of the		