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 September 2009

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DC/2007/06 River improvement works in Upper Tai Po River Thirteenth Monthly Report

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Report submission and revision: First submission on 06th October 2009 Second Submission on 07th November 2009

TABLE OF CONTENTS

TABLE OF CONTENTS
Executive summary
1.0 Introduction
2.0 Environmental status
2.1 Project area
2.2 Construction programme
2.3 Proposed construction sequences7
2.4 Construction activities for the reporting period9
2.5 Construction activities for the next reporting period9
2.6 Non-compliance with the environmental performance limits9
2.7 Summary of complaints9
3.0 Ecological monitoring results
4.0 Noise monitoring results
5.0 Vibration monitoring results
6.0 Environmental issues and actions
6.1 Site inspections and key environmental issues
6.2 Non-compliance
6.3 Recommendations
6.4 Implementation status and effectiveness of the mitigation measures
7.0 Waste management status
8.0 Status of environmental licensing and permit14
9.0 Future key issues
10.0 Conclusion
Appendix A: Event and action plan for ecology17
Appendix B: Action and limit level for construction noise
Appendix C: Reference standards for vibration
Appendix D: Noise monitoring results, graphical plots and location plan24
Appendix E: Monitoring schedule for the present and next reporting period
Appendix F: Cumulative complaint log
Appendix G: Implementation status of environmental protection and mitigation
measures
Appendix H: Cumulative waste flow table
Appendix I: Construction programme45
Appendix J: Ecological Impact Monitoring Report60

Executive summary

This is the thirteenth monthly Environmental Monitoring and Audit (EM&A) Report for the river improvement works at 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 September 2009 to 30th September 2009. The major construction activity was ceased in this reporting month.

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 preformed by the Ecologist Dr. Mark Shea was carried out on 21st and 22nd July 2009. Details of the ecological monitoring report please refer to Appendix J. The summary of ecological site inspection findings and implementation status of environmental protection and mitigation for ecology, prepared by the Ecologist, 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 month will be mainly construction of haul access, installation of noise barriers and river reinstatement works.

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 thirteenth monthly Environmental Monitoring and Audit (EM&A) Report for the river improvement works at 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 September 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.

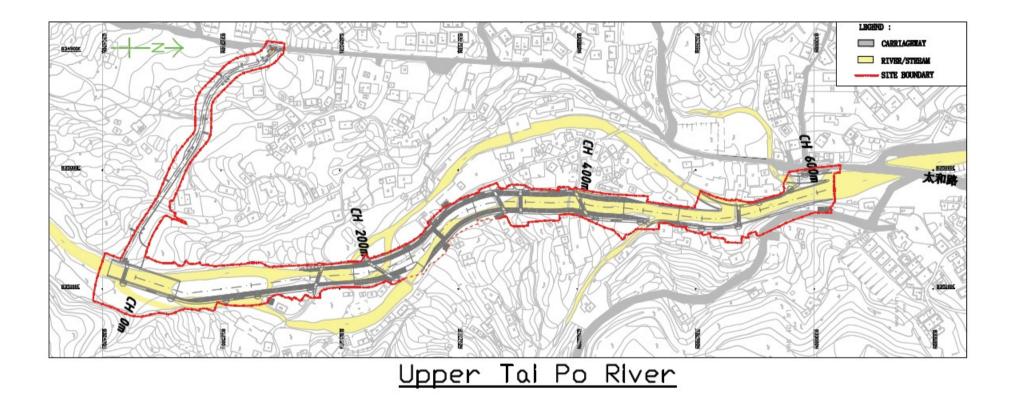
2.3 Proposed construction sequences

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

DC/2007/06 River improvement works in Upper Tai Po River Thirteenth Monthly Report

Fig 2.1 Layout of construction area



2.4 Construction activities for the reporting period

Major construction activities were ceased in the reporting period since no excavation works in river is allowed during wet season due to contractual requirements.

2.5 Construction activities for the next reporting period

Major construction activities carried out by the contractor anticipated for the coming month include:

- (1) Haul access formation
- (2) Installation of noise barrier

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 formal complaint received in the reporting 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

Ecological impact monitoring was conducted on 21st and 22nd July 2009 by the Ecologist Dr. Mark Shea. Details of the revised monitoring report please refer to Appendix J. The Capture survey conducted by the Ecologist was scheduled within October and 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 4th, 10th, 17th and 24th September 2009. Monitoring programme carried out on 30th September 2009 was cancelled due to adverse rainy weather. L_{eq} (_{30min}) results ranged from 44.4dB(A) to 67.2dB(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 2nd, 9th, 16th, 23rd and 30th September 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.

Ecological inspections by the Ecologist Dr. Mark Shea were carried out on 2nd, 9th, 16th, 23rd and 30th September 2009. Details of findings were summarized in Table 6.2.

Date	Findings	Identification	Advice from ET	Action taken	Closing date	Remarks	
02 Sept 09	No major findings for this	N/A	N/A	N/A	N/A	N/A	
	inspection						
09 Sept 09	No major findings for this	N/A	N/A	N/A	N/A	N/A	
	inspection						
16 Sept 09	No major findings for this	N/A	N/A	N/A	N/A	N/A	
	inspection						
23 Sept 09	No major findings for this	N/A	N/A	N/A	N/A	N/A	
	inspection						
30 Sept 09	No major findings for this	N/A	N/A	N/A	N/A	N/A	
	inspection						

Table 6.1 Summary results of site inspections findings

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

Table 6.2	Table 6.2 Summary results of ecological site inspection findings										
Date	Observations	Advice from	Action Taken	Closing							
		Ecologist		Date							
02 Sept	No Major findings for this	No Advice is	No Action is required to	N/A							
2009	inspection	required	be taken								
09 Sept	No Major findings for this	No Advice is	No Action is required to	N/A							
2009	inspection	required	be taken								
16 Sept	No Major findings for this	No Advice is	No Action is required to	N/A							
2009	inspection	required	be taken								
23 Sept	No Major findings for this	No Advice is	No Action is required to	N/A							
2009	inspection	required	be taken								
30 Sept	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 August 2009.

6.3 Recommendations

As major site activities were ceased, environmental impacts to the vicinity due to construction works were minimized and there were no major findings during this reporting month.

However, contractor was reminded to maintain good housekeeping practices for site equipments and materials storage, in order to minimize mosquito breeding in site area.

6.4 Implementation status and effectiveness of the mitigation measures

According to the findings from the inspections, there was no major defect recorded in this reporting month. Necessary environmental mitigation measures were mostly implemented and considered as effective to minimize negative impact to the environment. Ongoing investigation will be carried out to observe performance and effectiveness of those measures.

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.

Table 7.1 Summary of Waste Disposal for the reporting month									
	Type of waste	Inert Waste	Non-Inert Waste	Chemical Waste					
	September 2009	0	0	0					

T11 710 C 117 1 0 **D**' . 1

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 Noise	N/A	N/A	N/A	N/A
Permit				
Effluent Discharge	3678	14 th Mar, 2008	31 st Mar, 2013	Issued
License				
Registration as a	5213-724-C3251-03	19 th Dec, 2007	Not applicable	Issued
Chemical Waste				
Producer				
Billing Account for	7006101	N/A	N/A	N/A
Disposal of				
Construction Waste				

 Table 8.1 Summary of Environmental Licensing and Permit Status

9.0 Future key issues

As informed by contractor, major construction activities in the upcoming month will include formation of haul access and installation of noise barriers. The construction activities for these items will generate several environmental impacts. These include air, noise, water and waste management.

Construction activities such as backfilling, earth movement may generate dust impact to the vicinity of sensitive receivers. Contractor is advised to provide regular water spraying for the dusty static area. Stockpiling may be found on site and those should be covered by tarpaulin to prevent erosion.

Formation of haul access in the stream course may generate water quality impact. Contractor was recommended to provide proper bunds and barriers as forming well enclosed area for construction activities carried out in the river course. Site water treatment facilities should be used whenever necessary.

For the proposed construction activities, heavy plants and vehicles may be deployed and those would generate certain noise impacts to the sensitive receivers. Noisy activities should be well planned and scheduled to avoid parallel operation of multiple plants, so as to minimize noise impacts to the nearby sensitive receivers.

Construction activities may generate wastes on site. Contractor is advised to assign a site area for waste storage and segregation. Wastes accumulation should be prevented on site; licensed waste collection and disposal should be implemented regularly for hygiene issues.

10.0 Conclusion

The major construction activity was ceased in this reporting month.

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. Impact ecological monitoring was carried out on 21st and 22nd July 2009. The Revised ecological impact monitoring report was attached in Appendix J.

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

There was no complaint recorded in this 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		Contractor				
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	57.3	67.8	66.8	4-Sep-09	13:37-14:07	Noise generated from site clearance and vegetation removal works	Noise from innovation activities of the village	Sunny	Façade
							house & background noise from traffic		
UTP 2	55.3	62.2	65.1	4-Sep-09	13:02-13:32	The measured noise level was dominated by the background noise in the immediate vicinity of the	Noise from innovation activities of the village	Sunny	Façade
						monitoring location as no construction activity was carried out at the project site	house & background noise from traffic		
UTP 3	44.2	48.7	51.9	4-Sep-09	15:14-15:44	The measured noise level was dominated by the background noise in the immediate vicinity of the	N\A	Sunny	Façade
						monitoring location as no construction activity was carried out at the project site			
UTP 4	60.1	61.9	61.5	4-Sep-09	14:10-14:40	The measured noise level was dominated by the background noise in the immediate vicinity of the	Background noise from public	Sunny	Façade
						monitoring location as no construction activity was carried out at the project site			
UTP 5	60.8	65.4	61.7	4-Sep-09	14:42-15:12	The measured noise level was dominated by the background noise in the immediate vicinity of the	Background noise from public	Sunny	Façade
						monitoring location as no construction activity was carried out at the project site			
UTP 6	44.0	49.6	48.2	4-Sep-09	15:50-16:20	The measured noise level was dominated by the background noise in the immediate vicinity of the	N\A	Sunny	Façade
						monitoring location as no construction activity was carried out at the project site			
UTP 7	48.0	50.1	52.9	4-Sep-09	16:23-16:53	The measured noise level was dominated by the background noise in the immediate vicinity of the	N\A	Sunny	Façade
						monitoring location as no construction activity was carried out at the project site			
UTP 8	49.3	53.4	51.8	4-Sep-09	09:30-10:00	The measured noise level was dominated by the background noise in the immediate vicinity of the	N\A	Sunny	Façade
						monitoring location as no construction activity was carried out at the project site			
UTP 9	41.1	47.5	46.7	4-Sep-09	11:28-11:58	The measured noise level was dominated by the background noise in the immediate vicinity of the	N\A	Sunny	Façade
						monitoring location as no construction activity was carried out at the project site			
UTP 10	42.5	47.1	48.0	4-Sep-09	10:48-11:18	The measured noise level was dominated by the background noise in the immediate vicinity of the	N\A	Sunny	Façade
						monitoring location as no construction activity was carried out at the project site			
UTP 11	43.2	48.6	47.4	4-Sep-09	10:15-10:45	Noise generated from house keeping activities	N\A	Sunny	*Free field

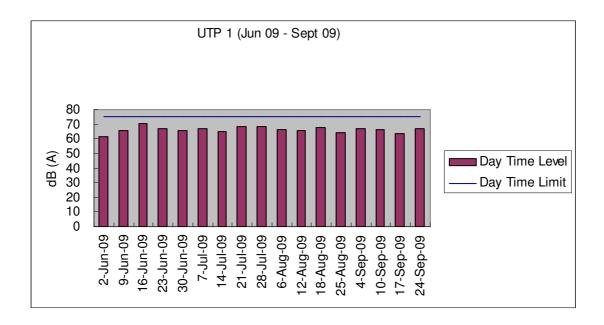
Location	L ₉₀	L ₁₀	Leq	Date	Time	Major Construction Noise	Other Noise source	Weather	Location
	30min	30min	30min		Duration				description
UTP 1	56.5	67.2	66.1	10-Sep-09	13:34-14:04	The measured noise level was dominated by the background noise in the immediate vicinity of the	Background noise from traffic	Cloudy	Façade
						monitoring location as no construction activity was carried out at the project site			
UTP 2	56.6	60.9	60.9	10-Sep-09	13:00-13:30	The measured noise level was dominated by the background noise in the immediate vicinity of the	Background noise from traffic	Cloudy	Façade
						monitoring location as no construction activity was carried out at the project site			
UTP 3	58.2	61.9	62.0	10-Sep-09	14:09-14:39	The measured noise level was dominated by the background noise in the immediate vicinity of the	N\A	Cloudy	Façade
						monitoring location as no construction activity was carried out at the project site			
UTP 4	55.8	58.3	59.6	10-Sep-09	14:40-15:10	The measured noise level was dominated by the background noise in the immediate vicinity of the	N\A	Cloudy	Façade
						monitoring location as no construction activity was carried out at the project site			
UTP 5	51.7	56.3	53.4	10-Sep-09	15:13-15:43	The measured noise level was dominated by the background noise in the immediate vicinity of the	N\A	Cloudy	Façade
						monitoring location as no construction activity was carried out at the project site			
UTP 6	46.0	50.7	53.9	10-Sep-09	15:46-16:16	The measured noise level was dominated by the background noise in the immediate vicinity of the	N\A	Cloudy	Façade
						monitoring location as no construction activity was carried out at the project site			
UTP 7	45.3	50.8	53.3	10-Sep-09	16:17-16:47	The measured noise level was dominated by the background noise in the immediate vicinity of the	N\A	Cloudy	Façade
						monitoring location as no construction activity was carried out at the project site			
UTP 8	51.2	53.8	52.9	10-Sep-09	11:29-11:59	The measured noise level was dominated by the background noise in the immediate vicinity of the	N\A	Cloudy	Façade
						monitoring location as no construction activity was carried out at the project site			
UTP 9	45.4	56.1	56.6	10-Sep-09	10:56-11:26	Noise generated from house keeping activities	N\A	Cloudy	Façade
UTP 10	43.7	48.5	48.2	10-Sep-09	10:22-10:52	The measured noise level was dominated by the background noise in the immediate vicinity of the	N\A	Cloudy	Façade
						monitoring location as no construction activity was carried out at the project site			
UTP 11	46.5	51.8	55.3	10-Sep-09	09:50-10:20	The measured noise level was dominated by the background noise in the immediate vicinity of the	N\A	Cloudy	*Free field
						monitoring location as no construction activity was carried out at the project site			

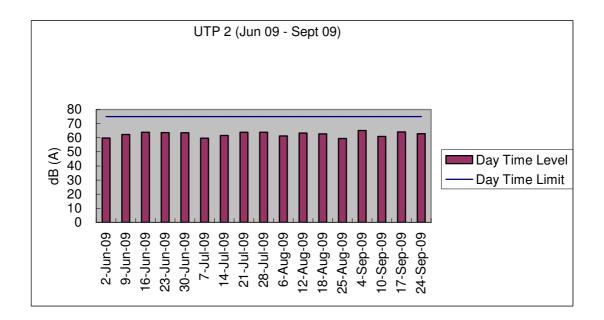
Location	L ₉₀	L ₁₀	Leq	Date	Time	Major Construction Noise	Other Noise source	Weather	Location
	30min	30min	30min		Duration				description
UTP 1	56.9	65.7	63.6	17-Sep-09	13:34-14:04	The measured noise level was dominated by the background noise in the immediate vicinity of the	Background noise from traffic and public	Sunny	Façade
						monitoring location as no construction activity was carried out at the project site			
UTP 2	56.2	62.9	64.1	17-Sep-09	13:00-13:30	The measured noise level was dominated by the background noise in the immediate vicinity of the	Background noise from traffic	Sunny	Façade
						monitoring location as no construction activity was carried out at the project site			
UTP 3	44.4	50.0	48.3	17-Sep-09	15:13-15:43	The measured noise level was dominated by the background noise in the immediate vicinity of the	N\A	Sunny	Façade
						monitoring location as no construction activity was carried out at the project site			
UTP 4	57.4	58.3	55.4	17-Sep-09	14:10-14:40	The measured noise level was dominated by the background noise in the immediate vicinity of the	Background noise from traffic and public	Sunny	Façade
						monitoring location as no construction activity was carried out at the project site			
UTP 5	53.5	58.8	60.3	17-Sep-09	14:41-15:11	The measured noise level was dominated by the background noise in the immediate vicinity of the	N\A	Sunny	Façade
						monitoring location as no construction activity was carried out at the project site			
UTP 6	46.3	51.6	49.2	17-Sep-09	15:45-16:15	The measured noise level was dominated by the background noise in the immediate vicinity of the	N\A	Sunny	Façade
						monitoring location as no construction activity was carried out at the project site			
UTP 7	46.3	52.4	51.8	17-Sep-09	11:30-12:00	The measured noise level was dominated by the background noise in the immediate vicinity of the	N\A	Cloudy	Façade
						monitoring location as no construction activity was carried out at the project site			
UTP 8	49.5	53.7	53.0	17-Sep-09	10:58-11:28	The measured noise level was dominated by the background noise in the immediate vicinity of the	Background noise from public	Sunny	Façade
						monitoring location as no construction activity was carried out at the project site			
UTP 9	44.1	47.7	47.7	17-Sep-09	10:26-10:56	The measured noise level was dominated by the background noise in the immediate vicinity of the	N\A	Sunny	Façade
						monitoring location as no construction activity was carried out at the project site			
UTP 10	42.2	45.7	44.4	17-Sep-09	09:50-10:20	The measured noise level was dominated by the background noise in the immediate vicinity of the	N\A	Sunny	Façade
						monitoring location as no construction activity was carried out at the project site			
UTP 11	54.8	56.6	55.2	17-Sep-09	09:18-09:48	The measured noise level was dominated by the background noise in the immediate vicinity of the	N\A	Sunny	*Free field
						monitoring location as no construction activity was carried out at the project site			

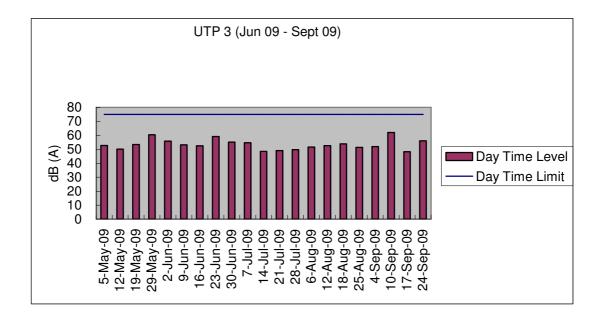
Location	L ₉₀	L ₁₀	Leq	Date	Time	Major Construction Noise	Other Noise source	Weather	Location
	30min	30min	30min		Duration				description
UTP 1	56.4	68.0	67.2	24-Sep-09	13:33-14:03	Noise generated from excavator for site clearance	Background noise from traffic and public	Sunny	Façade
UTP 2	55.7	63.4	62.9	24-Sep-09	13:00-13:30	Noise generated from excavator for site clearance	Background noise from traffic and innovation works of village house	Sunny	Façade
UTP 3	54.0	60.4	56.1	24-Sep-09	15:13-15:43	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location as no construction activity was carried out at the project site	N\A	Sunny	Façade
UTP 4	56.6	66.3	65.2	24-Sep-09	14:07-14:37	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location as no construction activity was carried out at the project site	Background noise from traffic and innovation works of village house	Sunny	Façade
UTP 5	49.3	55.0	53.4	24-Sep-09	14:39-15:09	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location as no construction activity was carried out at the project site	N\A	Sunny	Façade
UTP 6	47.3	56.1	55.3	24-Sep-09	11:22-15:52	Noise from re-location works of lamp posts	Background noise from innovation works of village house	Sunny	Façade
UTP 7	48.9	58.5	55.5	24-Sep-09	10:17-10:47	Noise from re-location works of lamp posts	Background noise from innovation works of village house	Sunny	Façade
UTP 8	49.3	52.4	51.5	24-Sep-09	10:49-11:19	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location as no construction activity was carried out at the project site	N\A	Sunny	Façade
UTP 9	44.7	53.6	51.8	24-Sep-09	09:43-10:13	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location as no construction activity was carried out at the project site	N\A	Sunny	Façade
UTP 10	46.6	55.7	54.0	24-Sep-09	09:06-09:36	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location as no construction activity was carried out at the project site	N\A	Sunny	Façade
UTP 11	50.1	58.4	54.6	24-Sep-09	08:33-09:03	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location as no construction activity was carried out at the project site	N\A	Sunny	*Free field

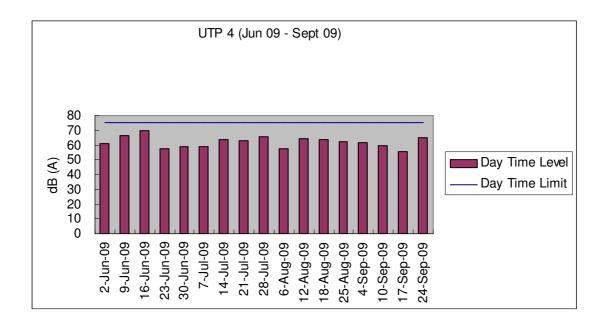
Graphical plot for noise measurements

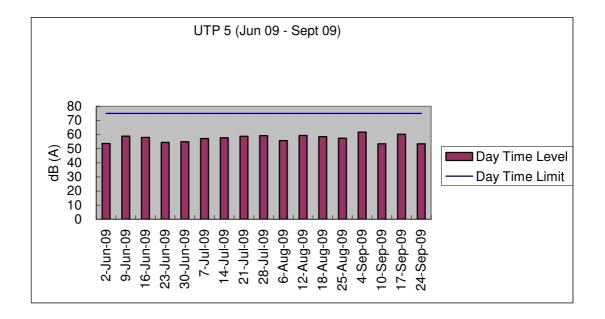
The following plots were the graphical plots for the 11 monitoring locations. Each plot showed the day time limit 75 dB(A), daytime level, date and the measured dB(A) results as in Leq 30min for each location. The graph contains the data recorded from June 2009 to September 2009.

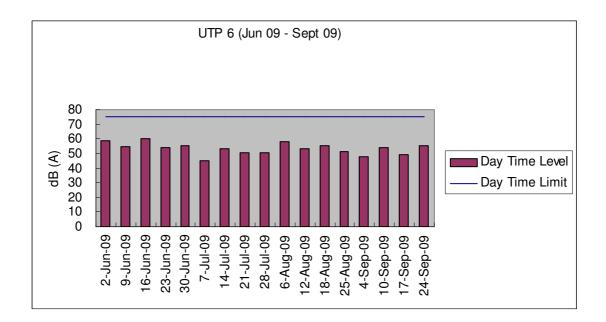


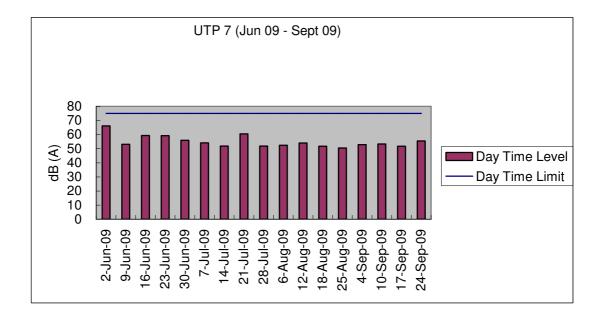


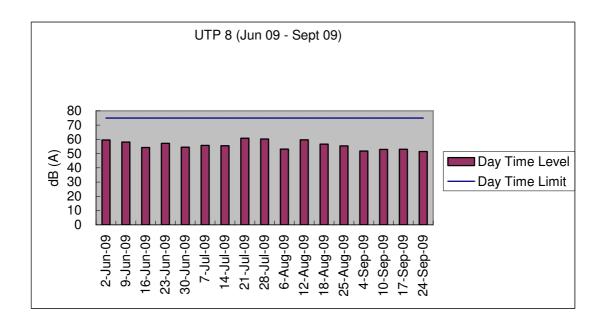


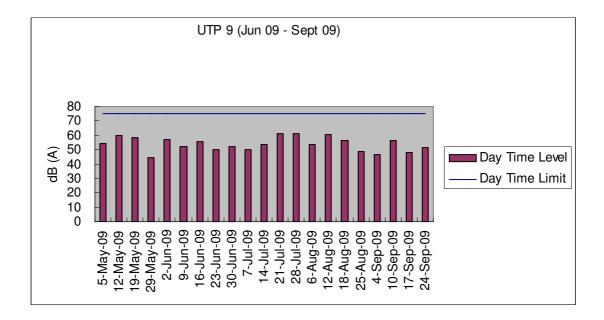


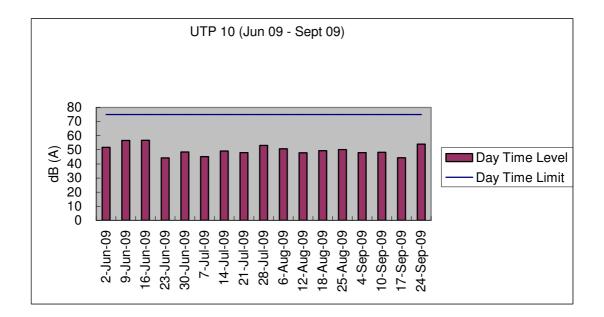


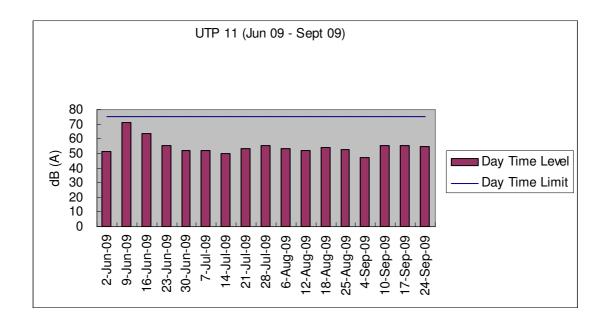




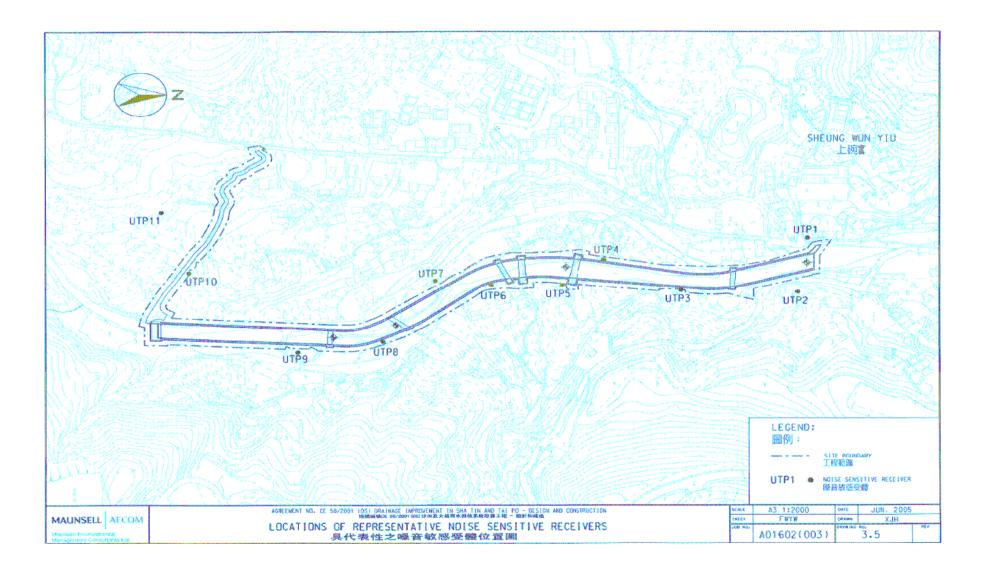








DC/2007/06 River improvement works in Upper Tai Po River Thirteenth Monthly Report



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

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

Master Schedule of EM&A works in September 2009

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1/10	2/10	3/10
4/10	5/10	6/10	7/10	8/10	9/10	10/10
			Cite increation at			
			Site inspection at afternoon		Noise monitoring	
			alternoon			
11/10	12/10	13/10	14/10	15/10	16/10	17/10
			Site inspection at		Noise monitoring	
			afternoon		Noise monitoring	
18/10	19/10	20/10	21/10	22/10	23/10	24/10
			0			
			Site inspection and SSEMC at morning		Noise monitoring	
			SSENIC at morning			
25/10	26/10	27/10	28/10	29/10	30/10	31/10
			Site inspection at		Noise monitoring	
			afternoon		TNUISE MONILUNING	

Master Schedule of EM&A works in October 2009

Appendix F: Cumulative complaint log

Environmental	Cumulative no.	No. of complaint	Overall Total
Parameters	Brought forward	September 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

* ET received a public enquiry referred by EPD, regarding river water quality and loss of vegetation within construction site, on

3rd July 2009.

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	Not applicable at this stage	Not required
	-Shut down plants between work periods	Not applicable at this stage	Not required
	-Install silencers on construction equipment	Not applicable at this stage	Not required
	-Locate mobile plant far away from NSRs	Not applicable at this stage	Not required
	-Quiet plants should be used	Not applicable at this stage	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	Not applicable at this stage	Not required
	-Cover excavated or stockpile of dusty material by impervious sheeting	Implemented	Not required
	or sprayed with water		N 1
NU 0 1	-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 carried out in stages and excavation area for each stage shall be limited 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	Not applicable at this stage	Not required
	construction stage Land-based plant shall be employed and site run-off shall be directed towards regularly cleaned and maintained silt traps and oil / grease separators to minimize leakage and loss of sediments during excavation	Not applicable at this stage	Not required
	Large boulders removed from the Tai Po River within the Project during excavation shall be re-instated upon completion of works A section of 150m long natural riverbank on the western side of the river channel (Ch0 –Ch150) shall be retained	Not applicable at this stage	Not required

Implementation status of environmental protection and mitigation

	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
Waste	Reuse excavated material as far as possible	Not applicable at this	Not required
Management		stage	
	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		
	and equipments inimediatery		

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.		

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

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
July 2009	0	0	0
August 2009	0	0	0
September 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

	T Tak Name	51	River Improvement Works In E	ement Wr		Contrat per Lam 7 rised Mast	Contract No. DC/2007/06 Upper Lam Tsuen River, She Shan F <u>Ravised Master Programme (Rev. 08)</u> <u>Exv. Start Lev. Staten (State) state</u>	2007/06 er, She Sh mme (Rev.	ian River and . 08) state from	Contract No. DC/2007/06 Upper Lam Tsuen River, She Shan River and Upper Tai Po River tevised Master Programme (Rev. 08) Evershard Bawalater Stat i state barr Total Total	0002	L PUL 1.0/20	L BEOR
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Men Un V3 (1) Control	Conce	sting (base stat), bay 2)			1 42	22/1/2008	22/1/2009	22/1/2009.	2211/2009		<u>•</u>				
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multical form	ATTER P	ork (wall stem, bay 1-3)			8	112(2009	1-12/2009	11/2/2008	11/2/2009		•.*		100	•••	
Mark Mark List Transmin frammer Transmin frammer <td>Rebar</td> <td>foing (wal stem, bay 2)</td> <td></td> <td></td> <td>\$1</td> <td>12/2009</td> <td>12/2/2008</td> <td>12/2/2008</td> <td>12/2/2008</td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td>	Rebar	foing (wal stem, bay 2)			\$1	12/2009	12/2/2008	12/2/2008	12/2/2008					•	
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Hole Hole <th< td=""><td>Kebar</td><td>fixing (wall stem bay 3)</td><td></td><td>•••••••</td><td></td><td>23/2/2008</td><td>25/2/2009</td><td>23/2/2009</td><td>23/2/2009</td><td></td><td>.,•</td><td></td><td></td><td></td><td></td></th<>	Kebar	fixing (wall stem bay 3)		•••••••		23/2/2008	25/2/2009	23/2/2009	23/2/2009		.,•				
Hear Streigt 110 562000 5600	Control	eing (wall stem bay 1 LHS, bay	y 3 RHSj			24/2/2009	BOUZZAWE	E002/2/142	24/2/2009	8	+				
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44	Trial pit LHS					11/12/2008		11/12/2009	BOODY 1/2/						
1145	Bulk excertion	Bulk excertion for footing (Abutment A)	~			14/2/2029	16/2/2009	14/2/2009	19/2/2009		4			511	5.50
345	Formation - Abutmenn A	dmem A				28/2/2000	23-27005	23-2/2008	23/2/2009	2		•			
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152	Slipping of fo	Skipping of formach (country shurner) A)	(711)			19/3/2009	19/2/2009	9002,6761	19/2/009				• •	÷	
1153	Bulk excevebor	1 for fonting [Abulmont B				2/11/2008	11/11/2009	2/1- (2009	11/11/2006			ä			
1154	Farmation - Ab	utmant B				2011/2003	B05211421	12/11/20100	12/11/2039						
156	FOIMMON, BIN	Formwork and reber fixing (Abument B, Noving)	, Marcing;			13/11/2009	18/11/2009	13/11/2009	10/11/2009						
•0	Concreting the	Concreting the forting (Abulmont B)				7/11/2003	17/11/2009	-71112009	17/11/2009			.*			
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Appendix J: Ecological Impact Monitoring Report

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

Ecological Impact Monitoring Report (No. 2) Upper Tai Po River

July 2009 (October 2009 amended)





River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River

Contract No. DC/2007/06

Ecological Impact Monitoring Report (No. 2) Upper Tai Po River

Ecological Impact Monitoring Report (No. 2)

Та	able of Contents	Page
1	Introduction	1
2	Summary Of Major Points	1
3	Summary Of The Construction Activities For The Month	2
4	Monitoring Methodology	4
5	Monitoring Data	4
6	Comments And Conclusions	8
7	References	8

FIGURES

Figure 1-1 to 1-3. Transect line and sampling location within study area

TABLE

Table 5-1. Flora species recorded at the transect along the Upper Tai Po River.

Table 5-2. Flora species recorded from belt transect survey at the Upper Tai Po River

Table 5-3 Avifauna recorded along survey transects and at two selected point count locations at Upper Tai Po River.

Table 5-4. Odonate species recorded at the Upper Tai Po River

Table 5-5 Aquatic Macro invertebrates recorded at Upper Tai Po River.

Table 5-6 Fish species recorded at Upper Tai Po River.

Table 5-7 Abiotic data for Upper Tai Po River.

PHOTOS

1 Introduction

- 1.1 The project of Drainage Improvement Works in Upper Tai Po River requires to carry out an ecological impact monitoring programme when the project commenced. The collected data was used to assess ecological impact during construction period.
- 1.2 Scope of ecological impact monitoring was detailed in the Particular Specification (PS) and EM & A Manual of the project. In brief, the survey need to collect data on abiotic such as water quality, substratum characteristics, water flow, and biotic data of flora and fauna.
- 1.3 China-Hong Kong Ecology Consultants was committed by Chiu Hing Construction and Transportation Co. Limited to undertake the ecological baseline survey in Oct 2007 and impact monitoring tasks for the project starting from January 2009.
- 1.4 This is the number 2 ecological impact monitoring report for the project conducted in July 2009. It contents the following subsections:
 - Summary of major points
 - Summary of the construction activities for the month
 - Monitoring methods
 - Monitoring data; and
 - Comments and conclusions

2 Summary of Major Points

- Field ecological monitoring was undertaken in mid of July 2009;
- Stream habitat at upper section of Upper Tai Po River (Photo 1) was changed due to drainage works while lower section was unchanged; and
- Abundance of one of the target stream fauna (i.e., fish, *Parazacco spilurus*) recorded in July 2009 was lower than those recorded during baseline monitoring (before fish capture/relocation took place). Low fish population of *A. hemispinus* due to the fish capture/relocation, seasonality and as well as drainage works. The other target species including fish (*Pseudobagrus trilineatus*) and Hong Kong Newt (*Paramesotriton hongkongensis*) were not found within works area during both baseline and impact monitoring.

3 Summary of The Construction Activities

No drainage works were undertaken in the Upper Tai Po River during this monitoring period.

4 Monitoring Methodology

4.1 Avifauna

Avifauna survey was conducted during the impact monitoring period. Special attention was given to those stream channel area where birds used as feeding and foraging habitat. In general, avifauna survey was taken in the morning or late afternoon when birds are more active (feeding and foraging). Numerical abundance was recorded at fixed count points

within a fixed radium, e.g. 30-50m according to landscape feature and visual penetration extent. Duration of the point count of birds was standardised for 10 minutes at each location in order to collect comparable data. Transect count will also be used for the avifauna survey aimed to collect qualitative data. Binoculars and digital camera was the main instrument to be used. Nomenclature and protection status of the species followed those documented in the AFCD website (www.hkbiddiversity.net) and Carey et al (2001). The point count was conducted at two locations with one located at the lower portion of the river channel ant the other located at the upper section of the river.

4.2 Fish and Newt Population

Fish community including target species (Three-lined Chinese Stream Catfish and Predaceous Chub) and Hong Kong Newt population at the specified river channel was monitored by live trapping, hand nets and director observation methods. Active searching at night (photo 2) for *Pseudobagrus trilineatus* has also been carried out. Sampling was conducted at two proposed sampling locations, i.e. upper and lower sections of the river and covered major type of stream habitats, e.g. stream pool and riffle. The number of the captured or observed fish was estimated and recorded. Nomenclature and protection status of the species followed those documented in the AFCD website (www.hkbiddiversity.net) and Virginia et al (2004).

4.3 Aquatic Macro-invertebrates

Macro-invertebrates in the likely affected streams was surveyed. Two sampling sites within the affected stream sites was designed to collect necessary macroinvertebrate fauna for ecological impact monitoring information. Three replicates was taken at each sampling point and pool together for further sample process. Kick sampling (photo 3) and hand netting was the main survey methodologies for stream organisms. Dissection microscope, digital camera was used to aid identification and enumeration. Numerical abundance, species identity was recorded. Nomenclature and protection status of the species will follow those documented in the AFCD website (www.hkiddiversity.net) and other literatures such as Dudgeon (1999)

4.4 Adult Odonate Survey

Adult Odonate survey was conducted within the monitoring area. Transect count was used for the survey. Binoculars, digital camera and hand net was utilized to aid identification. In general, all captured fauna was released immediately after on-site identification or taking photo. Numerical abundance, species identity and other notable behaviour was recorded. Nomenclature and protection status of the species followed those documented in the AFCD website (www.hkbiodiversity.net) and Keith (2003). Adult Odonate survey was conducted along line transects in parallel with river channel within works area where access was permitted

4.5 **Riparian Vegetation**

Riparian vegetation including aquatic and emergent was sampled by line a belt transects along the affected stream channel and riparian habitat. Species, relative abundance, average heights were recorded. Vegetation survey was conducted at two selected belt transects with one located at the lower portion of the river channel and the other at the upper section of the river respectively. The belt transects was run across the river channel and is aimed to collect quantitative data of vegetation. Similarly, qualitative data of plants was collected by recording plant species along line transect. Nomenclature and protection status of the species followed those documented in the AFCD website (www.hkbiodiversity.net) and Hong Kong Herbarium (2004).

4.6 Abiotic Data Collection

Water quality monitoring

Dissolved oxygen level, pH value, conductivity, salinity, BOD and nutrient level (nitrate and ammonium) was sampled and analyzed by conventional methods in situ or send to laboratory.

Sediment Characteristics

Sediment/substrate characteristics was recorded of sediment cover in percentage e.g. mud, sand, rock, boulder and cemented bottom in the stream bed at sampling sites.

Water flow

Water flow rates in river channel were measured by record of travel time of a floating material (e.g. floating ball) in a measured distance.

5 Monitoring Data

5.1 Vegetation

Vegetation growing along the affected stream was surveyed at Upper Tai Po River. About 38 flora species was recorded within the survey transects along the affected stream courses. Most recorded floras were common wetland species. *Microstegium ciliatum* was the common and dominated species in the stream habitats of lower stream section. Most vegetation at upper stream section was cleared in order to construct temporal assess road and new embankment. Generally, the height of the dominated riparian grass and herb species were in a range from 0.4m to 7m. No rare or protected flora species was recorded. Results of vegetation survey and belt transect survey were given in **Table 5-1** and **Table 5-2**. Figure 1-1 to 1-3 shows the transect line for the flora surveys.

5.2 Fauna

5.2.1 Avifauna

Avifauna survey was undertaken along survey transects and at two selected point count locations. In total, 8 species of birds were recorded during bird surveys. Transect and Point Count locations were shown on Figure 1-1 to 1-3. Result of bird survey was presented in the table 5-3

5.2.2 Adult Odonate Survey

Odonate survey was performed and species recorded at Upper Tai Po River were listed in **Table 5-4**. In total, 4 species of dragonfly species were recorded during the surveys in current wet season. The recorded species was common and abundant in Hong Kong (Keith, 2003). Sampling location was shown on **Figure 1-1 to 1-3**.

5.2.3 Hong Kong Newt

Survey of Hong Kong Newt was conducted at Upper Tai Po River. No Hong Kong Newt species was recorded.

5.2.4 Aquatic Macro-invertebrates

Upper Tai Po River was flowing with constant water during survey. Aquaticnet and kick sampling was performed at the stream.

The stream benthos fauna collected was mainly comprised of insects, mollusks and as well as fish. The mollusk fauna of the stream was dominated by snail species of *Sinotaia quadrata* and *Pomacea canaliculata* at the lower river channel. Most area of the affected upper stream section was covered with geotextile sheet. No benthos was collected at the upper stream section. Apparently, stream benthic fauna was temporally de-faunated as a result of engineering works. Details of recorded of stream benthic fauna refers to **Table 5-5**. Sampling location was shown on **Figure 1-1 to 1-3**.

5.2.5 <u>Stream Fish Fauna</u>

Fish surveys were performed at Upper Tai Po River during baseline surveys. In total, 9 species freshwater fish were recorded. Exotic fish such as *Xiphophorus hellerii* was commonly recorded in lower river section. The pelagic fish, *Parazacco spilurus* which have conservation interest, was restricted in the upper section of the surveyed river outside the works boundary where the water was unpolluted. Small number of *Parazacco spilurus* were recorded within the works area at upper stream section as a result of capture survey and as well as engineering works. Generally, most of the recorded fish fauna are common species in Hong Kong. *Parazacco spilurus* is a common freshwater fish species in Hong Kong but it was listed as vulnerable in China Red Data Book (hkbiodiversity website) and some of them were captures and released to an undisturbed upper stream habitat before construction works. The locally rare fish species of Three-lined Chinese Stream Catfish was not recorded at affected stream section during day and night time surveys during both baseline

and impact monitoring periods Details of recorded of fish fauna refers to **Table 5-6.** Sampling location was shown on **Figure 1-1 to 1-3**.

5.3 Abiotic data

Data on water quality and major stream hydrological feature (water flow and substratum) of the stream were collected and given in the Table 5.7.

Generally, the water quality was found polluted at lower stream section mainly due to the domestic sewage discharge from villages. Concentration of nitrate and Ammonia were high (1.32 mg N/L and 0.22 mg N/L respectively) in lower stream section as shown in Table 4-7. DO was generally higher at upper stream section. Salinity was low, and it was indicated that the stream was not affected by tidal effect.

The stream substratum was comprised of over 80% stones or rocks at most of the stream sections with moderate water flow (up to 0.2m/second at pool and 0.6m/second at riffle). Water margin of the lower stream sections was grown with various plants. This type of stream provides preferred habitats for stream fauna including fish and invertebrates. The stream bank at upper stream section was covered with geo-textile sheet to prevent the site run off as part of erosion control measures undertaken. Most vegetation was cleared and it would be planted or recolozised in late stage of the construction period.

6 Comments and Conclusions

Ecological impact monitoring was carried out during July 2009 and relevant biotic and abiotic data was collected according to the project specification and the EM & A Manual. One of the three target freshwater fauna species, i.e., fish *Parazacco spilurus*, was recorded at upper stream section outside the works boundary. The population of the fish was reduced as a result of capture survey and as well as engineering works. The fish was commonly seen in more upper stream courses which would be the source for late re-colonization of the newly built river channel. The locally rare fish species of Three-lined Chinese Stream Catfish and the Hong Kong Newt were not recorded at the affected stream section during day and night time surveys conducted for both baseline and impact monitoring.

Aquatic and riparian vegetation at the lower stream section was similar to those recorded during baseline surveys. However, most vegetation was cleared at upper stream section due to works. Plant plantation along newly built up river banks would be undertaken at late stage of the project.

The water quality in the surveyed stream was generally fair at upper stream section with DO (mg/L) of 6.3, pH 7.28, Nitrate (mg N/L) 0.07, Ammonia (mg N/L) 0.01 and BOD (mg/L) <2. Water quality was become poor at lower stream section due to domestic waste discharged from villages. No significant change in water quality was detected after comparing the results with baseline monitoring data.

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PHOTOS



TABLE

River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River

Ecological Impact Monitoring Programme

11	01	-		
Family	Species name	Species name in Chinese	Oct-07	Jul-09
Euphorbiaceae	Macaranga tanarius	血桐	+	+
Musaceae	Musa paradisiaca	大蕉	+	+
Commelinaceae	Commelina communis	鴨蹠草	+	+
Fabaceae	Pueraria lobata	野葛	+	+
Gramineae	Panicum repens	枯骨草	+	+
Asteraceae	Bidens alba	白花鬼針草	+	+
Araceae	Alocasia odora	海芋	+	+
Araceae	Colocasia esculenta	芋	+	+
Moraceae	Ficus hispida	對葉榕	+	+
Ulmaceae	Celtis sinensis	朴樹	+	+
Athyriaceae	Callipteris esculenta	菜蕨	+	+
Verbenaceae	Lantana camara	馬纓丹	+	+
Sapindaceae	Dimocarpus longan	龍眼	+	+
Solanaceae	Solanum torvum	水茄	+	+
Equisetaceae	Equisetum debile	筆管草	+	+
	Cyclosorus parasiticus	華南毛蕨	+	+
Bombacaceae	Bombax ceiba	木棉	+	+
Lauraceae	Cinnamomum camphora	樟樹	+	+
Myrtaceae	Psidium guajava	番石榴	+	+
Caprifoliaceae	Viburnum odoratissimum	珊瑚樹	+	+
Sapindaceae	Litchi chinensis	荔枝	+	+
Rutaceae	Clausena lansium	黃皮	+	+
Lauraceae	Litsea glutinosa	潺槁樹	+	+
Euphorbiaceae	Glochidion zeylanicum	香港算盤子	+	+
Asteraceae	Ageratum conyzoides	勝紅薊	+	+
Urticaceae	Boehmeria nivea	苧麻	+	+
Convolvulaceae	Ipomoea aquatica	通菜	+	+
Gramineae	Microstegium ciliatum	剛秀竹	++	+
Asteraceae	Mikania micrantha	薇甘菊	++	+
Gramineae	Pennisetum purpureum	象草	+	+
Convolvulaceae	Ipomoea cairica	五爪金龍	+	+
Asteraceae	Synedrella nodiflora	金腰箭	+	+
Gramineae	Coix lacryma-jobi	薏苡	+	+
Amaranthaceae	Alternanthera philoxeroides	空心蓮子草	+	+
Asteraceae	Wedelia chinensis	蟛蜞菊	+	+
Polygonaceae	Polygonum barbatum	毛蓼	+	+
Myıtaceae	Cleistocalyx operculatus	水翁	+	+
Gramineae	Phragmites karka	卡開蘆	+	+

Table 5-1. Flora species recorded at the transect alongthe Upper Tai Po stream including riparian habitat.

Note:

+, occurred; ++, common; +++, abundant

Contract No. DC/2007/06

River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River

Ecological Impact Monitoring Programme

Table 5-2. Flora species recorded from belt transect survey at the Upper Tai Po stream

(T1- Upper stream sampling site and T2 - Lower stream sampling site)

		Stream		Oc	t-07				Jul	-09		
		Transect	Т	'1	Т	2	Con	trol	Т	'1	Т	2
			Height (cm)	%	Height (cm)	%	Height (cm)	%	Height (cm)	%	Height (cm)	%
T. 1	0	<u></u>										
Family	Species	Chinese name										
Asteraceae	Mikania micrantha	薇甘菊	0.4	15	1	40	0.5	5				
Moraceae	Ficus hispida	對葉榕	1	2			5	5			2	10
Ulmaceae	Celtis sinensis	朴樹	5	2							6	15
Gramineae	Microstegium ciliatum	剛秀竹	1.2	45	1.2	30					0.7	30
Euphorbiaceae	Macaranga tanarius	血桐	2	2			5	5	3	5	1.5	5
Araceae	Alocasia odora	海芋	1.5	23							2	30
Araceae	Colocasia esculenta	芋	0.3	<1	0.4	<1	0.3	2	0.8	5		
Myrtaceae	Cleistocalyx operculatus	水翁					0.4	10	7	5		
Athyriaceae	Callipteris esculenta	菜蕨			0.6	1	0.8	10			0.4	2
Gramineae	Phragmites karka	卡開蘆					1.5	51				
Thelypteridaceae	Cyclosorus parasiticus	華南毛蕨	0.4	10							0.4	2
Equisetaceae	Equisetum debile	筆管草			0.6	<1	0.3	2				
Asteraceae	Ageratum conyzoides	勝紅薊							0.4	2		
Gramineae	Eleusine indica	牛筋草							0.5	5		
Bare Gound								10		78		6

Table 5-3 Avifauna recorded along survey transects and at two selected point count locations for Upper Tai Po River. (PC1- Upper stream section and PC2- Lower stream section)

					Oct-07			Jul-09		
Common Name	on Name Species name Species nameStatus	Common	Abundance			Abundance				
				-ness	Т	PC1	PC2	Т	PC1	PC2
Black Kite	Milvus lineatus	麻鷹	R	С	+					
Black -crown Night Heron	Nycticorax nyxticorax	夜鷺	R	U						
Black-necked Starling	Sturnus nigricollis	黑領椋鳥	R	С	+	1	1			
Chinese Bulbul	Pycnonotus sinensis	白頭鵯	R	С	+	3	2	++	4	7
Chinese Pond Heron	Ardeola bacchus	池鷺	R	С	+			+	2	3
Common Kingfisher	Alcedo atthis	普通翠鳥	R	С	+					
Common Koel	Eudynamys scolopacea	噪鳥	R	С	+					
Common Sandpiper	Actitis hypoleucos	磯鷸	WV&PM	С	+					
Common Tailorbird	Orthotomus sutorius	長尾縫葉鶯	R	С	+		1	+		1
Crested Myna	Acridotheres cristatellus	八哥	R	С		1				
Domestic pigeon	Columba sp.	合鳥				3				
Great Coucal	Centropus sinensis	褐翅鴉鵑	R	С	+	1				
Grey Wagtail	Motacilla cinerea	灰鶺鴒	WV	С						
Japanese White Eye	Zosterops japonica(simplex)	暗綠繡眼鳥	R	С		2		+	1	4
Little Egret	Egretta garzetta	小白鷺	R	С	+			+		1
Rufous-backed Shrike	Lanius schach	棕背伯勞	R	С						
Magpie	Pica pica	喜鵲	R	С		1				
Magpie Robin	Copsychus saularis	鵲鴝	R	С	+	1	1	+	1	3
Olive Backed pipit	Anthus hodgsoni	樹鷚	WV	С	+					
Crested bulbul (Red-whiskered	Pycnonotus jocosus	紅耳鵯	R	С	+	2		++	2	6
Spotted Dove	Streptopelia chinensis	珠頸斑鳩	R	С	+		2	+	1	3
Spotted Munia	Lonchura punctulata	斑文鳥	R	U						
Tree Sparrow	Passer montanus	麻鵲	R	С	+	3	2			
Violet Whistling Thrush	Myiophoneus caeruleus	紫嘯鶇	R	С	+					
White Wagtail	Motacilla alba	白鶺鴒	WV	С	+		1			
White-breasted Waterhen	Amaurornis phoenicurus	白胸苦惡鳥	R	С	+					
Yellow Bellid Prinia	Prinia flaviventris	灰頭鷦鶯	R	С	+					
Yellow Wagtail	Motacilla flava	黃鶺鴒	WV&PM	U		1				
Little Swift	Apus affinis	小白腰雨燕	R, SpM	С						
Green Sandpiper	Tringa ochropus	白腰草鷸	WV	U						
Barn Swallow	Hirundo rustica	家燕	PM	С						
Great Tit	Parus major (commixtus)	大山雀	R	С						
Number of birds									11	28
No. of species								8	6	8

Note: R - Resident; WV - Winter visitor; PM - Passage migrant; C - Common; U - Uncommon

SpM – Spring migrant; T – transect count; PC1 – Point count location 1; PC2 – Point count location 2

Contract No. DC/2007/06

River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River

Ecological Impact Monitoring Programme

Species	Common name	Chinese name	Status	Commonness	Oct-07	Jul-09
Orthetrum chrysis	Red-faced Skimmer	華麗灰蜻	NP	VC		+
Crocothemis servilia servilia	Crimson Darter	红蜻	NP	VC	+	+
Copera marginipes	Yellow Featherlegs	黃狹扇蟌	NP	VC		
Prodasineura autumnalis	Black Threadtail	烏齒原蟌	NP	VC		
Trithemis festiva	Indigo Dropwing	慶褐蜻	NP	VC		
Neurobasis chinensis	Chinese Greenwing	華艷色蟌	NP	С		
Rhinocypha perforata	Common Blue Jewel	三斑鼻蟌	NP	VC		
Panta <u>l</u> a flavescens	Wandering Glider	黃蜻	NP	VC	+	+
Orthetrum glaucum	Common blue skimmer	黑尾灰蜻	NP	VC	+	+
Trithemis Aurora	Crimson dropwing	曉褐蜻	NP	VC	+	

Table 5-4. Odonate species recorded at the Upper Tai Po stream

Note: NP – Not protected in Hong Kong

"VC" – Very Common; "UC" – Uncommon; "C" - Common

"+" – Species exists in the survey site

"++" – Species common in the survey site

"+++" – Species abundance in the survey site

River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River

Ecological Impact Monitoring Programme

Species	Chinese name			Oc	t-07	Jul-09			
Invertebrates		Sampli	ng point	T1	T1 T2		T1	T2	
Pomacea canaliculata	蘋果螺	NP	VC			Reference +		++	
Melanoides tuberculat	瘤擬黑螺	NP	VC			+	+	+	
Radix plicatulus	羅白螺	NP	VC		++			+	
Biomphalaria sp.		NP	VC		+			+	
Brotia hainanensis		NP	VC	++	+	++			
Sinotaia quadrata	田螺	NP	VC				+	++	
Indobaetis sp.		NP	VC	+		+			
Baetis sp.		NP	VC	+		+			
Chironomus sp.	蠓幼虫	NP	VC	+	+	+			
Mnais sp.		NP	VC		+	+			
Orthetrum sp.		NP	VC	+	+	+			
Crustacea									
Macrobrachium haina	海南沼蝦	NP	VC			+			
	廣東米蝦	NP	VC			+			
Cryptopotamon anacol	鰓刺溪蟹	NP	С			+			
Fish									
Gambusia affinis	食蚊魚	NP	VC	+	+		+	+	
Poecilia reticulata	孔雀花魚將	NP	VC	+	+			+	
Schistura fasciolata	橫紋南鰍	NP	С			+	+		
Rhinogobius spp.	鰕虎魚	NP	С			+		+	

Table 5-5 Aquatic Macro invertebrates recorded at Upper Tai Po River
(T1- Upper stream sampling site and T2- Lower stream sampling site)

Note: NP - Not protected in Hong Kong

"VC" - Very Common; "UC" - Uncommon; "C" - Common

"+" - Species exists in the survey site

"++" – Species common in the survey site +++ – species abundance in the survey

cite Reference point was the sampling location outside the works area used to compare the with the data within works area.

Contract No. DC/2007/06

River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River

Ecological Impact Monitoring Programme

				Oc	t-09		Jul-09	
Species		Status	Commonness	T1	T2	Reference	T1	T2
Xiphophorus hellerii	劍尾魚	NP	С	++		+	+	++
Puntius semifasciolatus	七星魚	NP	С	+		+	+	+
Poecilia reticulata	孔雀花魚將	NP	С	++	+			+
Pseudogastromyzon myersi	麥氏擬腹吸鰍	NP	С	+		+		
Gambusia affinis	食蚊魚	NP	VC	+	++		+	+
Xiphophorus variatus	雜色劍尾魚	NP	С	+				
Parazacco spilurus	異鱲	V and NP	С	++		+		
Rhinogobius spp.	鰕虎魚	NP	С	+		+		
Schistura fasciolata	橫紋南鰍	NP	С	+		+	+	
Sarotherodon massambicus	非洲鯽	NP	С	+				
Misgurnus anguilicaudatus	泥鰍	NP				+		
		2x2m fis	h number			10	20	100

Table 5-6 Fish species recorded at Upper Tai Po River (T1- Upper stream sampling site and T2- Lower stream sampling sit

Note: NP – Not protected in Hong Kong

"VC" – Very Common; "UC" – Uncommon; "C" - Common

"+" – Species exists in the survey site

"++" – Species common in the survey site

"+++" – Species abundance in the survey site

V – Listed as vulnerable in China Fish Red Data Book

Reference point was the sampling location outside the works area used to compare the with the data within works area.

Contract No. DC/2007/06

River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River

Ecological Impact Monitoring Programme

Table 5-7 Abotic data for Upper Tai Po River (T1- Upper stream sampling site and T2- Lower stream sampling site)

Stream	Oct-07	Jul	-09
Replicate	T1	T1	T2
DO (mg/L)	8.2	6.3	6
рН	6.9	7.28	6.96
Nitrate (mg N/L)	0.39	0.07	1.32
PO4-P (µg P/L)	<100	0.01	0.22
Salinity (ppt)	<0.1	0	0
Conductivity (mS/cm)	0.04	34	118
BOD (mg/L)	<2	<2	<2
Water flow at pool	0.01-0.2	0.01	-0.2
Water flow at riffle	0.2-0.5	0.2	-0.5
Sand (%)	15	15	25
Stone (%)	80	80	70
Mud (%)	5	5	5

FIGURE

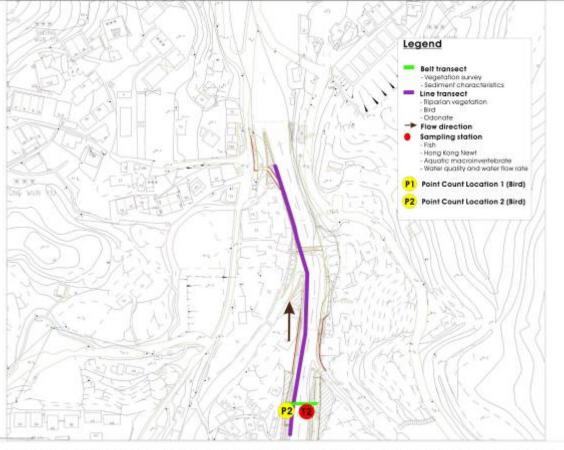
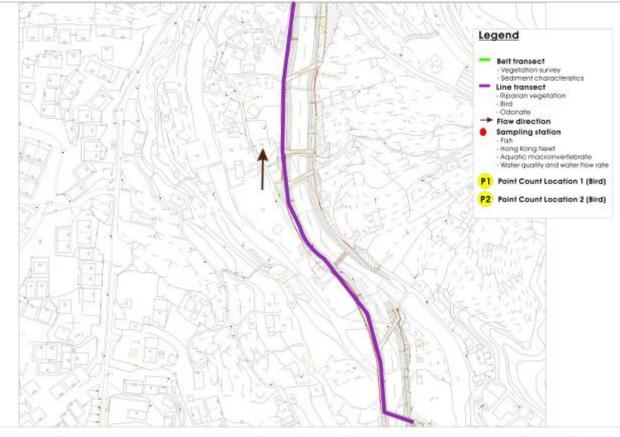


Figure 1-1. Sampling location of impact monitoring at Upper Tai Po River(Lower Section)





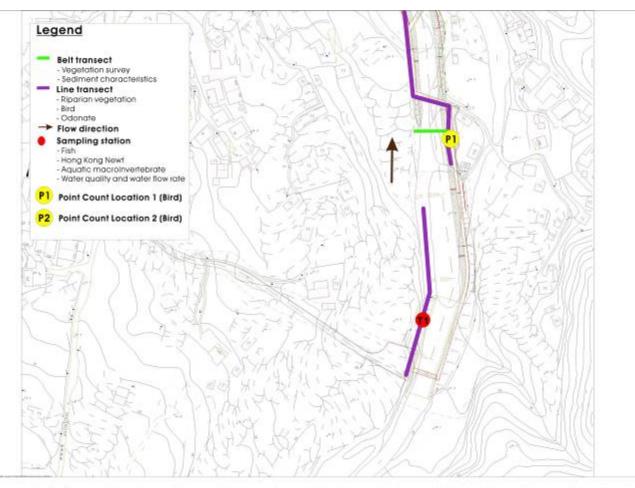


Figure 1-3. Sampling location of Impact monitoring at Upper Tai Po River(Upper Section)

River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River Impact monitoring Survey Report – Response to comments

Contract No. DC/2007/06 River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River Ecological Baseline Monitoring Report – Response to Comments October 2009

(Draft, by Dr. Mark Shea / China-Hong Kong Ecology Consultants)

	Comments from IEC.					
No.	Report section	IEC's Comment	Responses			
1.)	Appendix j,	It is stated no works was conducted during	The paragraph in section 6			
	Section 3	the monitoring period in section 3 of	was amended to avoid			
		Appendix J. Yet in section 6 of Appendix J,	confusing.			
		it is reported that sediment level has				
		increased due to works observed during field				
		survey. As also report in section 2.5 of the				
		main text of the report, works in river should				
		have been suspended during the reporting				
		month. Please ensure the sections are				
		consistent.				
2.)	Appendix j,	It is concluded that the concentration of	It was based on visual			
	Section 6	sediment in water has increased in the survey	observation of the water			
		stream. Please explain the basis of this	color. The paragraph in			
		conclusion, as the level of suspended solids	section 6 was amended to			
		in the water was not tested.	avoid confusing.			
3.)	Appendix j,	Only monitoring data from July 2009 were	The results of the pervious			
	table	presented in the tables. It is recommended to	monitoring and baseline			
		provide data from the pervious monitoring/	survey were included in			
		baseline monitoring as well for easy	the data for easy			
	comparison and referencing		comparison and			
			referencing			

end