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 February 2010

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

Chiu Hing Construction & Transportation Co., Ltd

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Report submission and revision: First submission on 08th March 2010

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Second submission on 20th March 2010

TABLE OF CONTENTS

TABLE OF CONTENTS	3
Executive summary	4
1.0 Introduction	6
2.0 Environmental status	6
2.1 Project area	6
2.2 Construction programme	6
2.3 Proposed construction sequences	7
2.4 Construction activities for the reporting period	9
2.5 Construction activities for the next reporting period	9
2.6 Non-compliance with the environmental performance limits	9
2.7 Summary of complaints	9
3.0 Ecological monitoring results	9
4.0 Noise monitoring results	10
5.0 Vibration monitoring results	11
6.0 Environmental issues and actions	11
6.1 Site inspections and key environmental issues	11
6.2 Non-compliance	13
6.3 Recommendations	13
6.4 Implementation status and effectiveness of the mitigation measures	13
7.0 Waste management status	14
8.0 Status of environmental licensing and permit	14
9.0 Future key issues	15
10.0 Conclusion	16
Appendix A: Event and action plan for ecology	17
Appendix B: Action and limit level for construction noise	20
Appendix C: Reference standards for vibration	22
Appendix D: Noise monitoring results, graphical plots and location plan	24
Appendix E: Monitoring schedule for the present and next reporting period	36
Appendix F: Cumulative complaint log	39
Appendix G: Implementation status of environmental protection and mitigation	
measures	40
Appendix H: Cumulative waste flow table	44
Appendix I: Construction programme	45
Appendix J: Complaint Log and Investigation Report	60
Appendix K: Ecological Impact Monitoring Report	67

Executive summary

This is the eighteenth 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 February 2010 to 28th February 2010. The major site activities in this reporting month were mainly site access formation, boulder breaking works, construction of footbridges and provision of drain-off pipes for the boulder trap.

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 was conducted on 27th January 2010 by the ecologist Dr. Mark Shea. For details of the findings please refer to the ecological impact monitoring report shown in 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 by ET 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 a formal complaint recorded on 6th February 2010 regarding the

construction noise generated from late works in Upper Tai Po River. For further details of the complaint please refer to Section 2.7 and Appendix J.

There was no reporting change for this month.

Site works proposed to be carried out in the upcoming month will include formation of haul access, construction of footbridge, retaining wall, gabion wall and provision of drain-off pipes in the boulder trap.

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 eighteenth 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 February 2010. 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 Eighteenth Monthly Report

Fig 2.1 Layout of construction area



2.4 Construction activities for the reporting period

Major construction activities carried out by the contractor during the reporting month include:

- (1) Haul access formation
- (2) Boulder breaking works
- (3) Construction of footbridges
- (4) Provision of drain-off pipes in the boulder trap

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) Provision of drain-off pipes in the boulder trap
- (3) Construction of footbridge and retaining wall
- (4) Construction of gabion wall at upstream

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 a formal complaint received from ICC on 6th February 2010 regarding the construction noise generated from late works in Upper Tai Po River. ET has prepared a complaint log and report and those are attached in Appendix J for information. Totally, five 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 27th January 2010. Details of findings please refer to the ecological impact monitoring report shown in the Appendix J.

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 5th, 12th, 19th and 26th February 2010. Measured $L_{eq (30min)}$ results ranged from 50.3dB(A) to 74.2dB(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 start in Upper Tai Po River.

6.0 Environmental issues and actions

6.1 Site inspections and key environmental issues

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 and 22nd February 2010. 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 3rd, 10th, 17th and 22nd February 2010. Details of findings were summarized in Table 6.2.

Table 6.1 Summar	v results o	of site	inspections	findings
	, icourto c		mopeetions	manigo

Date	Findings	Identification	Advice from ET	Action taken	Closing date	Remarks
02 Dec 09	Damaged backhoe was	Observation	Contractor was advised to	The damaged backhoe has	10 Feb 2010	
	located at haul access D.		remove the concerned site	been removed from site prior		
	Also, functional site		equipment to prevent oil	to the inspection on 10 Feb		
	equipments were found to		leakage to the surrounding area			
	be leaking oil		and provide maintenance to			
			prevent potential oil leakage			
03 Feb 10	Oil spillage due to fuelling to	Observation	Contractor was advised to	Contractor took the advice and	10 Feb 2010	
	the backhoe stained the soil		implement proper preventive	collect the contaminated soil		
	of haul access at ch.50		measures to avoid oil spillage	prior to the inspection on		
			from fuelling. Also,	10 Feb		
			contaminated soil should be			
			collected and handled as			
			chemical waste for storage and			
			disposal			
10 Feb 2010	No particular observation	N/A	N/A	N/A	N/A	N/A
17 Feb 2010	No particular observation	N/A	N/A	N/A	N/A	N/A
22 Feb 2010	Site water discharged from	Observation	To maintain treatment	To be followed in the next	Ongoing	
	de-silting tank at ch.50 was		effectiveness, Contractor was	period		
	observed to be turbid		advised to clean up the			
			de-silting tank regularly.			

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

Table 6.2 Summary results of ecological site inspection findings									
Date	Observations	Advice from	Action Taken	Closing					
		Ecologist		Date					
03 Feb	No Major findings for this	No Advice is	No Action is required to	N/A					
2010	inspection	required	be taken						
10 Feb	No Major findings for this	No Advice is	No Action is required to	N/A					
2010	inspection	required	be taken						
17 Feb	No Major findings for this	No Advice is	No Action is required to	N/A					
2010	inspection	required	be taken						
22 Feb	No Major findings for this	No Advice is	No Action is required to	N/A					
2010	inspection	required	be taken						

6.2 Non-compliance

There was no non-compliance recorded for the month of February 2010.

6.3 Recommendations

Contractor was reminded for the issue of oil and chemical spillage on site. In order to prevent oil leakage from causing contamination to the surrounding area, on-site maintenance should be prevented as far as practicable. Protective measures such as drip pan and/or absorbing materials should be provided for refueling to the equipments. On-site storage of fuels and chemicals should be prevented otherwise secondary containment of drip pan should be provide to avoid chemical spillage to the site ground and/or water bodies.

Advice on site water treatment was also to the Contractor. Regular maintenance and cleaning should be provided to all site water treatment facilities as to maintain their effectiveness. Also, contractor should be cautious on the amount of site water generated as to ensure sufficient treatment facilities were provided.

6.4 Implementation status and effectiveness of the mitigation measures

Refer the previous table 6.1, contractor has implemented mitigation measures to address those problems as advised by ER, IEC and ET. Some of the measures taken by the contractor were considered as effective to minimize negative impact to the environment. Ongoing investigation will be carried out to observe performance and effectiveness of those measures. Outstanding environmental items will be inspected in the follow month.

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

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
February 2010	0	0	0

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	Superseded
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, construction of footbridge, retaining wall, gabion wall and provision of drain-off pipes in the boulder trap. 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 and boulder breaking may generate dust impact to the vicinity of sensitive receivers. Contractor is advised to provide sufficient water spraying for the dusty static area. Stockpiling may be found on site and those should be covered with tarpaulin sheets 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 boulder breaking works, during the course of construction of retaining wall and gabion wall, 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 temporary 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

Site preparation works including site access formation, boulder breaking, construction of footbridges and drain-off pipes were carried out during the reporting period.

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 27th January 2010 and the ecological impact monitoring report was attached in Appendix J.

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

A formal complaint regarding noise pollution was recorded in this reporting month. The complaint was logged and detailed complaint log and investigation report were shown in Appendix K.

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.

Front	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	50.8	64.3	61.5	5 Eeb 10	10.56 11.26	The measured noise level was dominated by the background noise in the immediate	Background noice from traffic	Cloudy	Façade
	50.8	04.5	01.5	5-1-0-10	10.30-11.20	vicinity of the monitoring location due to its large distance from the construction activities	Background noise noin traine	Cloudy	
UTP 2	50.4	50.6	57.0	5 Eeb 10	11.30 12.00	The measured noise level was dominated by the background noise in the immediate	Background noise from traffic	Cloudy	Façade
	50.4	39.0	51.9	5-1-05-10	11.30-12.00	vicinity of the monitoring location due to its large distance from the construction activities	Background noise noin frame	Cloudy	
UTP 3	40.5	60.3	57.0	5 Eeb 10	15:45 16:15	The measured noise level was dominated by the background noise in the immediate		Cloudy	Façade
	49.5	00.5	57.0	5-1-05-10	15.45-10.15	vicinity of the monitoring location due to its large distance from the construction activities	INA	Cloudy	
UTP 4	40.2	62.2	58.0	5 Eab 10	15.12 15.42	The measured noise level was dominated by the background noise in the immediate		Cloudy	Façade
	49.2	02.2	50.9	5-1-0-10	15.12-15.42	vicinity of the monitoring location due to its large distance from the construction activities	INTA	Cloudy	
UTP 5	50.5	59 5	57.5	5-Feb-10	14.38-15.08	Boulder movement works by Backhoe	N\A	Cloudy	Façade
		5515	5715	0 100 10	1 100 10100			croudy	
UTP 6	51.5	62.1	60.4	5-Feb-10	14:04-14:34	Boulder movement works by Backhoe	N\A	Cloudy	Façade
UTP 7	44.5	63.9	63.9	5-Feb-10	13:32-14:02	Noise from equipment installation	N\A	Cloudy	Façade
LITD 8									Facada
011 8	46.8	51.3	52.5	5-Feb-10	13:00-13:30	No construction was being carried out during measurement	N\A	Cloudy	Paçade
UTP 9			#0. f					~ .	Façade
	46.4	59.5	58.6	5-Feb-10	10:15-10:45	No construction was being carried out during measurement	N\A	Cloudy	
UTP 10	41.6	53.0	51.7	5 Eeb 10	00.38 10.08	Pamoval of broken backhoe at haul access D		Cloudy	Façade
	41.0	33.2	51.7	5-1-00-10	09.30-10.08		11/74	Cloudy	
UTP 11	46.1	57.3	56.6	5-Feb-10	09:05-09:35	Removal of broken backhoe at haul access D	N\A	Cloudy	*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	18.8	69.0	66.3	12-Eeb-10	09.26-09.56	The measured noise level was dominated by the background noise in the immediate	NI\ A	Cloudy	Façade	
	40.0	09.0	00.5	12-100-10	09.20-09.30	vicinity of the monitoring location due to its large distance from the construction activities		Cloudy		
UTP 2	16.1	64.0	61.2	12 Eab 10	08.50 00.20	The measured noise level was dominated by the background noise in the immediate		Claudy	Façade	
	40.4	04.0	01.2	12-1-60-10	08.30-09.20	vicinity of the monitoring location due to its large distance from the construction activities	INVA	Cloudy		
UTP 3	40.0	516	527	12 Eab 10	10.02 10.22	The measured noise level was dominated by the background noise in the immediate		Claudy	Façade	
	42.0	34.0	55.7	12-Feb-10	10:02-10:52	vicinity of the monitoring location due to its large distance from the construction activities	INVA	Cloudy		
UTP 4	44.0	57.0	55.2	12 E-1 10	10.26 11.06	The measured noise level was dominated by the background noise in the immediate		Clauda	Façade	
	44.0	57.0	33.3	12-Feb-10	10:30-11:00	vicinity of the monitoring location due to its large distance from the construction activities	N\A	Cloudy		
UTP 5	46.0	55.0	55 1	12 E-1 10	11.11 11.41	The measured noise level was dominated by the background noise in the immediate		Clauda	Façade	
	40.9	33.2	33.1	12-Feb-10	11:11-11:41	vicinity of the monitoring location due to its large distance from the construction activities	INVA	Cloudy		
UTP 6	44.1	50.0	50.0	12 5 1 10	12 00 12 20	The measured noise level was dominated by the background noise in the immediate	ND 4	<i>C</i> 1 1	Façade	
	44.1	50.8	50.6 12-	12-Feb-10	12-100-10	13:00-13:30	vicinity of the monitoring location due to its large distance from the construction activities	IN\A	Cloudy	
UTP 7	45.0	51.0	51.0	12 5 1 10	12 22 14 02	The measured noise level was dominated by the background noise in the immediate	ND 4	<i>C</i> 1 1	Façade	
	45.0	51.9	51.0	12-Feb-10	13:32-14:02	vicinity of the monitoring location due to its large distance from the construction activities	IN\A	Cloudy		
UTP 8	40.1	55.0	54.0	12 5 1 10	14.05.14.25	The measured noise level was dominated by the background noise in the immediate	ND 4	<i>C</i> 1 1	Façade	
	49.1	55.0	54.0	12-Feb-10	14:05-14:35	vicinity of the monitoring location due to its large distance from the construction activities	IN\A	Cloudy		
UTP 9	18.3	50.4	57.3	12 Eeb 10	14:40 15:10	Operation of backhoe at boulder tran		Cloudy	Façade	
	40.5	39.4	51.5	12-100-10	14.40-13.10		INA	Cloudy		
UTP 10	47.3	61.3	59.4	12-Feb-10	15:13-15:43	Operation of backhoe at boulder trap	N\A	Cloudy	Façade	
UTP 11	45.0	56.6	56.9	12-Feb-10	15:46-16:16	The measured noise level was dominated by the background noise in the immediate	N\A	Cloudy	*Free field	
						vicinity of the monitoring location due to its large distance from the construction activities				

Location	L ₉₀	L ₁₀	Leq	Date	Time	Major Construction Noise	Other Noise source	Weather	Location
	30min	30min	30min		Duration				description
UTP 1	44.0	61.4	58.8	19-Feb-10	10:50-11:20	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	Background noise from traffic	Cloudy	Façade
UTP 2	41.4	52.9	52.7	19-Feb-10	15:44-16:14	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	N\A	Cloudy	Façade
UTP 3	42.3	51.4	50.8	19-Feb-10	16:18-16:48	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	N\A	Cloudy	Façade
UTP 4	44.3	57.0	56.7	19-Feb-10	15:10-15:40	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	N\A	Cloudy	Façade
UTP 5	43.4	58.9	57.4	19-Feb-10	14:38-15:08	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	N\A	Cloudy	Façade
UTP 6	42.4	53.5	53.8	19-Feb-10	14:06-14:36	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	N\A	Cloudy	Façade
UTP 7	49.2	51.0	51.1	19-Feb-10	13:33-14:03	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	N\A	Cloudy	Façade
UTP 8	43.5	54.2	54.0	19-Feb-10	13:00-13:30	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	N\A	Cloudy	Façade
UTP 9	41.7	51.3	50.6	19-Feb-10	09:24-09:54	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	N\A	Cloudy	Façade
UTP 10	46.0	60.4	60.7	19-Feb-10	08:50-09:20	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	N\A	Cloudy	Façade
UTP 11	44.0	61.4	58.8	19-Feb-10	10:50-11:20	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	Background noise from traffic	Cloudy	*Free field

Location	L ₉₀ 30min	L ₁₀ 30min	Leq 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	46.3	64.5	63.4	26-Feb-10	11:23-11:53	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	Background noise from traffic	Sunny	Façade
UTP 2	40.3	59.4	58.7	26-Feb-10	10:48-11:18	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	Background noise from traffic	Sunny	Façade
UTP 3	42.6	53.0	51.6	26-Feb-10	15:44-16:14	Boulder breaking	N\A	Sunny	Façade
UTP 4	50.9	56.7	54.9	26-Feb-10	15:11-15:41	Boulder breaking	N\A	Sunny	Façade
UTP 5	50.5	79.0	74.2	26-Feb-10	14:39-15:09	Boulder breaking	N\A	Sunny	Façade
UTP 6	41.7	60.2	60.8	26-Feb-10	14:05-14:35	Boulder breaking	N\A	Sunny	Façade
UTP 7	42.2	53.8	53.4	26-Feb-10	13:32-14:02	Boulder breaking	N\A	Sunny	Façade
UTP 8	47.3	52.9	50.3	26-Feb-10	13:00-13:30	Boulder breaking	N\A	Sunny	Façade
UTP 9	41.6	53.5	51.2	26-Feb-10	10:10-10:40	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	N\A	Sunny	Façade
UTP 10	43.3	51.6	51.4	26-Feb-10	09:33-10:03	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	N\A	Sunny	Façade
UTP 11	44.1	55.8	56.0	26-Feb-10	09:00-09:30	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	N\A	Suuny	*Free field

Graphical plot for noise measurements

The followings were the graphical plots for the 11 monitoring locations. Each plot showed the date of measurement taken, day time limit of 75 dB(A) as well as the measured daytime level for each location. The graphs contain the data recorded from November 2009 to February 2010.























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



Appendix E: Monitoring schedule for the present and next reporting period
Master Schedule	of EM&A	works in	February	2010
maotor oomoaano				

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	01/02	02/02	03/02	04/02	05/02	06/02
			Site inspection at afternoon		Noise monitoring	
07/02	08/02	09/02	10/02	11/02	12/02	13/02
			Site inspection at afternoon		Noise monitoring	
14/02	15/02	16/02	17/02	18/02	19/02	20/02
			Site inspection at afternoon		Noise monitoring	
21/02	22/02	23/02	24/02	25/02	26/02	27/02
	Site inspection and SSEMC at morning				Noise monitoring	
28/02						

Master Schedule of EM&A works in March 2010

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	01/03	02/03	03/03	04/03	05/03	06/03
			Site inspection at afternoon		Noise monitoring	
07/03	08/03	09/03	10/03	11/03	12/03	13/03
			Site inspection at afternoon		Noise monitoring	
14/03	15/03	16/03	17/03	18/03	19/03	20/03
			Site inspection at afternoon		Noise monitoring	
21/03	22/03	23/03	24/03	25/03	26/03	27/03
			Site inspection and SSEMC at morning		Noise monitoring	
28/03	29/03	30/03	31/03			
			Site inspection at afternoon			

Appendix F: Cumulative complaint log

Environmental	Cumulative no.	No. of complaint	Overall Total
Parameters	Brought forward	February 2010	
Air/Dust	1	0	1
Noise	1	1	2
Water	2	0	2
House Keeping	0	0	0
Hygiene			
Chemical waste	0	0	0
Total	4	1	5

* 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	No percussive piling shall be carried out	Implemented	Not required
Noise			
	-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,	Implemented	Not required
	shall be installed		
Fugitive Dust	-Implement regular watering and vehicle washing facilities	Implemented	Not required
Emission			
	-Cover excavated or stockpile of dusty material by impervious sheeting	Implemented	Not required
	or sprayed with water		
	-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	Implemented	Not required
	towards regularly cleaned and maintained silt traps and oil / grease		
	separators to minimize leakage and loss of sediments during excavation		
	Large boulders removed from the Tai Po River within the Project during	Implemented	Not required
	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		
	The excavation area shall be enclosed with bunds or barriers and	Implemented	Rectified
	dewatered prior to excavation to minimize the impacts upon the		
	downstream of the Tai Po River		

Implementation status of environmental protection and mitigation

	Provide silt trap and oil interceptor to remove the oil, lubricants, grease,	Implemented	Not required
	silt, grit and debris from the wastewater before pumped to the public		
	storm water drainage system		
	Provide site toilet facilities	Implemented	Not required
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		

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

1 1 2	e ,		
Environmental	Protection / Mitigation Measures	Implementation status	Follow-up
Aspect			action
Ecology	Large boulders will be returned to the riverbed	Not applicable	Not
	following the excavation works.		required
	Construction works from Ch. 0.0m - Ch. 150m would	Not applicable	Not
	be along one side of the river only		required
	Approximately 150m of the existing natural riverbank	Implemented	Not
	on 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,		required
	and 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	Capture surveys had been conducted at the	Not
	River before commencement of works. The captured	beginning of the Contract, during the wet	required
	target species shall be relocated to areas of the	season July/August 2008, 4th November	
	watercourse upstream of the watercourse upstream of	2008 and 27 th , 28 th October 2009	
	the Tai Po River		
	Temporary noise barriers should be constructed to	Implemented	Not
	control noise impacts to habitats and associated		required
	wildlife within and adjacent to the proposed works area		
	Excavation works shall be carried out by land based	Implemented	Not
	plant 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		required
	channel 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		required
	maintenance 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
July 2009	0	0	0
August 2009	0	0	0
September 2009	0	0	0
October 2009	0.9m ³	0	0
November 2009	0	0	0
December 2009	0	0	0
January 2010	0	0	0
February 2010	0	0	0
Total	36.9m ³	2 tonnes	20kg

Cumulative waste flow table since 15th September 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

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11. AECON Teek Propress Milestone Roled Lp Critics Task (Revised M. Prog (Rev ()B)	188k		Crucal Lask - Tograss		ET QU DELION			Roled Up Progress		P1894		•
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1241	Stripping off to Formwork and	xmwark (wal stam) rebar /iding (wat stam)			2d 14	12/2010 1:	2/12/2013	11/-22010 13/12/2010	12/12/2010 22/12/2010						2
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1251 Gable	Ton Ich 316-33	l earcreting a LHS: 7G2 (replaced A	, igi		55 0 24	12/2013	11020152	1:2/2010	5/2/2010 25/1/2011		••••	1			
1253	Trench excava	ution and replacing grade	- 200		404	12/2010	10/1/2011	2/12/2010	10/1/2011			đ			
1255	1el leyer - 5th	Japan wat with 5200 layer (ch 315-330 LHS;			100	11/2011	12/1/2011	1102/111	22/1/2011			*d		÷	
1256	Groot tog in the Indian Watel Joh	ont of gabon Are then deuse fits free	interestion data	· · · ·	N PE	TIDZ/1/2	Z5/1/2011	LIEZITEZ	1-02-1-02 0-044-0-046			[•] - B			
1258	Bulk excertain			-	10	11/2010 2	011/2012	11-12010	2011-72010			3			
1259	Formetion	dela ased been there			54 21	1112010 2	5/11/2010	21/11/2010	25/11/2010						
12101	Concreting (ba	i (des stab) 150 stab)		•	g đ j Đ j Đ	12/2010 1	012/2010	B/12/2010	1012/2010						1
1262	Stripping off fo	ormwork (well about) (solver 0.4445 0.441 etcm)			24 .1	12/2010 1	2/12/2010	11/12/2013	12:12:2010			4			
1284	Concreting (we	a recent tuaring (well brent) B(I 5/617)			2d: 23	12/2010 2	412/2010	23/12/2010	24/12/2010			وري			
1285	Shipping of fo	armatek (wall starr) Mae Socketter TB 4 (s)			34 25	n22010 2	7/12/2010	25/12/2010	27:12:2010		•••	••	•••	•••	
	International and the second s	king rootongge te-a (d rks			124 1	11:2013 1	2112010	111-020-01	12/11/2010		•••	Þ	••		
1268 Foot	thridge TB04 ((oct +10)			P12	112/2010 1	6112/2010	112/2010	18/12/2010						
1268	Bulk excevetion	on for facting (Abutment / Without A	*		00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1:2/2010	10/2/2010	11/2/2010	10/2/2010			4			
1271	Formwork and	I reber fixing (Abumeni A	4 tooling)		- 41	7/2/2010	16/2:2010	0102/221	0+02/2/9L	•		++			
1272	Concreting (Al	butment A. (sound)			, r , r , r	7/2/2010	17/2/2010	17/2/2510	17/2/2010			.*.			
1274	Reber fixing Su	nd shuttering formwork ()	Abrimeni A, columni)		200	1/2/2010	25/2/2010	Z1/2/2010.	252/2010			њ.) 	i.		
1275	Concreting (A)	buttment A solumn)	1		- 4 - 4 - 4	0102010	26/2/2010	26/2/2010	26-2/2010						
1277	Bulk succession	orreaders (acounted a, od In far fooling (Albumien) B	B)		100	5/2/2010	24/2/2010	15/2/2013	24/2/2010	••••		t			2
1279	Formericon - AL	burneri B			9 4 7 - 7	DMOZIZIS	25/2/2010	25/2010	Z5/22010		•••				
	Concreting (At	d rabar florig (Abubmerri b bubrarit B. fooling)	B, haobraj		4 4 4 4	01022010	0102/010	26/2/2010	2/3/2010			at a			8
1881	Shipping of R	ommork (Apumence B, Po	(ching)		E.	4/3/2013	0102/209	4/3/20*0	B/12010						
282L	Concreting (Al	butment B, column)	(ασυστατέ Β', ασύπτα)		10	2/3/2010	12/3/2010	12/3/2010	12/2/2010			÷+		8	
1284	Supping off	or mosts (Abumeni B, co	DAMIN)		500	01025%	15/2/2010	D102/2/E1	OFDEVERS						
1285	Concreting (du	a recent azing saratzang eckingi	_		20 G	0,0211	012/2010	21/11/2010	0102/21/01			* *			
1287	Stripping off fu	Grimwark (Gedving) ston (decklas)			DE DE	dingen	13/12/2010	10/12/2010	12/12/2010 - 6/12/2010			<u>م</u>		C	
1289 CM 390-3	DSI	With the second second			372 d.	6/2/2010	14/2/2011	8/2/2010	1102/2011						111
1290 040	Tranch ancaw	45 LHS TG2 (mplaced u atten and replaced grade	AD1) 6 200			V12/2010	25112011	2/12/2010	251/2011	0.0	••••	-d			0
1292	Formation of 1	gabian wall with G230	!			11/22011	12/12/11	110/01/11	12(1)2011		•••	مبرد			1
1294	GOOD fate in th	ant of gabien			Pe	11/2011	25/12011	23/1/2011	25'1/201*			t.			
1295 Step	p 4 (ah 345) (1. Common				1 1 1 1 1	1/2/2011	1102/2011	1/2/2011	14(2/2011				10		
1297	FOTT-NON BIO	d reber li≭•vg				4/2/201	1132/2/6	1-02/2/4	9/2/2011		••••	*#			
9621 9621	Concruiting				E C C	100101	11/2/2011	10/2/2011	11/2/2011			. * .		10	
1235 Reta	to Braddure	h 346-350 LHS) TR1 (reg	placed by AD1)		1	M212010	16/1/2011	1112/2010	18/1/2011			`k			
1302	Bulk exceved Fornetton	Б			100	112/2010	10/12/2010	1/12/2010	10/12/20/0			<u>حدج.</u>		9	
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Date Date: Aug 2003	(Rav D3)	Taek Progress		Miestone	•		Rolled UP C	difical Tack 6.	1000000000000	Spir	I	Т.			
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10 Tabk Name	3 8		Clumbo	n Early Ste	art Early Fill	iah Sta	10 Prov. 10	nish 2007 Hat Hart	2008 24 Hull 14 Hund and Hu	12009 13-4 14-61 - 41-14	2010	0011	012 201	13 11-11-11-1
T303 Formerork en	lo reber (Iding (base slab)			2 d ⁻ 15/12/2	22/175 010	010 16/1	2/2010 - 27	12/2010						LIAN ; NG HZ
1305 Supplies	remeans) formatrix (well stern)			2 d. 31/12/2		2010 2010 2011 3011	2.20.0	5/1/2011			4 A			
1306 Formwork an 1307 Canceling (v	id rebar fixing (wail stern) will stern)			0.d. 212	011 112-0 011 12-0	2011 2: 2011 12:	1 112011	3/1/2011		•••		•••		į.
1308 Swipping off	formatick (well blent)			Part Part	100	41 1100	11 11022	K1/2D1*		•••	7. I	•••		5000
A Inditional Control C	isting rootanuga libro (an bika	(ince			201021 0103	2010		0102/11/		• • •	•			
1311 Footbridge TBOS 1312 Bulk excent	i (ch 350) Ion for footing (Abuitment Al		5.	1d 822	2010 18/12/2	2010 BU	2/2010 14	010212010		••••				
1313 Formation - 1	houtment A			12:81 PL	192.01	2010 180	1 0102:2	612-20-0			1.0.			
1315 FORTIMIEN BI 1315 CORRESPOND	10 reber fixing (Abultrent A. Abuanent A. footing)	(BOINQ)		1 0 24/2/2	2010 24/25	2010 240 2010 240	22010 2	42/2010			. † . †			
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1318 Concreting (Abument A. solumni			20	010	010	2107.2	DL02/2/7	(* /*			
1319 SUPOND OF 1320 Bulk excercit	formwork (Abulment A. colu Ion for teating (Abulment B)	10-01		3d 8/3/ 0d 77/20	2010 BL30	2010 22%	3/201D	8.3/2310		····	 ار			
1321 Formetion - 1	Aoutmen: B			2C/4 PL	2010 4/30	20:0	01000	40/2010		•••	 			
1322 Formore at 1323	id reber ficing (Abument B. Abutment B. footing)	(coling)		56 10/3/2	0102 0102	990 990	0102/2	9/3/2010; 3/3/2010;		•••			50	
1224 Straping off	formwork (Abutment B, foat	(Bug		3.d. 11:32	10.00 010X	11 0102	0.0206	0.542010						
1325 Concreting to Concreting to	and shuttening formwork live Abuttment B. column)	ourhent B, calumit		14. 1934	0620 0122 06261 0122	141 DL02		B632013 B542010,			<u>.</u>			
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1328 Formwork at 1328	nd neber fixing for decking decking)		~ ~	0d 21-15	2010 2011; 2010 20120	2010 21/1	12210 20	11/2010			¢1			
1330 Shipping of	formedit (decking)			Sd 11/12/	2013 13:12/	2010 11/1	2/2010 13	412/2010						
1331 Ch and 400	Internation (centering)		1		12151 DU02		11/2010. 1	0,212011						
1125 Retaining Wall (ch 360-400 LH\$) TR1 (rapia	seed by AD1	*	Td 11120	15121 0102	2011 1/1	1 010242	BV2/2011				•		
1324 Bulk excava 1325 Formetion			4	5 d 10/10	2010 1002	2011 102	1/2013	9/12211			,तून्ग 			
1330 Forthwork at	(dale seedi gribé' alabi br		-	2145. 02	2011 26:10	2011 15	1/2011 2	6442041						
1337 Concreting (base sue) formwort, (well starr)			2d 20172	2011 201102	277 L.D.	10201 3	54/2011			117	 		
1339 Farmenta	no reber living (wall elem)		-	Dd. 1/26	2011 +0/20	1102	1 1.02/2/	02/2011			Ţ	t.		
1340 Chapter Support of	well \$56m; formwork (wall stem)			2.df 13.20	2011 152/	1102		5/2/2011;						
1342 Retaining Woll (ah 360-400 RHSI TRI (rept	aced by AD1)		7.d. 10110	2010 16/10	2011 111	1 010211	6/1/2011	1	•••				
1344 Formation				54 11-23	12112: 0102	2010 11/1	12/2010 15	012/2010			†			
1345 FQ(04-0) 4345	nd reper fixing (bese elso) bese stabi		·	12101 1012 PE	2010 271421	2010 16 ⁴	222D10 27	0.02/21/1						
the Bringing	"ormwork (wal stern)			24 31/12	201D - 1/1/2	2011 31/1	12/2010	1/1/2011			E (6			
1349 Formhatk 8.	nd rebar fixing (well alon) well short		F	0 0 211	2011 1-11/	2011 2	112011	1102011						
1350 Stripping	termwork (wat stem)		:	30.141	20-1 16/1	2011 14	11/2011	18-1/25-11			Fit 1	*		
1351 Demoktion of ex	oisting Footbridge IB-C (c)	1360		24 1/11/	2010 12010	2010 1/1	11/2010 12	211/2010			•			
1343 Shap 5 [ch 400]	(Inst.)			4 4, 1/2	2011 14/2	1 1102	1102121	14/2/2011		•••				
1355 Formation	ind rebar fiong			8di 4/2/	2011 3V2 2011 802	1.4	12/2011	3/2/2011						
1368 Concreting				2 df 102	2011 112	11 . HUY	1 1102/04	11/2/2015	15	•••		• •		
1358 1358 1358	6 (ch 400)		a	11 C 211	1/21 DI02	1002	0102010	17/1/2011	3					
1359 Bulk auczwa 1360 Formation -	tion for foating (Abutment A Ab thread A		-	1.51 .PO	2010 241	2010 15	012210	24/1/2010			d:			
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1362 Concreting Concreting 1363	(Abutment A, facting) Fromwork (Abutment A, too	200)		14 31/1 84 1/2	2010 31/1	2010 31	/1/2/010	8/1/2010 SV2/2010			,hd			
1384 Retar for g	and shuttaining "ormwork (A	(butmenti A, column)		9.1 AIZ	2010 8/2/	2010 4	12:2010	8/2/2010			4			:
Toninal: De lond M. Tonn (Etc. 66)	Task	States and a second sec	Critical Task Progress		Rull	ed Up Teek	100	111111111111111111	Roled Up Progress		PT83K	228		4
Defa Claims: Aug 2009	Task Progress		Miestone	•	Rel	ed Up Chica	I Tase City		Sprin		-			
	Cmcel Teak	Total Contraction	Surrary		301	ac Up Mieak	< BLO		External Tasks		1			
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		, column)	PL	0102/2/6	912/2010	01:2010	0.2.20+0			і шан та і тан си і ша	00 4 <u>81 781 1841 1</u>	
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	72 i Reber fxing and shutleri	koumen e, tooing: ing farmeork (Abutment B, column)		01/07/1/81	0102/L12	22/1/2010	DENZINEZ			•		
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1428	Formerk and	l rebar ^t icing (wall sham)			101	221/2011	31/1/2011	22/1/2011	31/12011	• • • •			p.et			
1431	Stripping of to	al auent) xmwayrit (wait stiem)			00	1102/242	2/2/2011	1102/271	5/2/2011							
1432	Step 6 Joh 480) (1. Formation	(mg			10	112/2011	14/34/2011	1/3/2011	LEOSACINE				•			
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1440	Formwork and Creenting the	i reber fixing (bese sleb); rea stabi			54	2012/2010	1102010	010221130	5/1/2011		••••		.t.			
1442	oj jao Burdduijs	simmonts (wall stern)			20	12/1/2011	11/12211	1022/L/01	11/1/2011		•••		.			
1443	Contraction (use	d rebar fixing (wall stem) all alacti			P .	12/1/201*	21-4/2011	12/1/2011	21/1/2011			• • •	÷t i		• • •	
1445	Shipping off is	promotik (well stern)				24/1/2011	28/12011	241/2011	26/1/2011				Þ1-4			
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1446	Formation		: :		10	21/2/2010	25/2010	21-2-20-10	25/2/2010			• .•	87			
1449	Formatik and	1 (eber foing (bese eleb)			12 0	26/2/2010	6/3/2013	26/22010	01022635							
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1452	Formork and	I rebar fuing (well stent)			10 d	15/3/2010	24:3-2010	15:3/2010.	24:3/2010			}. _₽				
1465	Concreting (w	al stan) vitrativ (uali state)		×	B T NC	25/3/2010	26/3/2010	25/3/2010	28/3/2010			.			ſ	
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1651	Fortinwork and	1 nebar (iving (base slab)			12 0.0	0L022.H92	01/02/21/42	0102/21/22	25/12/2010		• • •		.			
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1462	Consteing (w	aell stem)			24	22/1/201-	23//ZÜ11	11021122	22/1/2011		•••		• •			
1483	Stilpping of A Retaining Viell Joh	ommonk (mail Bleni) 1 500-530 RHS) TR3			30	24/1/2015	26/1/2011	24/1/2011	26/1/2011							
1455	Bulk axeavedo	5			300	2112010	3*11/2010	211:2010	31112010			d				
1466	Formation	t cabas finition these ulabl			20	1/2/2010	5/2/2012	1/22010	0102/070			4				
1486	Concreting (by	ete elab)			90	16/2/2010	20/2/2010	18/2/2010	20/2/2010			<u>ل</u> ـــ				
1408	Simpping on th Formersk sod	tormwone (wall stam) 1 reter finited (wall stam)			134.	21/2/2010	22/2/2010	21/2/2010	22/2/2010					10		
1471	Concreting (w	el atem)			PN	5/3/2010	6(3/2010	5,3/2013	0.3/2010			*.*			0	
1472	Straphing of A Demolifiant of activ	(ortheorik (yeal) stear)) stano Footbeldon Tit-D (oh 62	251			7/3/2010	0,02/6/8	102/2010	9-342010							24
1474	Demotion wo	stis	Ī	:	13 d.	11-1,2010	12:1-2010	1/11/2010	12-11/2010				5			
1475	Footbridge 7807 Buk excevelit	(ch 525) on for fooling (Abubtient A)			497 d	9/11/2009 8/11/2009	2013/2014	BM1/2008	2003/2011 18/11/2006				ľ			0
1477	Formation - A	built ent A			2	18/11/2009	19/11/2008	01027.1.81	19/11/2005		•••	F 18.				
1478	Concreting (A)	d rebar hxing (Abulment A, 10) Dumient A, Kockna)	:Bugg		a -	25/11/2009	25/11/2009	25/11/2009	24/11/2009 25/11/2006			æ.1				
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1482	Concreting (A.	burnent A, cotump)	mercia, column;			4/12/2006	4122009	4/12/2009	4/12/2006			. .				
1492	Sinperg off A	formwork (Abutment A count	···· (c	8	99.0	542/2009	7/12/2009	0002/21/5	602/21/2			2.				
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1486	FOTTWORK BIG	d reber fixing (Abulment B for	(Build)		50	12/12/2009	10/12/2008	12h22009	16/12/2009	3 <u>.</u> 9						
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1488	Réber fising and shufferna fr	omwork (Abumert B. column)		. 54	211-2/2009	25/12/2009-	21/12/2019	75/17/2029	f rd Ha. Het Helf rd Hal	EH PU HPH 15.	A Hall nd Hall 151 Ha	K ac 4 a 1 a Hah	rig Hai tel Har nd	Hal
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1493	Concreting (Jacking)			8	21/2/2011	12/3/2011	21/2/2011	1213/2011			₽. † .			
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1498	Ch 526-515 Creen Tich son 14 Trees		-11	1984	2111/2009	1 Manual	2/11/2009	14/3/2011		•	<u>}</u> !			
1439	Formation				L.DZIE/L	L LOZIENE	1102/211	1102.50					••••	
864+	Formwork and reber foling			ខ ខ្	4/3/2011	B/3/2011	4/3/2011	9/3/2011			h.dł.			8
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1502	Retaining Wall (ch 830-555 LHS	1 TRM		5	Br11/2009	4/1/2010	Bri112008	411/2010		•	•	• • •		
1504	Hulk excevebon			204	28/11/2009	8002211/82	9/11/2008	28-11/200B			•	8	2	10
1505	Formwork and rebuilt floring (b	JASR SIRD)		P 41	412/2006	15/17/2009	4/12/2/004	15-12/2009			•		50	
1505	Concreting (base stab) Stringing off formands (wall -	THE.		10	16/22/09	18/12/2009-	15/12/2009	18/12/2029						
1509	Former and report to the second s	and a state of the		10	21/12/2008	3012/2009	6002/21/12	30/12/2009			+			
1509	(mata like) granarado)		×	N	EDOIZ/ZU-VC	DUDZIU	BUINZ/ZH/LE	0102-111			1.1			
1510	Straping off formark (wall to SSLICS BAS	stem) to TTEA		90	2/1/2012	4/1/2010	21/1/2010	47"-72010 1621120100			- 8	ŝ		
1512	Bulk excertion			No.	21/11/2005	1012/2008	21-1/2008	10/12/2009			- -		•••	
1513	Fernetton			ים יות	6002/21/11	15/12/2009	11/12/2009	15012/21/5,						
1514	Formatik and reber fixing (t Constating Usera stan)	(]RJ3 R5R0		12.0	28/12/2009	27/12/2009	78/12/2009 Z8/12/2009	27/12/2009-				•••		
1516	Supping of formwork (walls			i Di ca	31/12/2009	1/1/2010	31/12/2008	11/2010						
1517	Formwork and reber fluing Is	(iners lew		104	2:12010	11/1/2010	2/1/2010	11/1/2010						
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1620	Retaining Wall (oh 665-695 LHS	1 TRA		P.6	1/11/2010	26/1/2011	1/11/2010	28/1/2011		•••	1			
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1524	Contenency (Sease step)			10	102071	1102116	771/2211	811/2011		• • •	••			
1525	Stropping off formerotk (wall	stern) sead alami	8:	000	10/1/2011	11/1/2011	10/1/2011	11/12/2011			æ:			
1527	Concreting (well stern)			200	22/1/2011	23/1/2011	22/12011	23-1/2011			<u>+ .</u>			
1524	Stripping off formwork (well	least of the second sec		מי	24/1/2011	28/1/201*	24/1/201*	284/2011			<u>.</u>			
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1531	Formation			i V	21/12/2010	Z5-12/2010	21m2/2010	25-12/2010			**			-
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1534	Slipping of formersk (well.	Sterri)		2 10	1102/1-01	11021-111	1102211011	1102011		•••	÷, •			
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Appendix J: Complaint Log and Investigation Report

COMPLAINT / CONCERN LOG

Ref: DC0706-CL-100206 (ICC)

Log Ref Event Complainant/ Details of Complaint Investigation/Mitigation Action Date/Location Date of Contact Investigation/Mitigation Action Investigation/Mitigation Action	File
Our REF: DC0706-CL- 100206(ICC) 6 th February 2010, A complaint was recorded for noise pollution due to late construction works in the project site at Upper Tai Po River, nearby Sheung Wun Yiu A Complaint was referred by DSD hotline 1823 at 7:40p.m. on 6 th February 2010 A complaint was recorded regarding late construction activities in the project site at Upper Tai Po River, nearby Sheung Wun Yiu I. A complaint on 6 th February 2010 was recorded regarding noise concern generated by re- improvement works at UTPR. Environmental T (ET) was informed by email on 10 March 2010 the Engineer Representative with attachment of letter issued by the Contractor, reason of late was was mainly due to the major breakdown of conc truck and immediate follow up action of towing o 3. ET reviewed the routine noise monitoring res recorded in February 2010 and no exceedance found during measurement. 4. As a follow up investigation, ET conducted a visit on 12 th March 2010 and found that concre works at the concerned spot (i.e.: Footbridge of boulder trap at approximately ch.0 of the project si was finished. 5. According to the letter of response issued by Contractor. ET agree with the point that construe activities should be well managed to provide bu zone before site closure and therefore over-twork work due to accident can be minimized.	ed Yes /er am by he ks ete filts ras ite ng he te) he on ne

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DSD	Project -	- River	Improvement	Works in	Upper]	Lam Tsu	en River.	She Shan	River and	Upper Tai Po	River
					~ FF					oppor rai re	,

Report for Complaint/ Concern Our Ref.: DC0706-CL-100206(ICC)

ICC Case Ref. No.: 1-219109670

Sheet: $\underline{1}$ of $\underline{2}$

RECIPIENT

Name: Chiu Hing Construction & Transportation Co., Ltd,

Details: Complaint was referred by DSD hotline 1823 that a resident complained against late construction activities and noise pollution in the project site at Upper Tai Po River (UTPR), nearby Sheung Wun Yiu.

Received Date: 6 th February 2010	Received Time:19:40						
COMPLAINANT / Concern							
Name: N/A	Tel: <u>N/A</u>						
Address: N/A							
COMPLAINT							
⊠Noise □Air quality/Dust □Water □Odour □Safety □Others	□Environment □Traffic/Pedestrian						
Event Date and Time: 6 th February 2010							
Location: A complaint was recorded for noise pollution due to late construction works in the project site at Unner							
Tai Po River, nearby Sheung Wun Viu							
INVESTIGATION RESULTS & MITIGATION MEASURES							
 A complaint on 6th February 2010 was recorded regarding noise concern generated by river improvement works at UTPR. Environmental Team (ET) was informed by email on 10 March 2010 by the Engineer representative with attachment of the letter issued by the Contractor. 							
From the Contractor's report, reasons of late works were mainly due to the major breakdown of concrete truck and immediate follow up action of towing off.							
3. ET reviewed the routine noise monitoring results reco measurement.	rded in February 2010 and no exceedance was found during						
4. As a follow up investigation, ET conducted a site visi concerned spot (i.e.: Footbridge of the boulder trap at	t on 12 th March 2010 and found that concreting works at the approximately ch.0 of the project site) was finished.						
ET has reminded the contractor to be cautious on noise emission due to their site activities and therefore impact to the vicinity of sensitive receivers can be minimized.							

RECOMMENDATIONS

- 1. According to the letter of response issued by the Contractor. ET agree with the point that construction activities should be well managed to provide buffer zone before site closure and therefore over-time work due to accident can be minimized.
- 2. Contractor should well manage their working schedule. Should there is any over-time construction activity control noise permit should be applied from EPD.
- 3. Noisy equipment and activities shall be sited by the contractor as far from close proximity sensitive receivers as is practical.
- 4. Noisy activities should be scheduled to minimize exposure of nearby sensitive receivers to high levels of construction noise (e.g.: noisy activities can be scheduled for midday).

Signed Date: 16-03-2010

Attachement



昭興建築運輸有限公司

Chiu Hing Construction & Transportation Co. Ltd.

Your ref: (DC/2007/06)M05/410(0079) Our Ref:: DC0706/M1.2/CL/3317

17 February 2010

AECOM Asia Co. Ltd. 8/F., Grand Central Plaza, 138 Shatin Rural Committee Road, Shatin, N. T., Hong Kong.

Attn.: Mr. K.Y. Chan (SRE)

Dear Sir,

 1253

Contract No. DC/2007/06 River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River <u>ICC Complaint Case No. 1-219109670 – Late Works in Upper Tai Po River on 6 February 2010</u>

We refer to your letter dated 8 February 2010 regarding the above subject.

We have conducted an investigation regarding the complaint, our general foreman reported that we had commenced concreting of the mass concrete at inlet of boulder trap around 5:30 pm and expected to complete the concreting before 7:00 pm on the same day. Unfortunately, there was one concrete truck broken down and required towing off the spot for the concreting operation to be continued and it delayed a little time.

The concreting was completed around 7:10 pm due to the above incident. There was a Police investigation at 8:30 pm on site corresponding to a noise complaint which they had received earlier. No conclusion was drawn by the Police and had advised our site staff to observe the working time on site.

We have instructed immediately to our front line staff that any concreting operation should plan to be completed before 6:00 pm to provide buffer. We trust that similar incident would not be re-happened in future.

Thank you for your kind attention.

Yours faithfully,

For and on behalf of Chiu Hing Construction & Transportation Co. Ltd.

Daniel Tai

Site Agent c.c. AECOM – Attn.: Mr. Robert Chan

Room201, Fuk Shing Commercial Building, 28 On Lok Mun Street, On Lok Tsuen, Fanling, N.T., HKSAR Telephone.: 2771 9197 Fax: 2782 1075 Email: <u>chiuhing@netvicator.com</u> <u>http://www.chiuhing.com.hk</u>





Appendix K: 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. 3) Upper Tai Po River

January 2010





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. 3) Upper Tai Po River

Ecological Impact Monitoring Report (No. 3)

Table of Contents			
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 Results	4		
6 Audit/review of monitoring result	7		
7 Remedial measures adopted to restore the adverse condition	7		
8 Record of complaints and remedial measures	7		
9 Forecast of works programme and monitoring requirements	7		
10 Comments And Conclusions	8		
11 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 3 ecological impact monitoring report for the project conducted in January 2010. It contents the following subsections:
 - Summary of major points
 - Summary of the construction activities for the month
 - Monitoring Methods and Results
 - Audit/review of monitoring results
 - Remedial measures adopted to restore the adverse condition
 - Record of complaints and remedial measures
 - Forecast of works programme and monitoring requirements; and
 - Comments and conclusions

2 Summary of Major Points

- Field ecological monitoring was undertaken on 27th January 2010;
- Stream habitat at most sections of Upper Tai Po River (Photo 1) was changed due to drainage works; and
- During the impact monitoring survey, the man power deployed was as same as pervious monitoring works (i.e. 3 field workers from China-Hong Kong Ecology Consultant and 1 environmental assistant from Chiu Hing Construction & Transportation Co. Ltd). Thus, reduced population of the stream fauna was unlikely due to the man power.
- The number of target stream fauna (i.e., fish, *Parazacco spilurus*) recorded in January 2010 was lower than those recorded during baseline monitoring (before fish capture/relocation took place). Low fish population of *Parazacco spilurus* was partially contributed to seasonality of the stream habitat and previous capture/relocation surveys. But main reason was due to habitat loss caused by 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

3.1 Major construction activities carried out by the contractor during this reporting period include:

1) Re-profilling and realignment of the channel.

2) Inclusion gabions and retaining wall for bank protection whilst providing a natural channel bed

- 3) Re-provisioning of footbridges and footpaths along the channel.
- 3.2 Major construction activities carried out by the contractor anticipated for the coming month include:
 - (1) Haul access formation
 - (2) Provision of drain-off pipes in the boulder trap
 - (3) Construction of footbridge and retaining wall
 - (4) Construction of gabion wall at upstream

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 direct 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 Results

5.1 Vegetation

Vegetation growing along the affected stream was surveyed at Upper Tai Po River. About 39 flora species was recorded within the survey transects along the affected stream courses. Most recorded floras were common wetland species. Most vegetation along the 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 0.2m 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, 18 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, 1 species of dragonfly species were recorded during the surveys in current cold and dry 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* at the lower river channel. Most area of the affected upper stream section was covered with geo-textile 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 Stream Fish Fauna

Fish surveys were performed at Upper Tai Po River during surveys. In total, 9 species freshwater fish were recorded. Exotic fish such as *Poecilia reticulata* 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 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 on 28th October 2009. 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 (0.71 mg/L and 0.20 mg/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 along the stream 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 Audit/review of monitoring results

Total population was decreased for the concerned Fish (*Parazacco spilurus*) population in the current monitoring period than those recorded in baseline ecology report. Reduced fish population including *Parazacco spilurus* was mainly due to the construction work of new river channel. Most of river channel was under construction during reporting period. The seasonality and the removal of fish from the previous capture/relocation exercise on 28th October 2009 were also partially causing the reduction fish population. Therefore, the total population for the concerned Fish and Hong Kong Newt was decreased.

7 **Remedial measures adopted to restore the adverse condition** None

8 Record of complaints and remedial measures

There were one complaints about noise generated at construction site for the Upper Tai Po river. The complaints were followed up and settled by contractor according to mitigation measures stated in EM&A Manual.

9 Forecast of works programme and monitoring requirements

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

(1) Haul road formation

- (2) Installation of noise barrier
- (3) Construction of footbridge and Retaining Walls
- (4) Construction of gabion wall at upstream

10 Comments and Conclusions

Ecological impact monitoring was carried out during January 2010 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 reduced population of the fish was partially contributed to seasonality of the stream habitat and previous capture/relocation surveys conducted on 28th October 2009. But the main reason was due to habitat loss caused by engineering work of construction of river channel. Most of river channel was under construction during reporting period. 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.

Most aquatic and riparian vegetation along the stream section was cleared due to construction 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 9.4, pH 8.2, Nitrate (mg/L) 0.012. Water quality was become poor at lower stream section due to domestic waste discharged from villages. No significant change in water quality was detected except the increased sediments in water after comparing the results with baseline monitoring data.

11 **REFERENCES**

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Hong Kong Biodiversity Website : http://www.afcd.gov.hk/english/conservation/hkbiodiversity/hkbiodiversity.html PHOTOS



TABLE

Species name in Family Oct-07 Jan-09 Jul-09 Species name Jan-10 Chinese Euphorbiaceae Macaranga tanarius 血桐 ++++Musaceae Musa paradisiaca 大蕉 ++ ++Commelina communis Commelinaceae 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 羋 ++++Moraceae Ficus hispida 對葉榕 ++ ++Ulmaceae Celtis sinensis 朴樹 ++ ++Athyriaceae Callipteris esculenta 菜蕨 ++++Verbenaceae Lantana camara 馬纓丹 +++Sapindaceae 龍眼 Dimocarpus longan ++++Solanaceae Solanum torvum 水茄 + +++Equisetum debile 筆管草 Equisetaceae ++ ++Thelypteridaceae Cyclosorus parasiticus 華南毛蕨 ++++Bombax ceiba Bombacaceae 木棉 ++++Lauraceae Cinnamomum camphora 樟樹 ++ ++Myrtaceae Psidium guajava 番石榴 + +++Caprifoliaceae Viburnum odoratissimum 珊瑚樹 ++++Sapindaceae 荔枝 Litchi chinensis ++++Rutaceae 黃皮 Clausena lansium ++++Litsea glutinosa Lauraceae 潺槁樹 + +++Euphorbiaceae Glochidion zeylanicum 香港算盤子 ++++Asteraceae Ageratum conyzoides 勝紅薊 ++++Urticaceae Boehmeria nivea 苧麻 ++++Convolvulaceae 通菜 Ipomoea aquatica + + ++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 + + ++Coix lacryma-jobi Gramineae 薏苡 + +++Amaranthaceae Alternanthera philoxeroides 空心蓮子草 ++++Asteraceae Wedelia chinensis 蟛蜞菊 ++++Polygonaceae Polygonum barbatum 毛蓼 ++ ++Myrtaceae Cleistocalyx operculatus 水翁 ++ ++Gramineae Phragmites karka 卡開蘆 ++++Solanaceae Solanum nigrum 龍葵 +

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

Note:

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

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)

			Baseline survey				Impact monitoring						
		Stream		Oc	et-07		Jan-09						
		Transect	Т	T1		T2		Reference		T1		Г2	
			Height (cm)	%	Height(cm)	%	Height (cm)	%	Height (cm)	%	Height (cm)	%	
Family	Species	Chinese name											
Asteraceae	Mikania micrantha	薇甘菊	0.4	15	1	40	0.5	5	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			0.8	10	0.5	12	
Euphorbiaceae	Macaranga tanarius	血桐	2	2			5	5	3	5	1.5	4	
Araceae	Alocasia odora	海芋	1.5	23							1.5	25	
Araceae	Colocasia esculenta	芋	0.3	<1	0.4	<1	0.3	2					
Myrtaceae	Cleistocalyx operculatus	水翁					0.4	10	7	5			
Athyriaceae	Callipteris esculenta	菜蕨			0.6	1	0.8	10			0.4	10	
Gramineae	Phragmites karka	卡開蘆					1.5	51					
Thelypteridaceae	Cyclosorus parasiticus	華南毛蕨	0.4	10							0.4	10	
Equisetaceae	Equisetum debile	筆管草			0.6	<1	0.3	2					
Asteraceae	Ageratum conyzoides	勝紅薊							0.4	2			
Commelinaceae	Commelina communis	鴨蹠草											
Solanaceae	Solanum nigrum	龍葵											
Euphorbiaceae	Mallotus paniculatus	白楸											
Gramineae	Eleusine indica	牛筋草											
Gramineae	Pennisetum purpureum	象草									3	4	
Bare Gound								10		73		10	

- Reference point was the sampling location outside the works area used to compare

with the data within works area.

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)

			Impact monitoring						Impact monitoring						
		Stream			Jul-	-09			Jan-10						
		Transect	Refer	Reference		T1		T2		Reference		T1		2	
			Heigh t(cm)	%	Height (cm)	%	Height (cm)	%	Height (cm)	%	Height (cm)	%	Height (cm)	%	
Family	Species	Chinese name													
Asteraceae	Mikania micrantha	薇甘菊	0.5	5					0.5	3	0.2	5	0.2	2	
Moraceae	Ficus hispida	對葉榕	5	5			2	10	5	5					
Ulmaceae	Celtis sinensis	朴樹					6	15							
Gramineae	Microstegium ciliatum	剛秀竹					0.7	30							
Euphorbiaceae	Macaranga tanarius	血桐	5	5	3	5	1.5	5	5	5					
Araceae	Alocasia odora	海芋					2	30							
Araceae	Colocasia esculenta	芋	0.3	2	0.8	5			0.3	1					
Myrtaceae	Cleistocalyx operculatus	水翁	0.4	10	7	5			0.4	10	7	5			
Athyriaceae	Callipteris esculenta	菜蕨	0.8	10			0.4	2	0.8	6					
Gramineae	Phragmites karka	卡開蘆	1.5	51					1.5	53					
Thelypteridaceae	Cyclosorus parasiticus	華南毛蕨					0.4	2							
Equisetaceae	Equisetum debile	筆管草	0.3	2					0.3	2					
Asteraceae	Ageratum conyzoides	勝紅薊			0.4	2					0.2	2			
Commelinaceae	Commelina communis	鴨蹠草							0.2	5	0.2	5	0.2	5	
Solanaceae	Solanum nigrum	龍葵											0.4	5	
Euphorbiaceae	Mallotus paniculatus	白楸									0.3	5			
Gramineae	Eleusine indica	牛筋草			0.5	5						5			
Gramineae	Pennisetum purpureum	象草													
Bare Gound				10		78		6		10		73		88	

- Reference point was the sampling location outside the works area used to compare

with the data within works area.

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)

					Base	line sı	ırvey	Impa	ct moni	oring	mpac	t mon	itorin	mpac	t mon	itoring
	Species name	Species name	n Status	Common -ness		Oct-07				Jul-09			Jan-10			
Common Name					A	bundan	ce	A	Abundanc	e	А	bundar	nce	A	bundan	ice
					Т	PC1	PC2	Т	PC1	PC2	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	++	5	6	++	4	7	+++	7	6
Chinese Pond Heron	Ardeola bacchus	池鷺	R	С	+			++	6	3	+	2	3	++	3	3
Common Kingfisher	Alcedo atthis	普通翠鳥	R	С	+											
Common Koel	Eudynamys scolopacea	噪鳥	R	С	+											2
Common Sandpiper	Actitis hypoleucos	磯鷸	WV&PM	С	+											
Common Tailorbird	Orthotomus sutorius	長尾縫葉鶯	R	С	+		1	+	1	1	+		1	++		10
Crested Myna	Acridotheres cristatellus	八哥	R	С		1										
Domestic pigeon	Columba sp.	鴿				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		++	2	3	+	1	4	+++	4	6
Little Egret	Egretta garzetta	小白鷺	R	С	+			+	1		+		1	+		1
Rufous-backed Shrike	Lanius schach	棕背伯勞	R	С										+	1	
Magpie	Pica pica	喜鵲	R	С		1										
Magpie Robin	Copsychus saularis	鵲鴝	R	С	+	1	1				+	1	3	+	2	1
Olive Backed pipit	Anthus hodgsoni	樹鷚	WV	С	+			+	1	3						
Crested bulbul (Red-whiskered	Pycnonotus jocosus	紅耳鵯	R	С	+	2		+++	6	7	++	2	6	+++	4	5
Spotted Dove	Streptopelia chinensis	珠頸斑鳩	R	С	+		2	+	1		+	1	3	+	1	2
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							++	2	3
White-breasted Waterhen	Amaurornis phoenicurus	白胸苦惡鳥	R	С	+									+		1
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										+	2	1
Blue Magpie	Urocissa erythrorhyncha	紅咀藍鵲	R	С										+		2
Scarlet Minivet	Pericrocotus flammeus	赤紅山椒鳥	R	С										+		
Scarlet-backed Flowerpecker	Dicaeum cruentatum	朱背啄花鳥	R	С										+		
Number of birds									23	23		11	28		26	43
No. of species								8	8	6	8	6	8	18	9	13

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

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

Ecological Impact Monitoring Programme

					Baseline survey	Im	ing	
Species	Common name	Chinese name	Status	Commonness	Oct-07	Jan-09	Ju1-09	Jan-10
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				
Pantala flavescens	Wandering Glider	黄蜻	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

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

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

			Baseline survey		Impact monitoring			Impa	ct monit	oring	Impact monitoring			
Species	Chinese name			Oc	t-07	07 Jan-09 .				Jul-09		Jan-10		
Invertebrates		Sampli	ng point	T1	T2	Reference	T1	T2	Reference	T1	T2	Reference	T1	T2
Pomacea canaliculata	蘋果螺	NP	VC					+	+		++	+		+
Melanoides tuberculat	4 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	+	+	+			+			+	+	
Perla sp		NP	VC										+	
Aulocodes sp.		NP	VC										+	
Tipulidae spp.		NP	VC										+	
Crustacea														
Macrobrachium haina	海南沼蝦	NP	VC			+			+			+	+	
Caridina contonensis	廣東米蝦	NP	VC			+			+			+	++	
Cryptopotamon anacol	1.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			+		+	+		+	+	++	

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

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

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

				Baseline survey		Imp	oact monito	ring	Impact monitoring			
				Oct-07			Jan-09		Jul-09			
Species		Status	Commonness	T1	T2	Reference	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	+		+			+	+		
Oreochromis niloticus	尼羅口孵非鯽	NP	С	+								
Misgurnus anguillicaudatus	泥鰍	NP				+			+			
		2x2m fish	number	70	60	15	8	25	10	20	100	

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 with the data within works area.

River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River Ecological Impact Monitoring Programme

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

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

				Impact monitoring				
				Jan-10				
Species		Status	Commonness	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	+				
Oreochromis niloticus	尼羅口孵非鯽	NP	С					
Misgurnus anguillicaudatus	泥鰍	NP		+				
	•	2x2m fis	h number	10	2	8		

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 with the data within works area.

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

Ecological Impact Monitoring Programme

Stream	Oct-07 (baseline	Jan	-09	Jul	-09	Jan	-10
Replicate	T1	T1 T2		T1	T2	T1	T2
DO (mg/L)	8.2	9	4	6.3	6	9.4	8.8
рН	6.9	7.18	6.86	7.28	6.96	8.2	8.5
Nitrate (mg N/L)	0.39	0.1	1.3	0.07	1.32	0.12	0.71
Ammonia (mg/L)	PO4-P (μg P/L): <100	PO4-P P/L): <	(μg 100	0.01	0.22	<0.01	0.2
Salinity (ppt)	<0.1	<0.1	0.1	0	0	0	0
Conductivity (mS/cm)	40	40	190	34	118	42	72
BOD (mg/L)	<2	<2	12	<2	<2	<2	2
Water flow at pool	0.01-0.2	0.01	-0.2	0.01-0.2		0.01	-0.2
Water flow at riffle	0.2-0.5	0.2	-0.5	0.2	-0.5	0.2	-0.5
Sand (%)	15	1	5	15	25	15	25
Stone (%)	80	8	80	80	70	80	70
Mud(%)	5		5	5	5	5	5
Concrete(%)	0	0	0	0	0	0	0

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

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)