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 July 2009

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

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Executive summary

This is the eleventh 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 July 2009 to 31st July 2009. The major construction activity carried out by the contractor was reestablishing works for the damaged haul access.

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

Ecological Impact Monitoring preformed by the Ecologist Dr. Mark Shea was carried out on 21st and 22nd July 2009. As reported by the Ecologist, water samples and survey results were still under preparation, details of findings will be shown in the next monthly EM&A report. The summary of ecological site inspection findings and implementation status of environmental protection and mitigation for ecology, prepared by the Ecologist Dr. Mark Shea, are provided in table 6.2 and Appendix G respectively.

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

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

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

There was an enquiry received from EPD through ET on 03 July 2009 regarding river

water quality and loss of vegetation within construction site. ET handled the incident in accordance with complaint handling procedure to conduct investigation and meeting with project representatives including ER, IEC and Contractor. Details of findings please refer to the complaint report and log in Appendix J.

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

There was no reporting change for this month.

In accordance with the contractual requirements, no excavation works in river is allowed to be carried out during the present wet season. Site works proposed to be carried out in the upcoming month will be mainly construction of haul access, installation of noise barriers and river reinstatement works.

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

1.0 Introduction

This is the eleventh 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 July 2009. This included regular site inspections once per week for verification of implementation of the mitigation measures as recommended in the Environmental Permit (EP-223/2005/A) (EP), EM&A Manual and the Contractor's Environmental Management Plan (EMP).

2.0 Environmental status

2.1 Project area

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

2.2 Construction programme

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

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

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

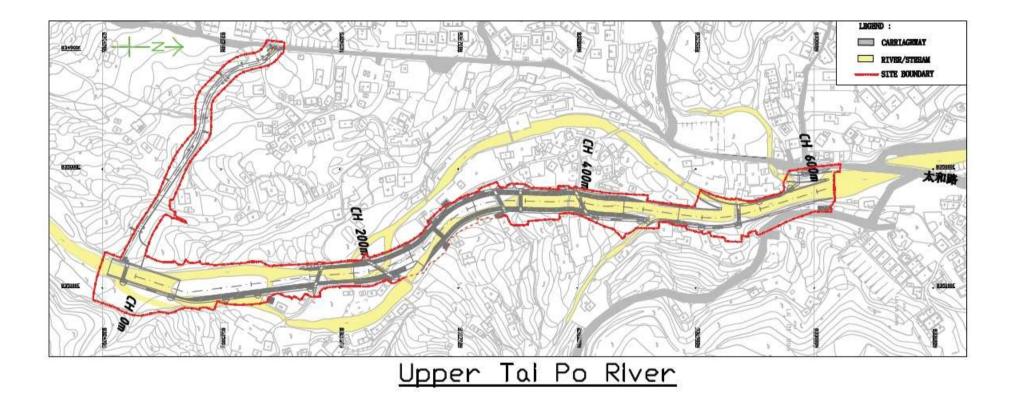
2.3 Proposed construction sequences

The proposed construction sequence is shown in the following sequences:

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

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Fig 2.1 Layout of construction area



2.4 Construction activities for the reporting period

Major construction activities were ceased in the reporting period since no excavation works in river is allowed due to contractual requirements. Reestablishing works to the damaged haul access D due to rainstorm was carried out during the reporting period.

2.5 Construction activities for the next reporting period

Due to the contractual requirements, no excavation works in river is allowed during wet season and hence no major construction activities will be carried out. Construction of Access Road D, installation of noise barriers and river reinstatement works were proposed to be carried out in the upcoming reporting period.

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 an enquiry received from EPD through ET on 03 July 2009 regarding river water quality and loss of vegetation within construction site. ET handled the incident in accordance with complaint handling procedure to conduct investigation and meeting with project representatives including ER, IEC and Contractor. Recommendations were also given to Contractor for their follow up actions. Details of findings are summarized in the complaint report and log in Appendix J.

Totally, four complaints had been received since the commencement of the contract. The cumulative complaint log is shown in Appendix F.

3.0 Ecological monitoring results

Capture survey conducted by Ecologist Dr. Mark Shea was not scheduled for this reporting month. Ecological impact monitoring was conducted on 21st and 22nd July 2009. As reported by the Ecologist, water samples and survey results were still under preparation. Those findings will be shown in the next monthly EM&A report.

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 7th, 14th, 21st and 28th July 2009 and the $L_{eq (30min)}$ results ranged from 45.2dB(A) to 68.7dB(A), and therefore, no exceedance of action or limit level was recorded in this reporting month. For further details of the monitoring results, graphical plots and the location plan, please refer to Appendix D.

5.0 Vibration monitoring results

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

6.0 Environmental issues and actions

6.1 Site inspections and key environmental issues

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

Within this reporting month, site inspections were conducted on 8th, 21st, 24th and 29th July 2009. A detailed checklist of each site inspection together with comments and relevant photos have been filed and kept. The findings from inspection were summarized in Table 6.1.

Ecological inspections by the Ecologist Dr. Mark Shea were carried out on 2nd, 8th, 15th, 22nd and 29th July 2009. Details of findings were summarized in Table 6.2.

Date	Findings	Identification	Advice from ET	Action taken	Closing date	Remarks
17 June 09,	Idling construction	Observation	Contractor was reminded to	Contractor took action to	29 July 09	
08 & 29	equipments stored at haul		provide regular stagnant water	remove stagnant water after		
July 09	access D were found		removal and mosquito control	each rainfall as advised		
	accumulated with stagnant		measures as part of site			
	water		cleaning practices			
21 July 09	General wastes were found	Observation	Contractor was advised to	As reported by contractor	29 July 09	
	dumped into the recycling		remove improper wastes from	regular training is provided to		
	bin for aluminum can without		the corresponding recycling bins	their staffs during debriefing at		
	segregation		and provide training to their	morning		
			staffs for proper usage of			
			recycling bins			
21 July 09	Sandbag barriers provided	Observation	Contractor was advised to repair	Still outstanding as no follow	Ongoing	
	at boulder trap were found		the barriers to prevent soil	up actions has been taken due		
	damaged due to rainstorm		run-off from bare soil surfaces	to adverse weather		
			and hence deterioration of water			
			quality in the river			
24 July 09	No major findings for this	N/A	N/A	N/A	N/A	
	inspection					
29 July 09	No major findings for this	N/A	N/A	N/A	N/A	
	inspection					

Table 6.1 Summary results of site inspections findings

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

Table 6.2	Table 6.2 Summary results of ecological site inspection findings									
Date	Observations	Advice from	Action Taken	Closing						
		Ecologist		Date						
02 July	No Major findings for this	No Advice is	No Action is required to	N/A						
2009	inspection	required	be taken							
08 July	No Major findings for this	No Advice is	No Action is required to	N/A						
2009	inspection	required	be taken							
15 July	No Major findings for this	No Advice is	No Action is required to	N/A						
2009	inspection	required	be taken							
22 July	No Major findings for this	No Advice is	No Action is required to	N/A						
2009	inspection	required	be taken							
29 July	No Major findings for this	No Advice is	No Action is required to	N/A						
2009	inspection	required	be taken							

6.2 Non-compliance

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

6.3 Recommendations

Although no major construction activities were being carried out during the reporting month, contractor was reminded to maintain good housekeeping practices as well as effective environmental mitigation measures.

Contractor was reminded to enhance mosquito control during wet season. They should be cautious on accumulation of stagnant water in any site equipments and rough site surfaces. Stagnant water removal should be regularly implemented during site cleaning practices, especially after rainfall.

Wastes dumped into recycling bins should be well segregated. Regular training to frontline staff is considerable for proper usage of recycling bins.

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

Contractor was advised to provide regular site checking and cleaning to maintain good site condition. Waste generation and accumulation on site should be minimized as major construction was ceased. Environmental mitigation measures provided should be regularly checked and maintained their effectiveness as to minimize environmental impacts caused by project sites.

6.4 Implementation status and effectiveness of the mitigation measures

Refer the previous table 6.1, contractor has implemented some 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.

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
July 2009	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	Issued
Permit				
Amended	EP-223/2005/A	18 th Nov, 2008	N/A	Issued
Environmental				
Permit				
Construction Noise	N/A	N/A	N/A	N/A
Permit				
Effluent Discharge	3678	14 th Mar, 2008	31 st Mar, 2013	Issued
License				
Registration as a	5213-724-C3251-03	19 th Dec, 2007	Not applicable	Issued
Chemical Waste				
Producer				
Billing Account for	7006101	N/A	N/A	N/A
Disposal of				
Construction Waste				

 Table 8.1 Summary of Environmental Licensing and Permit Status

9.0 Future key issues

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

Stockpiling of construction materials may occur for the mentioned site activities, such materials should be well stored in designated area to maintain good housekeeping. Stagnant water may be accumulated in those materials and construction equipments hence regular removal would be required.

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

Earth bunds shall be building along the riverbank near works area to prevent surface run-off and any construction wastes from entering the stream. Site discharges should be well treated by de-silting facilities prior to further discharge.

10.0 Conclusion

The major construction activity carried out by the contractor during this reporting period was re-establishment works for the damaged haul access.

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

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

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

From the summary of ecological site inspection findings and implementation status of

environmental protection and mitigation for ecology, prepared by the Ecologist Dr. Mark Shea, there is no abnormal finding observed in the reporting month. The ecologist has no further advice and no action suggested to the contractor.

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

There was an enquiry received from EPD through ET on 03 July 2009 regarding river water quality and loss of vegetation within construction site. ET handled the incident in accordance with complaint handling procedure to conduct investigation and meeting with project representatives including ER, IEC and Contractor.. Details of findings please refer to the complaint report and log in Appendix J.

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

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

Appendix A: Event and action plan for ecology

Event and action plan for ecology

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

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

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

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

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

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

APPENDIX TABLE 1 Event / Action plan table for Ecology

Appendix B: Action and limit level for construction noise

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

Appendix Table 2: Action and Limit Levels for Construction Noise

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

*Limit level set in accordance with Particular Specification Section 26

Appendix C: Reference standards for vibration

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

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

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

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

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

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

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

Location	L ₉₀	L_{10}	Leq	Date	Time	Major Construction Noise	Other Noise source	Weather	Location
	30min	30min	30min		Duration				description
UTP 1	57.4	69.1	67.2	7-Jul-09	13:35-14:05	The measured noise level was dominated by the background noise in the immediate	Background noise from traffic	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 2	55.9	62.9	59.7	7-Jul-09	13:00-13:30	The measured noise level was dominated by the background noise in the immediate	Background noise from traffic	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 3	45.6	56.8	54.7	7-Jul-09	15:11-15:41	The measured noise level was dominated by the background noise in the immediate	Background noise from public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 4	57.3	59.9	59.2	7-Jul-09	14:08-14:38	The measured noise level was dominated by the background noise in the immediate	Background noise from traffic and public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 5	54.1	59.0	57.2	7-Jul-09	14:39-15:09	The measured noise level was dominated by the background noise in the immediate	Background noise from public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 6	54.4	55.8	45.4	7-Jul-09	15:43-16:13	No construction was being carried out during measurement	Background noise from public	Sunny	Façade
UTP 7	49.4	57.3	54.1	7-Jul-09	11:30-12:00	No construction was being carried out during measurement	Background noise from public	Sunny	Façade
UTP 8	51.9	57.5	55.7	7-Jul-09	10:58-11:28	No construction was being carried out during measurement	Background noise from avians and public	Sunny	Façade
UTP 9	48.6	51.6	50.3	7-Jul-09	10:23-10:53	No construction was being carried out during measurement	Background noise from dog	Sunny	Façade
UTP 10	43.2	46.1	45.2	7-Jul-09	09:47-10:17	No construction was being carried out during measurement	Background noise from dog	Sunny	Façade
UTP 11	50.1	53.1	51.9	7-Jul-09	09:15-09:45	No construction was being carried out during measurement	Background noise from public	Sunny	*Free field

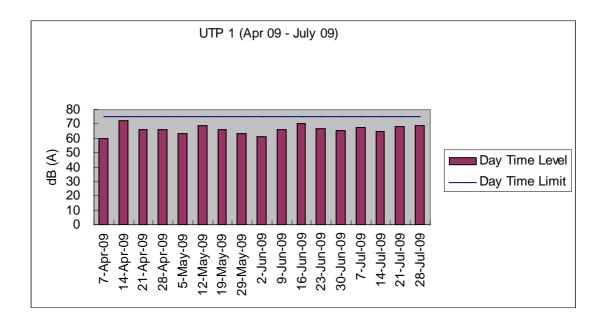
Location	L ₉₀	L ₁₀	Leq	Date	Time	Major Construction Noise	Other Noise source	Weather	Location
	30min	30min	30min		Duration				description
UTP 1	58.1	66.0	65.0	14-Jul-09	13:35-14:05	The measured noise level was dominated by the background noise in the immediate	Background noise from traffic	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 2	56.2	61.8	61.6	14-Jul-09	13:00-13:30	The measured noise level was dominated by the background noise in the immediate	Background noise from traffic	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 3	45.0	50.4	48.5	14-Jul-09	15:45-16:15	The measured noise level was dominated by the background noise in the immediate	Background noise from public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 4	60.2	64.1	63.9	14-Jul-09	14:10-14:40	The measured noise level was dominated by the background noise in the immediate	Background noise from traffic	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 5	55.8	58.0	57.8	14-Jul-09	14:41-15:11	The measured noise level was dominated by the background noise in the immediate	Background noise from public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 6	45.6	57.4	53.1	14-Jul-09	15:12-15:42	The measured noise level was dominated by the background noise in the immediate	Background noise from public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 7	48.2	53.6	51.9	14-Jul-09	11:28-11:58	The measured noise level was dominated by the background noise in the immediate	Background noise from public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 8	53.4	57.0	55.5	14-Jul-09	10:57-11:27	No construction was being carried out during measurement	Background noise from public	Sunny	Façade
UTP 9	51.9	54.0	53.6	14-Jul-09	10:22-10:52	No construction was being carried out during measurement	Background noise from dog	Sunny	Façade
UTP 10	44.1	53.2	49.1	14-Jul-09	09:46-10:16	No construction was being carried out during measurement	Background noise from avians and public	Sunny	Façade
UTP 11	47.7	51.0	49.7	14-Jul-09	09:15-09:45	No construction was being carried out during measurement	Background noise from public	Sunny	*Free field

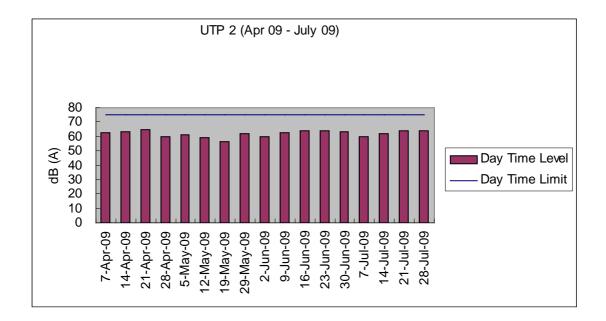
Location	L ₉₀	L ₁₀	Leq	Date	Time	Major Construction Noise	Other Noise source	Weather	Location
	30min	30min	30min		Duration				description
UTP 1	60.3	71.0	68.5	21-Jul-09	13:35-14:05	The measured noise level was dominated by the background noise in the immediate	Background noise from traffic and public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 2	59.2	64.1	63.9	21-Jul-09	13:00-13:30	The measured noise level was dominated by the background noise in the immediate	Background noise from traffic and public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 3	46.2	50.7	49.0	21-Jul-09	15:43-16:13	The measured noise level was dominated by the background noise in the immediate	Background noise from avians	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 4	62.6	63.5	63.2	21-Jul-09	14:10-14:40	The measured noise level was dominated by the background noise in the immediate	Background noise from public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 5	57.1	59.2	58.8	21-Jul-09	14:41-15:11	The measured noise level was dominated by the background noise in the immediate	Background noise from public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 6	45.7	52.2	50.3	21-Jul-09	15:12-15:42	The measured noise level was dominated by the background noise in the immediate	Background noise from public	Sunny	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 7	50.1	65.1	60.5	21-Jul-09	11:28-11:58	No construction activity was being carried out during measurement	Background noise from avians	Sunny	Façade
UTP 8	58.8	61.7	60.8	21-Jul-09	10:57-11:27	No construction activity was being carried out during measurement	Background noise from public	Sunny	Façade
UTP 9	60.7	61.6	61.4	21-Jul-09	10:22-10:52	No construction activity was being carried out during measurement	Background noise from public	Sunny	Façade
UTP 10	45.6	49.3	48.0	21-Jul-09	9:15-9:45	No construction activity was being carried out during measurement	Background noise from avians	Sunny	Façade
UTP 11	48.5	55.1	53.6	21-Jul-09	9:46-10:16	No construction activity was being carried out during measurement	Background noise from public	Sunny	*Free field

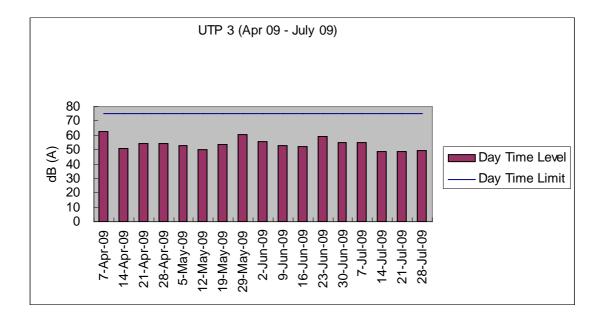
Location	L ₉₀ 30min	L ₁₀ 30min	Leq 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
					vicinity of the monitoring location due to its large distance from the construction activities				
UTP 2	61.2	64.2	63.9	28-Jul-09	11:30-12:00	The measured noise level was dominated by the background noise in the immediate	Background noise from traffic	Cloudy	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 3	47.0	51.5	49.7	28-Jul-09	15:12-15:42	The measured noise level was dominated by the background noise in the immediate	Background noise from public	Cloudy	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 4	64.6	66.7	65.7	28-Jul-09	10:12-10:42	The measured noise level was dominated by the background noise in the immediate	N/A	Cloudy	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 5	57.4	59.8	59.2	28-Jul-09	15:43-16:13	The measured noise level was dominated by the background noise in the immediate	N/A	Cloudy	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 6	45.5	52.2	50.3	28-Jul-09	14:40-15:10	The measured noise level was dominated by the background noise in the immediate	Background noise from public	Cloudy	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 7	49.8	52.5	51.9	28-Jul-09	14:09-14:39	The measured noise level was dominated by the background noise in the immediate	Background noise from public	Cloudy	Façade
						vicinity of the monitoring location due to its large distance from the construction activities			
UTP 8	56.8	61.1	60.2	28-Jul-09	13:38-14:08	No construction was being carried out during measurement	N/A	Cloudy	Façade
UTP 9	60.5	61.8	61.3	28-Jul-09	13:00-13:30	No construction was being carried out during measurement	N/A	Cloudy	Façade
UTP 10	49.1	54.2	53.1	28-Jul-09	08:58-09:28	No construction was being carried out during measurement	Background noise from avians	Cloudy	Façade
UTP 11	50.5	57.4	55.7	28-Jul-09	09:30-10:00	No construction was being carried out during measurement	Background noise from public	Cloudy	*Free field

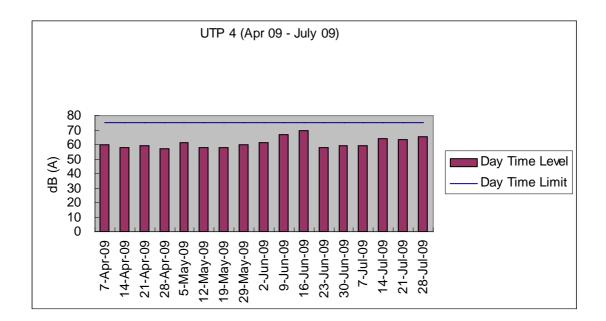
Graphical plot for noise measurements

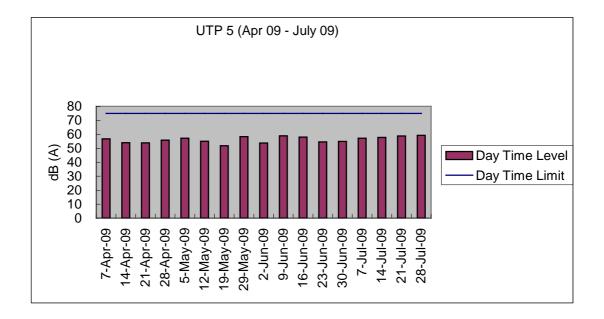
The following plots were the graphical plots for the 11 monitoring locations. Each plot showed the day time limit 75 dB(A), daytime level, date and the measured dB(A) results as in Leq 30min for each location. The graph contains the data recorded from April 2009 to July 2009.

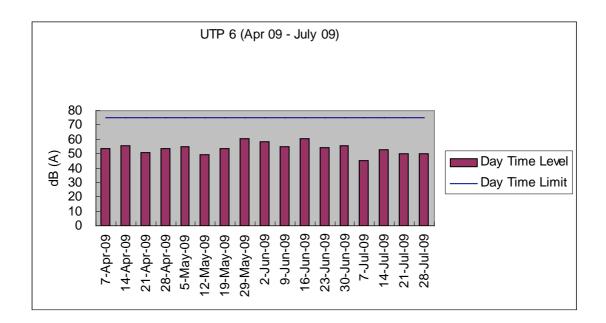


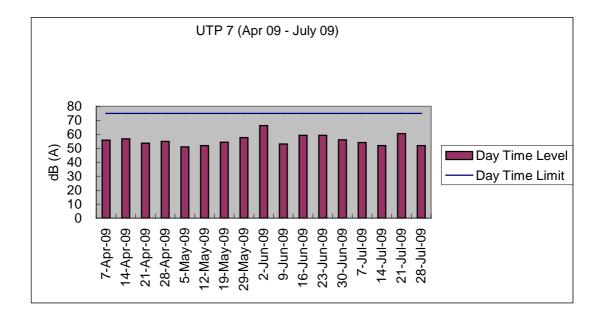


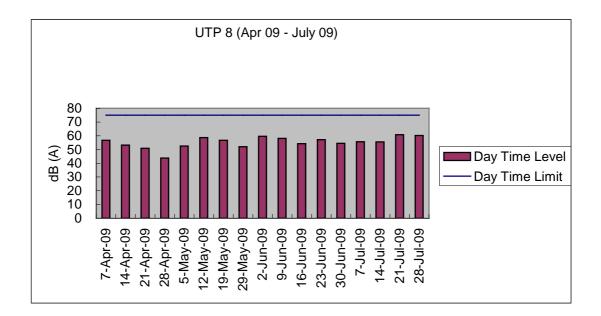


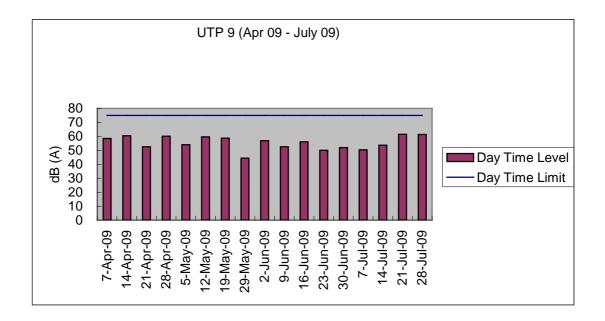


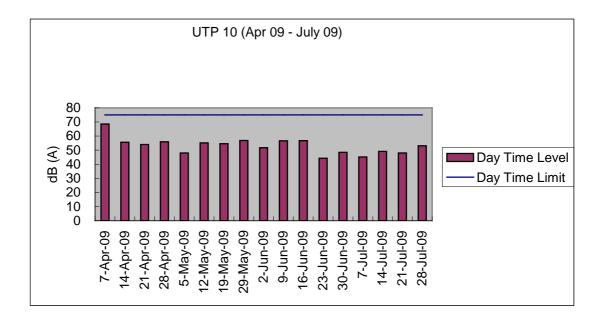


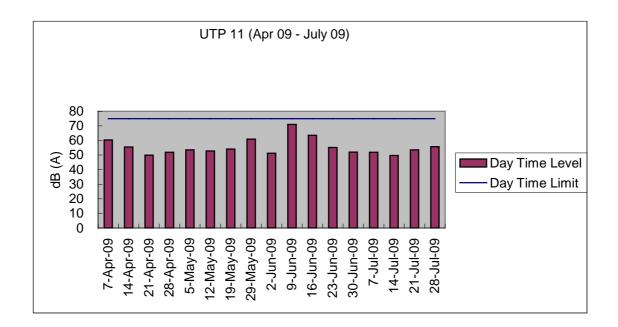




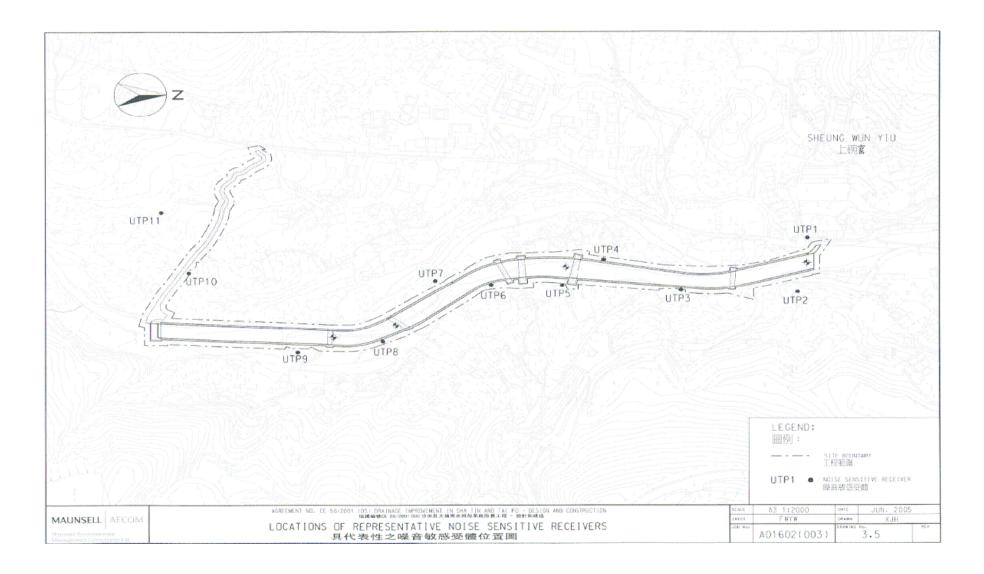








DC/2007/06 River improvement works in Upper Tai Po River Eleventh Monthly Report



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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			7/1	7/2	7/3	7/4
7/5	7/6	7/7	7/8	7/9	7/10	7/11
110			1/0		1710	
			Site inspection at			
		Noise monitoring	afternoon			
7/12	7/13	7/14	7/15	7/16	7/17	7/18
		Noise monitoring				
		5				
	= /0.0	= 10.1	= /22			
7/19	7/20		7/22	7/23	7/24	7/25
		Noise monitoring, Ecological Impact	Ecological Impact		Site inspection and	
		Monitoring and	Monitoring		SSEMC at morning	
		Site inspection at p.m.	Montoning			
7/26	7/27	7/28	7/29	7/30	7/31	
			Site inspection at			
		Noise monitoring	afternoon			

Master Schedule of EM&A works in July 2009

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

Master Schedule of EM&A works in August 2009

Appendix F: Cumulative complaint log

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

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

3rd July 2009.

Appendix G: Implementation status of environmental protection and mitigation measures

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

Implementation status of environmental protection and mitigation

1			
Waste	Reuse excavated material as far as possible	Implemented	Not required
Management			
	Recycle scrap metals or abandoned equipment	Implemented	Not required
	Adopt a trip ticket system for the disposal of C&D materials	Implemented	Not required
	All general refuse should be segregated and stored in enclosed bins or	Implemented	Not required
	compaction units		
Vibration	Percussive piling is to be replaced by bore-hole piling to minimize	Not applicable at this	Not required
	vibration impacts to the two identified Declared monuments	stage	
	Carrying out of vibration monitoring to ensure that vibration associated	Not applicable at this	Not required
	with the construction phase do not exceed the threshold limit otherwise	stage	
	contractor have to review the work method and construction activities		
	have to be slow down or rescheduled to reduce the impacts		
	Close monitoring and measurement on the cracks of the external wall of	Not Applicable at this	Not required
	Fan Sin Temple during construction works will be carried out. Any	stage	
	changes on the cracks will be recorded for the contractor to slow down		
	the construction activities accordingly; and to review the work methods		
	and equipments immediately		

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

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

Appendix H: Cumulative waste flow table

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

Cumulative waste flow table since September 15th 2008

Remark*: Chemical wastes generated from the project sites including Upper Tai Po River, Lam Tsuen River and She Shan River were centralized for disposal.

Appendix I: Construction programme

	· .	River Improvement Works in	ovement		Contrac	Contract No. DC/2007/06 r Lam Tsuen River, She \$	007/06 , She Shan	Contract No. DC/2007/06 Upper Lam Tsuen River, She Shan River and Upper Tai Po River	i Po River			
		•			Mast	Master Programme	nme			The second s		2014245
Ability Task Name			Elk K		国际观察协议			2007年 2006年 2006年 後年3	2009年 12月 - 黄杏年 1 隆华年	120104 134 1 00/15 1 36/16	E	46 1 66 1 (8 0 F
720 Rockfi	Rockfill & Blinding	a a constant	40 days	2008/11/16	2008/12/25	2008/11/16						
	Retaining Wall		50 days	2008/12/26	2009/2/13	2000/12/20	20102/8002	• • •				
	- Wall		40 days	2009/2/14	2009/2/2002	2009/3/26	2009/3/20			· · · · · · · · · · · · · · · · · · ·	· · ·	
	install Ducts/renong/rallings/uranage		and dave	2009/4/1	2010/3/30	2009/4/1	2010/3/30	· ·		P	· . · · · · · ·	
	Mort Searon (And to Get 2009)		214 days	2009/4/1	2009/10/31	2009/4/1	2009/10/31					
	ation		90 days	2009/11/1	2010/1/29	2009/11/1	2010/1/29					
	Rockfill & Blinding		40 days	2009/11/16	2009/12/25	2009/11/16	2009/12/25					
	Retaining Wall		50 days	2009/12/26	2010/2/13	2009/12/26	2010/2/13		•••			
	i Wali	· · · · ·	40 days	2010/2/14	2010/3/25	2010/2/14	2010/3/25		• • •		· · · · · · · · · · · · · · · · · · ·	•
730 Install	Install Ducts/Fencing/Rallings/Drainage		5 days	2010/3/26	2010/3/30	2010/3/26	2010/3/30		•••			
731 Footbridge	Footbridge, Platform and Fill Slope		384 days	2010/4/1	2011/4/19	2010/4/1	2011/4/19					:
	Wet Season (April to Oct 2010)		214 days	2010/4/1	2010/10/31	LIPIOLOZ	2010/10/31				à	
733 Provisi	Provision of Tomp. footbridge		5 days	2010/11/1	2010/10/2	C/LL/0102			 		k	
	Footing for footbridge		25 days	2011/01/02	05/11/0102	2010/07/07	003010102		• •	•	30	
	Wall		30 days	1/21/01/02	06/21/01/02	2010121			•••			• • •
	tidge		oo days	2010/202	07/01/07	POSITION	actor tory		, • ·			
	Demokion of existing faotbridge		5 days	42/2)1 (UZ	2011112	107 P04 P04	2011/2025				} _{	
	ulvert		sien or		07/01/07	100 100 100 100 100 100 100 100 100 100	and stated		4 ×			
	Footpaths Maintenance Stairway		25 days	2011/3/26	FL/#/1207	07/011/07	SI 76/1 LOZ		:::		3	
	1. A second s Second second s Second second se			100000000	OHISS STOC	- 01/11/10/10	pheridate				→	
741 Completion of Area K	×		0 days	GL/M/LLOZ	81/6/1102	al ### 1 07	21 Jan 1 1 1 1 7				•	•
			0 dave	P11512100	2011/4/19	2011/4/19	2011/4/19			• • •	*	
743 Completion of work at Section 2	31 Section 2	and the second sec		2					•••		•	
744									• • •	*		:
746 Serting 3 . Hinner Tai Po River (Area L. N & P)	A River (Area L. N & P)		1300 days	2007/9/28	2011/4/19	2007/9/28	2011/4/19				ľ	• •
1	Sochon 3 - Under Tai Po River (Årea L)		1300 days	2007/9/28	2011/4/19	2007/9/28	2011/4/19					
-	It of Work		1 day	2007/9/28	2007/9/28	2007/9/28	2007/9/28					
	Possession to Portion of the Site (Area L)		181 days	2007/9/29	2009/3/27	2007/19/29	2008/3/27		• • • • • • • • • • • • • • • • • • •	and far and management of the first test to be first to the second s	in the second se	
	8358		40 days	2008/11/1	2008/12/10	2008/11/1	2008/12/10					
- <u>1.</u>			10 days	2008/12/11	2008/12/20	2008/12/11	2008/12/20		4			
	Chainlink Fencing Work / Hoarding		30 days	2008/12/21	2009/1/19	2009/12/21	2009/1/19					
753 Initial Survey	•		30 days	2008/3/28	2008/4/26	2008/3/28	2008/4/26					
754 Condition Surve	Condition Surveys / Set up markers		30 days	2008/3/26	2008/4/26	2008/3/28	2006/4/26		• •		<i>رست</i>	
755 Preparation of	Preparation of Temporary Works Design		60 days	2008/1/14	2008/3/13	2008/1/14	2008/3/13					
756 Approval of Ter	Approval of Temporary Works Design		0 days	2008/3/27	2008/3/27	2008/3/27	2008/3/27	•	•••			
7	Wet Season (April to Oct 2008)		214 days	2008/4/1	2009/10/31	2008/4/1	2008/10/31					
1					Anes territ	04444444	204414140					
	Chainage from CH 0 to CH130	• • •	1300 days	200119128	GLID/LEDZ	2019191906	04141110Z					
	the Sile		FRO days	2009/1/20	2010/3/22	2009/1/20	2010/8/22					:
761 BOUIDER 1782	Ider 1/32 Excevelot		100 days	2009/1/20	2009/4/29	2009/1/20	2009/4/29		N	•		
	Excevelute Rocktill & Blinding Layer		120 days	2009/4/30	2009/8/27	2008/4/30	2009/8/27				· · · · ·	
	Base Slab Structure		120 days	2009/8/28	2009/12/25	2009/6/28	2009/12/25	a managana ana na				
and the second data	Task		Colleat Tas	Colical Task Progress		Rolled Up Task		Rolled Up Progress	55	Project Summary		American A
Project: Master Programme (REV.7)			Milestone	\$		Rolled Up Critical Task	al Task (333433	spitt				
ia uzar: Jan zuuz nsultart: MCAL	·		Summary	• •		Rotted Up Milestone	c) eva	External Tasks				

Image: control of the contro of the control of the control of the control of the control of th		 - - - -	5 . 2	D D D	Drainage Services Department	rvices [)epartm	lent	-				
Image: constraint of		River Impre	yement	Works in Ul	Contract oper Lam Ts <u>Maste</u>	t No. DC/2 suen Rivel er Progran	007/06 , She Sha ime	n River an	ld Upper Tai I	o River			
Unit 100.044 200.043 2	10	11	1	ļ	24%%#BI	19/4/14	<u> </u>	00745 1814-074	h it m		2010 1014	2011年 副作呼 後生年	012:4 8[4:44] [2:44]
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Mathematication Option Section	Cutral Stope		80 days	2010/4/25	2010/8/22	c2/6/1002	2011/4/14						
metricity Elegin storio solid sol	Footpridge, Platform and Fail Sign. Provision of Temo. footbridge		o uays 10 days	2007/9/28	2007/10/7	2007/9/28	2007/10/7	- carr		:::)		
Mathematication Biolen Biolen <t< td=""><td>Footing for footbridge</td><td></td><td>35 days</td><td>2009/12/26</td><td>2010/3/30</td><td>2009/12/26</td><td>2010/3/30</td><td></td><td>• • •</td><td></td><td>(III)</td><td></td><td></td></t<>	Footing for footbridge		35 days	2009/12/26	2010/3/30	2009/12/26	2010/3/30		• • •		(III)		
Construction Construction<	Gabion Wall		an days	2010/3/31	2010/6/28	2010/3/31	2010/6/28					· · · · · · · · · · · · · · · · · · ·	
(100) (100) <th< td=""><td>Install Ducts/Fencing/Railings/C</td><td></td><td>10 days</td><td>2010/6/29</td><td>2010/7/8</td><td>Z010/6/29/</td><td>2010/7/8</td><td></td><td></td><td></td><td></td><td></td><td>• • • •</td></th<>	Install Ducts/Fencing/Railings/C		10 days	2010/6/29	2010/7/8	Z010/6/29/	2010/7/8						• • • •
of change interfacione Odops ZUNCH ZUNCH <thzunch< th=""> ZUNCH ZUNCH<</thzunch<>	Feetbridge (TB1)		o days	2010/7/9	2010/10/6	2010/7/9	2010/10/6			• 4			
If filters to furtherer tennery Biggs Cuturely C	Demoiltion of existing footbridg.		to days	2010/10/7	2010/10/16	2010/10/	2010/10/10/2			***			
Control Control <t< td=""><td>Platform & Fill Stope & Mainten</td><td></td><td>at) days af) days</td><td>2011/1/15</td><td>2011/1/14</td><td>2011/1/15</td><td>2011/4/14</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Platform & Fill Stope & Mainten		at) days af) days	2011/1/15	2011/1/14	2011/1/15	2011/4/14						
Client Area 2014/VIO	rootpans .			2			-		• • • •		·		- - -
Clinic Alice 1300 days 2001/481 2011/481	oletion of Area L		0 days	2011/4/19	2011/4/19	2011/4/19	2011/4/19			• • • •		· · · · ·	
Differ Differ <thdifer< th=""> <thdifer< th=""> Difer</thdifer<></thdifer<>											• •		
Minil 14b 2007/001 2007/001 2007/001 2007/001 2007/001 2007/001 2007/001 2007/001 2007/001 2007/001 2007/001 2007/001 2007/001 2007/001 2007/001 2007/001 2007/001 2007/011 200	fins 3 . I loner Tai Do River (Area P)	130	0 days	2007/9/28	2011/4/19	2007/9/28	2011/4/19					P	
not for elleric from 344 days 2000/0301	Commencement of Work		1 day	2007/9/28	2007/9/28	2007/9/28	2007/9/28	, _L					
163 550 2000 2	Possession to Portion of the Site (Area P		44 days	2007/9/29	2008/5/29	2007/9/29	2008/5/29					· · ·	
(b) (c) days	Wei Saason		55 days	2008/5/30	2008/10/31	2008/5/50	2008/10/31	;			- • •		
(i) (i) <td>Tamb. Site Access</td> <td></td> <td>40 days</td> <td>2008/11/1</td> <td>2008/12/10</td> <td>2008/11/1</td> <td>2008/12/10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Tamb. Site Access		40 days	2008/11/1	2008/12/10	2008/11/1	2008/12/10						
(64) 200 organization	Sila Clearance		20 days	2008/12/11	2008/12/30	2008/12/11	2008/12/30			ì			
Stuti matters 00 days 2008/530	Chainlink Fencing Work		20 days	2008/12/11	2008/12/30	2008/12/11	2008/12/30						
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		River Imp	rovemen	t Works in L	lpper Lam T <u>Mast</u>	am Tsuen River, Sh <u>Master Programme</u>	r, She Sha nme	River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River <u>Master Programme</u>	r Tai Po River			
Task Name			- 1	的新网络水管	战争地的祸	网络聪明		2007家 2003年 前午年 84年年 84年1		2009/6 2010/9 2010/9 2011* 2011* 1617/6 2019/9 2010/9 2011*	2011年 前午年 1 後先坐	2012年 - 例外性 - 校子年
Cut Rock Slope	tope		100 days	2008/11/1	2009/2/8	2006/11/1	2009/2/8					
Pre-bored F	Pre-bored M-Pile (76 Nos)		300 days	2009/12/6	2009/12/25	2009/12/6	2009/12/25	• • •				
Loading test for pres	* and 101 19		120 days	2009/12/26	2010/4/24	2009/12/26	2010/4/24					
Base Slab			120 days	2010/4/25	2010/8/22	2010/4/25	2010/8/22					
Wall Stem			120 days	2010/5/23	2010/12/20	2010/8/23	2010/12/20					1 5. -
Construction of	Construction of Retaining Wall [TR4]		360 days	2010/4/25	2011/4/19	2010/4/25	2010/01/02				>	
Excavation Hand Prove			120 days	2010/4/23	2010/12/20	2010/8/23	2010/12/20				u.	· · · · · · · · · · · · · · · · · · ·
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Wet Season (April 1	N CHURD CHURD CHURD CHURD WEI Season (April to Oct 2009)		125 days	2008/6/29	2008/10/31	2008/6/29	2008/10/31				:	
Excavation			120 days	2008/11/1	2009/2/28	2006/11/1	2009/2/28					
Rockfill & Blinding	Binding		120 days	2008/11/16	2009/3/15	2008/11/16	2009/3/15					
Base Stab Structure	Structure		131 days	2008/11/21	2009/3/31	2008/11/21	2009/3/31					
Wet Seaso	Wel Season (April to Oct 2010)		146 days	2009/4/1	2009/8/24	2009/4/1	2009/8/24					
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Install Uucts/ Met Season	Install Ductor encing/Raingscurancege Mar Season		214 days	2010/4/1	2010/10/31	2010/4/1	2010/10/31					
Foolbridga	Foolbridge (TB5 & TB7)		125 days	2010/11/1	2011/3/5	2010/11/1	2011/3/5		:::			
Dwart Wall			30 days	2011/3/5	2011/4/4	2011/3/6	2011/4/4				<u></u>	· · · ·
Demolition	Demolition of Existing Footbridge		15 days	2011/4/5	2011/4/19	2011/4/5	2011/4/19				- 	•
Footbridge, Pli	Footbridge, Platform and CutiFill Slope		170 days	2010/11/	2011/4/19	2010/11/1	2011/4/19	,				
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Footpaths Roy Citizents			60 days	2011/1/20	2011/3/20	2011/1/20	2011/3/20					
Construct Cascade	Cascade		30 days	2011/3/21	2011/4/19	2011/3/21	2011/4/19		• • •		63	
Commutation of Area N			0 days	2011/4/19	2011/4/19	2011/4/19	2011/4/19				→.	
			•									
Completion of Work at Section 3	ection 3		0 days	2011/4/19	2011/4/19	2011/4/19	2011/4/19				\$	
Section 4 - Box Culvert at Ping Long	ina Lona		730 days	2007/9/28	2009/9/26	2007/9/28	2009/9/26			P		
Section 4 - Box Culvert [Area A]	[Area A]	2.2.	T30 days	2007/9/28	2009/9/26	2007/9/28	2009/9/26			P		• • •
Commencement of Works	Works		1 day	2007/9/28	2007/9/28	2007/9/28	2007/9/28	}	111			
Possession to Portic	Possession to Portion of the Site (Area A)	. ·	0 days	2007/9/28	2007/9/28	2007/9/28	2007/9/26	•	••••			
Material Submission			90 days	2007/9/29	2007/12/27	01/1/8//JC	200/17/2/27					
Material Submission Approval	n Approval		30 davs	2007/8/29	2007/10/26	2007/9/29	2007/10/28	• • •				
Annication of Excavation Permit	ation Permit		60 days	2007/9/29	2007/11/27	2007/9/29	2007/11/27					
Preparation and Sut	Preparation and Submission of TTA on Lam Kam Road to	am Road to	30 days	2007/9/29	2007/10/28	2007/9/29	2007/10/28					
RMO and TD annural of TTA			21 days	2007/10/29	2007/11/18	2007/10/29	2007/11/18	• <u>•</u> ••	::::			
Site Clearance		and the second sec	60 days	2007/5/29	2007/11/27	2007/9/29	2007/11/27					
	Task		Critical Ta	Critical Task Progress		Rolled Up Task		Rolled Up Progress	sediess	Project Summary	George Alexandra	() and the second
Project: Master Programme (REV.7) Data Date: Jan 2009	Task Progress		Milestone	\$		Rolled Up Critic	Rolled Up Critical Task [[]]					
ant: MCAL	Critical Task		Summary	Þ		Rolled Up Milestone	stone	External Tasks	sks			
A REAL PROPERTY OF A REA					The second s							

Appendix J: Complaint investigation report and log

Re EP	port for Complaint/ Concern f: DC0706-CL-090701(EPD) D Complaint Ref: N/A eet: <u>1 of 4</u>	
	CIPIENT	0. 14
Na De	me: Chiu Hing Construction & Transportation tails: EPD formally informed Environmenta pollution caused by drainage improvem	l Team, on 03 rd July 2009, regarding a complaint on environmental
Re	ceived Date: 03rd July 2009	Received Time:
СС	OMPLAINANT / Concern	
	ume: N/A ldress: N/A	Tel: <u>N/A</u>
	OMPLAINT	
	Safety DOthers	□Odour ☑Environment □Traffic/Pedestrian
Ev Lo	vent Date and Time: 27 June 2009 ocation: A complaint was recorded for the well as vegetation loss at area DE VESTIGATION RESULTS & MITIG A complaint on 27 June 2009 was recorded	water quality in the section of UTPR nearby Sha Po Chai Village, as 12, lot232. ATION MEASURES 2d regarding water quality of UTPR nearby Sha Po Chai Village and
Ev Lo <u>IN</u>	 vent Date and Time: 27 June 2009 vecation: A complaint was recorded for the well as vegetation loss at area DE vestigation loss at area DE vestigation and the second second vegetation loss at area DD21, lot232. ET we 	water quality in the section of UTPR nearby Sha Po Chai Village, as 2, lot232. ATION MEASURES ed regarding water quality of UTPR nearby Sha Po Chai Village and as informed by EPD on 03 July 2009 for this incident. arranged a site investigation with the representatives from ER, IEC and
Ev Lo <u>IN</u> 1.	 vent Date and Time: 27 June 2009 bocation: A complaint was recorded for the well as vegetation loss at area DE VESTIGATION RESULTS & MITIG A complaint on 27 June 2009 was recorded vegetation loss at area DD21, lot232. ET we As per the EM&A Manual section 9.3, ET a Contractor, on 08 July 2009 to resolve the a During the investigation, river water was 	water quality in the section of UTPR nearby Sha Po Chai Village, as 22, lot232. ATION MEASURES ed regarding water quality of UTPR nearby Sha Po Chai Village and as informed by EPD on 03 July 2009 for this incident. arranged a site investigation with the representatives from ER, IEC and bove complaint.
Ev Lo <u>IN</u> 1. 2.	 vent Date and Time: 27 June 2009 vecation: A complaint was recorded for the well as vegetation loss at area DE VESTIGATION RESULTS & MITIG A complaint on 27 June 2009 was recorded vegetation loss at area DD21, lot232. ET w As per the EM&A Manual section 9.3, ET a Contractor, on 08 July 2009 to resolve the a During the investigation, river water was major works of river-based excavation has Investigation also covered the area DD21, 	water quality in the section of UTPR nearby Sha Po Chai Village, as 22, lot232. ATION MEASURES ed regarding water quality of UTPR nearby Sha Po Chai Village and as informed by EPD on 03 July 2009 for this incident. Arranged a site investigation with the representatives from ER, IEC and above complaint. observed and found to be clear in the concerned area (Fig.1-4). No been carried out since April 2009, as informed by ER and Contractor.
Ev Lo <u>IN</u> 1. 2. 3.	 vent Date and Time: 27 June 2009 vent Date and Time: 27 June 2009 vection: A complaint was recorded for the well as vegetation loss at area DE VESTIGATION RESULTS & MITIG A complaint on 27 June 2009 was recorded vegetation loss at area DD21, lot232. ET w As per the EM&A Manual section 9.3, ET a Contractor, on 08 July 2009 to resolve the a During the investigation, river water was major works of river-based excavation has Investigation also covered the area DD21, area (Fig.5 & 6). As reported by the contract A follow up meeting was held at site with 	water quality in the section of UTPR nearby Sha Po Chai Village, as 22, lot232. ATION MEASURES ed regarding water quality of UTPR nearby Sha Po Chai Village and as informed by EPD on 03 July 2009 for this incident. arranged a site investigation with the representatives from ER, IEC and bove complaint. observed and found to be clear in the concerned area (Fig.1-4). No been carried out since April 2009, as informed by ER and Contractor. lot232. Bare soil surface with thin vegetations were observed in tha
Ev Lo <u>IN</u> 1. 2. 3. 4.	 vent Date and Time: 27 June 2009 vecation: A complaint was recorded for the well as vegetation loss at area DE VESTIGATION RESULTS & MITIG A complaint on 27 June 2009 was recorded vegetation loss at area DD21, lot232. ET w As per the EM&A Manual section 9.3, ET a Contractor, on 08 July 2009 to resolve the a During the investigation, river water was major works of river-based excavation has Investigation also covered the area DD21, area (Fig.5 & 6). As reported by the contract A follow up meeting was held at site with of the same day. Remedial actions concern 	water quality in the section of UTPR nearby Sha Po Chai Village, as 22, lot232. ATION MEASURES ed regarding water quality of UTPR nearby Sha Po Chai Village and as informed by EPD on 03 July 2009 for this incident. arranged a site investigation with the representatives from ER, IEC and above complaint. observed and found to be clear in the concerned area (Fig.1-4). No been carried out since April 2009, as informed by ER and Contractor. lot232. Bare soil surface with thin vegetations were observed in tha stor, it has been started to replant at the area with local vegetation. participation of the ET, ER, IEC and Contractor after the investigation

Page 1 of 1

RECOMMENDATIONS

- No major construction activities have been carried out since April 2009 that unlikely cause contamination to the river water quality. Furthermore, no turbid water was found in the river channel during the site inspection. Still, contractor was reminded to be cautious on the condition of water quality according to the requirements of EP and applied water discharge license.
- 2. The contractor was recommended to reinstate the areas at DD21, lot 232 by adopting an intensive replanting program as soon as possible. Contractor was also recommended to seek for professional opinions from landscape architect regarding suitable species and methodology for replanting.
- ET will monitor the reinstatement progress in the concerned area through weekly site inspections for 1 month. The condition will be reviewed in the SSEMC meeting in August. Monitoring results will be included in the monthly EM&A report.

Signed:

Date: 10-07-2009

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Fig.1 - Water quality was observed to be clear at ch.50 (UTPR)



Fig.2 – River water passing through the boulder trap of UTPR was observed to be clear



Fig.3 – Water quality was observed to be clear at the lower stream area of the project site (UTPR)



Fig.4 – Water quality at the lower stream area of the project site (UTPR) 2





Fig.5 – Condition of Area DD21, lot232 in the complaint stated

Fig.6 - Bare soil/ rock surface with thin vegetations was observed in the area



Ref: N/A	file lose	To be followed up with the remedial	actions taken for the vegetation	loss at DD21, lot232			
	Investigation/Mitigation Action	A complaint on 27 June 2009 was recorded regarding water quality of UTPR near Sha Po Chai Village and vegetation loss at area DD21, lot232. ET was informed by EPD on 03 July 2009 for this incident.	As per the EM&A Manual section 9.3, ET arranged a site investigation with the representatives from ER, IEC and Contractor on 08 July 2009 to resolve the above complaint.	During the investigation, river water was observed and found to be clear in the concerned area. No major works of river-based excavation has been carried out since April 2009, as informed by ER and Contractor.	Investigation also covered the area DD21, lot232. Bare soil surface with thin vegetations were observed in that area. As reported by the contractor, it has been started to replant at the area with local vegetation.	A follow up meeting was held at site with participation of the ET, ER, IEC and Contractor after the investigation of the same day. Remedial actions concerning vegetation loss at the concerned area have been proposed during the meeting.	
		1)	5)	3)	4)	5)	
	Details of Complaint	A complaint was recorded for the water quality in the section of UTPR nearby Sha Po Chai Village, as well as vegetation loss	at area DD21, lot232.				
	Complainant/ Date of Contact	A complaint received by Environmental Team via EPD on					
	Event Date/Location	27 June 2009, River section nearby Sha Po Chai Village of Upper	lai Po Kiver (UTPR)				
	Log Ref	Our Ref: DC0706-CL-0 90701 (EPD)	olaint Ref: Avaliable				

COMPLAINT / CONCERN LOG

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6) The following suggestions are recommended,	- Contractor was reminded to be cautious on the condition of water quality of UTPR according to the requirements of EP as well as applied water discharge license.	 The contractor was recommended to reinstate the areas at DD21, lot 232 by adopting an intensive replanting program as soon as possible. Contractor was recommended to seek for professional opinions from landscape architect about suitable species and methodology for replanting. 	- ET will monitor the reinstatement progress in the concerned area through weekly site inspections for 1 month. The condition will be reviewed in the SSEMC meeting in August. Monitoring results will be included in the monthly EM&A report.	Date: 10 th July 2009
				Filed by Environmental Team Leader: