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

ENVIRONMENTAL MONITORING AND AUDIT

MONTHLY EM&A REPORT of

UPPER TAI PO RIVER

for June 2010

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Report submission and revision: First submission on 7th July 2010

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Executive summary

This is the twenty-second 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 June 2010

to 30th June 2010. No major construction activity was carried out in this reporting

month..

The Environmental Team (ET) is responsible for the EM&A works required in the

EM&A manual. Site inspections were carried out on weekly basis to investigate and

audit the equipment and work methodologies with respect to pollution control and

environmental mitigation. The weekly inspections records and photos taken were

kept.

The last ecological impact monitoring was carried out in January 2010 and the next

ecological impact monitoring was scheduled on 20^{th} July 2010. 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.

Chiu Hing Construction & Transportation Co., Ltd

 $\begin{array}{c} DC/2007/06 \\ River \ improvement \ works \ in \ Upper \ Tai \ Po \ River \\ Twenty-second \ Monthly \ Report \end{array}$

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 wet season. No major construction activity will be carried out in the upcoming month.

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 twenty-second 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 June 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

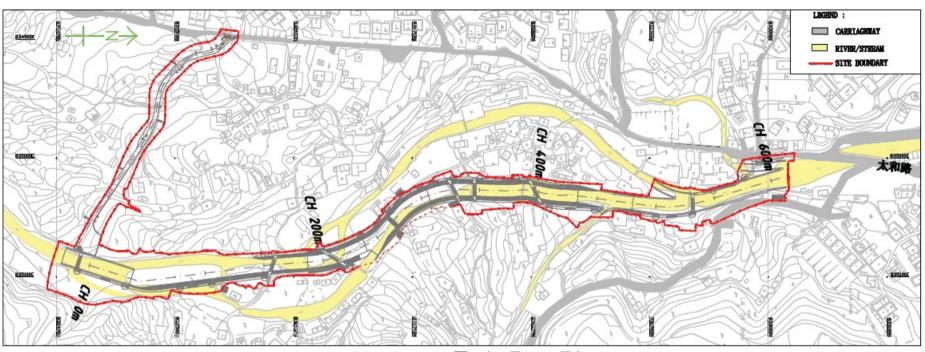
The construction of the proposed improvement works for Upper Tai Po River has been commenced on September 15th 2008 and anticipated to complete in April 2011.

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
- (3) 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

Fig 2.1 Layout of construction area



Upper Tal Po River

2.4 Construction activities for the reporting period

No major construction activity was carried out by the contractor in this reporting month except some site clearance and preparation works..

2.5 Construction activities for the next reporting period

There will still no major construction activity to be carried out in the next reporting month.

2.6 Non-compliance with the environmental performance limits

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

2.7 Summary of complaints

There was no formal complaint received in the reporting month. Totally, nine complaints had been received since the commencement of the contract. The cumulative complaint log is shown in Appendix F.

3.0 Ecological monitoring results

There was no ecological impact monitoring or capture survey scheduled within this reporting month.

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.

TABLE 4.1 Description of Noise Sensitive Receivers

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

Noise monitoring was carried out by the Environmental Team on weekly basis for this reporting month on 4th, 11th, 18th and 25th June 2010.

Measured $L_{eq~(30min)}$ results ranged from 46.1dB(A) to 65.1dB(A). And therefore, no exceedance was recorded within the reporting period.

For further details of the monitoring results, graphical plots and the location plan, please refer to the 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 2nd, 9th, 15th, 23rd and 30th June 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 1st, 7th, 14th and 21st June 2010. Details of findings were summarized in Table 6.2.

Table 6.1 Summary results of site inspections findings

Date	Findings	Identification	Advice from ET	Action taken	Closing date	Remarks
26 May 10	A fuel drum without	Observation	Contractor was advised to	The concerned fuel drum has	02 June 10	
	secondary containment was		provide proper drip pan to fuel	been removed from the site		
	found at the haul access at		and chemical containers using	area prior to the inspection on		
	approximate ch.450		on site; idling chemicals or fuel	02 June		
			should be relocated to			
			designate chemical storage to			
			prevent spillage to the river			
			stream and surrounding area			
02 June 10	Muddy water was found	Observation	Although it was reported by the	Generation and overflow of	09 June 10	
	seeping into the river		Contractor that partial of the	muddy water was not		
	channel from the haul		muddy water was generated	observed during the		
	access and temporary		from the upstream area.	inspection on 09 June		
	drainage at approximate		Contractor was still			
	ch.50		recommended to implement			
			necessary protective measures			
			to prevent erosion and			
			generation of runoff			
09 June 10	No particular observation	N/A	N/A	N/A	N/A	
15 June 10	No particular observation	N/A	N/A	N/A	N/A	
23 June 10	No particular observation	N/A	N/A	N/A	N/A	
30 June 10	Chemical containers and a	Observation	Contractor was advised to	To be followed during next	Ongoing	
	can of lubricant without		provide proper drip pans for	reporting period		
	secondary containment		chemical and fuel using on site;			
	were observed at material		chemical and fuel no in use			
	storage area of Access		should be relocated to			
	Road D		designate chemical storage			
			area for further storage			

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
01 June	No Major findings for this	No Advice is No Action is required to		N/A
2010	inspection	required	be taken	
07 June	No Major findings for this	No Advice is	No Action is required to	N/A
2010	inspection	required	be taken	
14 June	No Major findings for this	No Advice is	No Action is required to	N/A
2010	inspection	required	be taken	
21 June	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 June 2010.

6.3 Recommendations

Contractor was advised to pay serious attention to the implementation status and effectiveness of water quality mitigation measures to prevent erosion and runoff from the site area. Temporary drainage system diverting storm water should be well formed with sufficient protective measures.

Issue of chemical handling was also concerned in this reporting period as chemical containers without secondary containment measures implemented were found storing at the open space of site. Contractor was reminded to provide proper drip pans for such chemicals and/or fuel containers using on site. Otherwise, those should be relocated to designate chemical storage when not in use.

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.

From the report of Contractor, C&D materials generated were all reused in the project and therefore no inert waste was disposed from the project.

Table 7.1 Summary of Waste generated and disposed in June 2010

Type of waste	Amount generated	Amount reused	Amount disposed
Inert waste	$0.01 \mathrm{m}^3$	$0.01 \mathrm{m}^3$	0
Non-inert waste	0.02 tonnes	0	0.02 tonnes
Chemical caste	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.

Table 8.1 Summary of Environmental Licensing and Permit Status

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				

9.0 Future key issues

No major construction activity will be carried out in the upcoming month except some site clearance and preparation works.

Contractor was reminded to implement sufficient mitigation measures to minimize water quality impact during the course of construction works. Site water, underground water, runoff and any waste water arising from construction site should be diverted to effective site water treatment facility before discharge.

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.

Site clearance 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

No major site activity was carried out by the Contractor in this reporting period.

Regular site meetings and inspection audits led by the seniors for discussing environmental issues were held among project proponent, Contractor and the Environmental Team 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 event recorded within this reporting month.

There was no complaint recorded in this reporting month.

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

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

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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.

APPENDIX TABLE 1 Event / Action plan table for Ecology

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						

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Appendix B: Action and limit level for const	ruction 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

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Appendix C: Reference standards for vibration	
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.

Chiu Hing Construction & Transportation Co., Ltd	DC/2007/06 River improvement works in Upper Tai Po River Twenty-second Monthly Report
Appendix D: Noise monitoring results, graphic	cal plots and location plan

Location	Leq 30min	L ₁₀ 30min	L ₉₀ 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	55.0	68.8	67.2	4-Jun-10	10:44-11:14		Background noise from traffic	Sunny	Façade
UTP 2	54.1	65.4	63.1	4-Jun-10	11:21-11:51		Background noise from traffic	Sunny	Façade
UTP 3	58.7	62.2	60.3	4-Jun-10	15:44-16:14		N/A	Sunny	Façade
UTP 4	47.3	54.6	52.2	4-Jun-10	15:09-15:39		N/A	Sunny	Façade
UTP 5	43.4	52.7	50.4	4-Jun-10	14:36-15:06		N/A	Sunny	Façade
UTP 6	46.6	54.3	52.4	4-Jun-10	14:04-14:34	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location as no construction activity was being carried out	N/A	Sunny	Façade
UTP 7	47.6	53.4	52.0	4-Jun-10	13:32-14:02		N/A	Sunny	Façade
UTP 8	50.3	55.9	54.1	4-Jun-10	13:00-13:30		N/A	Sunny	Façade
UTP 9	48.4	56.8	54.1	4-Jun-10	10:06-10:36		N/A	Sunny	Façade
UTP 10	46.8	53.2	50.8	4-Jun-10	09:30-10:00		N/A	Sunny	Façade
UTP 11	47.2	57.3	54.1	4-Jun-10	08:56-09:26		N/A	Suuny	*Free field

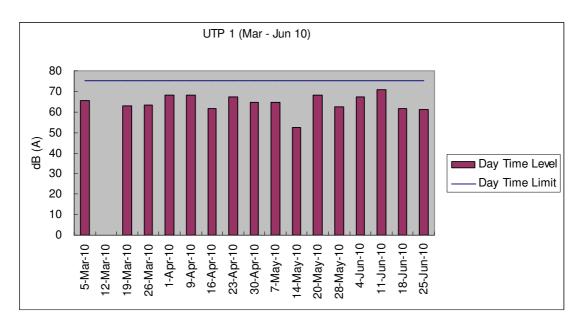
Location	Leq 30min	L ₁₀ 30min	L ₉₀ 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	651	72.8	70.8	11-Jun-10	13:35-14:05		Background noise from traffic	Sunny	Façade
UTP 2	55.2	61.5	60.6	11-Jun-10	13:01-13:31		Background noise from traffic	Sunny	Façade
UTP 3	53.7	60.1	58.2	11-Jun-10	14:08-14:38		N/A	Sunny	Façade
UTP 4	61.3	65.4	64.7	11-Jun-10	14:40-15:10		Background noise from traffic	Sunny	Façade
UTP 5	56.2	60.0	57.9	11-Jun-10	15:12-15:42		N/A	Sunny	Façade
UTP 6	46.2	58.8	56.4	11-Jun-10	15:45-16:15	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location as no construction activity was being carried out	N/A	Sunny	Façade
UTP 7	52.8	59.0	57.6	11-Jun-10	16:18-16:48		N/A	Sunny	Façade
UTP 8	52.7	60.8	58.1	11-Jun-10	16:50-17:20		N/A	Sunny	Façade
UTP 9	46.4	55.3	51.7	11-Jun-10	11:15-11:45		N/A	Sunny	Façade
UTP 10	46.2	54.8	46.2	11-Jun-10	10:40-11:10		N/A	Sunny	Façade
UTP 11	55.6	55.8	46.1	11-Jun-10	10:08-10:38		N/A	Suuny	*Free field

Location	Leq 30min	L ₁₀ 30min	L ₉₀ 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	53.3	63.2	61.6	18-Jun-10	11:24-11:54		Background noise from traffic	Cloudy	Façade
UTP 2	53.3	64.3	60.4	18-Jun-10	10:48-11:18		Background noise from traffic	Cloudy	Façade
UTP 3	58.7	63.4	60.8	18-Jun-10	15:46-16:16		N/A	Cloudy	Façade
UTP 4	44.7	53.2	50.3	18-Jun-10	15:10-15:40	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location as no construction activity was being carried out	N/A	Cloudy	Façade
UTP 5	46.2	54.4	51.4	18-Jun-10	14:38-15:08		N/A	Cloudy	Façade
UTP 6	48.1	53.2	51.4	18-Jun-10	14:04-14:34		N/A	Cloudy	Façade
UTP 7	45.6	54.6	51.8	18-Jun-10	13:31-14:01		N/A	Cloudy	Façade
UTP 8	49.4	54.8	52.3	18-Jun-10	13:00-13:30		N/A	Cloudy	Façade
UTP 9	49.6	58.0	54.3	18-Jun-10	09:57-10:27		N/A	Cloudy	Façade
UTP 10	47.3	53.3	51.6	18-Jun-10	09:21-09:51		N/A	Cloudy	Façade
UTP 11	49.5	55.6	53.8	18-Jun-10	08:48-09:18		N/A	Cloudy	*Freefield

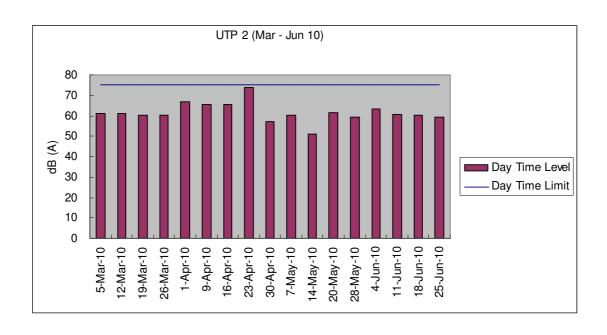
Location	Leq 30min	L ₁₀ 30min	L ₉₀ 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	58.6	65.0	61.3	25-Jun-10	10:12-10:42		Background noise from traffic	Cloudy	Façade
UTP 2	54.4	62.2	59.3	25-Jun-10	10:46-11:16		Background noise from traffic	Cloudy	Façade
UTP 3	57.2	63.3	60.4	25-Jun-10	11:23-11:53		N/A	Cloudy	Façade
UTP 4	44.7	54.0	52.3	25-Jun-10	15:44-16:14	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location as no construction activity was being carried out	N/A	Cloudy	Façade
UTP 5	44.6	51.8	51.8	25-Jun-10	15:10-15:40		N/A	Cloudy	Façade
UTP 6	43.6	57.2	55.3	25-Jun-10	14:37-15:07		N/A	Cloudy	Façade
UTP 7	41.7	50.9	50.6	25-Jun-10	14:05-14:35		N/A	Cloudy	Façade
UTP 8	41.6	53.5	53.3	25-Jun-10	13:33-14:03		N/A	Cloudy	Façade
UTP 9	48.8	59.2	56.7	25-Jun-10	13:00-13:30		N/A	Cloudy	Façade
UTP 10	43.4	52.2	51.3	25-Jun-10	09:23-09:53		N/A	Cloudy	Façade
UTP 11	51.1	56.7	56.4	25-Jun-10	08:50-09:20		N/A	Cloudy	*Freefield

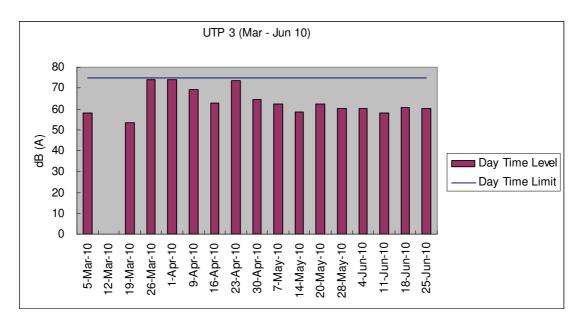
Graphical plot for noise measurements

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 March 2010 to June 2010.

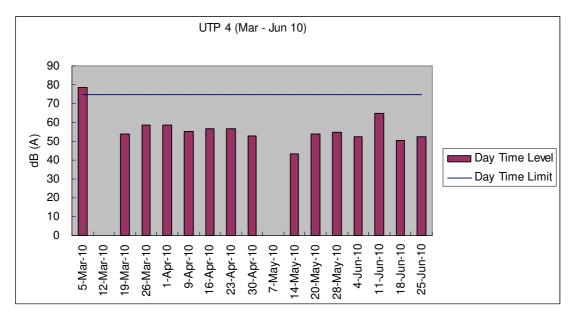


Noise monitoring for 12th March 2010 was cancelled due to heavy rain

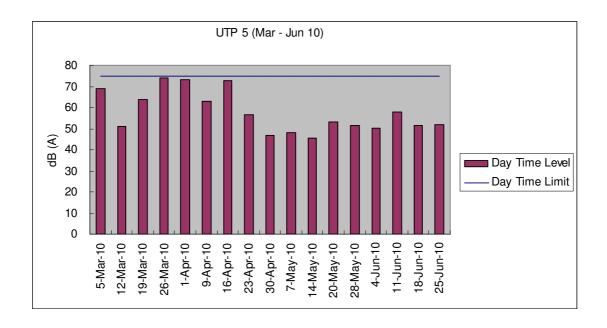


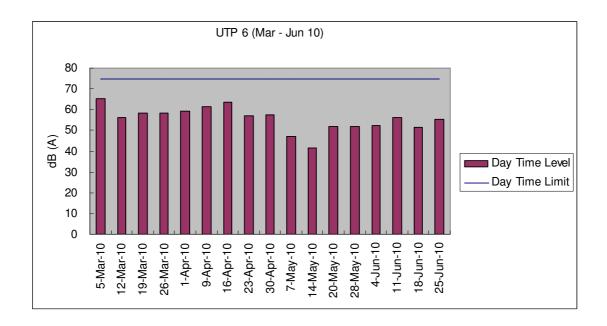


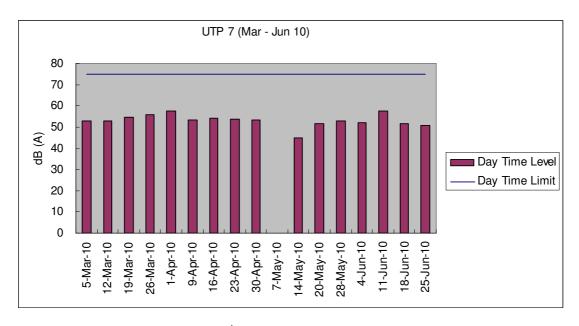
Noise monitoring for 12th March 2010 was cancelled due to heavy rain



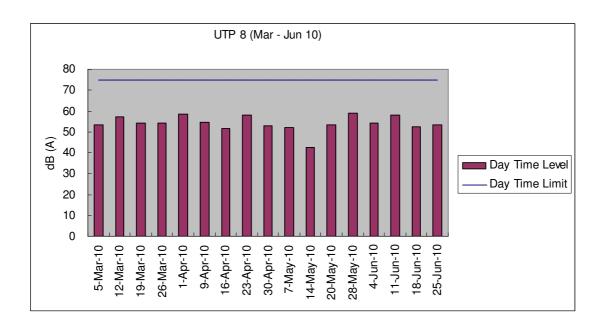
Noise monitoring for 12th March 2010 and 7th May 2010 were cancelled due to heavy rain

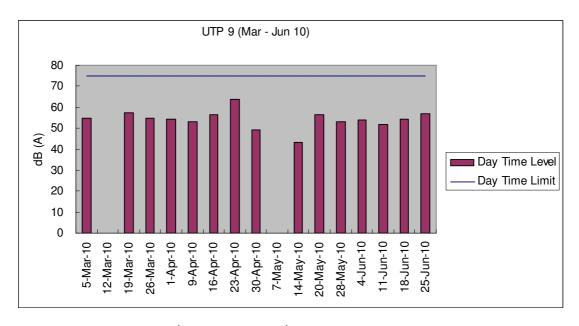




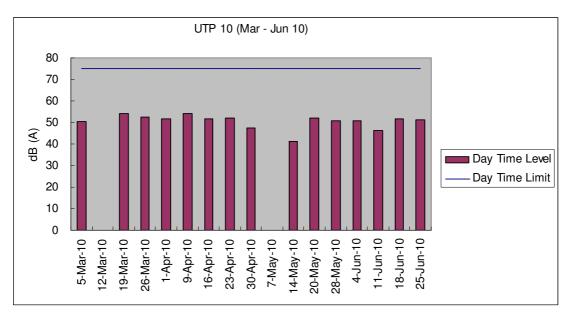


Noise monitoring for 7th May 2010 was cancelled due to heavy rain

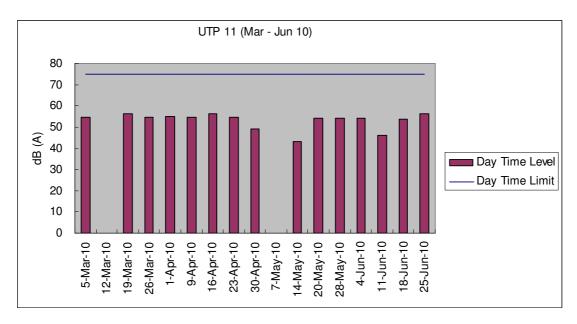




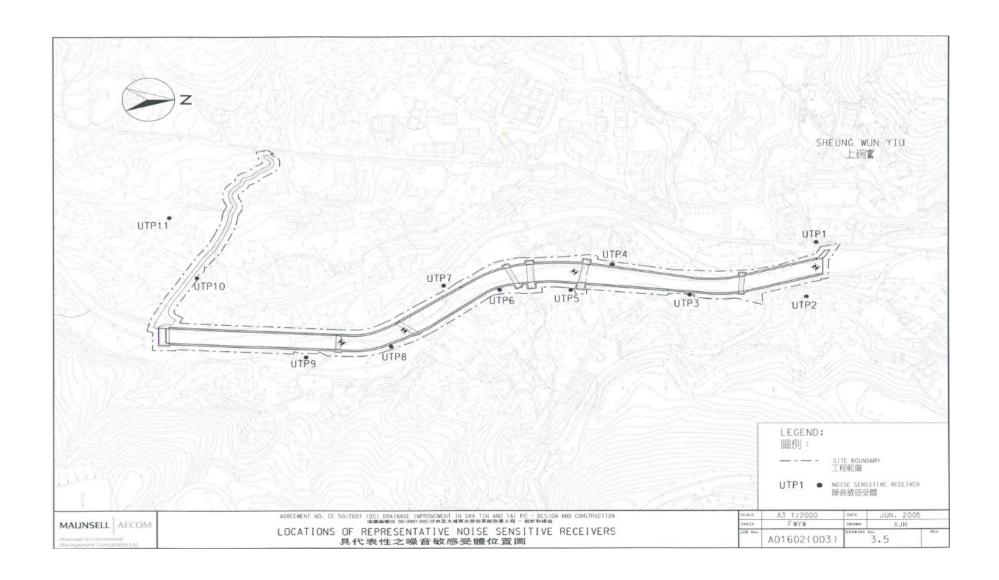
Noise monitoring for 12th March 2010 and 7th May 2010 were cancelled due to heavy rain



Noise monitoring for 12th March 2010 and 7th May 2010 were cancelled due to heavy rain



Noise monitoring for 12th March 2010 and 7th May 2010 were cancelled due to heavy rain



hiu Hing	Construction & Transportation Co., Ltd	I	River improvement	DC/2007/06 works in Upper Tai Po River Ewenty-second Monthly Report
	Appendix E: Monitoring	schedule for the	present and next	reporting period

Chiu Hing Construction & Transportation Co., Ltd

Master Schedule of EM&A works in June 2010

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

Master Schedule of EM&A works in July 2010

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

Appendix F: Cumulative complaint log

Environmental	Cumulative no.	No. of complaint	Overall Total
Parameters	Brought forward	June 2010	
Air/Dust	1	0	1
Noise	2	0	2
Water	6	0	6
House Keeping	0	0	0
Hygiene			
Chemical waste	0	0	0
Total	9	0	9

Chiu Hing Construction & Transportation Co., Ltd		River improvement w	DC/2007/06 orks in Upper Tai Po River enty-second Monthly Report
Appendix G: Implementation mitigation measures	status	of environmental	protection and

Implementation status of environmental protection and mitigation

Environmental	Protection / Mitigation Measures	Implementation	Follow-up
Aspect		status	action
Construction Noise	No percussive piling shall be carried out	Implemented	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 carried out in stages and excavation area for each stage shall be limited to section of half width of the channel and less than 100m long at any one time in order to maintain water flow within the river during construction stage	Implemented	Not required
	Land-based plant shall be employed and site run-off shall be directed towards regularly cleaned and maintained silt traps and oil / grease separators to minimize leakage and loss of sediments during excavation	Implemented	Not required
	Large boulders removed from the Tai Po River within the Project during excavation shall be re-instated upon completion of works A section of 150m long natural riverbank on the western side of the river channel (Ch0 –Ch150) shall be retained	Implemented	Not required
	The excavation area shall be enclosed with bunds or barriers and dewatered prior to excavation to minimize the impacts upon the downstream of the Tai Po River	Implemented	Not required

1		1	
	Provide silt trap and oil interceptor to remove the oil, lubricants, grease,	Improvement	Rectified
	silt, grit and debris from the wastewater before pumped to the public	required	
	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		

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	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

Cumulative waste flow table since 15th September 2008

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
March 2010	0	0	0
April 2010	0	0	0
May 2010	0	0	0
June 2010	0	0.02 tonnes	0
Total	36.9m ³	2.02 tonnes	20kg

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

Chiu Hing Construction &	Transportation	Co., Ltd
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DC/2007/06 River improvement works in Upper Tai Po River Twenty-second Monthly Report

Appendix I: Construction programme

						E 1	Works in Opper Lam Isben Kiver, She Shan Kiver & Upper Tai Po River Master Programme of Upper Tai Po River (version 9)
ID Lask Name	Name		Duration	Start	Finish	Predecessors	2010
Progr	Programme of Upper Tai Po River	WHI III WHAT I de least to the second consequence of the second of the s	840 days	7		2012	AND JOHN JOHN THE STATE OF THE
7 6	Site Cleurance and Haul Road Maintenance Water Diversion	intenance	700 days			31/3/2012	
4	Area L (Acess D-Ch110)		657 days	ys 25020200 ys 250202010	31552512	2012	
٧,	Footpath and Dwarf Wall (Ch 0-110)	7a 0-110)	52 days			1012	
3	Lighting at Access D		125 days	_		2012	<u> </u>
50	River Bed formation (Ch 45-110)	-110)	/8 days	ys 2/1/2012	31/3/2012	012	
22	Footbridge TB01 (boulder trap, bay 3)	rap, bay 3)	6 days			010	
24	Retaining Wall at Access D (Boulder Trap)	(Boulder Trap)	84 days	.,		010	
25	Retaining Wall (RHS)	:	57 days			010	
62	Drain-off pipe at Boulder Trap (Ch 45)	rap (Cb 45)	45 days	ys 10/6/2010 ys 25/2/2010		31/1/2010	
£	Tree Transplant		12 days			1010	P
38	Gabion Wall at Boulder Trap Entrance (Ch23)	to Botrance (Ch23)	9 days			010	
72	Filling Work at Boulder Trap (RHS of downstream) Roy Colorer TROS (Ch. 45)	ap (RHS of downstream)	20 days	ys 1/4/2010		0010	
73	Construction of Base Slab	lab	20 days			17/5/2010	
	Construction of Wall Stem and Top Slab	tem and Top Slab	29 days		1	19/6/2010	
82	Area P (Ch 110- Ch 230)		622 days			2012	
S6 3	River Bed formation (Ch 110-230)	(0-230)	52 days			1012	
o é	Ch 110 - 150	Ch 110-230)	78 days		,	2012	
F	Maintainence Staircase (Ct. 120 PHS)	CF 130 8HS	5/4 (2			4/2/2012	
6	Gabion (Ch. 140, 150 I HS) TG4	(CIL 150 KHS)	b days		=	7/9/2010	B
7.6	Footbridge TR02 (Ch. 150)	F. 104	41 days	ys 2/10/2010	~	9/11/2010	
25	Construction of Abutment A	butment A	27 days			8/6/2010	
99.1	Construction of Abutment B	butment B	28 days	•		8/5/2010	
=	Construction of Decking	ecking	38 days		77	1011	British and San
61	Lighting at Footbridge TB02	idge TB02	45 days	_		4/2/2012	
9 2	Ca 150 - 230 Gabion Wall (Ch. 150-190 I HS) TCA	POL USA TON	459 days	ys 2/10/2010		1012	
621	Gabion Wall (Ch 150-160 RHS) TG2	60 RHS) TG2	S days		0102/11/2010	010	
152	Gabion Wall (Ch 160-185 RHS) TG4	85 RHS) TG4	21 days	_		010	- Comment
155	Gabion Wall (Ch 185-210 RHS) TG1	210 RHS) TG1	19 days		7	9011	
138	Gabion Wall (Ch 210-225 RHS) TGI	225 RHS) TGI	42 days	2		2011	
145	Step 1 (Cn 180) Maintainence Staircase (Ch 180 LHS)	Ch 180 LHS	30 days	ys. 15/2/2012 ws 17/17/2010	012 20/3/2012	2012	
147	Lighting CH 175-250		85 days			7/2/2011	
851	Footbridge TB03 (Ch 210)	310)	423 days			7/2/2012	Control of the Contro
2 2	Construction of Abutment B	butment B	26 days			2010	Parameter
20 20	Construction of Decking	ecking der TRO3	40 days	ys 1/11/2011	91	2011	
÷	Area N (Ch230-Ch615)		654 days			1/3/2012	
1	River Bed formation (Ch 230-450)	10-450)	52 days			2012	
181	Footpath and Dwarf Wall (Ch 230-615)	Ch 230-615)	157 days			2012	Participation of the Control of the
) Se	Ch 230-330		45 days 506 deue	ys 1/11/2010	010 22/12/2010	010	
194	Step 2 (Ch 260)		30 days			20/3/2012	D-manusch 1
26 58	Cascade (Ch 275)		45 days	_		2011	
301	Gabion Wall (Ch 230-270 LHS) TG2	270 LHS) TG2	45 days	ys. 1/2/2011	011 24/3/2011	2011	D. Marian and M. M. Marian and M.
384	Retaining Wall (Ch 27)	31 (replaced by AD1)				010	Constant D
208	Retaining Wall (Ch 27)	Retaining Wall (Ch 270-315 RHS) TR1 (replaced by AD1)	: -			716/2010	
212	Step 3 (Ch 310)	(3111316 10)	30 days		3	5/1/2012	P
23.7	Gabion Wall (Ch 315-330 LHS) TG2	30 LHS) TG2	31 days 25 days.	ys 15/11/2010 ys. 2/10/2010	010 20/12/2010	010	
220	Gabion Wall (Ch 320-330 RHS) TG2	330 RHS) TG2	25 days			010	
223	Footbridge TB04 (ch 330)	30)	143 days			1102	The state of the s
12 St	Construction of Abutment A	butment A	28 days			0102	America D
240	Construction of decking	cking	28 days 41 days	ys 4/11/2010 ys 7/12/2010	010 22/1/2010	010	
Drint Date: 30		Task	Progress		S	Supramore	Althorisement and a second control of the control o
Frint Date: 30/3/2010 Revised Date: 29/3/2010			Milestone	•	E A	unntary	one &
							Date 1 (f)
		}					

Comparison of Auguster 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	Library Reserved Tiply	Lighton at Forticity Tiple 1964	Light at Nowling Title Part 1971 1972 197	The control of the				·	Kiver imp	River improvement Works in Master Pro	orks in Upper Laim Tsuen River, She Shan River & Upper Tai Po River ster Programme of Upper Tai Po River (version 9)
On the control of the part o	and and State Fig. 7. The state of the state	### 45 (20 PM 15 P	A STATE CONTRINGENTY OF THE PART OF THE PA	The control of the	Task Name		Ducation	Sturt	Finish Pr	adecessors	View in the California was a second of the California was a se
### (C. 306-24 LBS) TOZ 25 days 21/00/2010 #### (C. 306-24 LBS) TOZ 26 days 21/00/2010 ### (C. 306-24 LBS) TOZ 26 days 21/00/2010 #### (C. 306-24 LBS) TOZ 27 days 21/00/2010 ### (C. 306-24 LBS) TOZ 27 days 21/00/2010 #### (C. 306-24 LBS) TOZ	### 100/2011 17/2011 1/20211 1	### 100/2011 17/2011 1/	And Cas Seek States Table	Companies of States Table	Lighting at Footbric	ige TB04	39 days	24/1/2011	9/3/2011		. Ker. J. Jan. L. Jan. J. Ash. L. Sev. L. Live. Jan. L. Ker. Jan. L. Acr. L. Mar. J. Jan. J. Sev. L. Cet. L. Kev. J. Dec. Jan. J. Keb. J. Mar.
1	well (CS 359-35 List) TQ2 2 days 2 1702010 30002	w Well CO. Style St. Style Sty	we all Co. 534-545 LBS) T22 25 a.s. 21/07010 26 a.s. 21/07010 27 a.s. 21/07010 28 a.s. 21/07010 2	Accordance Acc	Demolition of Brid.	ge TB-A	7 days	10/3/2011	17/3/2011		•
## TROS (CA 505 EAST TOTA 125 days 21/07/01 115 days 21/07/01 115 days 21/07/01 115 days 21/07/01 115 days 21/07/01 115/01 117/20/01 117	right (10.3 35-45 RES) TQZ 2 5-45 1/102010 Strip (10.0010) 15 4 5 1/102010 Strip (10.0010) 25 5 2 1/102010 Strip (10.0010) 25 5 2 1/102010 Strip (10.0010) 26 5 2 1/102010 Strip (10.0010) 27 5 2 2 1/102010 Strip (10.0010) 28 5 2 1/102010 Strip (10.0010) 28 5 2 1/102010 Strip (10.0010) 29 5 2 1/102010 Strip (10.0010) 20 5 2 2 1/102010 Strip (10.0010) 20 5 2 2 2 2 2/102010 Strip (10.0010) 20 5 2 2 2 2 2/102010 Strip (10.0010) 20 5 2 2 2 2 2/102010 Strip (10.0010) 20 5 2 2 2 2 2/102010 Strip (10.0010) 20 5 2 2 2 2 2/102010 Strip (10.0010) 20 5 2 2 2 2 2/102010 Strip (10.0010) 20 5 2 2 2 2 2 2/102010 Strip (10.0010) 20 5 2 2 2 2 2 2 2/102010 Strip (10.0010) 20 5 2 2 2 2 2 2 2/102010 Strip (10.0010) 20 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	A	A will Co 35 95 45 185 722 25 day	15 cm 15 c	Gabion Wall (Ch 330-34	IS LHS) TG2	25 days	2/10/2010	30/10/2010		December 1
State Color State Stat	The state of Administrat A	Transcript of Admirent A	Age Page P	Continued of Authors 1	Gabion Wall (Ch 330-34	IS RHS) TG2	25 days	2/10/2010	30/10/2010		
Second Continued of Annuare 1	American of Admired A 28 days 21(4200) 611(200)	1,000 1,00	1,000 1,00	Contention of Action	Footbridge TB05 (ch 35	6	136 days	2/10/2010	9/3/2011		A second
Column C	operatedion of deckaria Jedina vi Norbiologie TSD (2012) Jedina vi Norbi	A controlled of decking at the controlled of	Substitution of decising received by ADD) 54 days 7172000 5172	Commerciacy of Section 1975 Section 1970 Sect	Construction of Abs	utneal A otneri R	28 days	2/10/2010	3/11/2010		- I - I - I - I - I - I - I - I - I - I
17.20 17.2	Application of Administration of Administra	A stay A	A chain at the control of the chain at the	April Apri	Construction of dec	king	41 days	7/12/2010	22/1/2011		Downson
25. 360 (Ch. 400) 26. 364 (Ch. 400) 27. 360 28. 364 (Ch. 400) 28. 404 (Ch. 464-400 RES) TRI (replaced by ADI) 39. 444 (Ch. 464-400 RES) TRI (replaced by ADI) 30. 444 (Ch. 464-400 RES) TRI (replaced by ADI) 30. 444 (Ch. 464-400 RES) TRI (replaced by ADI) 40. 441 (Ch. 464-400 RES) TRI (replaced by ADI) 40. 441 (Ch. 464-400 RES) TRI (replaced by ADI) 40. 441 (Ch. 464-400 RES) TRI (replaced by ADI) 40. 441 (Ch. 464-400 RES) TRI (replaced by ADI) 40. 442 (Ch. 464) 40. 440 (Ch	and Well (Ch. 455-400 ELES) TR (replaced by AD1) 4) days 21(92010 10,2010 10.03 897 10,2010 10.03 897 10,0010 10.04 87	ana Wal (C) 345-400 LB) TR (replaced by ADI) 34 days 21/02010 10/102010 10/102010 10/102010 10/102012 10/1	and Wall (C) 345-400 (EB) TRI (replaced by ADI) 54 days 21/9700 00/11/200	A control of the co	Lighting at Footbri	ige TB05	39 days	24/1/2011	9/3/2011		
### 10.5 (2.4.04) ### 10.5 (2.4.04) ### 10.5 (2.4.04) ### 20.5 (2.4	172010 172012 1	Class Clas	Class Clas	1,02,06	Retaining Wall (Ch 345	400 LHS) TR1 (replaced by AD1)	34 days	2/10/2010	10/11/2010		A. Taranana
CD 3600 36 days 317,201 57,201 CD 3600 36 days 317,201 57,201 de TBOG (CA 400) 36 days 317,201 172,201 struction of Aburneat B 28 days 393/2010 294/2010 struction of Aburneat B 28 days 317,2011 177,2011 struction of Aburneat B 3 days 317,2011 177,2021 struction of Aburneat B 3 days 317,2011 177,2021 struction of Aburneat B 4 days 317,2011 177,2021 at CH 350-380 3 days 317,2011 177,2010 can CH 350-380 3 days 317,2011 177,2010 can CH 350-380 3 days 317,2011 317,2011 can CH 350-380 3 days 317,2010 317,2011 can CH 350-380 3 days 317,2010 317,2011 can Wall (CA 460-500 LHS) TR2 3 days 317,2011 32,2011 can Wall (CA 460-500 LHS) TR3 4 days 317,2011 32,2011 can Wall (CA 460-500 LHS) TR3 4 days	1,000,000,000,000,000,000,000,000,000,0	(Ch 360) (20 days 31/201) (37/2014	(17.39) 30 days 31/201 57/2011 57/20	State Stat	Ch 350-400	AW KHS) I KI (replaced by ADI)	34 days	1/3/2010	8/4/2010		
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astruction of debattness B 28 days 293/2010 6172010 61	Descriptation of Abutanear A 28 days 41/12/2010 61/12/2010 Substruction of Abutanear B 28 days 41/12/2010 61/12/2010 Substruction of Abutanear B 28 days 11/12/2011 17/12/2011 17/12/2011 Substruction of decking 59 days 11/12/2011 17/12/2011 17/12/2011 Substruction of Abutanear B 28 days 11/12/2010 17/12/2011	Substitution of Abument A	Secondary Accordance Acco	Contention of Numerical Activation 22 days 2012010 172001	Pootbridge TB06 (Ch 40		579 days	29/3/2010	1/2/2012		American service and the servi
Section Comparison Compar	Spatial control of steching states and states are stated on of steching states and states are stated as a state and stated as a stated as a state and stated as a stated as	Section of decking at (1 days 10172011 1722011	A	Contraction of decision (1992) 1 (2012) 1 (2	Construction of Ab		28 days	4/11/2010	6/12/2010		- Comments
### Character 19/12/2011 1/12/2012 1	17/2012 17/2	17,201 1	19 19 19 19 19 19 19 19	1,200	Construction of dec	d include	41 days	1/11/201	17/12/2011		
### CH 350-380	17,000,000,000,000,000,000,000,000,000,0	State Stat	3 days 31/102010 105/2011	25 25 25 25 25 25 25 25	Lighting at Footbrit	dge TB06	39 days	19/12/2011	1/2/2012		
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26 CH 500 RHS) 45 days 47/2011 42 days 47/2011 42 days 47/2010 41 days 47/2010 48 days 47/2010	45 days 31/2011 23/2011 45 days 41/2010 41/2	des (Ch 2017 (Ch 522) des (Ch 2027) des (Ch 5027)	des (Ch 500 RHS) 45 days 4102010 28 days 4102010 7122010 7122010 7122010 7122010 7122010 7122011	Accordance of Administration	Step 6 (Ch 500)		30 days	3/1/2011	5/2/2011		
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Second Control of Abutment B	Ossistruction of Abutment B 28 days 5/11/2010 7/12/2010 Ossistruction of Cocking Charles Charl	Obstruction of Abutment B 28 days 5/11/2010 7/12/2010 7/12/2010 7/12/2010 7/12/2010 7/12/2010 7/12/2010 7/12/2010 7/12/2010 7/12/2011 7/	Obstruction of Abutment B 28 days 571/2010 7/12/2010 7/12/2010 7/12/2010 7/12/2010 7/12/2010 7/12/2010 7/12/2010 7/12/2011 7/1	Construction of decision Demolification of custing Foundridge TB-D (Ch. 525) 12 days	Construction of Ab	utment A	28 days	4/10/2010	4/11/2010		
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49 days, 4/10/2010 2 49 days 3/1/2011 105 days 1/11/2010	Dataser TB02 (ch 580) 49 days 4/10/2010 29/11/2010 ming Wall (ch 559-615) TR3 49 days 3/1/2011 28/2/2011 ing at CH 550-610 105 days 1/11/2010 2/5/2011	Julyard TB02 (ch 580) 49 days. 4/10/2010 29/11/2010 ming Wall (ch 595-615) TR3 49 days 3/1/2011 28/2/2011 ing at CH 550-610 105 days 1/11/2010 2/2/2011 Int All days 2/6/1/2007 3/1/2012 3/2/2012	Julyard TB02 (ch 580) 49 days. 4/10/2010 29/11/2010 ming Wall (ch 595-615) TR3 49 days 3/1/2011 28/2/2011 ing at CH 550-610 105 days 1/11/2010 2/2/2011 Int days 2/6/1/2007 3/1/2012 Internal of the control of the co	Calvert TBO2 (ch. 580)	Step 7 (Ch 570)	5A CH555-595 LHS	91 days 30 days	2/10/2010	15/1/2011		
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O O Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	102 days 1/11/2010 2/5/2011	102031 171711 180 011 011	102031 1717210 1737011 180 031 1717201 1737011 180 031 1717201 180 031 180 031 1717201 180 031 1717201 180 031	100 days	Retaining Wall (ch 595	615) TR3	49 days	3/1/2011	28/2/2011		Физичения (
1414 days 269/2007 1/13/2012.	1414 days 26/9/2007 31/3/2012.			Tick Summary Summary Propers Breditive General Tarks General States Note of the Propers Propers Breditive Breditive Propers Breditive Br	Lighting at CH 550-611. Ject Completion		105 days 1414 days	26/9/2017	3/3/2011		
				Tosk Summary Summary External Tasks (Managements) Split Trees Summary Protect							
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