

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

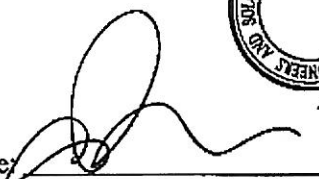

UPPER TAI PO RIVER


for November 2009

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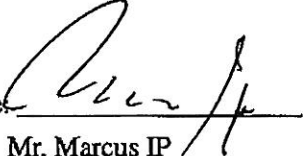
The Contents of this report have been

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Executive summary

This is the fifteenth 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 November 2009 to 30th November 2009. The major site activities in this reporting month were mainly site clearance, site access formation, noise barriers installation works, temporary drainage diversion and installation of railings on boulder trap

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

Capture survey was conducted by the Ecologist Dr. Mark Shea on 27th and 28th October 2009. For details of the findings please refer to the capture survey report shown in Appendix J. The summary of ecological site inspection findings and implementation status of environmental protection and mitigation for ecology, prepared by the Ecologist, are provided in table 6.2 and Appendix G respectively.

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

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

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

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

There was no reporting change for this month.

Site works proposed to be carried out in the upcoming month will include preparation works of site clearance and formation, installation of noise barriers, construction of footbridge as well as gabion wall.

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 fifteenth 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 November 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

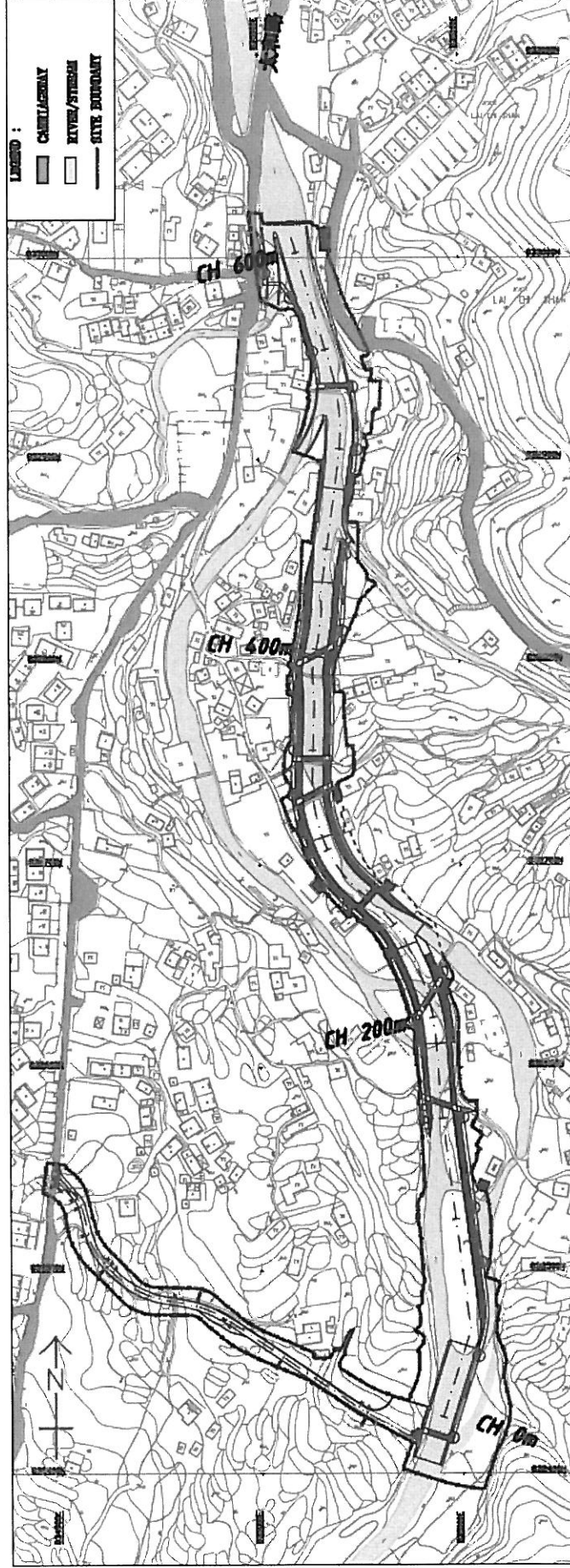
The construction of the proposed improvement works for Upper Tai Po River has been commenced on September 15th 2008 and anticipated to complete in April 2011.

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
- (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 Tai Po River

2.4 Construction activities for the reporting period

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

- (1) Site clearance
- (2) Site access formation
- (3) Installation of noise barriers
- (4) Temporary drainage diversion works
- (5) Installation of railings on boulder trap

2.5 Construction activities for the next reporting period

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

- (1) Haul road formation
- (2) Installation of noise barriers
- (3) Construction of footbridge and retaining wall
- (4) Construction of gabion wall at upstream

2.6 Non-compliance with the environmental performance limits

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

2.7 Summary of complaints

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

3.0 Ecological monitoring results

The Capture survey was conducted by the Ecologist Dr. Mark Shea on 27th and 28th October 2009. For details of the capture survey report please refer to Appendix J.

4.0 Noise monitoring results

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

TABLE 4.1 Description of Noise Sensitive Receivers

Sensitive Receiver No.	Location and Description
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 6th, 13th, 20th and 26th November 2009. $L_{eq(30min)}$ results ranged from 45.6dB(A) to 74.6dB(A), and therefore, no exceedance of action or limit level was recorded in this reporting month. For further details of the monitoring results, graphical plots and the location plan, please refer to Appendix D.

5.0 Vibration monitoring results

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

6.0 Environmental issues and actions

6.1 Site inspections and key environmental issues

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 4th, 11th, 18th and 24th November 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 4th, 11th, 18th and 24th November 2009. 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
28 Oct 09	Generation of muddy water due to site formation was observed at approximately ch.400	Observation	Contractor was advised to implement proper mitigation measures such as barriers and silt traps, to prevent site water seepage to the river channel	Issue of follow up actions was still outstanding.	Ongoing	--
7 & 28 Oct, 4, 11 Nov 09	Site surface was observed to be dry and dusty	Observation	Sufficient water spraying should be provided to dusty static area for dust suppression	Ongoing site practice was required	Ongoing	--
14, 21, 28 Oct & 4 Nov 09	There was no protective measures implemented to prevent surface run-off into the stream course at the haul access ch.450 & 500	Observation	Contractor was recommended to implement protective measures such as bunds and barriers to the haul access and sites which next to the river channel	Earth bunds with geo-textile coverings were provided at the concerned area prior to the inspection on 11 Nov	11 Nov 09	--
18 Nov 09	Chemicals and Oils were placed at approximately ch.400 without secondary containment measures	Observation	Contractor was advised to provide proper drip pans to chemicals and oils using on-site; idling chemicals should be re-located to designated chemical storage area to prevent chemical leakage on site	To be followed in the next reporting month	Ongoing	--
18 Nov 09	There was no protective measures implemented to the preserved trees at ch.400	Observation	Contractor was advised to set up a proper fencing to the preserved trees to prevent damaging from construction activities	To be followed in the next reporting month	Ongoing	--
24 Nov 09	No major findings for this inspection	N/A	N/A	N/A	N/A	N/A

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 Ecologist	Action Taken	Closing Date
04 Nov 2009	No Major findings for this inspection	No Advice is required	No Action is required to be taken	N/A
11 Nov 2009	No Major findings for this inspection	No Advice is required	No Action is required to be taken	N/A
18 Nov 2009	No Major findings for this inspection	No Advice is required	No Action is required to be taken	N/A
24 Nov 2009	No Major findings for this inspection	No Advice is required	No Action is required to be taken	N/A

6.2 Non-compliance

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

6.3 Recommendations

Contractor was advised to be cautious on the issue of potential chemical spillage from site equipment and chemicals using on site. As protection measure, proper size of drip pans should be provided to all chemicals and stationary equipment. Maintenance should be provided to all site equipment as to ensure those are in good condition.

Contractor was also recommended to implement mitigation measures such as bunds, barriers and silt trap to the newly formed site access and site area next to the stream course, as to minimize water quality impact due to surface run-off and deposition of any grit and soil to the river channel.

Site area was found dry and dusty, sufficient water spraying to the dusty static area was required to minimize dust generation due to site activities.

Protection measures such as fencing should be provided to the preserved trees in site area, as to prevent damaging from construction activities.

6.4 Implementation status and effectiveness of the mitigation measures

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

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

7.0 Waste management status

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

Table 7.1 is the Waste Disposal recorded by the Contractor in this month.

Table 7.1 Summary of Waste Disposal for the reporting month

Type of waste	Inert Waste	Non-Inert Waste	Chemical Waste
November 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.

Table 8.1 Summary of Environmental Licensing and Permit Status

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

9.0 Future key issues

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

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

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

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

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

10.0 Conclusion

Site preparation works including site clearance, site access formation and installation of noise barriers were carried out during the reporting period.

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

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

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

From the summary of ecological site inspection findings and implementation status of environmental protection and mitigation for ecology, prepared by the Ecologist Dr. Mark Shea, there is no abnormal finding observed in the reporting month. The ecologist has no further advice and no action suggested to the contractor. Capture survey was conducted on 27th and 28th October 2009. The capture survey report was attached in Appendix J for information.

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

There was no complaint recorded in this reporting month.

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

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

Appendix A: Event and action plan for ecology

Event and action plan for ecology

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

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

- I. The schedule capture surveys would let to decrease in the populations of the target species; and
- II. The planned drainage works would also temporally de-fauna the stream habitat.

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

APPENDIX TABLE 1 Event / Action plan table for Ecology

Event	Action			
	ET	ER	IEC	Contractor
Non-conformity on one occasion	<ol style="list-style-type: none"> 1. Identify Source 2. Inform the IEC and the ER 3. Discuss remedial actions with the IEC, the ER and the Contractor 4. Monitor remedial actions until rectification has been completed 	<ol style="list-style-type: none"> 1. Check report 2. Check the Contractor's working method 3. Discuss with the ET and the Contractor on possible remedial measures, 4. Advise the Contractor on effectiveness of proposed remedial measures 5. Check implementation of remedial measures 	<ol style="list-style-type: none"> 1. Ensure Remedial measures are properly implemented 	<ol style="list-style-type: none"> 1. Amend working methods 2. Rectify damage and undertake any necessary replacement
Repeated Non conformity	<ol style="list-style-type: none"> 1. Identify Source 2. Inform the IEC and the ER 3. Increase monitoring frequency 4. Discuss remedial actions with the IEC, the ER and the Contractor 5. Monitor remedial actions until rectification has been completed 6. If exceedance stops, cease additional monitoring 	<ol style="list-style-type: none"> 1. Check monitoring report 2. Check the Contractor's working method 3. Discuss with the ET and the Contractor on possible remedial measures 4. Advise the Contractor on effectiveness of proposed remedial measures 5. Check implementation of remedial measures 	<ol style="list-style-type: none"> 1. Ensure Remedial measures are properly implemented 	<ol style="list-style-type: none"> 1. Amend working methods 2. Rectify damage and undertake any necessary replacement

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 documented complaint is received	75 dB(A)*
0700 – 2300hrs on holidays; and 1900 – 2300 hrs on all other days		Subject to the control of Noise Control 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 30min	L ₁₀ 30min	Leq 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	56.7	62.6	60.4	6-Nov-09	09:55-09:25	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	Background noise from traffic	Sunny	Façade
UTP 2	54.4	63.7	61.8	6-Nov-09	09:30-10:00	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	Background noise from traffic	Sunny	Façade
UTP 3	47.9	64.2	60.9	6-Nov-09	14:07-14:37	Haul access formation by backhoe	Concrete breaking noise from innovation works of village house	Sunny	Façade
UTP 4	46.3	61.8	58.8	6-Nov-09	15:10-15:40	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	Concrete breaking noise from innovation works of village house	Sunny	Façade
UTP 5	55.3	62.0	59.3	6-Nov-09	14:39-15:09	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	Concrete breaking noise from innovation works of village house	Sunny	Façade
UTP 6	56.8	73.4	71.3	6-Nov-09	13:33-14:03	Haul access formation by backhoe	Concrete breaking noise from innovation works of village house	Sunny	Façade
UTP 7	51.8	64.9	62.6	6-Nov-09	11:30-12:00	Haul access formation by backhoe	NVA	Sunny	Façade
UTP 8	48.3	62.3	60.4	6-Nov-09	13:00-13:30	Haul access formation by backhoe	Concrete breaking noise from innovation works of village house	Sunny	Façade
UTP 9	46.4	54.6	52.0	6-Nov-09	15:50-16:20	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	NVA	Sunny	Façade
UTP 10	48.7	53.3	52.9	6-Nov-09	10:58-11:28	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	NVA	Sunny	Façade
UTP 11	53.5	56.1	55.6	6-Nov-09	10:20-10:50	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	NVA	Sunny	*Free field

Note* An Additional of 3dB(A) had been added to the measurement result due to Free Field Correction

Location	L ₉₀ 30min	L ₁₀ 30min	Leq 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	57.0	70.0	70.4	13-Nov-09	13:40-14:10	Installation works of noise barrier	Background noise from traffic	Cloudy	Façade
UTP 2	48.1	56.9	54.8	13-Nov-09	13:00-13:30	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location as no construction works was being carried out.	Background noise from traffic	Cloudy	Façade
UTP 3	48.6	58.0	57.6	13-Nov-09	14:15-14:45	Installation works of noise barrier	Background noise from Public	Cloudy	Façade
UTP 4	64.0	65.6	64.9	13-Nov-09	14:48-15:28	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	N/A	Cloudy	Façade
UTP 5	56.0	60.4	59.7	13-Nov-09	15:29-15:59	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	N/A	Cloudy	Façade
UTP 6	47.6	53.0	55.9	13-Nov-09	16:00-16:30	No construction was being carried out during measurement	Saw cutting noise from village house	Cloudy	Façade
UTP 7	49.0	58.1	55.0	13-Nov-09	16:31-17:01	Haul access formation by backhoe	Saw cutting noise from village house	Cloudy	Façade
UTP 8	49.2	56.2	51.0	13-Nov-09	11:30-12:00	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	Saw cutting noise from village house	Cloudy	Façade
UTP 9	44.9	52.8	52.5	13-Nov-09	10:58-11:28	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	N/A	Cloudy	Façade
UTP 10	42.7	47.5	45.6	13-Nov-09	10:28-10:58	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	N/A	Cloudy	Façade
UTP 11	46.2	53.8	52.7	13-Nov-09	09:50-10:20	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	N/A	Cloudy	*Free field

Note* An Additional of 3dB(A) had been added to the measurement result due to Free Field Correction

Location	L ₉₀ 30min	L ₁₀ 30min	Leq 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	56.4	71.0	69.6	20-Nov-09	13:10-13:40	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location as no construction works was being carried out.	Background noise from traffic	Sunny	Façade
UTP 2	50.0	58.9	59.4	20-Nov-09	13:50-14:20		N/A	Sunny	Façade
UTP 3	50.2	57.8	58.6	20-Nov-09	14:21-14:51		N/A	Sunny	Façade
UTP 4	58.2	61.4	60.3	20-Nov-09	14:55-15:25		N/A	Sunny	Façade
UTP 5	54.5	59.7	62.6	20-Nov-09	15:33--16:03		N/A	Sunny	Façade
UTP 6	47.0	53.8	55.2	20-Nov-09	16:07-16:37		N/A	Sunny	Façade
UTP 7	49.0	54.7	55.1	20-Nov-09	16:45-17:15		N/A	Cloudy	Façade
UTP 8	50.3	54.7	53.0	20-Nov-09	11:30-12:00		N/A	Sunny	Façade
UTP 9	45.2	49.1	47.5	20-Nov-09	10:58-11:28		N/A	Sunny	Façade
UTP 10	43.5	49.3	47.6	20-Nov-09	10:27-10:57		N/A	Sunny	Façade
UTP 11	49.8	56.7	56.5	20-Nov-09	09:54:10:24		N/A	Sunny	*Free field

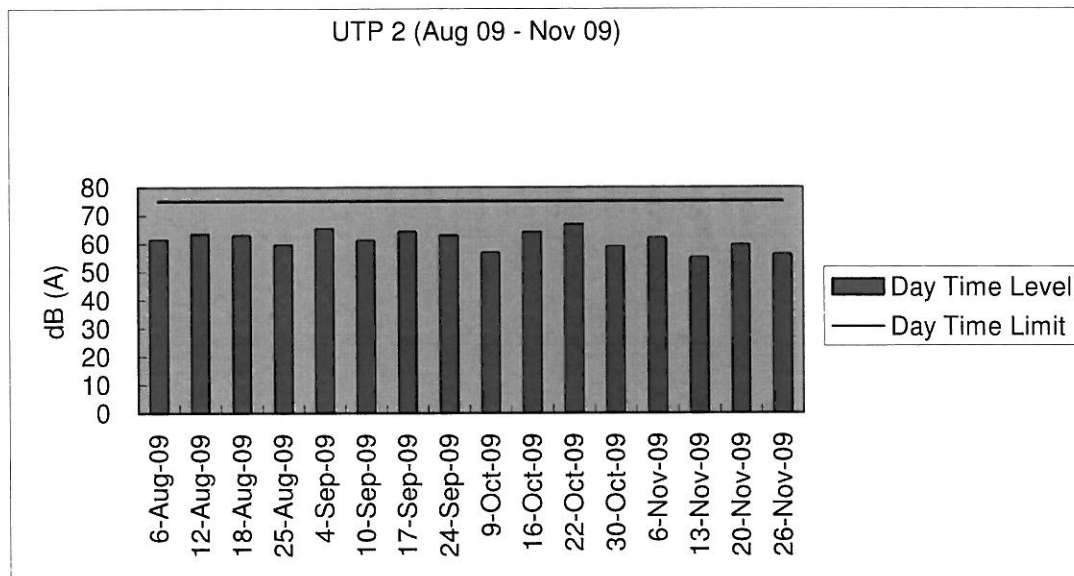
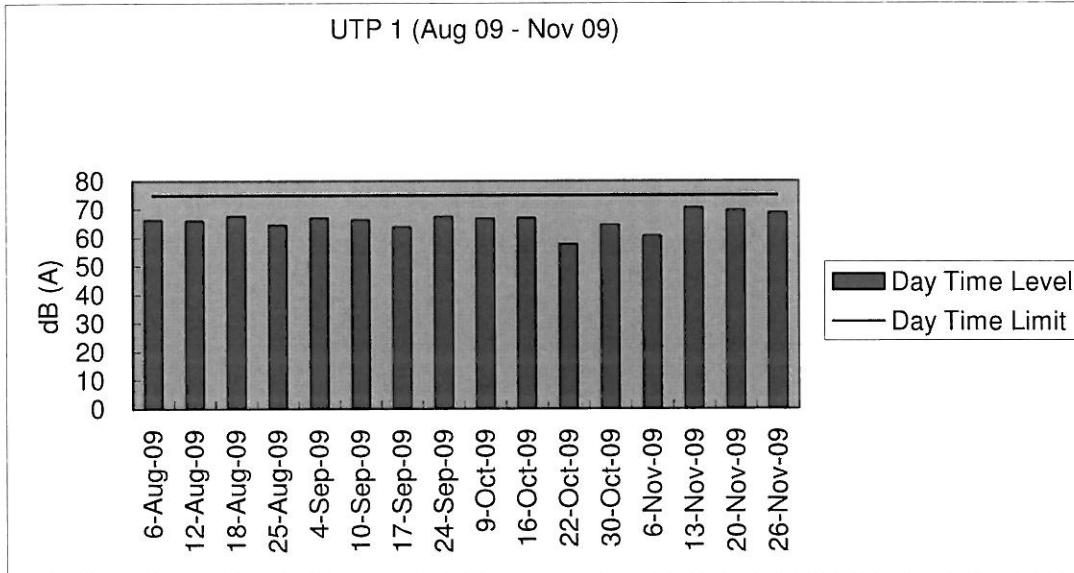
Note* An Additional of 3dB(A) had been added to the measurement result due to Free Field Correction

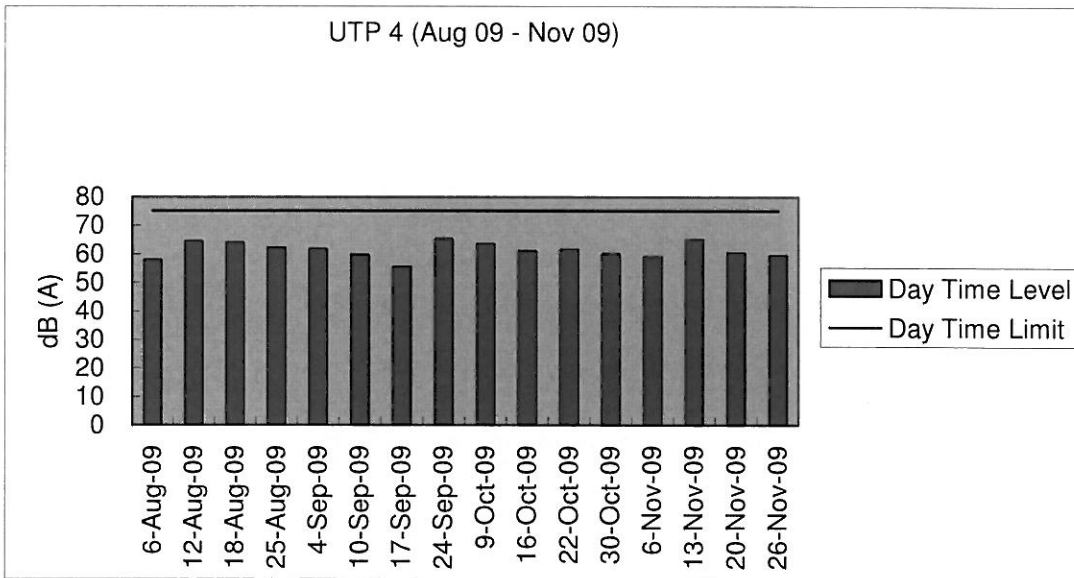
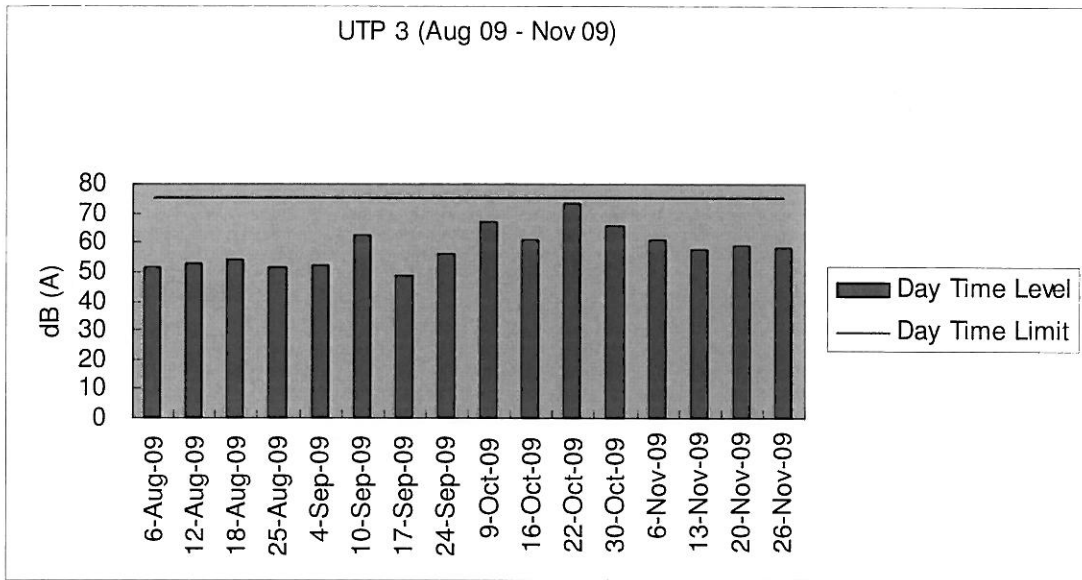
Location	L ₉₀ 30min	L ₁₀ 30min	Leq 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	54.2	68.4	68.6	26-Nov-09	13:15-13:45	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	Background noise from traffic	Cloudy	Façade
UTP 2	49.5	56.3	56.0	26-Nov-09	13:53-14:23	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	N/A	Cloudy	Façade
UTP 3	49.8	57.3	57.8	26-Nov-09	14:30-15:00	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	N/A	Cloudy	Façade
UTP 4	58.1	60.0	59.4	26-Nov-09	15:03-15:33	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	N/A	Cloudy	Façade
UTP 5	53.8	57.0	55.9	26-Nov-09	15:38-16:08	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	N/A	Cloudy	Façade
UTP 6	43.9	50.5	49.7	26-Nov-09	16:11-16:41	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	N/A	Cloudy	Façade
UTP 7	46.1	49.8	48.7	26-Nov-09	16:43-17:13	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	N/A	Cloudy	Façade
UTP 8	53.0	65.6	61.9	26-Nov-09	11:16-11:46	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	N/A	Cloudy	Façade
UTP 9	50.2	75.6	74.6	26-Nov-09	10:42-11:12	Construction vehicle flattening rocks	N/A	Cloudy	Façade
UTP 10	44.0	50.1	49.0	26-Nov-09	10:04-10:34	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	N/A	Cloudy	Façade
UTP 11	47.4	54.1	52.1	26-Nov-09	09:32-10:02	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	N/A	Cloudy	*Free field

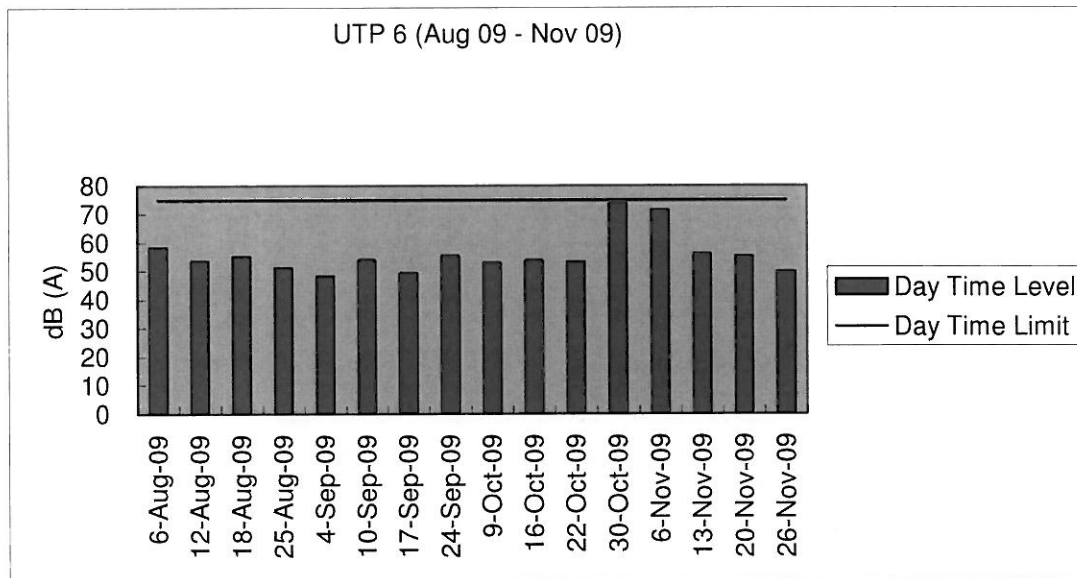
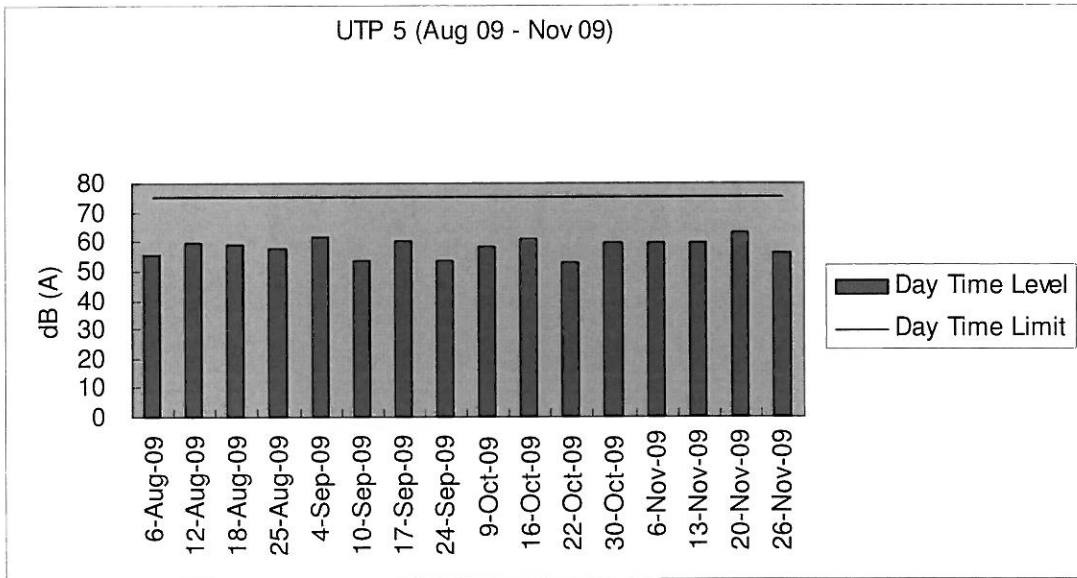
Note* An Additional of 3dB(A) had been added to the measurement result due to Free Field Correction

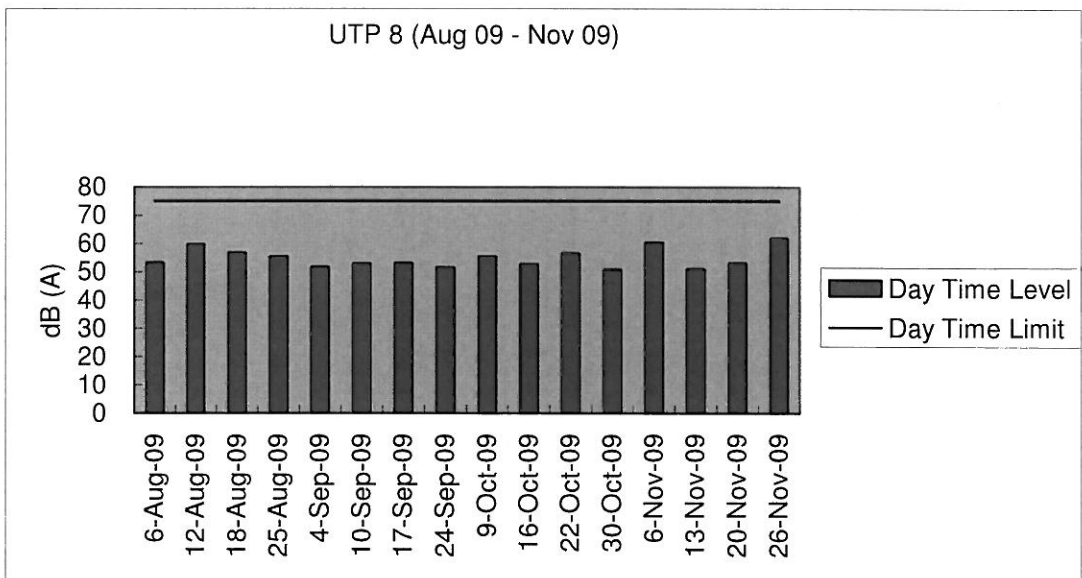
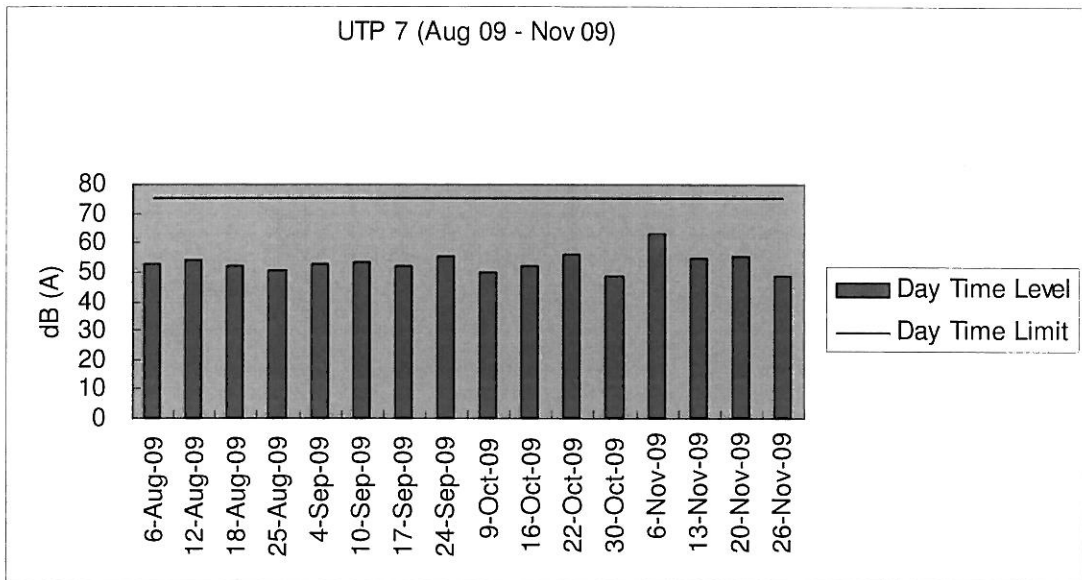
Graphical plot for noise measurements

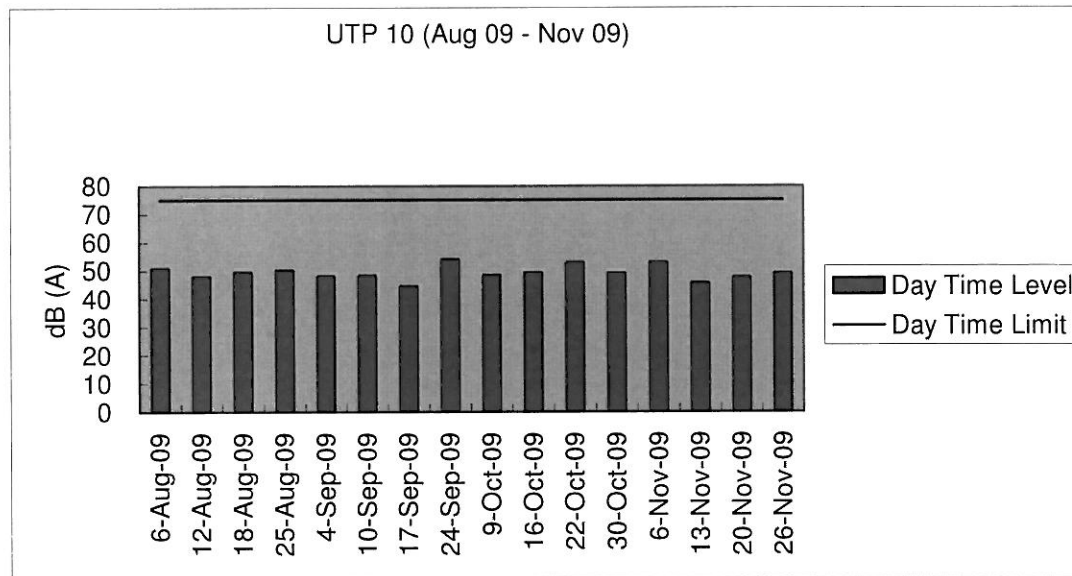
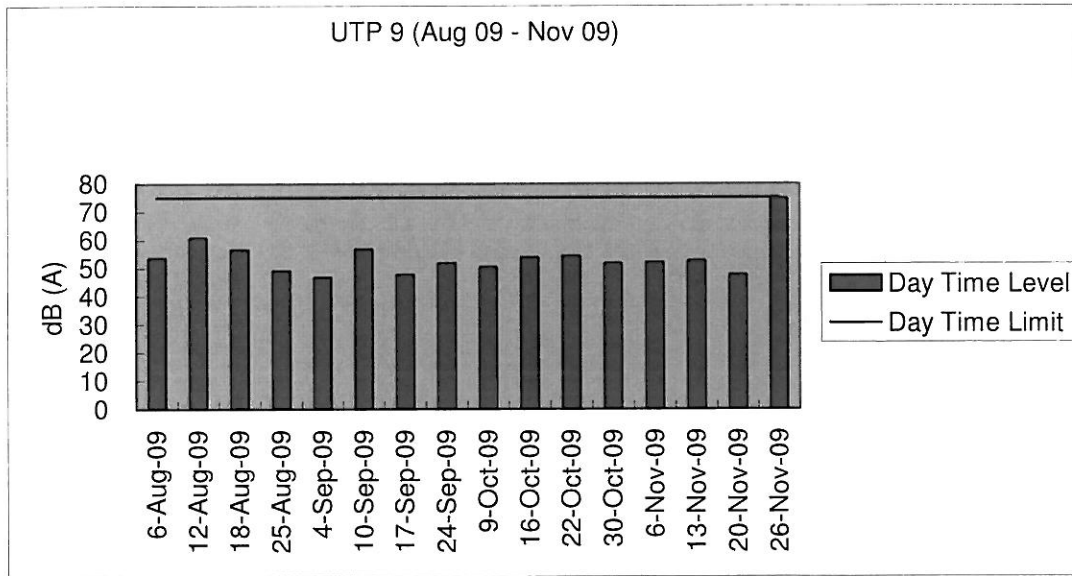
The following plots were the graphical plots for the 11 monitoring locations. Each plot showed the day time limit 75 dB(A), daytime level, date and the measured dB(A) results as in Leq 30min for each location. The graph contains the data recorded from August 2009 to November 2009.

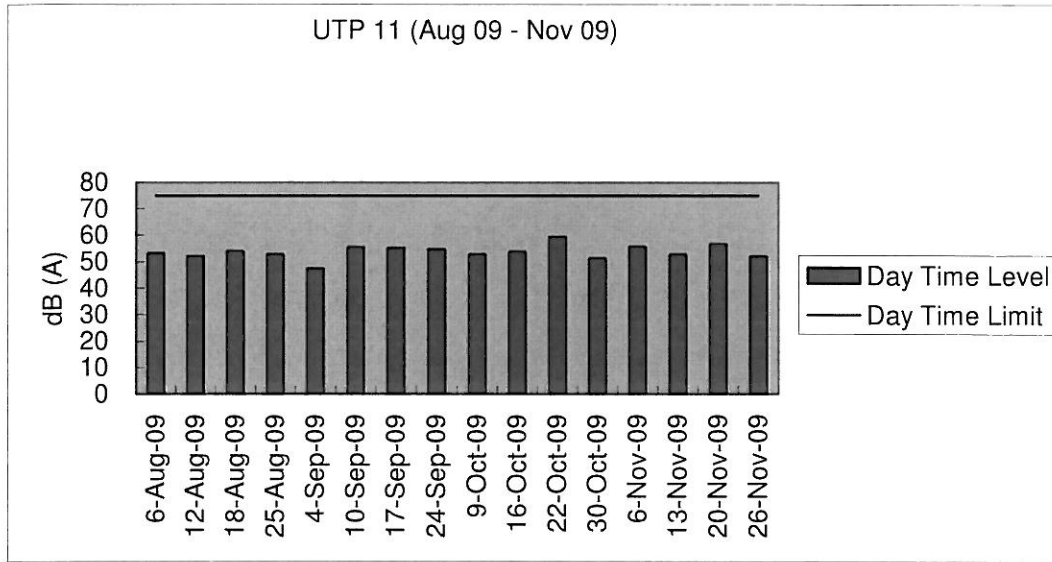


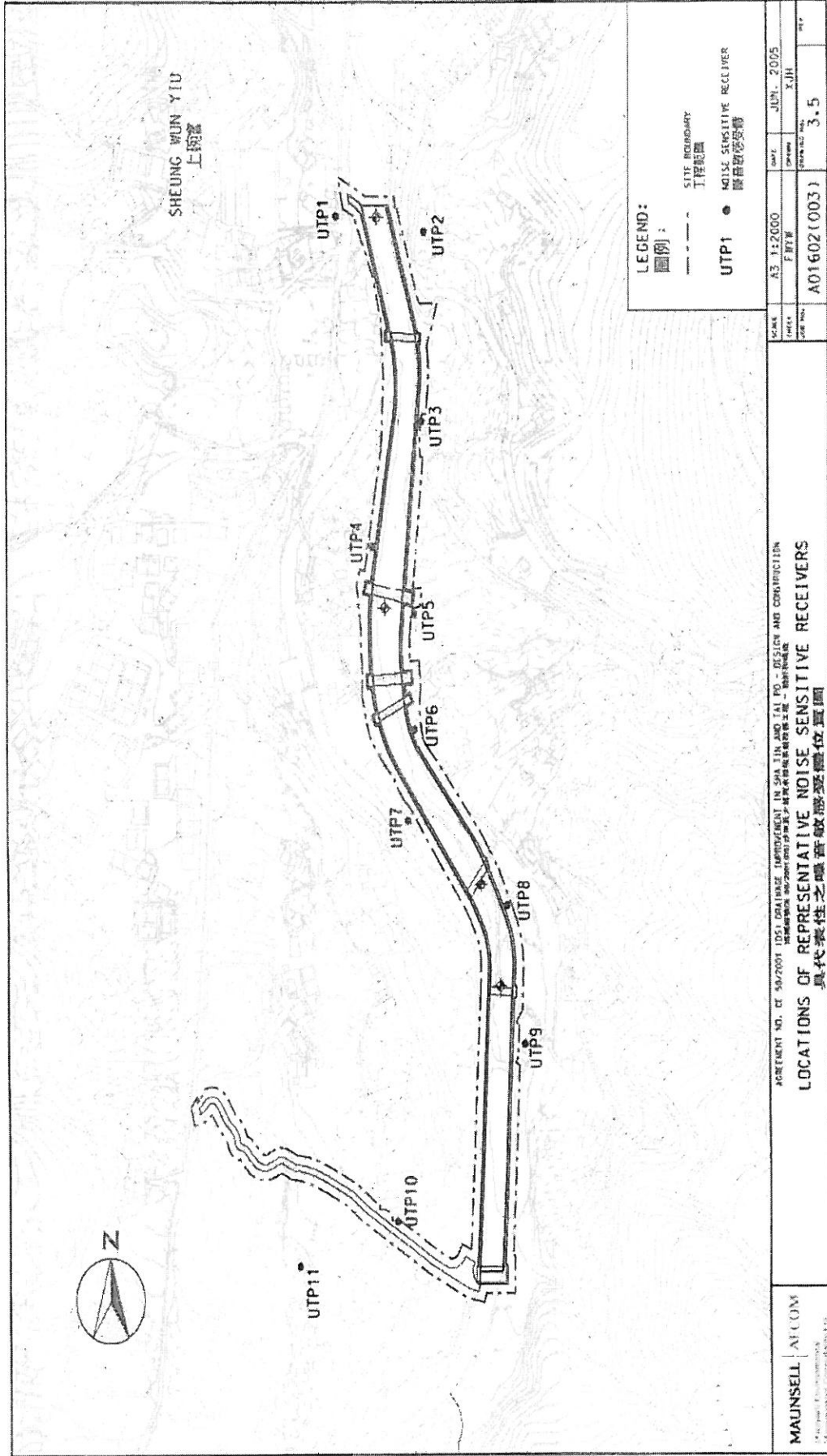












Appendix E: Monitoring schedule for the present and next reporting period

Master Schedule of EM&A works in November 2009

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

Master Schedule of EM&A works in December 2009

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

Appendix F: Cumulative complaint log

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

Implementation status of environmental protection and mitigation

Environmental Aspect	Protection / Mitigation Measures	Implementation status	Follow-up 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	Under preparation for phase II	Not required
Fugitive Dust Emission	-Implement regular watering and vehicle washing facilities	Implemented	Ongoing
	-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	Not applicable at this stage	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	Deficiency identified	Rectified

	Provide silt trap and oil interceptor to remove the oil, lubricants, grease, silt, grit and debris from the wastewater before pumped to the public storm water drainage system	Implemented	Not required
	Provide site toilet facilities	Implemented	Not required
Waste Management	Reuse excavated material as far as possible	Implemented	Not required
	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 compaction units	Implemented	Not required
Vibration	Percussive piling is to be replaced by bore-hole piling to minimize vibration impacts to the two identified Declared monuments	Not applicable at this stage	Not required
	Carrying out of vibration monitoring to ensure that vibration associated with the construction phase do not exceed the threshold limit otherwise contractor have to review the work method and construction activities have to be slow down or rescheduled to reduce the impacts	Not applicable at this stage	Not required
	Close monitoring and measurement on the cracks of the external wall of Fan Sin Temple during construction works will be carried out. Any 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	Not Applicable at this stage	Not required

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

Environmental Aspect	Protection / Mitigation Measures	Implementation status	Follow-up action
Ecology	Large boulders will be returned to the riverbed following the excavation works.	Not applicable	Not required
	Construction works from Ch. 0.0m – Ch. 150m would be along one side of the river only	Not applicable	Not required
	Approximately 150m of the existing natural riverbank on the western side of the river would be retained.	Implemented	Not required
	Excavation works within the river channel should be restricted to an enclosed dewater section of the river, and would be limited to sections 50-100m long at any one time.	Implemented	Not required
	Flows to the area downstream shall be maintained at all times during the construction phase	Implemented	Not required
	Capture survey shall be conducted within the Tai Po River before commencement of works. The captured target species shall be relocated to areas of the watercourse upstream of the watercourse upstream of the Tai Po River	Capture surveys had been conducted at the beginning of the Contract, during the wet season July/August 2008, 4 th November 2008 and 27 th , 28 th October 2009	Not required
	Temporary noise barriers should be constructed to control noise impacts to habitats and associated wildlife within and adjacent to the proposed works area	Implemented	Not required
	Excavation works shall be carried out by land based plant within enclosed dry section of river channel.	Implemented	Not required
	Compensatory planting of trees and other vegetation along the banks of the newly improved drainage channel should be provided to compensate for the loss of riparian vegetation.	Not applicable	Not required
	Operation phase activities in the improved drainage channel would be limited to periodic channel maintenance such as de-silting.	Not applicable	Not required

Appendix H: Cumulative waste flow tableCumulative waste flow table since September 15th 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
Total	36.9m ³	2 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.

Appendix I: Construction programme

Drainage Services Department

Contract No. DC/2007/06 River Improvement Works in Upper Lam Tuen River, She Shan River and Upper Tai Po River Revised Master Programme (Rev. 08)

ID	Task Name	Duration	Early Start	Early Finish	Start	Finish	2007	2008	2009	2010	2011	2012	2013
806	Site Clearance	20 d	24/02/2008	12/03/2008	24/02/2008	12/03/2008							
807	Checklist covering W&N	30 d	13/02/2008	12/03/2008	13/02/2008	12/03/2008							
808	Initial Survey	30 d	13/02/2008	12/03/2008	13/02/2008	12/03/2008							
809	Condition Surveys / Set up markers	30 d	15/02/2008	13/03/2008	15/02/2008	13/03/2008							
810	Preparation of Temporary Works Design	60 d	20/02/2008	30/03/2008	20/02/2008	30/03/2008							
811	Approval of Temporary Works Design	14 d	17/02/2008	17/02/2008	17/02/2008	17/02/2008							
812	SI Works	36 d	24/02/2008	27/03/2008	24/02/2008	27/03/2008							
813	Submission of Archaeological Monitoring	96 d	05/02/2008	08/03/2008	05/02/2008	08/03/2008							
814	Approval of Archaeological Monitoring	0 d	16/02/2008	16/02/2008	16/02/2008	16/02/2008							
815	Chainage from CHL 1850 to CHL 1850	114 d	14/02/2008	19/02/2011	14/02/2008	19/02/2011							
816	From CHL 1850 to CHL 1700	364 d	14/02/2008	30/03/2009	14/02/2008	30/03/2009							
817	Wet Season (April to Oct 2008)	2-4 d	14/02/2008	14/02/2008	14/02/2008	14/02/2008							
818	Excavation	80 d	11/02/2008	19/02/2008	11/02/2008	19/02/2008							
819	Rockfill & Blinding	40 d	16/02/2008	25/02/2008	16/02/2008	25/02/2008							
820	Retaining Wall	50 d	28/02/2008	13/03/2008	28/02/2008	13/03/2008							
821	Getaway Wall	40 d	14/02/2008	23/02/2008	14/02/2008	23/02/2008							
822	rebelli Ducts/Perforated/Retaining/Drainage	5 d	26/02/2008	29/02/2008	26/02/2008	29/02/2008							
823	From CHL 1700 to CHL 1550	364 d	14/02/2008	30/03/2009	14/02/2008	30/03/2009							
824	Wet Season (April to Oct 2008)	2-4 d	14/02/2008	14/02/2008	14/02/2008	14/02/2008							
825	Excavation	90 d	11/02/2008	29/02/2008	11/02/2008	29/02/2008							
826	Rockfill & Blinding	40 d	16/02/2008	25/02/2008	16/02/2008	25/02/2008							
827	Retaining Wall	50 d	28/02/2008	13/03/2008	28/02/2008	13/03/2008							
828	Getaway Wall	40 d	14/02/2008	23/02/2008	14/02/2008	23/02/2008							
829	install Ducts/Perforated/Retaining/Drainage	5 d	26/02/2008	29/02/2008	26/02/2008	29/02/2008							
830	From CHL 1550 to CHL 1400	364 d	14/02/2008	30/03/2009	14/02/2008	30/03/2009							
831	Wet Season (April to Oct 2008)	2-4 d	14/02/2008	14/02/2008	14/02/2008	14/02/2008							
832	Excavation	90 d	11/02/2008	29/02/2008	11/02/2008	29/02/2008							
833	Rockfill & Blinding	40 d	16/02/2008	25/02/2008	16/02/2008	25/02/2008							
834	Retaining Wall	50 d	28/02/2008	13/03/2008	28/02/2008	13/03/2008							
835	Getaway Wall	40 d	14/02/2008	23/02/2008	14/02/2008	23/02/2008							
836	install Ducts/Perforated/Retaining/Drainage	5 d	26/02/2008	29/02/2008	26/02/2008	29/02/2008							
837	From CHL 1400 to CHL 1250	214 d	14/02/2008	19/02/2010	14/02/2008	19/02/2010							
838	Wet Season (April to Oct 2008)	5 d	11/02/2008	11/02/2008	11/02/2008	11/02/2008							
839	Excavation	90 d	11/02/2008	29/02/2008	11/02/2008	29/02/2008							
840	Rockfill & Blinding	40 d	16/02/2008	25/02/2008	16/02/2008	25/02/2008							
841	Retaining Wall	50 d	28/02/2008	13/03/2008	28/02/2008	13/03/2008							
842	Getaway Wall	40 d	14/02/2008	23/02/2008	14/02/2008	23/02/2008							
843	install Ducts/Perforated/Retaining/Drainage	5 d	26/02/2008	29/02/2008	26/02/2008	29/02/2008							
844	From CHL 1250 to CHL 1100	214 d	14/02/2008	19/02/2010	14/02/2008	19/02/2010							
845	Wet Season (April to Oct 2008)	5 d	11/02/2008	11/02/2008	11/02/2008	11/02/2008							
846	Excavation	90 d	11/02/2008	29/02/2008	11/02/2008	29/02/2008							
847	Rockfill & Blinding	40 d	16/02/2008	25/02/2008	16/02/2008	25/02/2008							
848	Retaining Wall	50 d	28/02/2008	13/03/2008	28/02/2008	13/03/2008							
849	Getaway Wall	40 d	14/02/2008	23/02/2008	14/02/2008	23/02/2008							
850	install Ducts/Perforated/Retaining/Drainage	5 d	26/02/2008	29/02/2008	26/02/2008	29/02/2008							
851	From CHL 1100 to CHL 950	150 d	28/02/2008	01/03/2009	28/02/2008	01/03/2009							
852	Wet Season (April to Oct 2008)	4 d	22/02/2008	22/02/2008	22/02/2008	22/02/2008							
853	Excavation	15 d	11/02/2008	26/02/2008	11/02/2008	26/02/2008							
854	Rockfill & Blinding	15 d	11/02/2008	26/02/2008	11/02/2008	26/02/2008							
855	Retaining Wall	15 d	11/02/2008	26/02/2008	11/02/2008	26/02/2008							
856	Getaway Wall	15 d	11/02/2008	26/02/2008	11/02/2008	26/02/2008							
857	install Ducts/Perforated/Retaining/Drainage	15 d	11/02/2008	26/02/2008	11/02/2008	26/02/2008							
858	From CHL 950 to CHL 800	150 d	28/02/2008	01/03/2009	28/02/2008	01/03/2009							
859	Wet Season (April to Oct 2008)	4 d	22/02/2008	22/02/2008	22/02/2008	22/02/2008							
860	Excavation	15 d	11/02/2008	26/02/2008	11/02/2008	26/02/2008							
861	Rockfill & Blinding	15 d	11/02/2008	26/02/2008	11/02/2008	26/02/2008							
862	Retaining Wall	15 d	11/02/2008	26/02/2008	11/02/2008	26/02/2008							
863	Getaway Wall	15 d	11/02/2008	26/02/2008	11/02/2008	26/02/2008							
864	install Ducts/Perforated/Retaining/Drainage	15 d	11/02/2008	26/02/2008	11/02/2008	26/02/2008							
865	From CHL 800 to CHL 650	150 d	28/02/2008	01/03/2009	28/02/2008	01/03/2009							
866	Wet Season (April to Oct 2008)	4 d	22/02/2008	22/02/2008	22/02/2008	22/02/2008							
867	Excavation	15 d	11/02/2008	26/02/2008	11/02/2008	26/02/2008							

Project: Revised M. Prog (Rev.08)
Date: Aug 2009
Consultant: AECOM

Task Progress:

Critical Task Progress:

Milestone:

Summary:

Task:

Critical Task:

Related Up Task:

Related Up Milestone:

Related Up Progress:

Roll Up Progress:

Roll Up Milestone:

External Tasks:

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Drainage Services Department

Contract No. DC/2007/06

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

Revised Master Programme (Rev. 08)

ID	Task Name	Duration	Early Start	Early Finish	Start	Finish	2007	2008	2009	2010	2011	2012	2013
866	Formation	20 d	11/12/2010	20/12/2010	11/12/2010	20/12/2010							
867	Concrete	5 d	21/12/2010	25/12/2010	21/12/2010	25/12/2010							
870	Ch-23 - 45	818 d	28/02/2007	23/12/2006	28/02/2007	23/12/2006							
871	Site Clearance	8 d	27/02/2008	4/3/2008	27/02/2008	4/3/2008							
872	Site Clearance	29 d	28/02/2008	5/11/2008	28/02/2008	5/11/2008							
873	Water diversion	5 d	30/10/2008	3/11/2008	30/10/2008	3/11/2008							
874	Boulder Trap (bay 7-8) (ch-23 - 45)	134 d	27/11/2008	3/4/2009	27/11/2008	3/4/2009							
875	Bulk excavation	15 d	13/12/2008	27/11/2008	13/12/2008	27/11/2008							
876	Formation (bay 7)	5 d	17/12/2008	13/12/2008	17/12/2008	13/12/2008							
877	Formwork (base slab, bay 7)	3 d	22/12/2008	24/12/2008	22/12/2008	24/12/2008							
878	Rebar fixing (base slab, bay 7)	3 d	27/12/2008	29/12/2008	27/12/2008	29/12/2008							
879	Concreting (base slab, bay 7)	1 d	31/12/2008	31/12/2008	31/12/2008	31/12/2008							
880	Formwork (wall stem, bay 7 RH-S)	4 d	6/1/2009	9/1/2009	6/1/2009	9/1/2009							
881	Rebar fixing (wall stem, bay 7 RH-S)	2 d	10/1/2009	11/1/2009	10/1/2009	11/1/2009							
882	Concreting (wall stem, bay 7 RH-S)	1 d	12/1/2009	12/1/2009	12/1/2009	12/1/2009							
883	Formwork (bay 8)	4 d	13/1/2009	13/1/2009	13/1/2009	13/1/2009							
884	Formwork (bay 8)	1 d	23/1/2009	20/1/2009	20/1/2009	20/1/2009							
885	Rebar fixing (base slab, bay 8)	1 d	11/2/2009	11/2/2009	11/2/2009	11/2/2009							
886	Formwork (base slab, bay 8)	1 d	14/2/2009	14/2/2009	14/2/2009	14/2/2009							
887	Rebar fixing (base slab, bay 8)	1 d	15/2/2009	15/2/2009	15/2/2009	15/2/2009							
888	Concreting (base slab, bay 8)	2 d	24/2/2009	25/2/2009	24/2/2009	25/2/2009							
889	Formwork (base slab, bay 5)	2 d	23/2/2009	3/3/2009	23/2/2009	3/3/2009							
890	Rebar fixing (wall stem, bay 7 LHS)	1 d	4/3/2009	14/3/2009	4/3/2009	14/3/2009							
891	Concreting (wall stem, bay 7 LHS)	1 d	16/3/2009	15/3/2009	15/3/2009	15/3/2009							
892	Formwork (wall stem, bay 7 LHS)	4 d	19/3/2009	21/3/2009	19/3/2009	21/3/2009							
893	Rebar fixing and shuttering formwork (wall stem, bay 7 RH-S)	5 d	21/3/2009	25/3/2009	21/3/2009	25/3/2009							
894	Rebar fixing and shuttering formwork (wall stem, bay 7 RH-S)	1 d	21/3/2009	21/3/2009	21/3/2009	21/3/2009							
895	Rebar fixing and shuttering formwork (wall stem, bay 8 LHS RH-S)	1 d	7/4/2009	7/4/2009	7/4/2009	7/4/2009							
896	Shuttering formwork (wall stem, bay 8 LHS RH-S)	1 d	8/4/2009	8/4/2009	8/4/2009	8/4/2009							
897	Concreting (wall stem, bay 8 LHS RH-S)	1 d	9/1/2009	9/1/2009	9/1/2009	9/1/2009							
898	Stripping off formwork (wall stem, bay 8 LHS RH-S)	5 d	28/9/2007	2/10/2007	28/9/2007	2/10/2007							
899	Boulder Trap (bay 4-5) (ch-23 - 45)	17 d	3/10/2009	10/10/2009	3/10/2009	10/10/2009							
900	Bulk excavation	1 d	20/1/2009	20/1/2009	20/1/2009	20/1/2009							
901	Formation (bay 5-6)	1 d	2/2/2009	2/2/2009	2/2/2009	2/2/2009							
902	Formwork (base slab, bay 5-6)	3 d	2/2/2009	4/2/2009	2/2/2009	4/2/2009							
903	Rebar fixing (base slab, bay 5)	1 d	7/2/2009	7/2/2009	7/2/2009	7/2/2009							
904	Concreting (base slab, bay 5)	8 d	9/2/2009	11/2/2009	9/2/2009	11/2/2009							
905	Rebar fixing (base slab, bay 6)	1 d	12/2/2009	12/2/2009	12/2/2009	12/2/2009							
906	Formwork (wall stem, bay 5)	1 d	13/2/2009	13/2/2009	13/2/2009	13/2/2009							
907	Concreting of wall between bay 4&5	1 d	13/2/2009	13/2/2009	13/2/2009	13/2/2009							
908	Concreting (base slab, bay 6)	1 d	14/2/2009	14/2/2009	14/2/2009	14/2/2009							
909	Stripping off formwork (wall between bay 4&5; base slab, bay 5)	1 d	20/2/2009	20/2/2009	20/2/2009	20/2/2009							
910	Formation (base slab, bay 4)	1 d	20/2/2009	20/2/2009	20/2/2009	20/2/2009							
911	Formwork (wall stem, bay 5)	1 d	23/2/2009	23/2/2009	23/2/2009	23/2/2009							
912	Formwork and rebar fixing (base slab, bay 4)	7 d	23/2/2009	1/3/2009	23/2/2009	1/3/2009							
913	Rebar fixing (wall stem, bay 5 LHS)	1 d	28/9/2007	28/9/2007	28/9/2007	28/9/2007							
914	Shuttering formwork (wall stem, bay 5 LHS)	1 d	28/9/2007	28/9/2007	28/9/2007	28/9/2007							
915	Shuttering formwork (wall stem, bay 6 RH-S)	1 d	27/2/2009	27/2/2009	27/2/2009	27/2/2009							
916	Concreting (wall stem, bay 5, RH-S)	1 d	28/2/2009	28/2/2009	28/2/2009	28/2/2009							
917	Formwork (wall stem, bay 5 RH-S)	1 d	1/3/2009	1/3/2009	1/3/2009	1/3/2009							
918	Shuttering formwork (base slab, bay 4)	1 d	3/3/2009	3/3/2009	3/3/2009	3/3/2009							
919	Concreting (base slab, bay 4)	1 d	4/3/2009	4/3/2009	4/3/2009	4/3/2009							
920	Rebar fixing and formwork, shuttering (wall stem, bay 6 RH-S)	2 d	4/3/2009	5/3/2009	4/3/2009	5/3/2009							
921	Stripping off formwork (base slab, bay 4)	1 d	5/3/2009	5/3/2009	5/3/2009	5/3/2009							
922	Formwork (wall stem, bay 4 LHS)	1 d	9/3/2009	9/3/2009	9/3/2009	9/3/2009							
923	Rebar fixing (wall stem, bay 4 LHS)	2 d	10/3/2009	10/3/2009	10/3/2009	10/3/2009							
924	Formwork and rebar fixing (wall stem, bay 4 RH-S)	4 d	16/3/2009	19/3/2009	16/3/2009	19/3/2009							
925	Concreting (wall stem, bay 4 LHS, bay 4 RH-S)	1 d	17/3/2009	17/3/2009	17/3/2009	17/3/2009							
926	Rebar fixing and shuttering the formwork (wall stem, bay 4 RH-S)	2 d	17/3/2009	19/3/2009	17/3/2009	19/3/2009							
927	Shuttering off formwork (wall stem, bay 4 LHS, bay 5 RH-S)	2 d	16/3/2009	18/3/2009	16/3/2009	18/3/2009							
928	Rebar fixing and shuttering formwork (wall stem, bay 5 RH-S)	5 d	21/3/2009	25/3/2009	21/3/2009	25/3/2009							
929	Concreting (wall stem, bay 4 RH-S, bay 5 LHS)	1 d	25/3/2009	25/3/2009	25/3/2009	25/3/2009							
930	Rebar fixing and formwork (wall stem, bay 5)	5 d	27/3/2009	31/3/2009	27/3/2009	31/3/2009							

Project: Revised M Prog (Rev.08)
 Date: Aug 2009
 Consultant: AECOM

Task Progress:

Critical Task:

Milestone:

Summary:

Rated Up Progress:

Spill:

External Task:

PTask:

Drainage Services Department

Contract No. DC/2007/06 River Improvement Works in Upper Lam Teuen River, She Shan River and Upper Tai Po River Revised Master Programme (Rev. 08)

ID	Task Name	Duration	Early Start	Early Finish	Start	Finish	2007	2008	2009	2010	2011	2012	2013
931	Consolidating wall stem, bay 5 (RHS)	1 d	14/02/08	14/02/08	14/02/08	14/02/08							
932	Skipping off formwork wall stem, bay 5 (RHS)	4 d	24/02/08	24/02/08	24/02/08	24/02/08							
933	Boulder trap (bay 1-3) (ch 43 - 45)	581 d	28/02/07	13/02/08	28/02/07	13/02/08							
934	Soil excavation	8 d	23/12/07	30/12/07	23/12/07	30/12/07							
935	Formwork, base slab, bay 163	1 d	8/12/08	8/12/08	8/12/08	8/12/08							
936	Rebar tying (base slab, bay 1)	4 d	12/12/08	15/12/08	12/12/08	15/12/08							
937	Rebar tying (base slab, bay 2)	2 d	16/12/08	17/12/08	16/12/08	17/12/08							
938	Formwork (base slab, bay 1&2)	1 d	18/12/08	18/12/08	18/12/08	18/12/08							
939	Formwork (base slab, bay 1&2)	1 d	28/02/07	28/02/07	28/02/07	28/02/07							
940	Formwork (base slab, bay 1&2)	1 d	21/12/08	21/12/08	21/12/08	21/12/08							
941	Formwork (base slab, bay 2)	1 d	22/12/08	22/12/08	22/12/08	22/12/08							
942	Rebar fixing (wall stem, bay 1)	3 d	5/02/08	7/02/08	5/02/08	7/02/08							
943	Rebar fixing (wall stem, bay 2)	1 d	8/02/08	8/02/08	8/02/08	8/02/08							
944	Formwork (wall stem, bay 1-3)	1 d	11/02/08	11/02/08	11/02/08	11/02/08							
945	Formwork (wall stem, bay 2)	1 d	12/02/08	12/02/08	12/02/08	12/02/08							
946	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	16/02/08	16/02/08	16/02/08	16/02/08							
947	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	17/02/08	17/02/08	17/02/08	17/02/08							
948	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	18/02/08	18/02/08	18/02/08	18/02/08							
949	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	19/02/08	19/02/08	19/02/08	19/02/08							
950	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	20/02/08	20/02/08	20/02/08	20/02/08							
951	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	21/02/08	21/02/08	21/02/08	21/02/08							
952	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	22/02/08	22/02/08	22/02/08	22/02/08							
953	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	23/02/08	23/02/08	23/02/08	23/02/08							
954	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	24/02/08	24/02/08	24/02/08	24/02/08							
955	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	25/02/08	25/02/08	25/02/08	25/02/08							
956	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	26/02/08	26/02/08	26/02/08	26/02/08							
957	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	27/02/08	27/02/08	27/02/08	27/02/08							
958	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	28/02/08	28/02/08	28/02/08	28/02/08							
959	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	29/02/08	29/02/08	29/02/08	29/02/08							
960	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	30/02/08	30/02/08	30/02/08	30/02/08							
961	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	31/02/08	31/02/08	31/02/08	31/02/08							
962	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	01/03/08	01/03/08	01/03/08	01/03/08							
963	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	02/03/08	02/03/08	02/03/08	02/03/08							
964	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	03/03/08	03/03/08	03/03/08	03/03/08							
965	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	04/03/08	04/03/08	04/03/08	04/03/08							
966	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	05/03/08	05/03/08	05/03/08	05/03/08							
967	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	06/03/08	06/03/08	06/03/08	06/03/08							
968	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	07/03/08	07/03/08	07/03/08	07/03/08							
969	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	08/03/08	08/03/08	08/03/08	08/03/08							
970	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	09/03/08	09/03/08	09/03/08	09/03/08							
971	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	10/03/08	10/03/08	10/03/08	10/03/08							
972	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	11/03/08	11/03/08	11/03/08	11/03/08							
973	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	12/03/08	12/03/08	12/03/08	12/03/08							
974	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	13/03/08	13/03/08	13/03/08	13/03/08							
975	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	14/03/08	14/03/08	14/03/08	14/03/08							
976	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	15/03/08	15/03/08	15/03/08	15/03/08							
977	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	16/03/08	16/03/08	16/03/08	16/03/08							
978	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	17/03/08	17/03/08	17/03/08	17/03/08							
979	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	18/03/08	18/03/08	18/03/08	18/03/08							
980	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	19/03/08	19/03/08	19/03/08	19/03/08							
981	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	20/03/08	20/03/08	20/03/08	20/03/08							
982	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	21/03/08	21/03/08	21/03/08	21/03/08							
983	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	22/03/08	22/03/08	22/03/08	22/03/08							
984	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	23/03/08	23/03/08	23/03/08	23/03/08							
985	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	24/03/08	24/03/08	24/03/08	24/03/08							
986	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	25/03/08	25/03/08	25/03/08	25/03/08							
987	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	26/03/08	26/03/08	26/03/08	26/03/08							
988	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	27/03/08	27/03/08	27/03/08	27/03/08							
989	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	28/03/08	28/03/08	28/03/08	28/03/08							
990	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	29/03/08	29/03/08	29/03/08	29/03/08							
991	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	30/03/08	30/03/08	30/03/08	30/03/08							
992	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d	31/03/08	31/03/08	31/03/08	31/03/08							

Project: Revised M. Prog (Rev. 08)
 Data Date: Aug 2009
 Consultant: AECOM

Task Progress: Task
 Critical Task Progress: Critical Task
 Milestone: Milestone
 Summary: Summary

Rolled Up Task: Rolled Up Task
 Rolled Up Critical Task: Rolled Up Critical Task
 Rolled Up Milestone: Rolled Up Milestone

PTASK: PTASK
 Split: Split
 Essential Task: Essential Task

Drainage Services Department

Contract No. DC/2007/06 River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River Revised Master Programme (Rev. 08)

ID	Task Name	Duration	Early Start	Early Finish	Start	Finish	2007	2008	2009	2010	2011	2012	2015
993	1st layer (ch 55-65 RHS)	3 dT	25/3/2009	27/3/2009	25/3/2009	27/3/2009							
994	2nd layer (ch 55-65 RHS)	2 dT	28/3/2009	29/3/2009	28/3/2009	29/3/2009							
995	3rd layer (ch 55-65 RHS)	2 dT	31/3/2009	1/4/2009	31/3/2009	1/4/2009							
996	4th layer (ch 55-65 RHS)	1 dT	2/4/2009	2/4/2009	2/4/2009	2/4/2009							
997	5th layer (ch 55-65 RHS)	1 dT	2/4/2009	2/4/2009	2/4/2009	2/4/2009							
998	G500 toe in front of gabion	2 dT	18/4/2009	20/4/2009	18/4/2009	20/4/2009							
999	Boulder at river course	7 dT	11/11/2011	17/11/2011	11/11/2011	17/11/2011							
1000	Gabion (ch 65-75 RHS) TG2	98T dT	2/3/2009	7/11/2011	2/3/2009	7/11/2011							
1001	Trench excavation and replacing grade 200	4 dT	2/3/2009	6/3/2009	2/3/2009	6/3/2009							
1002	Formation of gabion wall with G200	3 dT	3/3/2009	6/3/2009	3/3/2009	6/3/2009							
1003	1st layer (ch 65-75 RHS)	2 dT	7/3/2009	9/3/2009	7/3/2009	9/3/2009							
1004	2nd layer (ch 65-75 RHS)	2 dT	11/3/2009	13/3/2009	11/3/2009	13/3/2009							
1005	3rd layer (ch 65-75 RHS)	2 dT	15/3/2009	17/3/2009	15/3/2009	17/3/2009							
1006	4th layer (ch 65-75 RHS)	2 dT	19/3/2009	21/3/2009	19/3/2009	21/3/2009							
1007	5th layer (ch 65-75 RHS)	2 dT	23/3/2009	25/3/2009	23/3/2009	25/3/2009							
1008	G500 toe in front of gabion	7 dT	19/4/2009	26/4/2009	19/4/2009	26/4/2009							
1009	Boulder at river course	7 dT	11/11/2011	17/11/2011	11/11/2011	17/11/2011							
1010	Gabion (ch 75-80 RHS) TG2	100T dT	11/2/2009	11/2/2011	11/2/2009	11/2/2011							
1011	Trench excavation and replacing grade 200	4 dT	11/2/2009	15/2/2009	11/2/2009	15/2/2009							
1012	Formation of gabion wall with G200	2 dT	17/2/2009	19/2/2009	17/2/2009	19/2/2009							
1013	1st layer (ch 75-80 RHS)	2 dT	24/2/2009	26/2/2009	24/2/2009	26/2/2009							
1014	2nd layer (ch 75-80 RHS)	2 dT	28/2/2009	30/2/2009	28/2/2009	30/2/2009							
1015	3rd layer (ch 75-80 RHS)	1 dT	27/2/2009	27/2/2009	27/2/2009	27/2/2009							
1016	4th layer (ch 75-80 RHS)	1 dT	27/2/2009	27/2/2009	27/2/2009	27/2/2009							
1017	5th layer (ch 75-80 RHS)	1 dT	27/2/2009	27/2/2009	27/2/2009	27/2/2009							
1018	G500 toe in front of gabion	2 dT	19/4/2009	21/4/2009	19/4/2009	21/4/2009							
1019	Boulder at river course	7 dT	11/11/2011	17/11/2011	11/11/2011	17/11/2011							
1020	Gabion (ch 80-90 RHS) TG2	100T dT	10/2/2009	7/11/2011	10/2/2009	7/11/2011							
1021	Trench excavation and replacing grade 200	3 dT	10/2/2009	12/2/2009	10/2/2009	12/2/2009							
1022	Formation of gabion wall with G200	2 dT	17/2/2009	19/2/2009	17/2/2009	19/2/2009							
1023	1st layer (ch 80-90 RHS)	2 dT	23/2/2009	25/2/2009	23/2/2009	25/2/2009							
1024	2nd layer (ch 80-90 RHS)	2 dT	27/2/2009	29/2/2009	27/2/2009	29/2/2009							
1025	3rd layer (ch 80-90 RHS)	1 dT	27/2/2009	27/2/2009	27/2/2009	27/2/2009							
1026	4th layer (ch 80-90 RHS)	1 dT	27/2/2009	27/2/2009	27/2/2009	27/2/2009							
1027	5th layer (ch 80-90 RHS)	1 dT	27/2/2009	27/2/2009	27/2/2009	27/2/2009							
1028	G500 toe in front of gabion	2 dT	18/4/2009	20/4/2009	18/4/2009	20/4/2009							
1029	Boulder at river course	7 dT	11/11/2011	17/11/2011	11/11/2011	17/11/2011							
1030	Gabion (ch 90-100 RHS) TG2	100T dT	2/2/2009	7/11/2011	2/2/2009	7/11/2011							
1031	Trench excavation	1 dT	2/2/2009	2/2/2009	2/2/2009	2/2/2009							
1032	Forming gabion units	2 dT	2/2/2009	4/2/2009	2/2/2009	4/2/2009							
1033	1st layer (ch 90-100 RHS)	3 dT	4/2/2009	7/2/2009	4/2/2009	7/2/2009							
1034	2nd layer (ch 90-100 RHS)	3 dT	11/2/2009	14/2/2009	11/2/2009	14/2/2009							
1035	3rd layer (ch 90-100 RHS)	3 dT	18/2/2009	21/2/2009	18/2/2009	21/2/2009							
1036	4th layer (ch 90-100 RHS)	3 dT	25/2/2009	28/2/2009	25/2/2009	28/2/2009							
1037	5th layer (ch 90-100 RHS)	3 dT	2/3/2009	5/3/2009	2/3/2009	5/3/2009							
1038	G500 toe in front of gabion	7 dT	24/2/2009	3/3/2009	24/2/2009	3/3/2009							
1039	Boulder at river course	7 dT	7/11/2011	14/11/2011	7/11/2011	14/11/2011							
1040	Manholes, Basins (ch 100 RHS)	8 d	1/2/2010	9/2/2010	1/2/2010	9/2/2010							
1041	Formwork and concreting	8 d	1/2/2010	9/2/2010	1/2/2010	9/2/2010							
1042	Gabion (ch 100-110 RHS) TG2	98T dT	2/4/2009	7/11/2011	2/4/2009	7/11/2011							
1043	Trench excavation and replacing grade 200	2 dT	2/4/2009	4/4/2009	2/4/2009	4/4/2009							
1044	Formation of gabion wall with G200	3 dT	5/4/2009	8/4/2009	5/4/2009	8/4/2009							
1045	1st layer (ch 100-110 RHS)	2 dT	9/4/2009	11/4/2009	9/4/2009	11/4/2009							
1046	2nd layer (ch 100-110 RHS)	2 dT	13/4/2009	15/4/2009	13/4/2009	15/4/2009							
1047	3rd layer (ch 100-110 RHS)	2 dT	17/4/2009	19/4/2009	17/4/2009	19/4/2009							
1048	4th layer (ch 100-110 RHS)	2 dT	21/4/2009	23/4/2009	21/4/2009	23/4/2009							
1049	5th layer (ch 100-110 RHS)	2 dT	25/4/2009	27/4/2009	25/4/2009	27/4/2009							
1050	G500 toe in front of gabion	7 dT	17/11/2011	24/11/2011	17/11/2011	24/11/2011							
1051	Boulder at river course	7 dT	17/11/2011	24/11/2011	17/11/2011	24/11/2011							
1052	Area P	1 dT	28/5/2008	28/5/2008	28/5/2008	28/5/2008							
1053	Hand over	1 dT	28/5/2008	28/5/2008	28/5/2008	28/5/2008							
1054	CH 110 - 150	865 dT	4/9/2008	17/11/2011	4/9/2008	17/11/2011							

Critical Task Progress
 Milestone
 Summary
 Task Progress
 CR/CR - Task
 Rolled Up Task
 Rolled Up Milestone
 Rolled Up Progress
 Split
 External Tasks

Drainage Services Department

**Contract No. DC/2007/06
River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River
Revised Master Programme (Rev. 08)**

ID	Task Name	Duration	Early Start	Early Finish	Start	Finish	2007	2008	2009	2010	2011	2012	2013
1055	Site Clearance	5 d	4/8/2008	9/8/2008	4/8/2008	9/8/2008							
1056	Haul road formation	31 d	27/8/2008	27/10/2008	27/8/2008	27/10/2008							
1057	Water diversion	3 d	2/11/2008	4/11/2008	2/11/2008	4/11/2008							
1058	Bracing up the boulder	132 d	3/11/2008	14/2/2009	3/11/2008	14/2/2009							
1059	Demolish the house near ARC	21 d	24/10/2008	13/11/2008	24/10/2008	13/11/2008							
1060	Gabion (ch 190-150 LHS) T02	83 d	2/12/2008	5/3/2009	2/12/2008	5/3/2009							
1061	Trench excavation and replacing grade 200	12 d	1/12/2008	13/12/2008	1/12/2008	13/12/2008							
1062	Formation of gabion wall with G200	3 d	2/12/2008	4/12/2008	2/12/2008	4/12/2008							
1063	1st layer, 8th layer (ch 110-150 LHS)	20 d	5/12/2008	24/12/2008	5/12/2008	24/12/2008							
1064	G500 toe in front of gabion	6 d	12/12/2008	18/12/2008	12/12/2008	18/12/2008							
1065	Maintenance staircase (ch 130 RHS)	5 d	1/1/2009	6/1/2009	1/1/2009	6/1/2009							
1066	Formwork and concreting	41 d	2/1/2009	12/2/2009	2/1/2009	12/2/2009							
1067	Gabler (ch 140-150 LHS) T04	12 d	2/1/2009	14/1/2009	2/1/2009	14/1/2009							
1068	Trench excavation and replacing grade 200	3 d	14/1/2009	18/1/2009	14/1/2009	18/1/2009							
1069	Formation of gabion wall with G200	20 d	17/1/2009	6/2/2009	17/1/2009	6/2/2009							
1070	1st layer, 4th layer (ch 142-150 LHS)	6 d	7/2/2009	12/2/2009	7/2/2009	12/2/2009							
1071	G500 toe in front of gabion	435 d	8/1/2009	17/1/2011	8/1/2009	17/1/2011							
1072	Footbridge T03 (Ch 150)	10 d	9/1/2009	19/1/2009	9/1/2009	19/1/2009							
1073	Bulk excavation for footing (Abutment A)	1 d	19/1/2009	19/1/2009	19/1/2009	19/1/2009							
1074	Formation - Abutment A	5 d	23/1/2009	28/1/2009	23/1/2009	28/1/2009							
1075	Formwork and rebar fixing (Abutment A, footing)	1 d	25/1/2009	25/1/2009	25/1/2009	25/1/2009							
1076	Concreting (Abutment A, footing)	3 d	28/1/2009	30/1/2009	28/1/2009	30/1/2009							
1077	Stripping off formwork (Abutment A, footing)	5 d	2/2/2009	7/2/2009	2/2/2009	7/2/2009							
1078	Rebar fixing and shuttering formwork (Abutment A, column)	1 d	2/2/2009	2/2/2009	2/2/2009	2/2/2009							
1079	Concreting (Abutment A, column)	3 d	4/2/2009	7/2/2009	4/2/2009	7/2/2009							
1080	Stripping off formwork (Abutment A, column)	10 d	8/2/2009	18/2/2009	8/2/2009	18/2/2009							
1081	Bulk excavation for footing (Abutment B)	1 d	29/2/2009	29/2/2009	29/2/2009	29/2/2009							
1082	Formation - Abutment B	5 d	1/3/2009	6/3/2009	1/3/2009	6/3/2009							
1083	Formwork and rebar fixing (Abutment B, footing)	5 d	1/3/2009	6/3/2009	1/3/2009	6/3/2009							
1084	Concreting (Abutment B, footing)	3 d	4/3/2009	7/3/2009	4/3/2009	7/3/2009							
1085	Stripping off formwork (Abutment B, footing)	3 d	10/3/2009	13/3/2009	10/3/2009	13/3/2009							
1086	Rebar fixing and shuttering formwork (Abutment B, column)	5 d	13/3/2009	18/3/2009	13/3/2009	18/3/2009							
1087	Concreting (Abutment B, column)	1 d	21/3/2009	21/3/2009	21/3/2009	21/3/2009							
1088	Stripping off formwork (Abutment B, column)	3 d	24/3/2009	27/3/2009	24/3/2009	27/3/2009							
1089	Formwork and rebar fixing for footing	20 d	1/2/2010	20/2/2010	1/2/2010	20/2/2010							
1090	Concreting (footing)	20 d	21/2/2010	20/2/2010	21/2/2010	20/2/2010							
1091	Stripping off formwork (footing)	3 d	10/3/2011	13/3/2011	10/3/2011	13/3/2011							
1092	Ratting visitation (footing)	5 d	13/3/2011	18/3/2011	13/3/2011	18/3/2011							
1093	Ch 150 - 230	92 d	4/8/2008	14/3/2011	4/8/2008	14/3/2011							
1094	Site Clearance	6 d	4/8/2008	9/8/2008	4/8/2008	9/8/2008							
1095	Haul road formation	2 d	3/11/2008	4/11/2008	3/11/2008	4/11/2008							
1096	Water diversion	132 d	3/11/2008	14/2/2009	3/11/2008	14/2/2009							
1097	Bracing up the boulder	15 d	4/11/2008	18/11/2008	4/11/2008	18/11/2008							
1098	Noise barriers	60 d	2/11/2009	1/12/2009	2/11/2009	1/12/2009							
1100	Gabion (ch 150-180 LHS) T04	15 d	2/11/2009	17/11/2009	2/11/2009	17/11/2009							
1101	Trench excavation and replacing grade 200	3 d	17/11/2009	20/11/2009	17/11/2009	20/11/2009							
1102	Formation of gabion wall with G200	30 d	2/12/2009	2/1/2010	2/12/2009	2/1/2010							
1105	1st layer - 4th layer (ch 150-190 LHS)	10 d	2/12/2009	12/12/2009	2/12/2009	12/12/2009							
1104	G500 toe in front of gabion	6 d	12/12/2009	18/12/2009	12/12/2009	18/12/2009							
1105	Maintenance Staircase (ch 180 LHS)	5 d	14/12/2009	19/12/2009	14/12/2009	19/12/2009							
1106	Formwork and concreting	49 d	1/1/2010	19/2/2010	1/1/2010	19/2/2010							
1107	Retaining Wall (ch 190-200 LHS) TR1	13 d	1/1/2010	14/1/2010	1/1/2010	14/1/2010							
1108	Bulk excavation	5 d	13/1/2010	18/1/2010	13/1/2010	18/1/2010							
1109	Formwork	12 d	18/1/2010	29/1/2010	18/1/2010	29/1/2010							
1110	Formwork and rebar fixing (base slab)	3 d	30/1/2010	2/2/2010	30/1/2010	2/2/2010							
1111	Concreting (base slab)	2 d	3/2/2010	4/2/2010	3/2/2010	4/2/2010							
1112	Stripping off formwork (wall stem)	10 d	5/2/2010	14/2/2010	5/2/2010	14/2/2010							
1113	Formwork and rebar fixing (wall stem)	2 d	15/2/2010	17/2/2010	15/2/2010	17/2/2010							
1114	Concreting (wall stem)	3 d	17/2/2010	20/2/2010	17/2/2010	20/2/2010							
1115	Stripping off formwork (wall stem)	21 d	14/3/2009	3/4/2010	14/3/2009	3/4/2010							
1116	Gabion (ch 200-210 LHS) T02												

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 Data Date: Aug 2009
 Consultant: AECOM

Task Progress:
 Critical Task:
 Milestone:
 Summary:

Rolled Up Task:
 Rolled Up Critical Task:
 Rolled Up Milestone:

Rolled Up Progress:
 Split:
 External Task:

Drainage Services Department

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ID	Task Name	Duration	Early Start	Early Finish	Start	Finish	2007	2008	2009	2010	2011	2012	2013
1117	Trench excavation and replacing grade 200	1 d	14/02/2008	14/02/2008	14/02/2008	14/02/2008							
1118	Formation of gabion wall	2 d	15/02/2008	17/02/2008	15/02/2008	17/02/2008							
1119	1st layer (ch 200-210 LHS)	1 d	17/02/2008	18/02/2008	17/02/2008	18/02/2008							
1120	2nd layer (ch 200-210 LHS)	3 d	20/02/2008	23/02/2008	20/02/2008	23/02/2008							
1121	3rd layer (ch 200-210 LHS)	1 d	14/02/2008	14/02/2008	14/02/2008	14/02/2008							
1122	4th layer (ch 200-210 LHS)	1 d	14/02/2008	14/02/2008	14/02/2008	14/02/2008							
1123	Gabion (ch 185-185 RHS) TQ3	20 d	19/02/2008	30/02/2008	19/02/2008	30/02/2008							
1124	Trench excavation and replacing grade 200	5 d	19/02/2008	24/02/2008	19/02/2008	24/02/2008							
1125	Formation of gabion wall with G200	2 d	21/02/2008	23/02/2008	21/02/2008	23/02/2008							
1126	1st layer - 4th layer (ch 185-185 LHS)	10 d	21/02/2008	31/02/2008	21/02/2008	31/02/2008							
1127	G500 toe in front of gabion	3 d	19/02/2008	22/02/2008	19/02/2008	22/02/2008							
1128	Gabion (ch 185-185 RHS) TQ4	33 d	19/02/2008	22/03/2008	19/02/2008	22/03/2008							
1129	Trench excavation and replacing grade 200	2 d	19/02/2008	21/02/2008	19/02/2008	21/02/2008							
1130	Formation of gabion wall with G200	3 d	19/02/2008	22/02/2008	19/02/2008	22/02/2008							
1131	1st layer - 4th layer (ch 185-185 LHS)	15 d	19/02/2008	04/03/2008	19/02/2008	04/03/2008							
1132	G500 toe in front of gabion	3 d	19/02/2008	22/02/2008	19/02/2008	22/02/2008							
1133	Formation	14 d	19/02/2008	03/03/2008	19/02/2008	03/03/2008							
1134	Formwork	3 d	19/02/2008	22/02/2008	19/02/2008	22/02/2008							
1135	Formwork and rebar fixing	8 d	19/02/2008	27/02/2008	19/02/2008	27/02/2008							
1136	Concreting	2 d	19/02/2008	21/02/2008	19/02/2008	21/02/2008							
1137	Stripping off formwork	3 d	19/02/2008	22/02/2008	19/02/2008	22/02/2008							
1138	Gabion (ch 185-210 RHS) TQ1	42 d	19/02/2008	30/04/2008	19/02/2008	30/04/2008							
1139	Trench excavation and replacing grade 200	15 d	19/02/2008	04/03/2008	19/02/2008	04/03/2008							
1140	Formation of gabion wall with G200	3 d	19/02/2008	22/02/2008	19/02/2008	22/02/2008							
1141	1st layer - 5th layer (ch 185-210 LHS)	20 d	19/02/2008	09/03/2008	19/02/2008	09/03/2008							
1142	G500 toe in front of gabion	4 d	19/02/2008	23/02/2008	19/02/2008	23/02/2008							
1143	Formwork TQ3 (ch 210)	7 d	19/02/2008	26/02/2008	19/02/2008	26/02/2008							
1144	Tie bar (ch 185)	2 d	19/02/2008	21/02/2008	19/02/2008	21/02/2008							
1145	Bulk excavation for footing (Abutment A)	6 d	19/02/2008	25/02/2008	19/02/2008	25/02/2008							
1146	Formwork - Abutment A	1 d	25/02/2008	26/02/2008	25/02/2008	26/02/2008							
1147	Formwork and rebar fixing (Abutment A, footing)	3 d	26/02/2008	29/02/2008	26/02/2008	29/02/2008							
1148	Formwork and rebar fixing (Abutment A, footing)	1 d	19/02/2008	20/02/2008	19/02/2008	20/02/2008							
1149	Formwork and rebar fixing (Abutment A)	1 d	19/02/2008	20/02/2008	19/02/2008	20/02/2008							
1150	Stripping off the formwork (footing) and formwork (Abutment A)	2 d	19/02/2008	21/02/2008	19/02/2008	21/02/2008							
1151	Rebar tying and shoring formwork (Abutment A, wall)	1 d	19/02/2008	20/02/2008	19/02/2008	20/02/2008							
1152	Formwork (column, abutment A)	1 d	19/02/2008	20/02/2008	19/02/2008	20/02/2008							
1153	Formwork (column, abutment A)	1 d	19/02/2008	20/02/2008	19/02/2008	20/02/2008							
1154	Formwork (column, abutment A)	1 d	19/02/2008	20/02/2008	19/02/2008	20/02/2008							
1155	Formwork and rebar fixing (Abutment B, footing)	1 d	19/02/2008	20/02/2008	19/02/2008	20/02/2008							
1156	Formwork and rebar fixing (Abutment B)	1 d	19/02/2008	20/02/2008	19/02/2008	20/02/2008							
1157	Formwork and rebar fixing (Abutment B)	1 d	19/02/2008	20/02/2008	19/02/2008	20/02/2008							
1158	Formwork and rebar fixing (Abutment B)	1 d	19/02/2008	20/02/2008	19/02/2008	20/02/2008							
1159	Formwork and rebar fixing (Abutment B)	1 d	19/02/2008	20/02/2008	19/02/2008	20/02/2008							
1160	Formwork and rebar fixing (Abutment B)	1 d	19/02/2008	20/02/2008	19/02/2008	20/02/2008							
1161	Formwork and rebar fixing (Abutment B)	1 d	19/02/2008	20/02/2008	19/02/2008	20/02/2008							
1162	Formwork and rebar fixing (Abutment B)	1 d	19/02/2008	20/02/2008	19/02/2008	20/02/2008							
1163	Formwork and rebar fixing (Abutment B)	1 d	19/02/2008	20/02/2008	19/02/2008	20/02/2008							
1164	Formwork and rebar fixing (Abutment B)	1 d	19/02/2008	20/02/2008	19/02/2008	20/02/2008							
1165	Formwork and rebar fixing (Abutment B)	1 d	19/02/2008	20/02/2008	19/02/2008	20/02/2008							
1166	Formwork and rebar fixing (Abutment B)	1 d	19/02/2008	20/02/2008	19/02/2008	20/02/2008							
1167	Formwork and rebar fixing (Abutment B)	1 d	19/02/2008	20/02/2008	19/02/2008	20/02/2008							
1168	Formwork and rebar fixing (Abutment B)	1 d	19/02/2008	20/02/2008	19/02/2008	20/02/2008							
1169	Formwork and rebar fixing (Abutment B)	1 d	19/02/2008	20/02/2008	19/02/2008	20/02/2008							
1170	Formwork and rebar fixing (Abutment B)	1 d	19/02/2008	20/02/2008	19/02/2008	20/02/2008							
1171	Formwork and rebar fixing (Abutment B)	1 d	19/02/2008	20/02/2008	19/02/2008	20/02/2008							
1172	Formwork and rebar fixing (Abutment B)	1 d	19/02/2008	20/02/2008	19/02/2008	20/02/2008							
1173	Formwork and rebar fixing (Abutment B)	1 d	19/02/2008	20/02/2008	19/02/2008	20/02/2008							
1174	Formwork and rebar fixing (Abutment B)	1 d	19/02/2008	20/02/2008	19/02/2008	20/02/2008							
1175	Formwork and rebar fixing (Abutment B)	1 d	19/02/2008	20/02/2008	19/02/2008	20/02/2008							
1176	Formwork and rebar fixing (Abutment B)	1 d	19/02/2008	20/02/2008	19/02/2008	20/02/2008							
1177	Formwork and rebar fixing (Abutment B)	1 d	19/02/2008	20/02/2008	19/02/2008	20/02/2008							
1178	Formwork and rebar fixing (Abutment B)	1 d	19/02/2008	20/02/2008	19/02/2008	20/02/2008							
1179	Formwork and rebar fixing (Abutment B)	1 d	19/02/2008	20/02/2008	19/02/2008	20/02/2008							

Area N

Project: Revised M. Prog. (Rev.08)
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Consultant: AECOM

Task: Task progress
Critical Task: Critical Task
Milestone: Milestone
Summary: Summary

Rollled Up Task: Rollled Up Task
Rollled Up Critical Task: Rollled Up Critical Task
Rollled Up Milestone: Rollled Up Milestone

Relied Up Progress: Relied Up Progress
Split: Split
External Tasks: External Tasks

PT Task: PT Task

Drainage Services Department

Contract No. DC/2007/06 River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River Revised Master Programme (Rev. 08)

ID	Task Name	Duration	Early Start	Early Finish	Start	Finish	2007	2008	2009	2010	2011	2012	2013
1178	Handover	1 d	28/5/2008	28/5/2008	28/5/2008	28/5/2008							
1180	Site Clearance for initial Survey	1 d	28/5/2008	28/5/2008	28/5/2008	28/5/2008							
1181	Ch 550-600	1 d	28/5/2008	28/5/2008	28/5/2008	28/5/2008							
1182	Site Clearance	18 d	28/5/2008	15/6/2008	28/5/2008	15/6/2008							
1183	Ch 550-600	7 d	28/5/2008	4/6/2008	28/5/2008	4/6/2008							
1184	Geological Mapping for TR5	1 d	28/5/2008	28/5/2008	28/5/2008	28/5/2008							
1186	Ch 230-250	28 d	28/5/2008	15/7/2008	28/5/2008	15/7/2008							
1187	Site Clearance	1 d	28/5/2008	28/5/2008	28/5/2008	28/5/2008							
1188	Haul road formation	12 d	28/5/2008	9/6/2008	28/5/2008	9/6/2008							
1189	Noise barrier	18 d	28/5/2008	15/7/2008	28/5/2008	15/7/2008							
1190	Ch 230-260 R-1S Non-transparent	18 d	28/5/2008	15/7/2008	28/5/2008	15/7/2008							
1191	Gabion (ch 230-260 LMS) TG2	47 d	28/5/2008	14/8/2008	28/5/2008	14/8/2008							
1192	Trench excavation and replacing grade 200	20 d	28/5/2008	18/6/2008	28/5/2008	18/6/2008							
1193	Formation of gabion wall with G200	3 d	28/5/2008	31/5/2008	28/5/2008	31/5/2008							
1194	1st layer - 5th layer (ch 260-270 L-S)	20 d	28/5/2008	17/7/2008	28/5/2008	17/7/2008							
1195	G500 toe in front of gabion	4 d	28/5/2008	1/6/2008	28/5/2008	1/6/2008							
1196	Maintenance Structure (ch 240-LMS)	8 d	1/6/2008	9/6/2008	1/6/2008	9/6/2008							
1197	Formwork and rebar (ch 240-LMS)	8 d	1/6/2008	9/6/2008	1/6/2008	9/6/2008							
1198	Formwork and rebar (ch 240-LMS)	3 d	1/6/2008	4/6/2008	1/6/2008	4/6/2008							
1199	Formwork and rebar (ch 240-LMS)	3 d	1/6/2008	4/6/2008	1/6/2008	4/6/2008							
1200	Formwork and rebar (ch 240-LMS)	3 d	1/6/2008	4/6/2008	1/6/2008	4/6/2008							
1201	Formwork and rebar (ch 240-LMS)	3 d	1/6/2008	4/6/2008	1/6/2008	4/6/2008							
1202	Gabion (ch 240-260 RMS) TG1	30 d	28/5/2008	17/7/2008	28/5/2008	17/7/2008							
1203	Trench excavation and replacing grade 200	15 d	28/5/2008	12/6/2008	28/5/2008	12/6/2008							
1204	Formation of gabion wall with G200	2 d	28/5/2008	29/5/2008	28/5/2008	29/5/2008							
1205	1st layer - 5th layer (ch 260-270 L-S)	10 d	28/5/2008	7/6/2008	28/5/2008	7/6/2008							
1206	G500 toe in front of gabion	3 d	28/5/2008	31/5/2008	28/5/2008	31/5/2008							
1207	Ch 260-330	58 d	28/5/2008	14/8/2008	28/5/2008	14/8/2008							
1208	Site Clearance	9 d	28/5/2008	6/6/2008	28/5/2008	6/6/2008							
1209	Haul road formation	25 d	28/5/2008	18/7/2008	28/5/2008	18/7/2008							
1210	Water diversion	8 d	14/6/2008	22/6/2008	14/6/2008	22/6/2008							
1211	Gabion (ch 280-270 LHS) TG2	30 d	14/6/2008	14/7/2008	14/6/2008	14/7/2008							
1212	Trench excavation and replacing grade 200	15 d	14/6/2008	29/6/2008	14/6/2008	29/6/2008							
1213	Formation of gabion wall with G200	2 d	14/6/2008	16/6/2008	14/6/2008	16/6/2008							
1214	1st layer - 5th layer (ch 260-270 LHS)	10 d	14/6/2008	4/7/2008	14/6/2008	4/7/2008							
1215	G500 toe in front of gabion	3 d	14/6/2008	17/6/2008	14/6/2008	17/6/2008							
1216	Gabion (ch 260-270 RMS) TG1	30 d	14/6/2008	14/7/2008	14/6/2008	14/7/2008							
1217	Trench excavation and replacing grade 200	15 d	14/6/2008	29/6/2008	14/6/2008	29/6/2008							
1218	Formation of gabion wall with G200	2 d	14/6/2008	16/6/2008	14/6/2008	16/6/2008							
1219	1st layer - 5th layer (ch 260-270 LHS)	10 d	14/6/2008	4/7/2008	14/6/2008	4/7/2008							
1220	G500 toe in front of gabion	3 d	14/6/2008	17/6/2008	14/6/2008	17/6/2008							
1221	Concrete (ch 270)	28 d	14/6/2008	12/7/2008	14/6/2008	12/7/2008							
1222	Trench excavation and replacing grade 200	15 d	14/6/2008	29/6/2008	14/6/2008	29/6/2008							
1223	Formation of gabion wall with G200	2 d	14/6/2008	16/6/2008	14/6/2008	16/6/2008							
1224	Formwork and rebar (ch 270)	10 d	14/6/2008	4/7/2008	14/6/2008	4/7/2008							
1225	Concrete	3 d	14/6/2008	17/6/2008	14/6/2008	17/6/2008							
1226	Stripping off formwork	8 d	14/6/2008	22/6/2008	14/6/2008	22/6/2008							
1227	Retaining Wall (ch 270-315 LHS) TR1 (replaced by AD1)	20 d	14/6/2008	4/8/2008	14/6/2008	4/8/2008							
1228	Formwork	5 d	14/6/2008	19/6/2008	14/6/2008	19/6/2008							
1229	Formwork and rebar (ch 270-315 LHS)	12 d	14/6/2008	26/6/2008	14/6/2008	26/6/2008							
1230	Formwork and rebar (ch 270-315 LHS)	3 d	14/6/2008	17/6/2008	14/6/2008	17/6/2008							
1231	Formwork and rebar (ch 270-315 LHS)	3 d	14/6/2008	17/6/2008	14/6/2008	17/6/2008							
1232	Formwork and rebar (ch 270-315 LHS)	3 d	14/6/2008	17/6/2008	14/6/2008	17/6/2008							
1233	Formwork and rebar (ch 270-315 LHS)	3 d	14/6/2008	17/6/2008	14/6/2008	17/6/2008							
1234	Formwork and rebar (ch 270-315 LHS)	3 d	14/6/2008	17/6/2008	14/6/2008	17/6/2008							
1235	Formwork and rebar (ch 270-315 LHS)	3 d	14/6/2008	17/6/2008	14/6/2008	17/6/2008							
1236	Formwork and rebar (ch 270-315 LHS)	3 d	14/6/2008	17/6/2008	14/6/2008	17/6/2008							
1237	Formwork and rebar (ch 270-315 LHS)	3 d	14/6/2008	17/6/2008	14/6/2008	17/6/2008							
1238	Formwork and rebar (ch 270-315 LHS)	3 d	14/6/2008	17/6/2008	14/6/2008	17/6/2008							
1239	Formwork and rebar (ch 270-315 LHS)	3 d	14/6/2008	17/6/2008	14/6/2008	17/6/2008							
1240	Formwork and rebar (ch 270-315 LHS)	3 d	14/6/2008	17/6/2008	14/6/2008	17/6/2008							

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 Consultant: AECOM

Critical Task Progress:

Task Progress:

Rolled Up Progress:

PT/SA:

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ID	Task Name	Duration	Early Start	Early Finish	Start	Finish	2007	2008	2009	2010	2011	2012	2013
1241	Stripping off formwork (wall stem)	2 d	11/12/2010	12/12/2010	11/12/2010	12/12/2010							
1242	Formwork and rebar tying (wall stem)	10 d	13/12/2010	23/12/2010	13/12/2010	23/12/2010							
1243	Concreting (wall stem)	2 d	23/12/2010	24/12/2010	23/12/2010	24/12/2010							
1244	Stripping off formwork (wall stem)	3 d	25/12/2010	27/12/2010	25/12/2010	27/12/2010							
1245	Step 3 (ch 305) (1.4m)	14 d	18/12/2011	1/1/2012	18/12/2011	1/1/2012							
1246	Formation	3 d	18/12/2011	21/12/2011	18/12/2011	21/12/2011							
1247	Formwork and rebar tying	5 d	4/1/2012	9/1/2012	4/1/2012	9/1/2012							
1248	Concreting	2 d	10/1/2012	11/1/2012	10/1/2012	11/1/2012							
1249	Stripping off formwork	3 d	12/1/2012	14/1/2012	12/1/2012	14/1/2012							
1250	Maintenance Step 4 (ch 315 LHS)	6 d	12/1/2012	17/1/2012	12/1/2012	17/1/2012							
1251	Formwork and concreting	5 d	21/1/2012	26/1/2012	21/1/2012	26/1/2012							
1252	Gabion (ch 316-320 LHS) T62 (replaced AD1)	40 d	2/1/2012	13/1/2012	2/1/2012	13/1/2012							
1253	Trench excavation and replacing grade 200	2 d	1/1/2012	1/1/2012	1/1/2012	1/1/2012							
1254	1st layer - 5th layer (ch 315-330 LHS)	10 d	13/1/2012	23/1/2012	13/1/2012	23/1/2012							
1255	Grid 100 low in front of gabion	3 d	23/1/2012	26/1/2012	23/1/2012	26/1/2012							
1256	Retaining wall (ch 316-330 RHS) TR1 (replaced by AD1)	17 d	1/1/2012	17/1/2012	1/1/2012	17/1/2012							
1257	Bulk excavation	20 d	1/1/2012	21/1/2012	1/1/2012	21/1/2012							
1258	Formation	5 d	21/1/2012	26/1/2012	21/1/2012	26/1/2012							
1259	Formwork and rebar tying (base slab)	12 d	25/1/2012	6/2/2012	25/1/2012	6/2/2012							
1260	Concreting (base slab)	3 d	6/2/2012	9/2/2012	6/2/2012	9/2/2012							
1261	Stripping off formwork (wall stem)	2 d	11/2/2012	12/2/2012	11/2/2012	12/2/2012							
1262	Formwork and rebar tying (wall stem)	10 d	13/2/2012	23/2/2012	13/2/2012	23/2/2012							
1263	Concreting (wall stem)	3 d	23/2/2012	26/2/2012	23/2/2012	26/2/2012							
1264	Shipping off formwork (wall stem)	12 d	1/1/2012	13/1/2012	1/1/2012	13/1/2012							
1265	Demolition of existing Footbridge TB-A (ch 325)	32 d	1/1/2012	13/1/2012	1/1/2012	13/1/2012							
1266	Demolition works	10 d	1/1/2012	11/1/2012	1/1/2012	11/1/2012							
1267	Footbridge TB04 (ch 330)	1 d	1/1/2012	1/1/2012	1/1/2012	1/1/2012							
1268	Bulk excavation for footing (Abutment A)	1 d	1/1/2012	1/1/2012	1/1/2012	1/1/2012							
1269	Formation - Abutment A	5 d	1/1/2012	6/1/2012	1/1/2012	6/1/2012							
1270	Formwork and rebar tying (Abutment A footing)	3 d	6/1/2012	9/1/2012	6/1/2012	9/1/2012							
1271	Concreting (Abutment A footing)	1 d	9/1/2012	9/1/2012	9/1/2012	9/1/2012							
1272	Stripping off formwork (Abutment A footing)	3 d	12/1/2012	15/1/2012	12/1/2012	15/1/2012							
1273	Rebar fixing and shuttering formwork (Abutment A column)	5 d	15/1/2012	20/1/2012	15/1/2012	20/1/2012							
1274	Concreting (Abutment A column)	1 d	20/1/2012	20/1/2012	20/1/2012	20/1/2012							
1275	Stripping off formwork (Abutment A column)	3 d	23/1/2012	26/1/2012	23/1/2012	26/1/2012							
1276	Bulk excavation for footing (Abutment B)	1 d	23/1/2012	23/1/2012	23/1/2012	23/1/2012							
1277	Formation - Abutment B	5 d	23/1/2012	28/1/2012	23/1/2012	28/1/2012							
1278	Formwork and rebar tying (Abutment B footing)	3 d	28/1/2012	31/1/2012	28/1/2012	31/1/2012							
1279	Concreting (Abutment B footing)	3 d	31/1/2012	3/2/2012	31/1/2012	3/2/2012							
1280	Shipping off formwork (Abutment B footing)	6 d	3/2/2012	9/2/2012	3/2/2012	9/2/2012							
1281	Rebar fixing and shuttering formwork (Abutment B column)	1 d	12/2/2012	12/2/2012	12/2/2012	12/2/2012							
1282	Concreting (Abutment B column)	3 d	15/2/2012	18/2/2012	15/2/2012	18/2/2012							
1283	Shipping off formwork (Abutment B column)	20 d	1/1/2012	21/1/2012	1/1/2012	21/1/2012							
1284	Formwork and rebar tying for decking	20 d	21/1/2012	10/2/2012	21/1/2012	10/2/2012							
1285	Concreting (decking)	3 d	14/2/2012	17/2/2012	14/2/2012	17/2/2012							
1286	Stripping off formwork (decking)	3 d	17/2/2012	20/2/2012	17/2/2012	20/2/2012							
1287	Railing installation (decking)	5 d	14/2/2012	19/2/2012	14/2/2012	19/2/2012							
1288	Ch 330-350	372 d	6/2/2010	14/2/2011	6/2/2010	14/2/2011							
1289	Gabion (ch 330-345 LHS) T03 (replaced AD1)	66 d	21/2/2010	25/1/2011	21/2/2010	25/1/2011							
1290	Trench excavation and replacing grade 200	40 d	21/2/2010	10/1/2011	21/2/2010	10/1/2011							
1291	Formation of gabion wall with G200	2 d	11/1/2011	12/1/2011	11/1/2011	12/1/2011							
1292	1st layer - 5th layer (ch 350-365 LHS)	10 d	13/1/2011	23/1/2011	13/1/2011	23/1/2011							
1293	Grid 100 in front of gabion	3 d	23/1/2011	26/1/2011	23/1/2011	26/1/2011							
1294	Good formation of gabion	14 d	12/2/2011	14/2/2011	12/2/2011	14/2/2011							
1295	Step 4 (ch 345) (1.4m)	3 d	12/2/2011	15/2/2011	12/2/2011	15/2/2011							
1296	Formation	3 d	12/2/2011	15/2/2011	12/2/2011	15/2/2011							
1297	Formwork and rebar tying	5 d	4/2/2011	9/2/2011	4/2/2011	9/2/2011							
1298	Concreting	2 d	10/2/2011	12/2/2011	10/2/2011	12/2/2011							
1299	Stripping off formwork	3 d	12/2/2011	14/2/2011	12/2/2011	14/2/2011							
1300	Retaining wall (ch 346-350 LHS) TR1 (replaced by AD1)	47 d	1/1/2010	16/1/2011	1/1/2010	16/1/2011							
1301	Bulk excavation	10 d	1/1/2010	10/1/2010	1/1/2010	10/1/2010							
1302	Formation	5 d	11/1/2010	16/1/2010	11/1/2010	16/1/2010							

Project: Revised M. Pmp (Rev. 03)
 Date: Aug 2009
 Consultant: AECOM

Critical Task Progress:
 Milestone:
 Summary:

Task:
 Task Progress:
 Critical Task:

Rolled Up Task:
 Rolled Up Critical Task:
 Rolled Up Milestone:

Railed Up Progress:
 Split:
 External Tasks:

Drainage Services Department

Contract No. DC/2007/06 River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River Revised Master Programme (Rev. 08)

ID	Task Name	Duration	Early Start	Early Finish	Start	Finish	2006	2007	2008	2009	2010	2011	2012	2013
1303	Formwork and rebar fixing (base slab)	12 d	18/12/2010	29/12/2010	18/12/2010	27/12/2010								
1304	Concrete (base slab)	3 d	28/12/2010	30/12/2010	28/12/2010	30/12/2010								
1305	Stripping off formwork (wall stem)	2 d	31/12/2010	01/01/2011	31/12/2010	01/01/2011								
1306	Formwork and rebar fixing (wall stem)	10 d	01/01/2011	11/01/2011	01/01/2011	11/01/2011								
1307	Concrete (wall stem)	2 d	02/01/2011	04/01/2011	02/01/2011	04/01/2011								
1308	Stripping off formwork (wall stem)	3 d	04/01/2011	07/01/2011	04/01/2011	07/01/2011								
1309	Demolition of existing Footbridge TB-B (ch 380)	12 d	01/01/2010	13/01/2010	01/01/2010	13/01/2010								
1310	Formwork TB05 (ch 390)	12 d	01/01/2010	13/01/2010	01/01/2010	13/01/2010								
1311	Bulk excavation for footing (Abutment A)	31 d	02/01/2010	18/02/2010	02/01/2010	18/02/2010								
1312	Formwork and rebar fixing (Abutment A)	1 d	18/02/2010	19/02/2010	18/02/2010	19/02/2010								
1313	Formwork and rebar fixing (Abutment A, footing)	5 d	19/02/2010	24/02/2010	19/02/2010	24/02/2010								
1314	Concrete (Abutment A, footing)	1 d	24/02/2010	25/02/2010	24/02/2010	25/02/2010								
1315	Stripping off formwork (Abutment A, footing)	3 d	25/02/2010	28/02/2010	25/02/2010	28/02/2010								
1316	Rebar fixing and shimming formwork (Abutment A, column)	2 d	28/02/2010	30/02/2010	28/02/2010	30/02/2010								
1317	Concrete (Abutment A, column)	3 d	03/03/2010	06/03/2010	03/03/2010	06/03/2010								
1318	Stripping off formwork (Abutment A, column)	1 d	06/03/2010	07/03/2010	06/03/2010	07/03/2010								
1319	Bulk excavation for footing (Abutment B)	10 d	22/02/2010	03/03/2010	22/02/2010	03/03/2010								
1320	Formwork - Abutment B	1 d	03/03/2010	04/03/2010	03/03/2010	04/03/2010								
1321	Formwork and rebar fixing (Abutment B, footing)	5 d	03/03/2010	08/03/2010	03/03/2010	08/03/2010								
1322	Concrete (Abutment B, footing)	1 d	08/03/2010	09/03/2010	08/03/2010	09/03/2010								
1323	Stripping off formwork (Abutment B, footing)	3 d	09/03/2010	12/03/2010	09/03/2010	12/03/2010								
1324	Rebar fixing and shimming formwork (Abutment B, column)	5 d	13/03/2010	18/03/2010	13/03/2010	18/03/2010								
1325	Concrete (Abutment B, column)	1 d	18/03/2010	19/03/2010	18/03/2010	19/03/2010								
1326	Stripping off formwork (Abutment B, column)	2 d	20/03/2010	22/03/2010	20/03/2010	22/03/2010								
1327	Formwork and rebar fixing (for decking)	20 d	01/01/2010	20/01/2010	01/01/2010	20/01/2010								
1328	Concrete (decking)	20 d	01/01/2010	20/01/2010	01/01/2010	20/01/2010								
1329	Stripping off formwork (decking)	8 d	11/02/2010	19/02/2010	11/02/2010	19/02/2010								
1330	Rebar installation (decking)	5 d	14/02/2010	19/02/2010	14/02/2010	19/02/2010								
1331	Ch 380-400	41 d	21/02/2010	16/03/2010	21/02/2010	16/03/2010								
1332	Retaining Wall (ch 380-400 LH5) TR1 (replaced by AD1)	77 d	14/02/2010	19/04/2010	14/02/2010	19/04/2010								
1333	Bulk excavation	40 d	14/02/2010	24/03/2010	14/02/2010	24/03/2010								
1334	Formwork	5 d	01/01/2011	06/01/2011	01/01/2011	06/01/2011								
1335	Formwork and rebar fixing (base slab)	12 d	01/01/2011	13/01/2011	01/01/2011	13/01/2011								
1336	Concrete (base slab)	3 d	27/12/2010	30/12/2010	27/12/2010	30/12/2010								
1337	Stripping off formwork (wall stem)	2 d	30/12/2010	31/12/2010	30/12/2010	31/12/2010								
1338	Formwork and rebar fixing (wall stem)	15 d	01/01/2011	16/01/2011	01/01/2011	16/01/2011								
1339	Concrete (wall stem)	3 d	13/02/2011	16/02/2011	13/02/2011	16/02/2011								
1340	Stripping off formwork (wall stem)	3 d	16/02/2011	19/02/2011	16/02/2011	19/02/2011								
1341	Retaining Wall (ch 380-400 RH5) TR1 (replaced by AD1)	77 d	01/01/2010	16/03/2010	01/01/2010	16/03/2010								
1342	Bulk excavation	40 d	01/01/2010	20/01/2010	01/01/2010	20/01/2010								
1343	Formwork	5 d	11/02/2010	16/02/2010	11/02/2010	16/02/2010								
1344	Formwork and rebar fixing (base slab)	12 d	11/02/2010	23/02/2010	11/02/2010	23/02/2010								
1345	Concrete (base slab)	3 d	28/02/2010	31/02/2010	28/02/2010	31/02/2010								
1346	Stripping off formwork (wall stem)	2 d	31/12/2010	01/01/2011	31/12/2010	01/01/2011								
1347	Formwork and rebar fixing (wall stem)	10 d	01/01/2011	11/01/2011	01/01/2011	11/01/2011								
1348	Concrete (wall stem)	3 d	13/01/2011	16/01/2011	13/01/2011	16/01/2011								
1349	Stripping off formwork (wall stem)	3 d	16/01/2011	19/01/2011	16/01/2011	19/01/2011								
1350	Demolition of existing Footbridge TB-C (ch 380)	12 d	01/01/2010	13/01/2010	01/01/2010	13/01/2010								
1351	Demolition works	14 d	01/02/2011	15/02/2011	01/02/2011	15/02/2011								
1352	Step 5 (ch 400) (1,4m)	3 d	13/02/2011	16/02/2011	13/02/2011	16/02/2011								
1353	Formwork	3 d	16/02/2011	19/02/2011	16/02/2011	19/02/2011								
1354	Formwork and rebar fixing	3 d	19/02/2011	22/02/2011	19/02/2011	22/02/2011								
1355	Concrete	2 d	22/02/2011	24/02/2011	22/02/2011	24/02/2011								
1356	Stripping off formwork	3 d	24/02/2011	27/02/2011	24/02/2011	27/02/2011								
1357	Formwork TB04 (ch 400)	3 d	27/02/2011	30/02/2011	27/02/2011	30/02/2011								
1358	Bulk excavation for footing (Abutment A)	10 d	15/12/2010	25/12/2010	15/12/2010	25/12/2010								
1359	Formwork and rebar fixing (Abutment A)	1 d	25/12/2010	26/12/2010	25/12/2010	26/12/2010								
1360	Concrete (Abutment A, footing)	5 d	26/12/2010	31/12/2010	26/12/2010	31/12/2010								
1361	Stripping off formwork (Abutment A, footing)	1 d	31/12/2010	31/12/2010	31/12/2010	31/12/2010								
1362	Rebar fixing and shimming formwork (Abutment A, column)	3 d	01/01/2011	04/01/2011	01/01/2011	04/01/2011								
1363	Concrete (Abutment A, column)	5 d	04/01/2011	09/01/2011	04/01/2011	09/01/2011								

Project: Revised M. Prog (Rev.08)
 Date: Aug 2009
 Consultant: AECOM

Task Progress:
 Critical Task:

Milestones:
 Summary:

Rotted Up Task:
 Rollout Up Milestone:

Split:
 External Tasks:

P.T.B.K.

Drainage Services Department

Contract No. DC/2007/06 River Improvement Works in Upper Lam Tsuen River, Sha Shan River and Upper Tai Po River Revised Master Programme (Rev. 08)

ID	Task Name	Duration	Early Start	Early Finish	Start	Finish	2007	2008	2009	2010	2011	2012	2013
1345	Concreting (Abutment A, column)	1d	9/2/2010	9/2/2010	9/2/2010	9/2/2010							
1346	Stripping off formwork (Abutment A, column)	3d	10/2/2010	12/2/2010	10/2/2010	12/2/2010							
1347	Bulk excavation for retaining (Abutment B)	10d	2/1/2010	11/1/2010	2/1/2010	11/1/2010							
1348	Formwork - Abutment B	1d	2/1/2010	2/1/2010	2/1/2010	2/1/2010							
1349	Formwork and rebar fixing (Abutment B, footing)	5d	13/1/2010	17/1/2010	13/1/2010	17/1/2010							
1350	Concreting (Abutment B, footing)	1d	18/1/2010	18/1/2010	18/1/2010	18/1/2010							
1351	Stripping off formwork (Abutment B, footing)	3d	19/1/2010	21/1/2010	19/1/2010	21/1/2010							
1352	Rebar fixing and abutting formwork (Abutment B, column)	1d	22/1/2010	22/1/2010	22/1/2010	22/1/2010							
1353	Concreting (Abutment B, column)	3d	24/1/2010	26/1/2010	24/1/2010	26/1/2010							
1354	Stripping off formwork (Abutment B, column)	3d	28/1/2010	30/1/2010	28/1/2010	30/1/2010							
1355	Formwork and rebar fixing (base slab)	3d	31/1/2010	3/2/2010	31/1/2010	3/2/2010							
1356	Concreting (base slab)	3d	4/2/2010	6/2/2010	4/2/2010	6/2/2010							
1357	Stripping off formwork (well stem)	3d	9/2/2010	11/2/2010	9/2/2010	11/2/2010							
1358	Formwork and rebar fixing (well stem)	3d	12/2/2010	14/2/2010	12/2/2010	14/2/2010							
1359	Concreting (well stem)	3d	15/2/2010	17/2/2010	15/2/2010	17/2/2010							
1360	Stripping off formwork (well stem)	3d	18/2/2010	20/2/2010	18/2/2010	20/2/2010							
1361	Formwork and rebar fixing (base slab)	3d	21/2/2010	23/2/2010	21/2/2010	23/2/2010							
1362	Concreting (base slab)	3d	24/2/2010	26/2/2010	24/2/2010	26/2/2010							
1363	Stripping off formwork (well stem)	3d	27/2/2010	29/2/2010	27/2/2010	29/2/2010							
1364	Formwork and rebar fixing (well stem)	3d	28/2/2010	30/2/2010	28/2/2010	30/2/2010							
1365	Concreting (well stem)	3d	31/2/2010	3/3/2010	31/2/2010	3/3/2010							
1366	Stripping off formwork (well stem)	3d	6/3/2010	8/3/2010	6/3/2010	8/3/2010							
1367	Formwork and rebar fixing (base slab)	3d	9/3/2010	11/3/2010	9/3/2010	11/3/2010							
1368	Concreting (base slab)	3d	12/3/2010	14/3/2010	12/3/2010	14/3/2010							
1369	Stripping off formwork (well stem)	3d	15/3/2010	17/3/2010	15/3/2010	17/3/2010							
1370	Formwork and rebar fixing (well stem)	3d	18/3/2010	20/3/2010	18/3/2010	20/3/2010							
1371	Concreting (well stem)	3d	21/3/2010	23/3/2010	21/3/2010	23/3/2010							
1372	Stripping off formwork (well stem)	3d	24/3/2010	26/3/2010	24/3/2010	26/3/2010							
1373	Formwork and rebar fixing (base slab)	3d	27/3/2010	29/3/2010	27/3/2010	29/3/2010							
1374	Concreting (base slab)	3d	30/3/2010	31/3/2010	30/3/2010	31/3/2010							
1375	Stripping off formwork (well stem)	3d	3/4/2010	5/4/2010	3/4/2010	5/4/2010							
1376	Formwork and rebar fixing (well stem)	3d	8/4/2010	10/4/2010	8/4/2010	10/4/2010							
1377	Concreting (well stem)	3d	11/4/2010	13/4/2010	11/4/2010	13/4/2010							
1378	Stripping off formwork (well stem)	3d	14/4/2010	16/4/2010	14/4/2010	16/4/2010							
1379	Formwork and rebar fixing (base slab)	3d	17/4/2010	19/4/2010	17/4/2010	19/4/2010							
1380	Concreting (base slab)	3d	20/4/2010	22/4/2010	20/4/2010	22/4/2010							
1381	Stripping off formwork (well stem)	3d	23/4/2010	25/4/2010	23/4/2010	25/4/2010							
1382	Formwork and rebar fixing (well stem)	3d	26/4/2010	28/4/2010	26/4/2010	28/4/2010							
1383	Concreting (well stem)	3d	29/4/2010	30/4/2010	29/4/2010	30/4/2010							
1384	Stripping off formwork (well stem)	3d	3/5/2010	5/5/2010	3/5/2010	5/5/2010							
1385	Formwork and rebar fixing (base slab)	3d	8/5/2010	10/5/2010	8/5/2010	10/5/2010							
1386	Concreting (base slab)	3d	11/5/2010	13/5/2010	11/5/2010	13/5/2010							
1387	Stripping off formwork (well stem)	3d	14/5/2010	16/5/2010	14/5/2010	16/5/2010							
1388	Formwork and rebar fixing (well stem)	3d	17/5/2010	19/5/2010	17/5/2010	19/5/2010							
1389	Concreting (well stem)	3d	20/5/2010	22/5/2010	20/5/2010	22/5/2010							
1390	Stripping off formwork (well stem)	3d	23/5/2010	25/5/2010	23/5/2010	25/5/2010							
1391	Formwork and rebar fixing (base slab)	3d	26/5/2010	28/5/2010	26/5/2010	28/5/2010							
1392	Concreting (base slab)	3d	29/5/2010	31/5/2010	29/5/2010	31/5/2010							
1393	Stripping off formwork (well stem)	3d	3/6/2010	5/6/2010	3/6/2010	5/6/2010							
1394	Formwork and rebar fixing (well stem)	3d	8/6/2010	10/6/2010	8/6/2010	10/6/2010							
1395	Concreting (well stem)	3d	11/6/2010	13/6/2010	11/6/2010	13/6/2010							
1396	Stripping off formwork (well stem)	3d	14/6/2010	16/6/2010	14/6/2010	16/6/2010							
1397	Formwork and rebar fixing (base slab)	3d	17/6/2010	19/6/2010	17/6/2010	19/6/2010							
1398	Concreting (base slab)	3d	20/6/2010	22/6/2010	20/6/2010	22/6/2010							
1399	Stripping off formwork (well stem)	3d	23/6/2010	25/6/2010	23/6/2010	25/6/2010							
1400	Formwork and rebar fixing (well stem)	3d	26/6/2010	28/6/2010	26/6/2010	28/6/2010							
1401	Concreting (well stem)	3d	29/6/2010	30/6/2010	29/6/2010	30/6/2010							
1402	Stripping off formwork (well stem)	3d	3/7/2010	5/7/2010	3/7/2010	5/7/2010							
1403	Formwork and rebar fixing (base slab)	3d	8/7/2010	10/7/2010	8/7/2010	10/7/2010							
1404	Concreting (base slab)	3d	11/7/2010	13/7/2010	11/7/2010	13/7/2010							
1405	Stripping off formwork (well stem)	3d	14/7/2010	16/7/2010	14/7/2010	16/7/2010							
1406	Formwork and rebar fixing (base slab)	3d	17/7/2010	19/7/2010	17/7/2010	19/7/2010							
1407	Concreting (base slab)	3d	20/7/2010	22/7/2010	20/7/2010	22/7/2010							
1408	Stripping off formwork (well stem)	3d	23/7/2010	25/7/2010	23/7/2010	25/7/2010							
1409	Formwork and rebar fixing (well stem)	3d	26/7/2010	28/7/2010	26/7/2010	28/7/2010							
1410	Concreting (well stem)	3d	29/7/2010	30/7/2010	29/7/2010	30/7/2010							
1411	Stripping off formwork (well stem)	3d	3/8/2010	5/8/2010	3/8/2010	5/8/2010							
1412	Formwork and rebar fixing (base slab)	3d	8/8/2010	10/8/2010	8/8/2010	10/8/2010							
1413	Concreting (base slab)	3d	11/8/2010	13/8/2010	11/8/2010	13/8/2010							
1414	Stripping off formwork (well stem)	3d	14/8/2010	16/8/2010	14/8/2010	16/8/2010							
1415	Formwork and rebar fixing (well stem)	3d	17/8/2010	19/8/2010	17/8/2010	19/8/2010							
1416	Concreting (well stem)	3d	20/8/2010	22/8/2010	20/8/2010	22/8/2010							
1417	Stripping off formwork (well stem)	3d	23/8/2010	25/8/2010	23/8/2010	25/8/2010							
1418	Formwork and rebar fixing (base slab)	3d	26/8/2010	28/8/2010	26/8/2010	28/8/2010							
1419	Concreting (base slab)	3d	29/8/2010	30/8/2010	29/8/2010	30/8/2010							
1420	Stripping off formwork (well stem)	3d	3/9/2010	5/9/2010	3/9/2010	5/9/2010							
1421	Formwork and rebar fixing (well stem and roof slab)	3d	8/9/2010	10/9/2010	8/9/2010	10/9/2010							
1422	Concreting (well stem and roof slab)	3d	11/9/2010	13/9/2010	11/9/2010	13/9/2010							
1423	Stripping off formwork	3d	14/9/2010	16/9/2010	14/9/2010	16/9/2010							
1424	Formwork and rebar fixing (base slab)	3d	17/9/2010	19/9/2010	17/9/2010	19/9/2010							
1425	Concreting (base slab)	3d	20/9/2010	22/9/2010	20/9/2010	22/9/2010							
1426	Stripping off formwork (well stem)	3d	23/9/2010	25/9/2010	23/9/2010	25/9/2010							
1427	Formwork and rebar fixing (base slab)	3d	26/9/2010	28/9/2010	26/9/2010	28/9/2010							
1428	Concreting (base slab)	3d	29/9/2010	30/9/2010	29/9/2010	30/9/2010							

Project: Revised M Prog (Rev.08)
 Data Date: Aug 2009
 Consultant: AECOM

Task Progress: Task
 Critical Task: Critical Task
 Milestone: Milestone
 Summary: Summary

Rolled Up Progress: Rolled Up Progress
 Split: Split
 External Tasks: External Tasks

P-Task: P-Task

Drainage Services Department

Contract No. DC/2007/06 River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River Revised Master Programme (Rev. 08)

ID	Task Name	Duration	Early Start	Early Finish	Start	Finish	2007	2008	2009	2010	2011	2012	2013
1427	Concreting (base slab)	3 d	17/12/2011	18/12/2011	17/12/2011	18/12/2011							
1428	Stripping off formwork (wall stem)	2 d	20/12/2011	21/12/2011	20/12/2011	21/12/2011							
1429	Formwork and rebar fixing (wall stem)	10 d	23/12/2011	31/12/2011	23/12/2011	31/12/2011							
1430	Concreting (wall stem)	3 d	1/1/2012	2/1/2012	1/1/2012	2/1/2012							
1431	Stripping off formwork (wall stem)	3 d	3/1/2012	4/1/2012	3/1/2012	4/1/2012							
1432	Formwork	14 d	1/1/2012	14/1/2012	1/1/2012	14/1/2012							
1433	Formwork and rebar fixing	3 d	1/1/2012	3/1/2012	1/1/2012	3/1/2012							
1434	Concreting	6 d	4/1/2012	9/1/2012	4/1/2012	9/1/2012							
1435	Stripping off formwork	2 d	10/1/2012	11/1/2012	10/1/2012	11/1/2012							
1436	Retaining Wall (ch 450-500 LHS) TR2	3 d	12/1/2012	14/1/2012	12/1/2012	14/1/2012							
1437	Bulk excavation	20 d	15/1/2012	24/1/2012	15/1/2012	24/1/2012							
1438	Formwork	5 d	21/1/2012	25/1/2012	21/1/2012	25/1/2012							
1439	Formwork and rebar fixing (base slab)	2 d	26/1/2012	27/1/2012	26/1/2012	27/1/2012							
1440	Concreting (base slab)	3 d	7/1/2012	9/1/2012	7/1/2012	9/1/2012							
1441	Stripping off formwork (wall stem)	2 d	13/1/2012	14/1/2012	13/1/2012	14/1/2012							
1442	Formwork and rebar fixing (wall stem)	10 d	13/1/2012	22/1/2012	13/1/2012	22/1/2012							
1443	Concreting (wall stem)	3 d	22/1/2012	24/1/2012	22/1/2012	24/1/2012							
1444	Stripping off formwork (wall stem)	3 d	24/1/2012	26/1/2012	24/1/2012	26/1/2012							
1445	Formwork	87 d	27/1/2012	20/2/2012	27/1/2012	20/2/2012							
1446	Bulk excavation	50 d	27/1/2012	25/2/2012	27/1/2012	25/2/2012							
1447	Formwork	2 d	27/1/2012	28/1/2012	27/1/2012	28/1/2012							
1448	Formwork and rebar fixing (base slab)	12 d	28/1/2012	8/2/2012	28/1/2012	8/2/2012							
1449	Concreting (base slab)	3 d	28/1/2012	30/1/2012	28/1/2012	30/1/2012							
1450	Stripping off formwork (wall stem)	2 d	29/1/2012	30/1/2012	29/1/2012	30/1/2012							
1451	Formwork	97 d	30/1/2012	26/2/2012	30/1/2012	26/2/2012							
1452	Formwork and rebar fixing (wall stem)	2 d	30/1/2012	31/1/2012	30/1/2012	31/1/2012							
1453	Concreting (wall stem)	10 d	30/1/2012	9/2/2012	30/1/2012	9/2/2012							
1454	Stripping off formwork (wall stem)	2 d	29/1/2012	30/1/2012	29/1/2012	30/1/2012							
1455	Formwork	12 d	30/1/2012	10/2/2012	30/1/2012	10/2/2012							
1456	Formwork and rebar fixing (base slab)	3 d	7/1/2012	9/1/2012	7/1/2012	9/1/2012							
1457	Concreting (base slab)	2 d	10/1/2012	11/1/2012	10/1/2012	11/1/2012							
1458	Stripping off formwork (wall stem)	10 d	13/1/2012	22/1/2012	13/1/2012	22/1/2012							
1459	Formwork and rebar fixing (wall stem)	2 d	22/1/2012	23/1/2012	22/1/2012	23/1/2012							
1460	Concreting (wall stem)	3 d	24/1/2012	26/1/2012	24/1/2012	26/1/2012							
1461	Stripping off formwork (wall stem)	3 d	26/1/2012	28/1/2012	26/1/2012	28/1/2012							
1462	Formwork	87 d	27/1/2012	22/2/2012	27/1/2012	22/2/2012							
1463	Bulk excavation	30 d	27/1/2012	26/2/2012	27/1/2012	26/2/2012							
1464	Formwork	3 d	12/2/2012	14/2/2012	12/2/2012	14/2/2012							
1465	Formwork and rebar fixing (base slab)	12 d	12/2/2012	23/2/2012	12/2/2012	23/2/2012							
1466	Concreting (base slab)	3 d	15/2/2012	17/2/2012	15/2/2012	17/2/2012							
1467	Stripping off formwork (wall stem)	2 d	17/2/2012	18/2/2012	17/2/2012	18/2/2012							
1468	Formwork and rebar fixing (wall stem)	13 d	17/2/2012	29/2/2012	17/2/2012	29/2/2012							
1469	Concreting (wall stem)	3 d	29/2/2012	3/3/2012	29/2/2012	3/3/2012							
1470	Stripping off formwork (wall stem)	2 d	3/3/2012	4/3/2012	3/3/2012	4/3/2012							
1471	Formwork	42 d	4/3/2012	14/4/2012	4/3/2012	14/4/2012							
1472	Formwork and rebar fixing (wall stem)	12 d	11/4/2012	22/4/2012	11/4/2012	22/4/2012							
1473	Concreting (wall stem)	497 d	8/1/2008	20/2/2011	8/1/2008	20/2/2011							
1474	Formwork	10 d	8/1/2008	17/1/2008	8/1/2008	17/1/2008							
1475	Bulk excavation for footing (Abutment A)	1 d	18/1/2008	18/1/2008	18/1/2008	18/1/2008							
1476	Formwork - Abutment A	5 d	20/1/2008	24/1/2008	20/1/2008	24/1/2008							
1477	Formwork and rebar fixing (Abutment A, footing)	1 d	25/1/2008	25/1/2008	25/1/2008	25/1/2008							
1478	Concreting (Abutment A, footing)	9 d	28/1/2008	28/1/2008	28/1/2008	28/1/2008							
1479	Stripping off formwork (Abutment A, footing)	5 d	28/1/2008	31/1/2008	28/1/2008	31/1/2008							
1480	Rebar fixing and erecting formwork (Abutment A, column)	10 d	4/2/2008	13/2/2008	4/2/2008	13/2/2008							
1481	Concreting (Abutment A, column)	3 d	16/2/2008	18/2/2008	16/2/2008	18/2/2008							
1482	Stripping off formwork (Abutment A, column)	10 d	17/2/2008	26/2/2008	17/2/2008	26/2/2008							
1483	Bulk excavation for footing (Abutment B)	1 d	17/2/2008	17/2/2008	17/2/2008	17/2/2008							
1484	Formwork - Abutment B	5 d	12/2/2008	16/2/2008	12/2/2008	16/2/2008							
1485	Formwork and rebar fixing (Abutment B, footing)	1 d	17/2/2008	17/2/2008	17/2/2008	17/2/2008							
1486	Concreting (Abutment B, footing)	3 d	18/2/2008	20/2/2008	18/2/2008	20/2/2008							
1487	Stripping off formwork (Abutment B, footing)												
1488													

Project Revised M. Prog. (Rev. 08)
 Date: Aug. 2009
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Task Progress: Task
 Critical Task Progress: Critical Task
 Milestone: Milestone
 Summary: Summary

Rolled Up Task: Rolled Up Task
 Rolled Up Critical Task: Rolled Up Critical Task
 Rolled Up Milestone: Rolled Up Milestone

Rained Up Progress: Rained Up Progress
 Skirt: Skirt
 External Tasks: External Tasks

P.Task: P.Task

Drainage Services Department

River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River Revised Master Programme (Rev. 08)

Contract No. DC/2007/06

ID	Task Name	Duration	Early Start	Early Finish	Start	Finish	2007	2008	2009	2010	2011	2012	2013
1489	Rebar fixing and shuttering formwork (Abutment B, column)	5 d	21/12/2008	25/12/2008	21/12/2008	25/12/2008							
1490	Concreting (Abutment B, column)	1 d	26/12/2008	26/12/2008	26/12/2008	26/12/2008							
1491	Stripping off formwork (Abutment B, column)	3 d	27/12/2008	29/12/2008	27/12/2008	29/12/2008							
1492	Formwork and rebar fixing for decking	20 d	29/12/2008	18/01/2009	29/12/2008	18/01/2009							
1493	Concreting (decking)	2 d	29/12/2008	31/12/2008	29/12/2008	31/12/2008							
1494	Stripping off formwork (decking)	3 d	31/12/2008	03/01/2009	31/12/2008	03/01/2009							
1495	Ballast installation (decking)	5 d	03/01/2009	08/01/2009	03/01/2009	08/01/2009							
1496	Ch. 826-818	495 d	21/12/2008	14/02/2011	21/12/2008	14/02/2011							
1497	Step 7 (ch 820) (1.2m)	14 d	13/01/2011	14/01/2011	13/01/2011	14/01/2011							
1498	Formwork	3 d	13/01/2011	16/01/2011	13/01/2011	16/01/2011							
1499	Formwork and rebar (ch 820)	6 d	16/01/2011	22/01/2011	16/01/2011	22/01/2011							
1500	Concreting	2 d	18/01/2011	20/01/2011	18/01/2011	20/01/2011							
1501	Stripping off formwork	3 d	21/01/2011	24/01/2011	21/01/2011	24/01/2011							
1502	Retaining Wall (ch 830-833 LHS) TR4	57 d	04/02/2009	01/04/2009	04/02/2009	01/04/2009							
1503	Bulk excavation	20 d	04/02/2009	24/02/2009	04/02/2009	24/02/2009							
1504	Formwork	17 d	24/02/2009	10/03/2009	24/02/2009	10/03/2009							
1505	Formwork and rebar fixing (base slab)	3 d	10/03/2009	13/03/2009	10/03/2009	13/03/2009							
1506	Concreting (base slab)	5 d	13/03/2009	18/03/2009	13/03/2009	18/03/2009							
1507	Stripping off formwork (wall stem)	3 d	18/03/2009	21/03/2009	18/03/2009	21/03/2009							
1508	Formwork and rebar fixing (wall stem)	2 d	18/03/2009	20/03/2009	18/03/2009	20/03/2009							
1509	Formwork and rebar fixing (wall stem)	10 d	21/03/2009	30/03/2009	21/03/2009	30/03/2009							
1510	Concreting (wall stem)	2 d	31/03/2009	02/04/2009	31/03/2009	02/04/2009							
1511	Stripping off formwork (wall stem)	3 d	02/04/2009	05/04/2009	02/04/2009	05/04/2009							
1512	Retaining Wall (ch 833-855 RHS) TR4	57 d	21/12/2008	16/01/2009	21/12/2008	16/01/2009							
1513	Bulk excavation	20 d	21/12/2008	10/01/2009	21/12/2008	10/01/2009							
1514	Formwork	17 d	10/01/2009	27/01/2009	10/01/2009	27/01/2009							
1515	Formwork and rebar fixing (base slab)	3 d	27/01/2009	30/01/2009	27/01/2009	30/01/2009							
1516	Concreting (base slab)	5 d	30/01/2009	04/02/2009	30/01/2009	04/02/2009							
1517	Stripping off formwork (wall stem)	3 d	04/02/2009	07/02/2009	04/02/2009	07/02/2009							
1518	Formwork and rebar fixing (wall stem)	2 d	04/02/2009	06/02/2009	04/02/2009	06/02/2009							
1519	Formwork and rebar fixing (wall stem)	12 d	06/02/2009	18/02/2009	06/02/2009	18/02/2009							
1520	Stripping off formwork (wall stem)	3 d	18/02/2009	21/02/2009	18/02/2009	21/02/2009							
1521	Bulk excavation	10 d	21/02/2009	31/02/2009	21/02/2009	31/02/2009							
1522	Formwork	12 d	28/02/2009	09/03/2009	28/02/2009	09/03/2009							
1523	Formwork and rebar fixing (base slab)	3 d	09/03/2009	12/03/2009	09/03/2009	12/03/2009							
1524	Concreting (base slab)	10 d	12/03/2009	22/03/2009	12/03/2009	22/03/2009							
1525	Stripping off formwork (wall stem)	3 d	22/03/2009	25/03/2009	22/03/2009	25/03/2009							
1526	Formwork and rebar fixing (wall stem)	87 d	11/12/2010	28/01/2011	11/12/2010	28/01/2011							
1527	Stripping off formwork (wall stem)	50 d	11/12/2010	29/01/2011	11/12/2010	29/01/2011							
1528	Retaining Wall (ch 848-868 LHS) TR4	5 d	21/12/2010	25/12/2010	21/12/2010	25/12/2010							
1529	Bulk excavation	12 d	28/12/2010	09/01/2011	28/12/2010	09/01/2011							
1530	Formwork	3 d	09/01/2011	12/01/2011	09/01/2011	12/01/2011							
1531	Formwork and rebar fixing (base slab)	2 d	12/01/2011	14/01/2011	12/01/2011	14/01/2011							
1532	Concreting (base slab)	10 d	14/01/2011	24/01/2011	14/01/2011	24/01/2011							
1533	Stripping off formwork (wall stem)	2 d	24/01/2011	26/01/2011	24/01/2011	26/01/2011							
1534	Formwork and rebar fixing (wall stem)	3 d	26/01/2011	29/01/2011	26/01/2011	29/01/2011							
1535	Formwork and rebar fixing (wall stem)	87 d	11/12/2010	28/01/2011	11/12/2010	28/01/2011							
1536	Stripping off formwork (wall stem)	50 d	11/12/2010	29/01/2011	11/12/2010	29/01/2011							
1537	Retaining Wall (ch 868-888 RHS) TR5	5 d	21/12/2010	25/12/2010	21/12/2010	25/12/2010							
1538	Bulk excavation	14 d	28/12/2010	09/01/2011	28/12/2010	09/01/2011							
1539	Formwork	3 d	09/01/2011	12/01/2011	09/01/2011	12/01/2011							
1540	Formwork and rebar fixing (base slab)	2 d	12/01/2011	14/01/2011	12/01/2011	14/01/2011							
1541	Concreting (base slab)	10 d	14/01/2011	24/01/2011	14/01/2011	24/01/2011							
1542	Stripping off formwork (wall stem)	2 d	24/01/2011	26/01/2011	24/01/2011	26/01/2011							
1543	Formwork and rebar fixing (wall stem)	87 d	11/12/2010	28/01/2011	11/12/2010	28/01/2011							
1544	Stripping off formwork (wall stem)	50 d	11/12/2010	29/01/2011	11/12/2010	29/01/2011							
1545	Box Culvert TR42 (ch 888)	3 d	21/12/2010	25/12/2010	21/12/2010	25/12/2010							
1546	Bulk excavation	10 d	28/12/2010	08/01/2011	28/12/2010	08/01/2011							
1547	Formwork	3 d	08/01/2011	11/01/2011	08/01/2011	11/01/2011							
1548	Formwork and rebar fixing (base slab)	2 d	11/01/2011	13/01/2011	11/01/2011	13/01/2011							
1549	Concreting (base slab)	10 d	13/01/2011	23/01/2011	13/01/2011	23/01/2011							
1550	Stripping off formwork (wall stem)	2 d	23/01/2011	25/01/2011	23/01/2011	25/01/2011							
1551	Formwork and rebar fixing (wall stem)	87 d	11/12/2010	28/01/2011	11/12/2010	28/01/2011							
1552	Stripping off formwork (wall stem)	50 d	11/12/2010	29/01/2011	11/12/2010	29/01/2011							
1553	Retaining Wall (ch 888-918 LHS) TR3	57 d	21/12/2009	16/01/2010	21/12/2009	16/01/2010							
1554	Bulk excavation	20 d	21/12/2009	10/01/2010	21/12/2009	10/01/2010							
1555	Formwork	17 d	10/01/2010	27/01/2010	10/01/2010	27/01/2010							
1556	Formwork and rebar fixing (base slab)	3 d	27/01/2010	30/01/2010	27/01/2010	30/01/2010							
1557	Concreting (base slab)	5 d	30/01/2010	04/02/2010	30/01/2010	04/02/2010							
1558	Stripping off formwork (wall stem)	2 d	04/02/2010	06/02/2010	04/02/2010	06/02/2010							
1559	Formwork and rebar fixing (wall stem)	12 d	06/02/2010	18/02/2010	06/02/2010	18/02/2010							
1560	Stripping off formwork (wall stem)	3 d	18/02/2010	21/02/2010	18/02/2010	21/02/2010							

Critical Task, Progress
 Milestone
 Summary
 Task
 Task Progress
 Critical Task
 External Tanks
 Rolled Up Progress
 Rolled Up Critical Task
 Rolled Up Milestones
 Split
 PTask

Project: Revised M. Prog (Rev.08)
 Data Date: Aug 2009
 Consultant: AECOM

Drainage Services Department

Contract No. DC/2007/06 River Improvement Works in Upper Lam Teuen River, She Shan River and Upper Tai Po River Revised Master Programme (Rev. 06)

ID	Task Name	Duration	Early Start	Early Finish	Start	Finish	2007	2008	2009	2010	2011	2012	2013
1551	Concrete base slab	3 d	5/12/2008	11/12/2008	5/12/2008	11/12/2008							
1552	Striping off formwork (wall stem)	2 d	12/12/2008	13/12/2008	12/12/2008	13/12/2008							
1553	Formwork and rebar fixing (wall stem)	10 d	14/12/2008	23/12/2008	14/12/2008	23/12/2008							
1554	Concrete (wall stem)	2 d	25/12/2008	27/12/2008	25/12/2008	27/12/2008							
1555	Striping off formwork (wall stem)	3 d	28/12/2008	31/12/2008	28/12/2008	31/12/2008							
1556	Retaining Wall (Ch. 555-610 RWS) TRS	63 d	2/1/2009	21/2/2009	2/1/2009	21/2/2009							
1557	Bulk excavation	25 d	2/1/2009	26/1/2009	2/1/2009	26/1/2009							
1558	Formation	5 d	27/1/2009	31/1/2009	27/1/2009	31/1/2009							
1559	Formwork and rebar fixing (base slab)	12 d	27/1/2009	8/2/2009	27/1/2009	8/2/2009							
1560	Concrete (base slab)	3 d	14/2/2009	16/2/2009	14/2/2009	16/2/2009							
1561	Striping off formwork (wall stem)	2 d	17/2/2009	19/2/2009	17/2/2009	19/2/2009							
1562	Formwork and rebar fixing (wall stem)	10 d	19/2/2009	28/2/2009	19/2/2009	28/2/2009							
1563	Concrete (wall stem)	2 d	29/2/2009	31/2/2009	29/2/2009	31/2/2009							
1564	Striping off formwork (wall stem)	3 d	3/3/2009	6/3/2009	3/3/2009	6/3/2009							
1565	Formwork and Strands	46 d	23/10/2008	31/1/2009	23/10/2008	31/1/2009							
1566	PS41 (Ch 60 RWS)	31 d	23/10/2008	22/11/2008	23/10/2008	22/11/2008							
1567	PS42 (Ch 140 RWS)	31 d	23/10/2008	22/11/2008	23/10/2008	22/11/2008							
1568	PS43 (Ch 220 RWS)	9 d	23/11/2008	28/11/2008	23/11/2008	28/11/2008							
1569	PS44 (Ch 215 LWS)	30 d	2/12/2008	31/12/2008	2/12/2008	31/12/2008							
1570	PS45 (Ch 340 RWS)	30 d	2/12/2008	31/12/2008	2/12/2008	31/12/2008							
1571	PS46 (Ch 530 RWS)	30 d	2/12/2008	31/12/2008	2/12/2008	31/12/2008							
1572	PS47 (Ch 580 RWS)	30 d	2/12/2008	31/12/2008	2/12/2008	31/12/2008							
1573	Ground settlement marker	43 d	18/10/2008	30/1/2009	18/10/2008	30/1/2009							
1574	GS41 (Ch 80 RWS)	31 d	18/10/2008	17/11/2008	18/10/2008	17/11/2008							
1575	GS42 (Ch 140 RWS)	31 d	18/10/2008	17/11/2008	18/10/2008	17/11/2008							
1576	GS43 (Ch 220 RWS)	17 d	25/10/2008	25/10/2008	25/10/2008	25/10/2008							
1577	GS44 (Ch 275 LWS)	12 d	2/12/2008	13/12/2008	2/12/2008	13/12/2008							
1578	GS45 (Ch 340 RWS)	12 d	2/12/2008	13/12/2008	2/12/2008	13/12/2008							
1579	GS46 (Ch 530 RWS)	12 d	2/12/2008	13/12/2008	2/12/2008	13/12/2008							
1580	GS47 (Ch 580 RWS)	12 d	2/12/2008	13/12/2008	2/12/2008	13/12/2008							
1581	Ventilation Order	915 d	28/5/2008	28/5/2008	28/5/2008	28/5/2008							
1582	VO 4 - Access to house 498	6 d	28/5/2008	18/6/2008	28/5/2008	18/6/2008							
1583	VO 5 - tubular railing on existing bridges	24 d	20/7/2008	12/8/2008	20/7/2008	12/8/2008							
1584	VO 11 - Revised Detail of Project Starboard in Upper Tai Po River	10 d	20/7/2008	29/7/2008	20/7/2008	29/7/2008							
1585	VO 21 - Sewage Diversion at Maintenance Access D	53 d	20/7/2008	18/9/2008	20/7/2008	18/9/2008							
1586	VO 34 - Box Culvert TB23	76 d	21/7/2008	16/10/2008	21/7/2008	16/10/2008							
1587	VO 38 - Modifications of Boulder Trap and Retaining Walls at Maintenance Access D	438 d	21/7/2008	14/10/2009	21/7/2008	14/10/2009							
1588	VO 62 - Modifications of Footbridge TB02 in Upper Tai Po River	368 d	31/12/2008	31/12/2009	31/12/2008	31/12/2009							
1589	VO 73 - Improvement to the Formation of Centon Wells at Ch. 40 to Ch. 765	418 d	7/7/2009	31/3/2010	7/7/2009	31/3/2010							
1590	VO 74 - Grabon in front of Boulder Trap	27 d	1/12/2009	27/12/2009	1/12/2009	27/12/2009							
1591	VO 86 - Welding of addition steel pipe on existing handrail	3 d	6/5/2009	8/5/2009	6/5/2009	8/5/2009							
1592	VO 89 - Protective flood measure	7 d	9/5/2009	12/5/2009	9/5/2009	12/5/2009							
1593	VO 90 - Partial Demolition and Re-Installation Works of House 430 of She Shan Village	25 d	16/5/2009	10/6/2009	16/5/2009	10/6/2009							
1594	VO 91 - Safety measure at Boulder trap	6 d	8/7/2009	14/7/2009	8/7/2009	14/7/2009							
1595	VO 102 - Provision of Temporary Vehicular Gate at Maintenance Access D	365 d	31/12/2009	31/12/2010	31/12/2009	31/12/2010							
1596	VO 110 - Modification of Footbridge TB23 in Upper Tai Po River	13 d	4/7/2009	16/7/2009	4/7/2009	16/7/2009							
1597	VO 111 - Provision of Chain Link Fence and Modification of Railing	10 d	13/7/2009	22/7/2009	13/7/2009	22/7/2009							
1598	VO 113 - Further Enhancement on the Flood Preventive Measures at Approximate Ch 230	18 d	12/8/2009	29/8/2009	12/8/2009	29/8/2009							
1599	VO 12 - Make Good the Damaged Bridge Deck and Re-provision of F-anchors for Existing P	14 d	24/3/2009	6/4/2009	24/3/2009	6/4/2009							
1600	Tree felling	1 d	24/3/2009	24/3/2009	24/3/2009	24/3/2009							
1601	B105, B150, B151, B161 & B162	3 d	4/4/2009	6/4/2009	4/4/2009	6/4/2009							
1602	B232	5 d	20/7/2009	24/7/2009	20/7/2009	24/7/2009							
1603	Site Instruction	5 d	20/7/2009	24/7/2009	20/7/2009	24/7/2009							
1604	Protection of road slope at TRS after typhoon 2009-Ju-19	5 d	20/7/2009	24/7/2009	20/7/2009	24/7/2009							
1605													
1606	Section 4 - Box Culvert at Ping Lwng	837 d	28/9/2007	11/11/2010	28/9/2007	11/11/2010							
1607	Section 4 - Box Culvert (Area A)	818 d	28/9/2007	27/11/2010	28/9/2007	27/11/2010							
1608	Commissioning of Works	1 d	28/9/2007	28/9/2007	28/9/2007	28/9/2007							
1610	Proceeding to Portion of the Site (Area A)	0 d	28/9/2007	28/9/2007	28/9/2007	28/9/2007							
1611	Material Submission	60 d	28/9/2007	27/12/2007	28/9/2007	27/12/2007							
1612	Material Submission Approval	0 d	10/11/2008	10/11/2008	10/11/2008	10/11/2008							

Project: Revised M. Prog (Rev.06)
 Date: Aug 2009
 Consultant: ACCOM

Task Progress: Task
 Critical Task Progress: Critical Task
 Milestone: Milestone
 Summary: Summary

Rolled Up Task: Rolled Up Task
 Rolled Up Critical Task: Rolled Up Critical Task
 Rolled Up Milestone: Rolled Up Milestone

External Tasks: External Tasks

PTask: PTask

Drainage Services Department

Contract No. DC/2007/08 River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River Revised Master Programme (Rev. 08)

ID	Task Name	Duration	Early Start	Early Finish	Start	Finish	2007	2008	2009	2010	2011	2012	2013
							1st Half	2nd Half	1st Half	2nd Half	1st Half	2nd Half	1st Half
1678	Road Reinforcement (Stage 2)	15 d	16/11/2009	31/12/2009	16/11/2009	31/12/2009							
1679	Road Paving Reinforced (Stage 1)	18 d	4/12/2008	21/12/2008	4/12/2008	21/12/2008							
1678	Completion of Work at Section 4	0 d	2/11/2009	2/11/2009	2/11/2009	2/11/2009							
1679	CLP spare duct installation	21 d	22/12/2009	11/1/2010	22/12/2009	11/1/2010							
1680	Visitation Order No.23 Construction of 300mm dia. Double Iron Pipe beneath the Proposed Ring	190 d	28/9/2008	23/2/2009	28/9/2008	23/2/2009							
1681	Visitation Order No. 34 Watermain Diversion Works at P140 Long	125 d	30/4/2009	1/6/2009	30/4/2009	1/6/2009							
1682	Visitation Order No. 85 Clearing of Stream Course between Ring Long Box Culvert and Upper Le	31 d	7/5/2008	6/6/2008	7/5/2008	6/6/2008							
1685	Visitation Order No. 115 Manual Ventilation Traffic Signal for TPA at P140 Long	108 d	9/7/2008	2/1/2009	9/7/2008	2/1/2009							
1687	Section 5 - Landscape Establishment Works (Portion B, C, D, E, F, G, H & I)	1881 d	28/9/2007	27/2/2013	28/9/2007	27/2/2013							
1688	Section 5 Landscape Works	1665 d	28/9/2007	18/4/2012	28/9/2007	18/4/2012							
1689	Commencement of Works	1 d	28/9/2007	28/9/2007	28/9/2007	28/9/2007							
1690	Final Submission	120 d	28/9/2007	26/1/2008	28/9/2007	26/1/2008							
1691	Submission Approval	0 d	9/2/2008	9/2/2008	9/2/2008	9/2/2008							
1692	Landscape Handworks	1540 d	3/11/2008	18/4/2012	3/11/2008	18/4/2012							
1693	Submission of Tree Survey	365 d	29/5/2007	11/1/2008	29/5/2007	11/1/2008							
1694	Preservation and Protection of Preserved Trees	400 d	2/11/2008	27/2/2011	2/11/2008	27/2/2011							
1695	Landscape Establishment Works	1578 d	2/11/2008	27/2/2013	2/11/2008	27/2/2013							
1696	Completion of Works	0 d	27/2/2013	27/2/2013	27/2/2013	27/2/2013							
1697	Section 6 - Landscape Establishment Works (Portion J, K & L)	1830 d	28/9/2007	8/1/2013	28/9/2007	8/1/2013							
1698	Section 6 Landscape Works	1665 d	28/9/2007	18/4/2012	28/9/2007	18/4/2012							
1699	Commencement of Works	1 d	28/9/2007	28/9/2007	28/9/2007	28/9/2007							
1700	Final Submission	120 d	28/9/2007	26/1/2008	28/9/2007	26/1/2008							
1701	Submission Approval	0 d	9/2/2008	9/2/2008	9/2/2008	9/2/2008							
1702	Landscape Handworks	1181 d	14/2/2009	19/4/2012	14/2/2009	19/4/2012							
1703	Submission of Tree Survey	365 d	21/4/2011	1/1/2008	21/4/2011	1/1/2008							
1704	Preservation and Protection of Preserved Trees	400 d	2/11/2008	27/2/2011	2/11/2008	27/2/2011							
1705	Landscape Establishment Works	1529 d	2/11/2008	8/1/2013	2/11/2008	8/1/2013							
1706	Completion of Works	0 d	8/1/2013	8/1/2013	8/1/2013	8/1/2013							
1707	Section 7 - Landscape Establishment Works (Portion L, N & P)	1868 d	28/9/2007	7/11/2012	28/9/2007	7/11/2012							
1708	Section 7 Landscape Works	1665 d	28/9/2007	18/4/2012	28/9/2007	18/4/2012							
1709	Commencement of Works	1 d	28/9/2007	28/9/2007	28/9/2007	28/9/2007							
1710	Final Submission	120 d	28/9/2007	26/1/2008	28/9/2007	26/1/2008							
1711	Submission Approval	0 d	9/2/2008	9/2/2008	9/2/2008	9/2/2008							
1712	Landscape Handworks	1179 d	3/11/2008	18/4/2012	3/11/2008	18/4/2012							
1713	Submission of Tree Survey	365 d	2/11/2008	11/1/2008	2/11/2008	11/1/2008							
1714	Preservation and Protection of Preserved Trees	400 d	2/11/2008	27/2/2011	2/11/2008	27/2/2011							
1715	Landscape Establishment Works	1457 d	2/11/2008	7/11/2012	2/11/2008	7/11/2012							
1716	Completion of Works	0 d	7/11/2012	7/11/2012	7/11/2012	7/11/2012							
1717	Section 8 - All Remaining Work at All Portions	1300 d	28/9/2007	18/4/2011	28/9/2007	18/4/2011							
1718	Commencement of Works	0 d	28/9/2007	28/9/2007	28/9/2007	28/9/2007							
1719	All remaining works at all Sites	1300 d	28/9/2007	18/4/2011	28/9/2007	18/4/2011							
1720	Completion of Works	0 d	18/4/2011	18/4/2011	18/4/2011	18/4/2011							

