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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Report submission and revision:
First submission on 7th December 2009

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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.

删除: thirteenth

删除: 1st September

删除: 30th September

删除: construction

删除: y

删除: was ceased

删除: Ecological Impact Monitoring preformed by the Ecologist Dr. Mark Shea was carried out on 21st and 22nd July 2009. Details of the ecological monitoring report please refer to Appendix J.

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.

删除: thirteenth

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

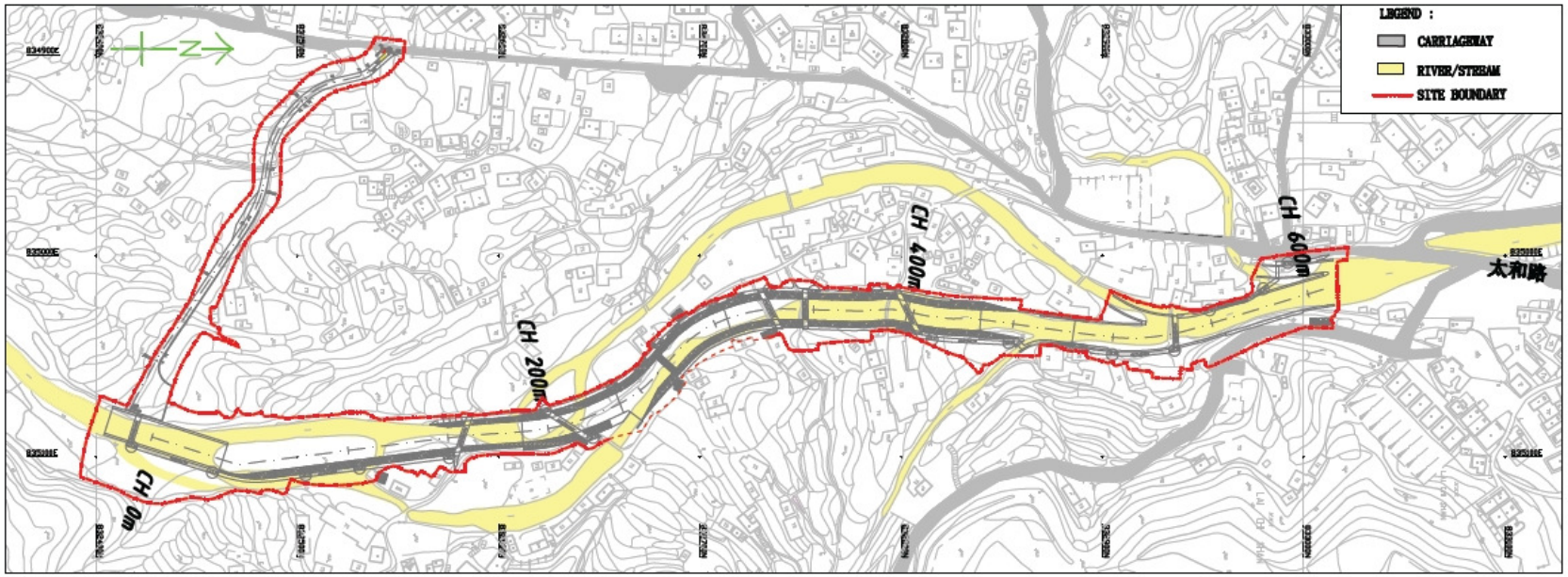
The construction of the proposed improvement works for Upper Tai Po River has been commenced on September 15th 2008 and anticipated to complete in April 2011.

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



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.

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

刪除: Ecological impact monitoring was conducted on 21st and 22nd July 2009 by the Ecologist Dr. Mark Shea. Details of the revised monitoring report please refer to Appendix J.

刪除: was scheduled within October and November 2009.

4.0 Noise monitoring results

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

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.

刪除: 4th, 10th, 17th and 24th September 2009

刪除: Monitoring programme carried out on 30th September 2009 was cancelled due to adverse rainy weather.

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.

刪除: 2nd, 9th, 16th, 23rd and 30th September 2009

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.

刪除: 2nd, 9th, 16th, 23rd and 30th September 2009

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	31st Aug, 2005	N/A	Superseded
Amended Environmental Permit	EP-223/2005/A	18th Nov, 2008	N/A	Issued
Construction Noise Permit	N/A	N/A	N/A	N/A
Effluent Discharge License	3678	14th Mar, 2008	31st Mar, 2013	Issued
Registration as a Chemical Waste Producer	5213-724-C3251-03	19th 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	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	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	1. Ensure Remedial measures are properly implemented	1. Amend working methods 2. Rectify damage and undertake any necessary replacement
Repeated Non conformity	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	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	1. Ensure Remedial measures are properly implemented	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	N\A	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	N\A	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	N\A	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	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	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**

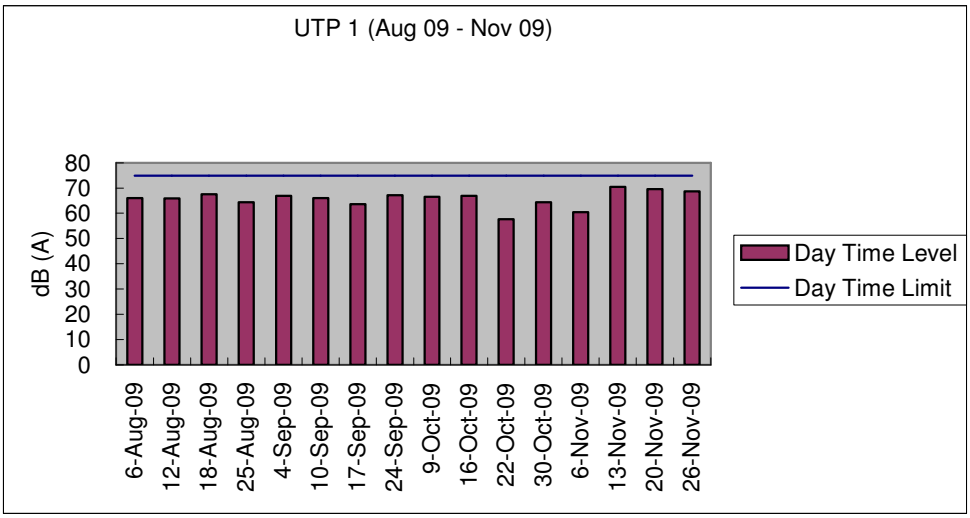
Note* An Additional of 3dB(A) had been added to the measurement result due to Free Field Correction

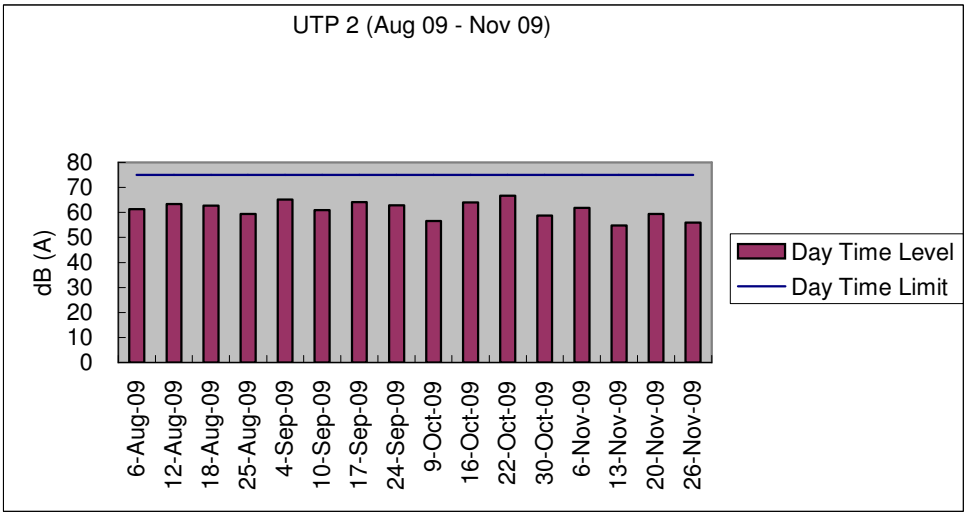
Location	L_{90} 30min	L_{10} 30min	Leq 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	54.2	68.4	68.6	26-Nov-09	13:15-13:45	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to 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**

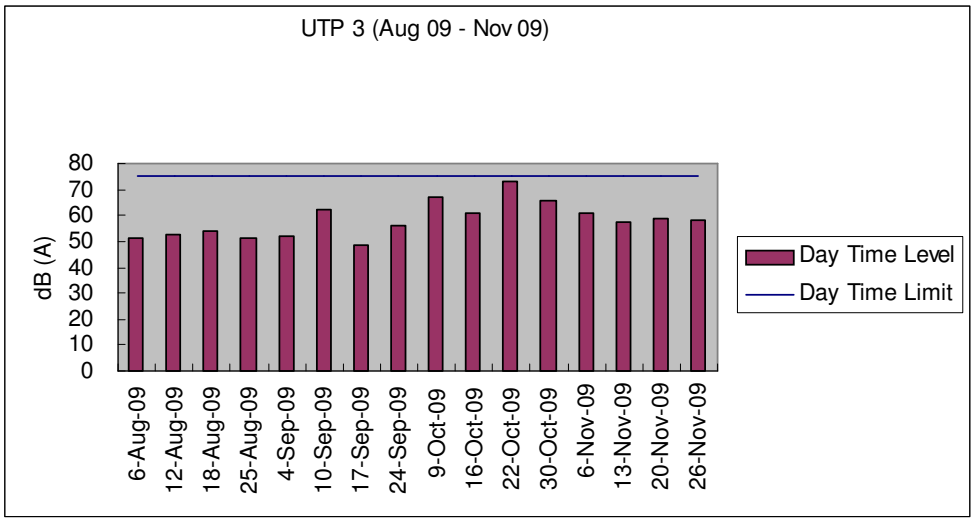
Note* An Additional of 3dB(A) had been added to the measurement result due to Free Field Correction

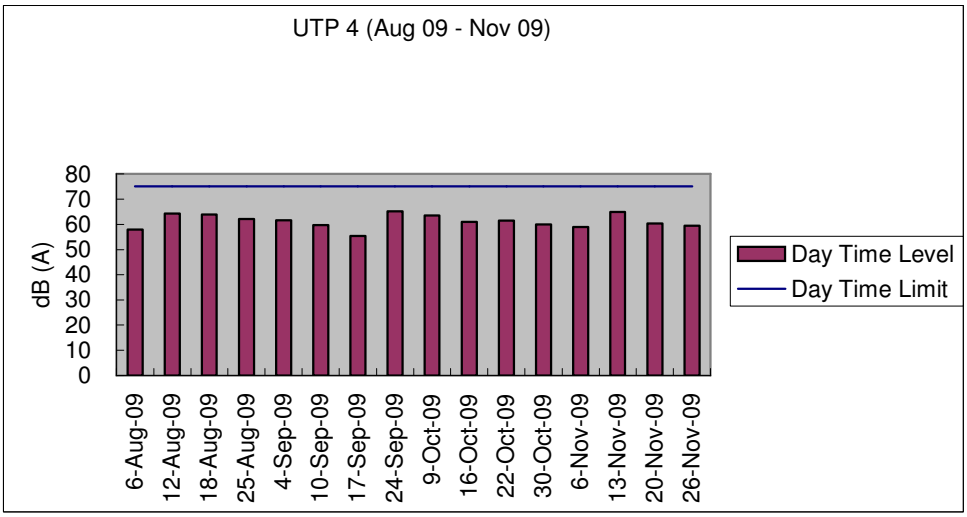
Graphical plot for noise measurements

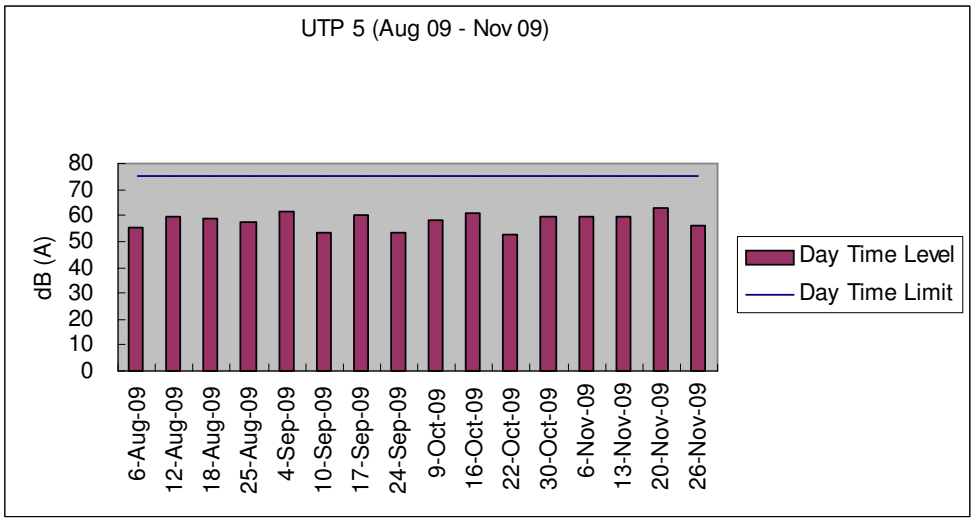
The following plots were the graphical plots for the 11 monitoring locations. Each plot showed the day time limit 75 dB(A), daytime level, date and the measured dB(A) results as in Leq 30min for each location. The graph contains the data recorded from August 2009 to November 2009.

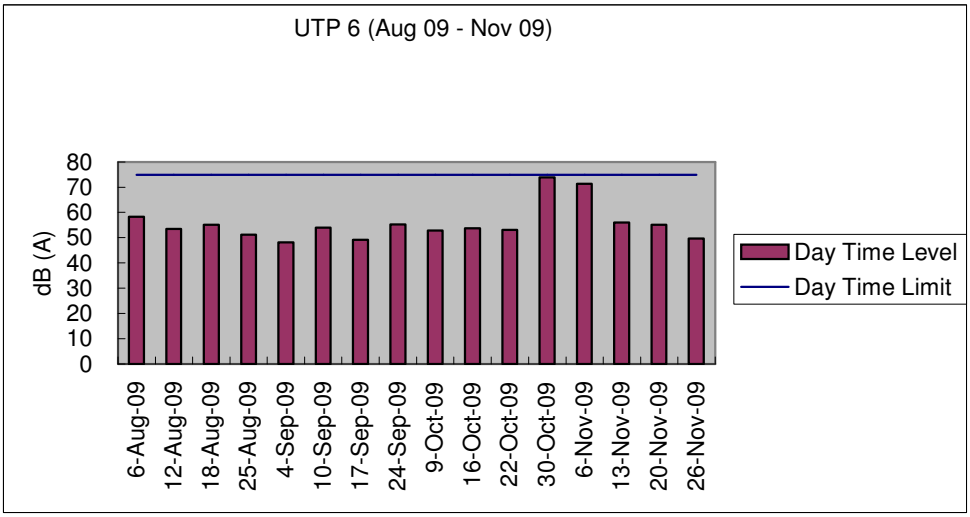


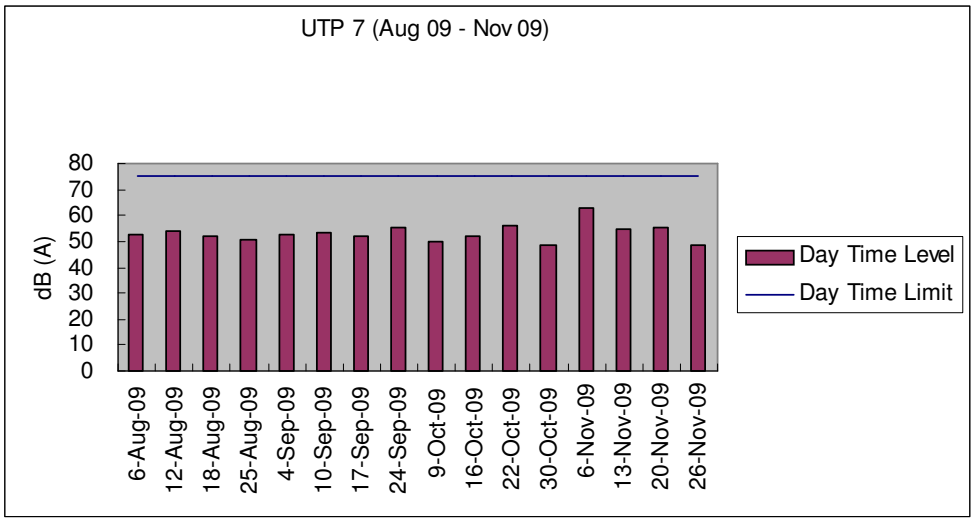



UTP 3 (Aug 09 - Nov 09)
dB (A)
80
70
60
50
40
30
20
10
0
6-Aug-09
12-Aug-09
18-Aug-09
25-Aug-09
4-Sep-09
10-Sep-09
17-Sep-09
24-Sep-09
9-Oct-09
16-Oct-09
22-Oct-09
30-Oct-09
6-Nov-09
13-Nov-09
20-Nov-09
26-Nov-09
Day Time Level
Day Time Limit


UTP 4 (Aug 09 - Nov 09)
dB (A)
80
70
60
50
40
30
20
10
0
6-Aug-09
12-Aug-09
18-Aug-09
25-Aug-09
4-Sep-09
10-Sep-09
17-Sep-09
24-Sep-09
9-Oct-09
16-Oct-09
22-Oct-09
30-Oct-09
6-Nov-09
13-Nov-09
20-Nov-09
26-Nov-09
Day Time Level
Day Time Limit


UTP 5 (Aug 09 - Nov 09)
dB (A)
80
70
60
50
40
30
20
10
0
6-Aug-09
12-Aug-09
18-Aug-09
25-Aug-09
4-Sep-09
10-Sep-09
17-Sep-09
24-Sep-09
9-Oct-09
16-Oct-09
22-Oct-09
30-Oct-09
6-Nov-09
13-Nov-09
20-Nov-09
26-Nov-09
Day Time Level
Day Time Limit


UTP 6 (Aug 09 - Nov 09)
dB (A)
80
70
60
50
40
30
20
10
0
6-Aug-09
12-Aug-09
18-Aug-09
25-Aug-09
4-Sep-09
10-Sep-09
17-Sep-09
24-Sep-09
9-Oct-09
16-Oct-09
22-Oct-09
30-Oct-09
6-Nov-09
13-Nov-09
20-Nov-09
26-Nov-09
Day Time Level
Day Time Limit


UTP 7 (Aug 09 - Nov 09)
dB (A)
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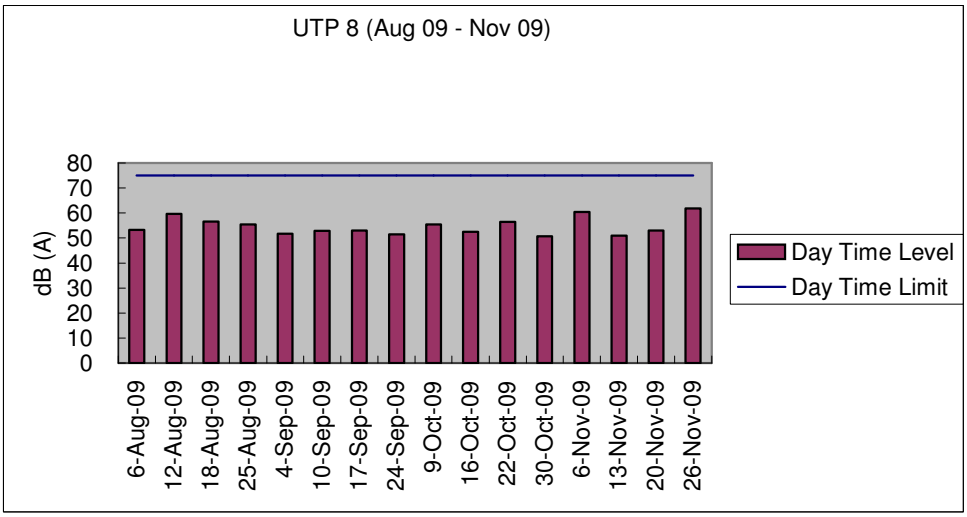
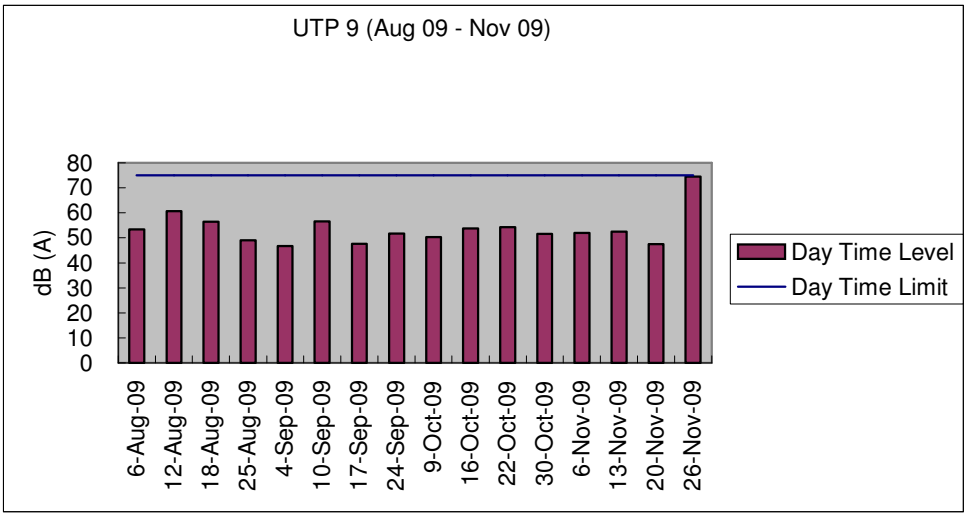
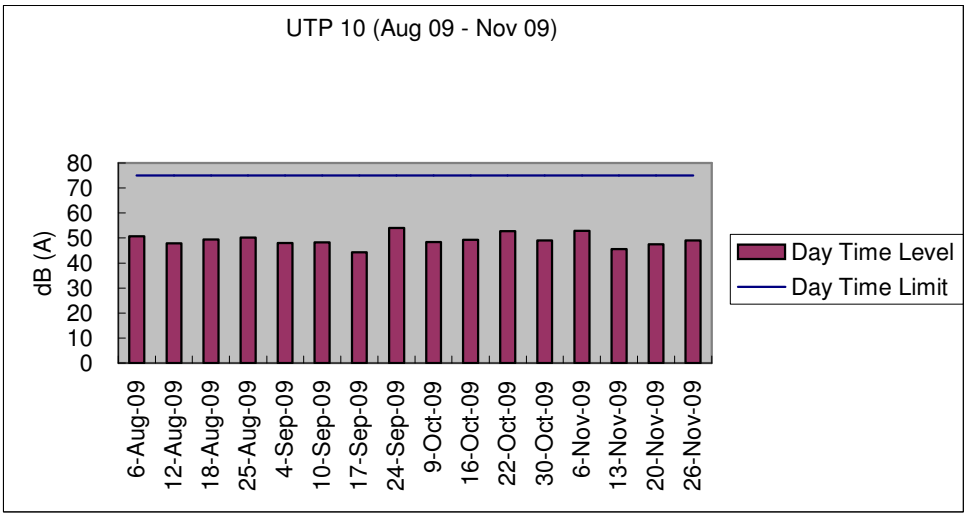
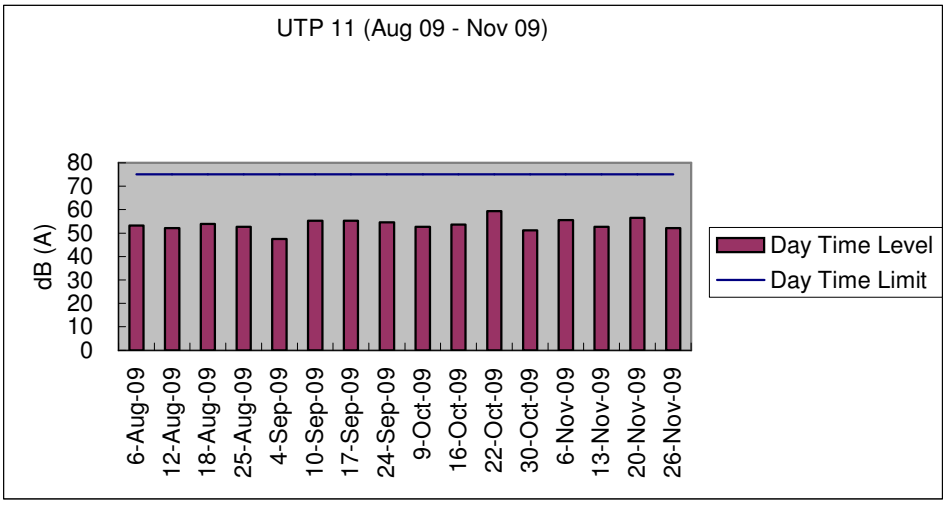
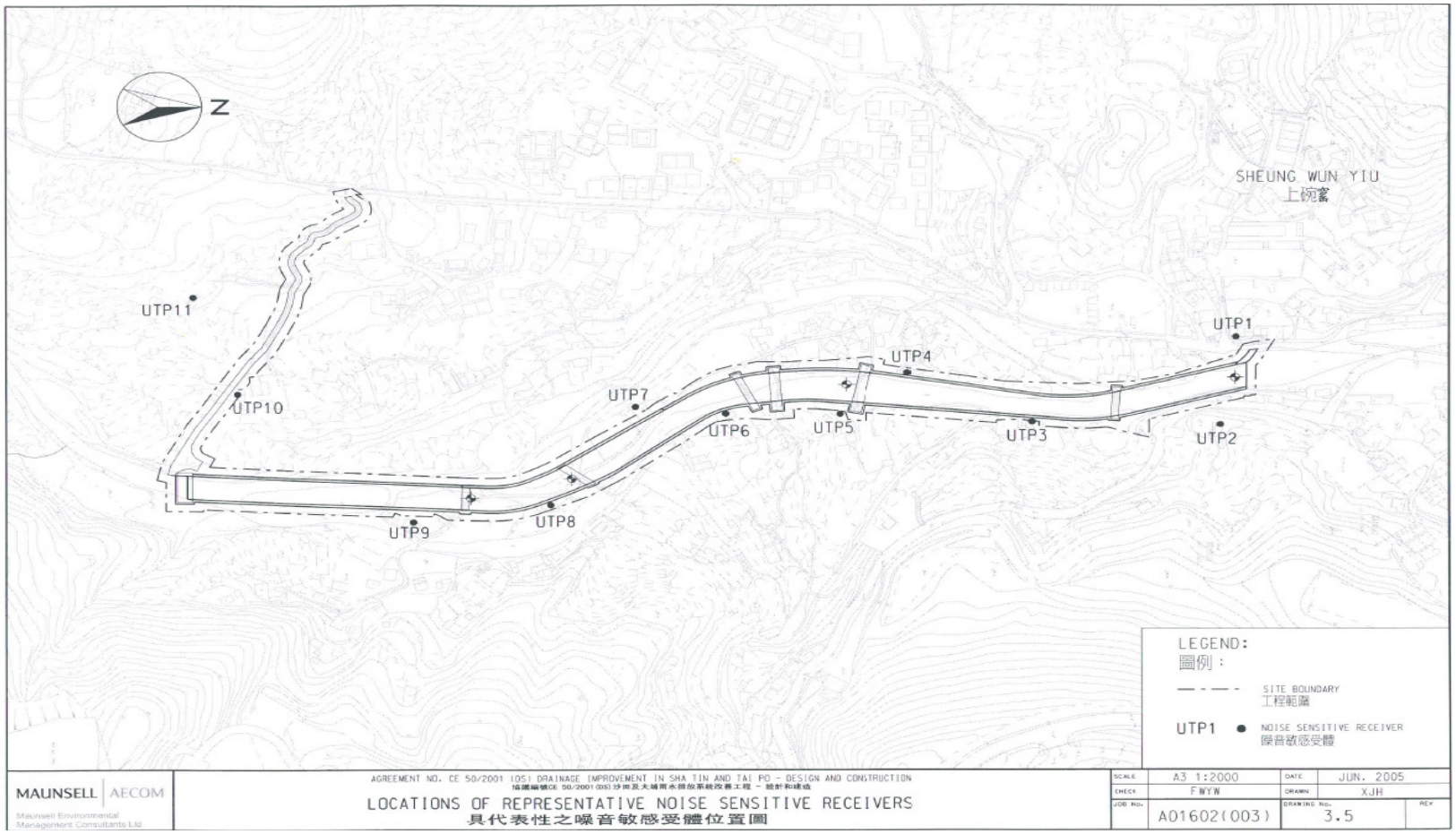
70
60
50
40
30
20
10
0
6-Aug-09
12-Aug-09
18-Aug-09
25-Aug-09
4-Sep-09
10-Sep-09
17-Sep-09
24-Sep-09
9-Oct-09
16-Oct-09
22-Oct-09
30-Oct-09
6-Nov-09
13-Nov-09
20-Nov-09
26-Nov-09
Day Time Level
Day Time Limit


UTP 8 (Aug 09 - Nov 09)
dB (A)
80
70
60
50
40
30
20
10
0
6-Aug-09
12-Aug-09
18-Aug-09
25-Aug-09
4-Sep-09
10-Sep-09
17-Sep-09
24-Sep-09
9-Oct-09
16-Oct-09
22-Oct-09
30-Oct-09
6-Nov-09
13-Nov-09
20-Nov-09
26-Nov-09
Day Time Level
Day Time Limit


UTP 9 (Aug 09 - Nov 09)
dB (A)
80
70
60
50
40
30
20
10
0
6-Aug-09
12-Aug-09
18-Aug-09
25-Aug-09
4-Sep-09
10-Sep-09
17-Sep-09
24-Sep-09
9-Oct-09
16-Oct-09
22-Oct-09
30-Oct-09
6-Nov-09
13-Nov-09
20-Nov-09
26-Nov-09
Day Time Level
Day Time Limit


UTP 10 (Aug 09 - Nov 09)
dB (A)
80
70
60
50
40
30
20
10
0
6-Aug-09
12-Aug-09
18-Aug-09
25-Aug-09
4-Sep-09
10-Sep-09
17-Sep-09
24-Sep-09
9-Oct-09
16-Oct-09
22-Oct-09
30-Oct-09
6-Nov-09
13-Nov-09
20-Nov-09
26-Nov-09
Day Time Level
Day Time Limit


UTP 11 (Aug 09 - Nov 09)
dB (A)
80
70
60
50
40
30
20
10
0
6-Aug-09
12-Aug-09
18-Aug-09
25-Aug-09
4-Sep-09
10-Sep-09
17-Sep-09
24-Sep-09
9-Oct-09
16-Oct-09
22-Oct-09
30-Oct-09
6-Nov-09
13-Nov-09
20-Nov-09
26-Nov-09
Day Time Level
Day Time Limit


N
SHEUNG WUN YIU
上碗窰
UTP11
UTP10
UTP9
UTP8
UTP7
UTP6
UTP5
UTP4
UTP3
UTP2
UTP1
LEGEND:
圖例：
SITE BOUNDARY
工程範圍
UTP1
NOISE SENSITIVE RECEIVER
噪音敏感受體
MAUNSELL AECOM
Maunsell Environmental Management Consultants Ltd
AGREEMENT NO. CE 50/2001 (DS) DRAINAGE IMPROVEMENT IN SHA TIN AND TAI PO - DESIGN AND CONSTRUCTION
LOCATIONS OF REPRESENTATIVE NOISE SENSITIVE RECEIVERS
具代表性之噪音敏感受體位置圖
SCALE A3 1:2000
DATE JUN. 2005
CHECK FWYW
DRAWN XJH
JOB No. A01602(003)
DRAWING No. 3.5
REV

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, 4th November 2008 and 27th, 28th 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 table

Cumulative 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

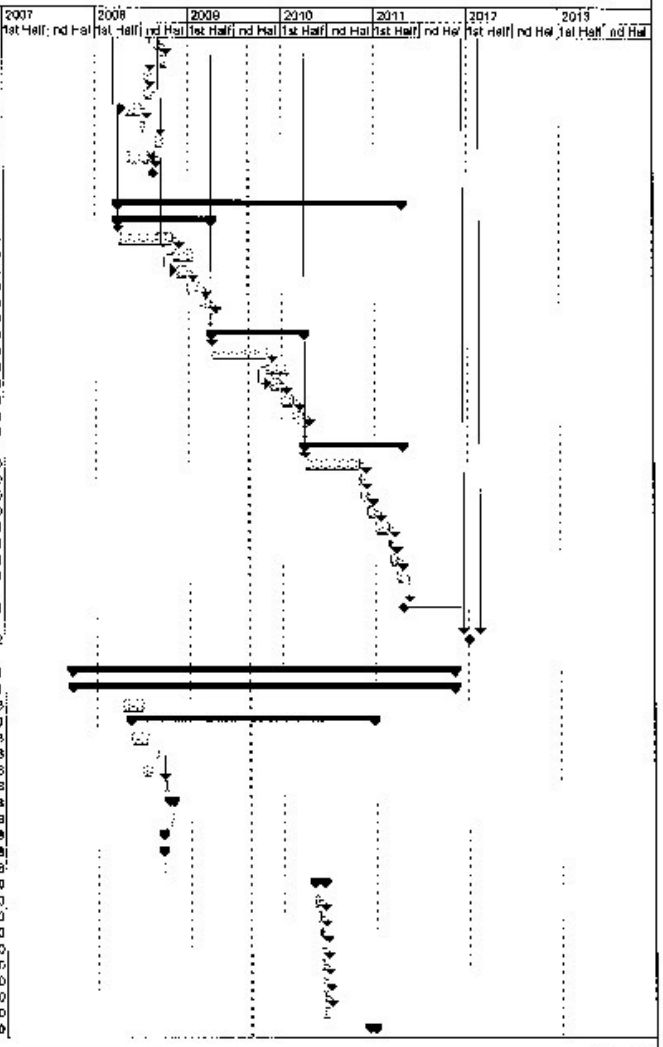
Remark*: Chemical wastes generated from the project sites including Upper Tai Po River, Lam Tsuen River and She Shan River were centralized for disposal.

Appendix I: Construction programme

Drainage Services Department

Contract No. DC/2007/06
River Improvement Works in Upper Lam 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
806	Site Clearance	20 d	24/8/2008	12/9/2008	24/8/2008	12/9/2008
807	Chainlink Fencing Work	30 d	13/9/2008	12/10/2008	13/9/2008	12/10/2008
808	Initial Survey	30 d	15/7/2008	13/8/2008	15/7/2008	13/8/2008
809	Condition Surveys / Set up markers	30 d	15/7/2008	13/8/2008	15/7/2008	13/8/2008
810	Preparation of Temporary Works Design	60 d	2/5/2008	30/6/2008	2/5/2008	30/6/2008
811	Approval of Temporary Works Design	14 d	1/7/2008	14/7/2008	1/7/2008	14/7/2008
812	SI Works	30 d	24/8/2008	22/9/2008	24/8/2008	22/9/2008
813	Submission of Archaeological Monitoring	90 d	5/5/2008	3/8/2008	5/5/2008	3/8/2008
814	Approval of Archaeological Monitoring	0 d	16/8/2008	16/8/2008	16/8/2008	16/8/2008
815						
816	Drainage from CHL 1850 to CHL 1550	1114 d	1/4/2008	19/4/2011	1/4/2008	19/4/2011
817	From CHL 1850 to CHL 1700	364 d	1/4/2008	30/3/2009	1/4/2008	30/3/2009
818	Wet Season (April to Oct 2008)	214 d	1/4/2008	31/10/2008	1/4/2008	31/10/2008
819	Excavation	80 d	1/11/2008	19/1/2009	1/11/2008	19/1/2009
820	Rockfill & Blinding	40 d	16/11/2008	25/12/2008	16/11/2008	25/12/2008
821	Retaining Wall	50 d	26/12/2008	13/2/2009	26/12/2008	13/2/2009
822	Gabion Wall	40 d	14/2/2009	25/3/2009	14/2/2009	25/3/2009
823	Install Ducts/Fencing/Railings/Drainage	5 d	26/3/2009	30/3/2009	26/3/2009	30/3/2009
824	From CHL 1700 to CHL 1550	364 d	1/4/2009	30/3/2010	1/4/2009	30/3/2010
825	Wet Season (April to Oct 2009)	214 d	1/4/2009	31/10/2009	1/4/2009	31/10/2009
826	Excavation	90 d	1/11/2009	29/1/2010	1/11/2009	29/1/2010
827	Rockfill & Blinding	40 d	16/11/2009	25/12/2009	16/11/2009	25/12/2009
828	Retaining Wall	50 d	26/12/2009	13/2/2010	26/12/2009	13/2/2010
829	Gabion Wall	40 d	14/2/2010	25/3/2010	14/2/2010	25/3/2010
830	Install Ducts/Fencing/Railings/Drainage	5 d	26/3/2010	30/3/2010	26/3/2010	30/3/2010
831	Footbridge, Platform and Fill Slope	364 d	1/4/2010	19/4/2011	1/4/2010	19/4/2011
832	Wet Season (April to Oct 2010)	214 d	1/4/2010	31/10/2010	1/4/2010	31/10/2010
833	Provision of Temp. footbridge	5 d	1/11/2010	5/11/2010	1/11/2010	5/11/2010
834	Footing for footbridge	25 d	6/11/2010	30/11/2010	6/11/2010	30/11/2010
835	Dwarf Wall	30 d	1/12/2010	30/12/2010	1/12/2010	30/12/2010
836	Footbridge	56 d	31/12/2010	23/2/2011	31/12/2010	23/2/2011
837	Demolition of existing footbridge	5 d	24/2/2011	28/2/2011	24/2/2011	28/2/2011
838	Box Culvert	25 d	1/3/2011	25/3/2011	1/3/2011	25/3/2011
839	Footpaths Maintenance Stairway	25 d	26/3/2011	19/4/2011	26/3/2011	19/4/2011
840						
841	Completion of Area K	0 d	19/4/2011	19/4/2011	19/4/2011	19/4/2011
842						
843	Completion of Work at Section 2	0 d	4/1/2012	4/1/2012	4/1/2012	4/1/2012
844						
845	Section 3 - Upper Tai Po River (Area L,N, P)	1503 d?	28/8/2007	8/11/2011	28/8/2007	8/11/2011
846	Area L	1503 d?	28/8/2007	8/11/2011	28/8/2007	8/11/2011
847	Handover	31 d?	9/4/2008	28/8/2008	9/4/2008	28/8/2008
848	Access Road D	958 d?	14/5/2008	25/12/2010	14/5/2008	25/12/2010
849	Site Clearance for Initial survey	55 d?	14/5/2008	18/7/2008	14/5/2008	18/7/2008
850	Site Clearance	7 d?	17/8/2008	23/8/2008	17/8/2008	23/8/2008
851	Project Site Board	34 d?	26/6/2008	29/7/2008	26/6/2008	29/7/2008
852	Haul road formation	4 d?	22/9/2008	25/9/2008	22/9/2008	25/9/2008
853	Noise Barriers	15 d	11/10/2008	25/10/2008	11/10/2008	25/10/2008
854	Access D Ch 2+25 - 3+10	15 d	11/10/2008	25/10/2008	11/10/2008	25/10/2008
855	Utilities	1 d	17/9/2008	17/9/2008	17/9/2008	17/9/2008
856	PCCW	1 d	17/9/2008	17/9/2008	17/9/2008	17/9/2008
857	Trial pits	1 d	17/9/2008	17/9/2008	17/9/2008	17/9/2008
858	Retaining Wall (ch 3+00)	40 d?	1/5/2010	9/6/2010	1/5/2010	9/6/2010
859	Bulk excavation	15 d	1/5/2010	15/5/2010	1/5/2010	15/5/2010
860	Formation	5 d?	18/5/2010	20/5/2010	18/5/2010	20/5/2010
861	Formwork and rebar fixing (base slab)	5 d	21/5/2010	25/5/2010	21/5/2010	25/5/2010
862	Concreting (base slab)	2 d	26/5/2010	27/5/2010	26/5/2010	27/5/2010
863	Stripping off formwork (base slab)	3 d	28/5/2010	30/5/2010	28/5/2010	30/5/2010
864	Formwork and rebar fixing (wall stem)	5 d	31/5/2010	4/6/2010	31/5/2010	4/6/2010
865	Concreting (wall stem)	2 d	5/6/2010	6/6/2010	5/6/2010	6/6/2010
866	Stripping off formwork (wall stem)	3 d	7/6/2010	9/6/2010	7/6/2010	9/6/2010
867	Carriageway	25 d	1/12/2010	25/12/2010	1/12/2010	25/12/2010



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Drainage Services Department

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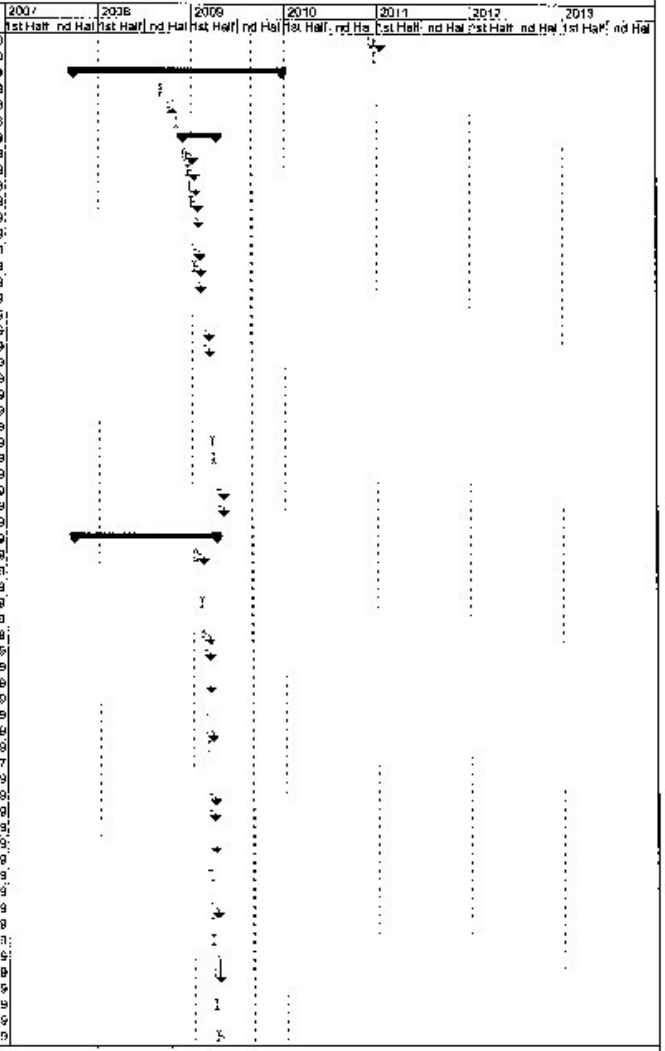
ID	Task Name	Duration	Early Start	Early Finish	Start	Finish
866	Formation	20 d	7/12/2010	20/12/2010	1/12/2010	20/12/2010
869	Concreting	5 d	21/12/2010	25/12/2010	21/12/2010	25/12/2010
870	Ch-23 - 45	618 d?	28/8/2007	23/12/2009	28/8/2007	23/12/2009
871	Site Clearance	9 d?	27/8/2008	4/9/2008	27/8/2008	4/9/2008
872	Haul road formation	99 d?	28/5/2008	5/11/2008	28/5/2008	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	9/4/2009	27/11/2008	9/4/2009
875	Bulk excavation	15 d?	27/11/2008	11/12/2008	27/11/2008	11/12/2008
876	Formation (bay 7)	5 d?	13/12/2008	17/12/2008	13/12/2008	17/12/2008
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?	3/1/2009	3/1/2009	3/1/2009	3/1/2009
880	Stripping off formwork (base slab, bay 7)	1 d?	4/1/2009	4/1/2009	4/1/2009	4/1/2009
881	Formwork (wall stem, bay 7 RHS)	4 d?	6/1/2009	9/1/2009	6/1/2009	9/1/2009
882	Rebar fixing (wall stem, bay 7 RHS)	2 d?	10/1/2009	11/1/2009	10/1/2009	11/1/2009
883	Concreting (wall stem, bay 7 RHS)	1 d?	12/1/2009	12/1/2009	12/1/2009	12/1/2009
884	Stripping off formwork (wall stem, bay 7 RHS)	1 d?	13/1/2009	13/1/2009	13/1/2009	13/1/2009
885	Formation (bay 8)	1 d?	20/1/2009	20/1/2009	20/1/2009	20/1/2009
886	Formwork (base slab, bay 8)	1 d?	11/2/2009	11/2/2009	11/2/2009	11/2/2009
887	Rebar fixing (base slab, bay 8)	1 d?	14/2/2009	14/2/2009	14/2/2009	14/2/2009
888	Concreting (base slab, bay 8)	1 d?	15/2/2009	15/2/2009	15/2/2009	15/2/2009
889	Rebar fixing (wall stem, bay 7 LHS)	2 d?	24/2/2009	25/2/2009	24/2/2009	25/2/2009
890	Shuttering formwork (wall stem, bay 7 LHS)	2 d?	2/3/2009	3/3/2009	2/3/2009	3/3/2009
891	Concreting (wall stem, bay 7 LHS)	1 d?	14/3/2009	14/3/2009	14/3/2009	14/3/2009
892	Stripping off formwork (wall stem, bay 7 LHS)	1 d?	15/3/2009	15/3/2009	15/3/2009	15/3/2009
893	Rebar fixing and formwork (wall stem, bay 8 RHS)	4 d?	18/3/2009	21/3/2009	18/3/2009	21/3/2009
894	Rebar fixing and Shuttering formwork (wall stem, bay 7 RHS)	5 d?	21/3/2009	25/3/2009	21/3/2009	25/3/2009
895	Rebar fixing and formwork (wall stem, bay 8 LHS)	1 d?	21/3/2009	21/3/2009	21/3/2009	21/3/2009
896	Shuttering formwork (wall stem, bay 8 LHS RHS)	1 d?	7/4/2009	7/4/2009	7/4/2009	7/4/2009
897	Concreting (wall stem, bay 8 LHS RHS)	1 d?	8/4/2009	8/4/2009	8/4/2009	8/4/2009
898	Stripping off formwork (wall stem, bay 8 LHS RHS)	1 d?	9/4/2009	9/4/2009	9/4/2009	9/4/2009
899	Boulder Trap (Bay 4-5) (ch -23 - 45)	556 d?	28/9/2007	5/4/2009	28/9/2007	5/4/2009
900	Bulk excavation	17 d?	3/1/2009	19/1/2009	3/1/2009	19/1/2009
901	Formation (bay 5,6)	1 d?	20/1/2009	20/1/2009	20/1/2009	20/1/2009
902	Formwork (base slab, bay 5-6)	1 d?	2/2/2009	2/2/2009	2/2/2009	2/2/2009
903	Rebar fixing (base slab, bay 5)	3 d?	2/2/2009	4/2/2009	2/2/2009	4/2/2009
904	Concreting (base slab, bay 5)	1 d?	7/2/2009	7/2/2009	7/2/2009	7/2/2009
905	Rebar fixing (base slab, bay 6)	9 d?	3/2/2009	11/2/2009	3/2/2009	11/2/2009
906	Formwork (wall stem, bay 5)	1 d?	12/2/2009	12/2/2009	12/2/2009	12/2/2009
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?	13/2/2009	13/2/2009	13/2/2009	13/2/2009
909	Stripping off formwork (wall between bay 4&5; base slab, bay 5)	1 d?	14/2/2009	14/2/2009	14/2/2009	14/2/2009
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?	21/2/2009	21/2/2009	21/2/2009	21/2/2009
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?	26/9/2007	26/9/2007	26/9/2007	26/9/2007
914	Shuttering formwork (wall stem, bay 5 LHS)	1 d?	26/2/2009	26/2/2009	26/2/2009	26/2/2009
915	Shuttering formwork (wall stem, bay 6 RHS)	1 d?	27/2/2009	27/2/2009	27/2/2009	27/2/2009
916	Concreting (wall stem, bay 5 ,LHS)	1 d?	28/2/2009	28/2/2009	28/2/2009	28/2/2009
917	Formwork (wall stem, bay 5 RHS)	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 5 RHS)	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	11/3/2009	10/3/2009	11/3/2009
924	Formwork and rebar fixing (wall stem, bay 4 RHS)	4 d?	10/3/2009	13/3/2009	10/3/2009	13/3/2009
925	Concreting (wall stem, bay 4 LHS, bay 6 RHS)	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 RHS, bay 6 LHS)	2 d?	17/3/2009	18/3/2009	17/3/2009	18/3/2009
927	Stripping off formwork (wall stem, bay 4 LHS, bay 6 RHS)	2 d?	18/3/2009	19/3/2009	18/3/2009	19/3/2009
928	Rebar fixing and shuttering formwork (wall stem, bay 5 RHS)	5 d?	21/3/2009	25/3/2009	21/3/2009	25/3/2009
929	Concreting (wall stem, bay 4 RHS, bay 6 LHS)	1 d?	20/3/2009	20/3/2009	20/3/2009	20/3/2009
930	Rebar fixing and formwork (wall stem, bay 5)	5 d?	27/3/2009	31/3/2009	27/3/2009	31/3/2009



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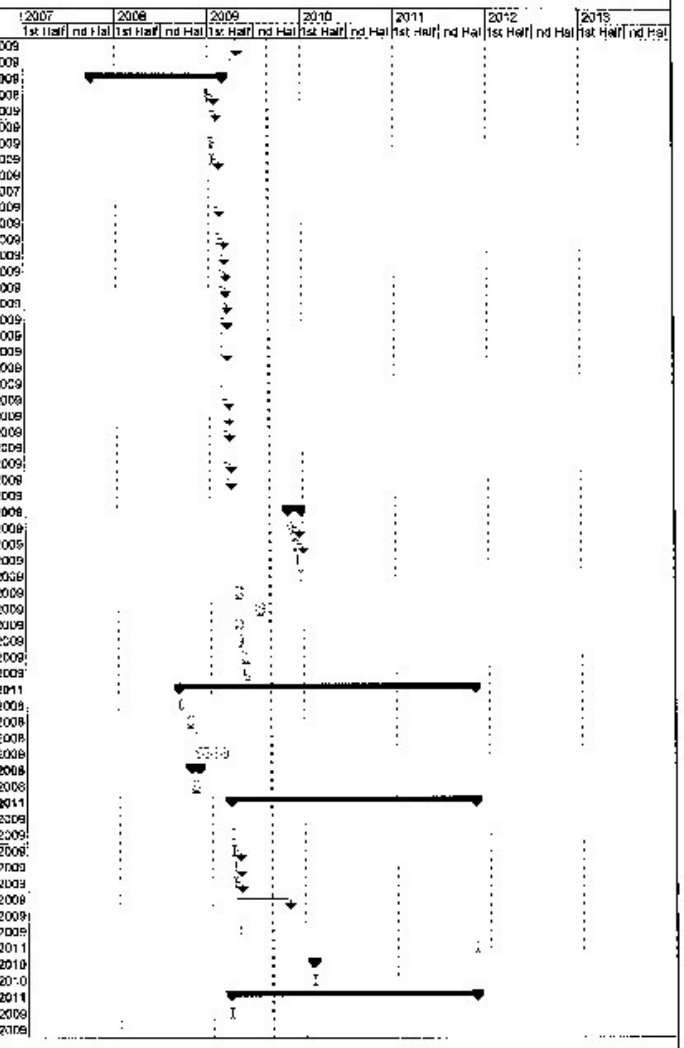
931	Concreting (wall stem, bay 5 RHS)	1 d?	1/4/2009	1/4/2009	1/4/2009	1/4/2009
932	Stripping off formwork (wall stem, bay 5 RHS)	4 d?	2/4/2009	5/4/2009	2/4/2009	5/4/2009
933	**Boulder Trap (Bay 1-3) (ch -23 - 45)**	**521 d?**	**28/9/2007**	**1/3/2009**	**28/9/2007**	**1/3/2009**
934	Bulk excavation	8 d?	23/12/2008	30/12/2008	23/12/2008	30/12/2008
935	Formation	1 d?	8/1/2009	8/1/2009	8/1/2009	8/1/2009
936	Formwork (base slab, bay 1&3)	1 d?	12/1/2009	12/1/2009	12/1/2009	12/1/2009
937	Rebar fixing (base slab, bay 1)	4 d?	12/1/2009	15/1/2009	12/1/2009	15/1/2009
938	Rebar fixing (base slab, bay 3)	2 d?	16/1/2009	17/1/2009	16/1/2009	17/1/2009
939	Concreting (base slab, bay 1&3)	1 d?	19/1/2009	19/1/2009	19/1/2009	19/1/2009
940	Stripping off formwork (base slab, bay 1&3)	1 d?	28/9/2007	28/9/2007	28/9/2007	28/9/2007
941	Formwork (base slab, bay 2)	1 d?	21/1/2009	21/1/2009	21/1/2009	21/1/2009
942	Concreting (base slab, bay 2)	1 d?	22/1/2009	22/1/2009	22/1/2009	22/1/2009
943	Rebar fixing (wall stem, bay 1)	3 d?	5/2/2009	7/2/2009	5/2/2009	7/2/2009
944	Shuttering the wall stem (bay 1)	1 d?	8/2/2009	8/2/2009	8/2/2009	8/2/2009
945	Formwork (wall stem, bay 1-3)	1 d?	11/2/2009	11/2/2009	11/2/2009	11/2/2009
946	Rebar fixing (wall stem, bay 2)	1 d?	12/2/2009	12/2/2009	12/2/2009	12/2/2009
947	Formwork shuttering and weep hole (wall stem, bay 1-2)	1 d?	16/2/2009	16/2/2009	16/2/2009	16/2/2009
948	Concreting (wall stem, bay 1 RHS, bay 2 LHS)	1 d?	17/2/2009	17/2/2009	17/2/2009	17/2/2009
949	Stripping off the formwork (wall stem, bay 1 RHS, bay 2 LHS	1 d?	18/2/2009	18/2/2009	18/2/2009	18/2/2009
950	Formwork (wall stem, bay 1 LHS, bay 2 RHS)	1 d?	18/2/2009	18/2/2009	18/2/2009	18/2/2009
951	rebar fixing (wall stem, bay 1 LHS)	1 d?	20/2/2009	20/2/2009	20/2/2009	20/2/2009
952	Formwork, rebar fixing (wall stem bay 3)	1 d?	20/2/2009	20/2/2009	20/2/2009	20/2/2009
953	Rebar fixing (wall stem, bay 3)	1 d?	23/2/2009	23/2/2009	23/2/2009	23/2/2009
954	Concreting (wall stem, bay 1 LHS, bay 3 RHS)	1 d?	24/2/2009	24/2/2009	24/2/2009	24/2/2009
955	Stripping off formwork (wall stem, bay 1 LHS, bay 3 RHS)	1 d?	25/2/2009	25/2/2009	25/2/2009	25/2/2009
956	Shuttering formwork (wall stem, bay 3 LHS)	1 d?	26/2/2009	26/2/2009	26/2/2009	26/2/2009
957	Shuttering formwork and rebar fixing (wall stem, bay 2 RHS)	1 d?	27/2/2009	27/2/2009	27/2/2009	27/2/2009
958	Concreting (wall stem, bay 2 RHS, bay 3 LHS)	1 d?	28/2/2009	28/2/2009	28/2/2009	28/2/2009
959	Stripping off formwork (wall stem, bay 2 RHS, bay 3 LHS)	1 d?	1/3/2009	1/3/2009	1/3/2009	1/3/2009
960	**Footbridge TB01 (boulder trap, bay 3)**	**52 d?**	**2/11/2009**	**23/12/2009**	**2/11/2009**	**23/12/2009**
961	Formwork and rebar fixing for decking	20 d?	2/11/2009	21/11/2009	2/11/2009	21/11/2009
962	Concreting (decking)	17 d	22/11/2009	8/12/2009	22/11/2009	8/12/2009
963	Stripping off formwork (decking)	3 d	9/12/2009	11/12/2009	9/12/2009	11/12/2009
964	Railing	5 d	18/12/2009	23/12/2009	18/12/2009	23/12/2009
965	Cleaning and making good prior to pre-handover	33 d?	6/4/2009	9/5/2009	6/4/2009	6/5/2009
966	Railing	35 d	27/6/2009	31/7/2009	27/6/2009	31/7/2009
967	Backfilling against RHS wall	29 d?	5/4/2009	4/5/2009	5/4/2009	4/5/2009
968	Backfilling against LHS wall	16 d?	19/4/2009	4/5/2009	19/4/2009	4/5/2009
969	Laying Sub-soil Drain (bay 1-3 RHS, 5-8 LHS)	33 d	30/4/2009	1/6/2009	30/4/2009	1/6/2009
970	Backfilling (bay 1-3 RHS, 5-8 LHS)	24 d?	10/5/2009	2/6/2009	10/5/2009	2/6/2009
971	**Ch 45-110**	**1169 d?**	**27/6/2008**	**8/11/2011**	**27/6/2008**	**8/11/2011**
972	Site Clearance	11 d?	27/6/2008	5/7/2008	27/6/2008	6/7/2008
973	Haul road formation	27 d?	26/9/2008	22/10/2008	26/9/2008	22/10/2008
974	Water diversion	2 d?	2/11/2008	3/11/2008	2/11/2008	3/11/2008
975	Breaking up the boulder	123 d?	31/10/2008	2/3/2009	31/10/2008	2/3/2009
976	**Noise Barriers**	**32 d**	**13/10/2008**	**13/11/2008**	**13/10/2008**	**13/11/2008**
977	Ch 55-110 RHS Non-transparent	32 d	13/10/2008	13/11/2008	13/10/2008	13/11/2008
978	**Gabion (ch 48-55 RHS) TG2**	**666 d?**	**18/3/2009**	**8/11/2011**	**18/3/2009**	**8/11/2011**
979	Trench excavation and replacing grade 200	1 d?	18/3/2009	18/3/2009	18/3/2009	18/3/2009
980	Formation of gabion wall with G200	2 d?	23/3/2009	23/3/2009	23/3/2009	23/3/2009
981	1st layer (ch 48-55 RHS)	3 d?	25/3/2009	27/3/2009	25/3/2009	27/3/2009
982	2nd layer (ch 48-55 RHS)	2 d?	28/3/2009	29/3/2009	28/3/2009	29/3/2009
983	3rd layer (ch 48-55 RHS)	2 d?	31/3/2009	1/4/2009	31/3/2009	1/4/2009
984	4th layer (ch 48-55 RHS)	1 d?	2/4/2009	2/4/2009	2/4/2009	2/4/2009
985	5th layer (ch 48-55 RHS)	1 d?	2/11/2009	2/11/2009	2/11/2009	2/11/2009
986	G500 toe in front of gabion	2 d?	19/4/2009	20/4/2009	19/4/2009	20/4/2009
987	Boulder at river course	7 d?	2/11/2011	8/11/2011	2/11/2011	8/11/2011
988	**Maintainence Staircase (ch 90 RHS)**	**5 d**	**1/2/2010**	**5/2/2010**	**1/2/2010**	**5/2/2010**
989	Formwork and concreting	5 d	1/2/2010	5/2/2010	1/2/2010	5/2/2010
990	**Gabion (ch 55-95 RHS) TG2**	**870 d?**	**13/3/2009**	**7/11/2011**	**13/3/2009**	**7/11/2011**
991	Trench excavation and replacing grade 200	4 d?	13/3/2009	16/3/2009	13/3/2009	16/3/2009
992	Formation of gabion wall with G200	1 d?	21/3/2009	21/3/2009	21/3/2009	21/3/2009



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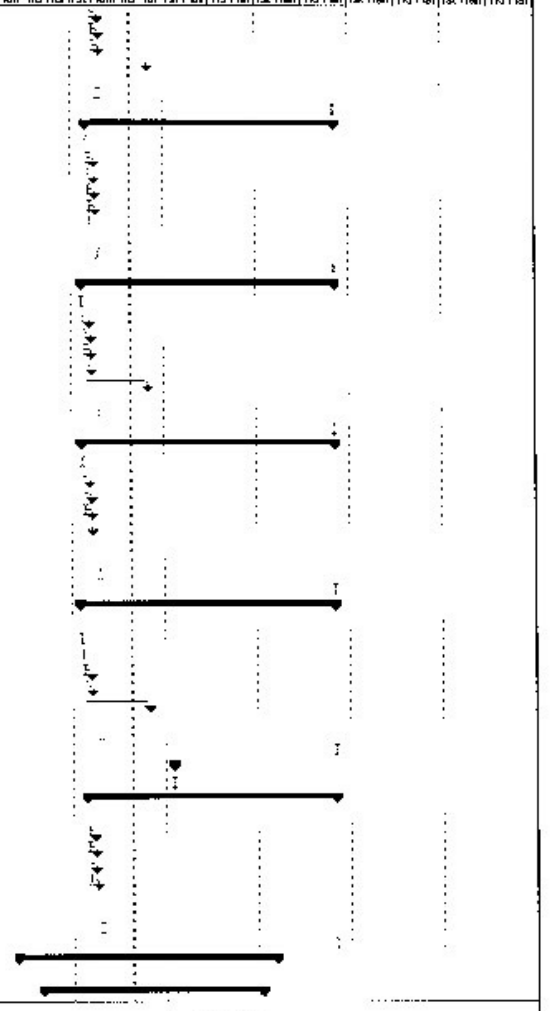
993	1st layer (ch 55-65 RHS)	3 d?	25/3/2009	27/3/2009	25/3/2009	27/3/2009
994	2nd layer (ch 55-65 RHS)	2 d?	28/3/2009	29/3/2009	28/3/2009	29/3/2009
995	3rd layer (ch 55-65 RHS)	2 d?	31/3/2009	1/4/2009	31/3/2009	1/4/2009
996	4th layer (ch 55-65 RHS)	1 d?	2/4/2009	2/4/2009	2/4/2009	2/4/2009
997	5th layer (ch 55-65 RHS)	1 d?	2/11/2009	2/11/2009	2/11/2009	2/11/2009
998	G500 toe in front of gabion	2 d?	19/4/2009	20/4/2009	19/4/2009	20/4/2009
999	Boulder at river course	7 d?	1/11/2011	7/11/2011	1/11/2011	7/11/2011
1000	**Gabion (ch 65-75 RHS) TG2**	**981 d?**	**2/3/2009**	**7/11/2011**	**2/3/2009**	**7/11/2011**
1001	Trench excavation and replacing grade 200	4 d?	2/3/2009	5/3/2009	2/3/2009	5/3/2009
1002	Formation of gabion wall with G200	5 d?	5/3/2009	11/3/2009	9/3/2009	11/3/2009
1003	1st layer (ch 65-75 RHS)	2 d?	12/3/2009	13/3/2009	12/3/2009	13/3/2009
1004	2nd layer (ch 65-75 RHS)	2 d?	14/3/2009	15/3/2009	14/3/2009	15/3/2009
1005	3rd layer (ch 65-75 RHS)	2 d?	17/3/2009	18/3/2009	17/3/2009	18/3/2009
1006	4th layer (ch 65-75 RHS)	2 d?	19/3/2009	20/3/2009	19/3/2009	20/3/2009
1007	5th layer (ch 65-75 RHS)	1 d?	2/11/2009	2/11/2009	2/11/2009	2/11/2009
1008	G500 toe in front of gabion	2 d?	19/4/2009	20/4/2009	19/4/2009	20/4/2009
1009	Boulder at river course	7 d?	1/11/2011	7/11/2011	1/11/2011	7/11/2011
1010	**Gabion (ch 75-80 RHS) TG2**	**1000 d?**	**11/2/2009**	**7/11/2011**	**11/2/2009**	**7/11/2011**
1011	Trench excavation and replacing grade 200	1 d?	11/2/2009	11/2/2009	11/2/2009	11/2/2009
1012	Formation of gabion wall with G200	2 d?	14/2/2009	16/2/2009	14/2/2009	16/2/2009
1013	1st layer (ch 75-80 RHS)	2 d?	17/2/2009	18/2/2009	17/2/2009	18/2/2009
1014	2nd layer (ch 75-80 RHS)	1 d?	24/2/2009	24/2/2009	24/2/2009	24/2/2009
1015	3rd layer (ch 75-80 RHS)	2 d?	25/2/2009	26/2/2009	25/2/2009	26/2/2009
1016	4th layer (ch 75-80 RHS)	1 d?	27/2/2009	27/2/2009	27/2/2009	27/2/2009
1017	5th layer (ch 75-80 RHS)	1 d?	2/3/2009	2/3/2009	2/3/2009	2/3/2009
1018	G500 toe in front of gabion	2 d?	2/11/2009	2/11/2009	2/11/2009	2/11/2009
1019	Boulder at river course	7 d?	19/4/2009	20/4/2009	19/4/2009	20/4/2009
1020	**Gabion (ch 80-90 RHS) TG2**	**1001 d?**	**1/11/2011**	**7/11/2011**	**1/11/2011**	**7/11/2011**
1021	Trench excavation and replacing grade 200	3 d?	**10/2/2009**	**7/11/2011**	**10/2/2009**	**7/11/2011**
1022	Formation of gabion wall with G200	2 d?	10/2/2009	12/2/2009	10/2/2009	12/2/2009
1023	1st layer (ch 80-90 RHS)	1 d?	17/2/2009	18/2/2009	17/2/2009	18/2/2009
1024	2nd layer (ch 80-90 RHS)	2 d?	23/2/2009	23/2/2009	23/2/2009	23/2/2009
1025	3rd layer (ch 80-90 RHS)	1 d?	25/2/2009	26/2/2009	25/2/2009	26/2/2009
1026	4th layer (ch 80-90 RHS)	1 d?	27/2/2009	27/2/2009	27/2/2009	27/2/2009
1027	5th layer (ch 80-90 RHS)	1 d?	2/3/2009	2/3/2009	2/3/2009	2/3/2009
1028	G500 toe in front of gabion	2 d?	7/4/2009	7/4/2009	7/4/2009	7/4/2009
1029	Boulder at river course	7 d?	19/4/2009	20/4/2009	19/4/2009	20/4/2009
1030	**Gabion (ch 90-100 RHS) TG2**	**1009 d?**	**1/11/2011**	**7/11/2011**	**1/11/2011**	**7/11/2011**
1031	Trench excavation	1 d?	**2/2/2009**	**7/11/2011**	**2/2/2009**	**7/11/2011**
1032	Fabricating gabion units	2 d?	2/2/2009	2/2/2009	2/2/2009	2/2/2009
1033	1st layer (ch 90-100 RHS)	3 d?	4/2/2009	5/2/2009	4/2/2009	5/2/2009
1034	2nd layer (ch 90-100 RHS)	3 d?	11/2/2009	13/2/2009	11/2/2009	13/2/2009
1035	3rd layer (ch 90-100 RHS)	1 d?	16/2/2009	16/2/2009	16/2/2009	16/2/2009
1036	4th layer (ch 90-100 RHS)	1 d?	23/2/2009	23/2/2009	23/2/2009	23/2/2009
1037	5th layer (ch 90-100 RHS)	1 d?	24/2/2009	24/2/2009	24/2/2009	24/2/2009
1038	G500 toe in front of gabion	2 d?	2/11/2009	2/11/2009	2/11/2009	2/11/2009
1039	Boulder at river course	7 d?	19/4/2009	20/4/2009	19/4/2009	20/4/2009
1040	**Maintainence Staircase (ch 100 RHS)**	**6 d**	**1/11/2011**	**7/11/2011**	**1/11/2011**	**7/11/2011**
1041	Formwork and concreting	6 d	**1/2/2010**	**6/2/2010**	**1/2/2010**	**6/2/2010**
1042	**Gabion (ch 100-110 RHS) TG2**	**987 d?**	**24/2/2009**	**7/11/2011**	**24/2/2009**	**7/11/2011**
1043	Trench excavation and replacing grade 200	2 d?	24/2/2009	25/2/2009	24/2/2009	25/2/2009
1044	Formation of gabion wall with G200	3 d?	26/2/2009	2/3/2009	26/2/2009	2/3/2009
1045	1st layer (ch 100-110 RHS)	2 d?	3/3/2009	4/3/2009	3/3/2009	4/3/2009
1046	2nd layer (ch 100-110 RHS)	1 d?	5/3/2009	5/3/2009	5/3/2009	5/3/2009
1047	3rd layer (ch 100-110 RHS)	3 d?	9/3/2009	11/3/2009	9/3/2009	11/3/2009
1048	4th layer (ch 100-110 RHS)	1 d?	12/3/2009	12/3/2009	12/3/2009	12/3/2009
1049	5th layer (ch 100-110 RHS)	1 d?	2/11/2009	2/11/2009	2/11/2009	2/11/2009
1050	G500 toe in front of gabion	2 d?	19/4/2009	20/4/2009	19/4/2009	20/4/2009
1051	Boulder at river course	7 d?	1/11/2011	7/11/2011	1/11/2011	7/11/2011
1052	**Area P**	**1029 d?**	**29/5/2008**	**14/3/2011**	**29/5/2008**	**14/3/2011**
1053	Hand over	1 d	29/5/2008	29/5/2008	29/5/2008	29/5/2008
1054	Ch 110 - 150	856 d?	4/9/2008	17/1/2011	4/9/2008	17/1/2011



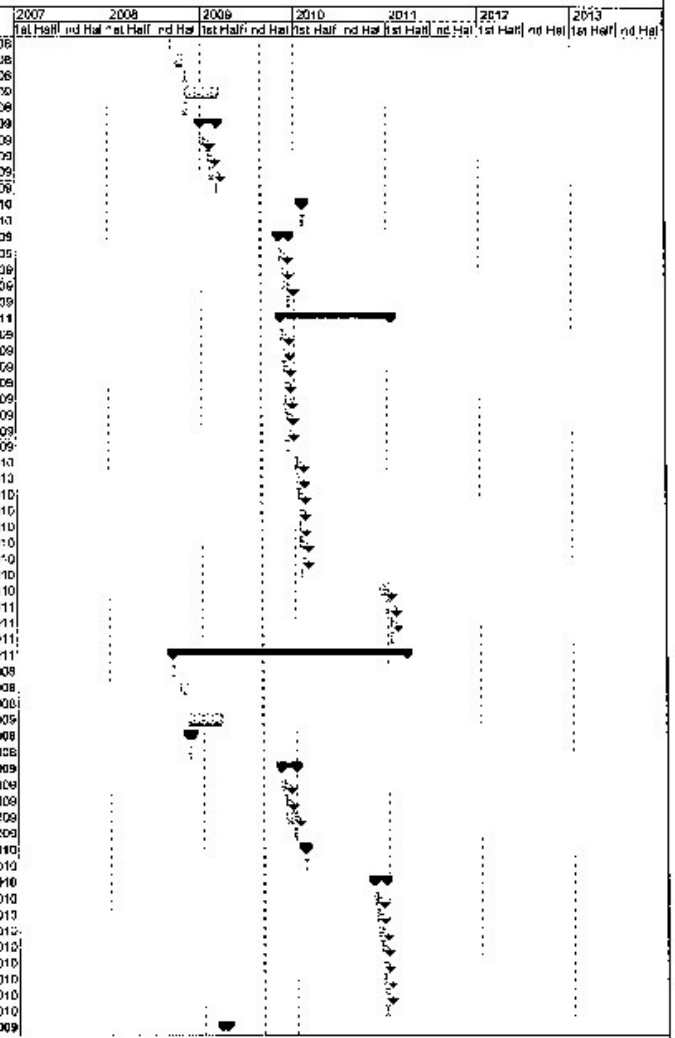
Project: Revised M. Prog (Rev.08)
Data Date: Aug 2009
Consultant: AECOM

Task | Task Progress | Critical Task | Critical Task Progress | Milestone | Summary | Rolled Up Task | Rolled Up Critical Task | Rolled Up Milestone | Rolled Up Progress | Split | External Tasks | PTask

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
1055	Site Clearance	5 d?	4/9/2008	9/9/2008	4/9/2008	9/9/2008
1056	Haul road formation	31 d?	27/9/2008	27/10/2008	27/9/2008	27/10/2008
1057	Water diversion	3 d?	2/11/2008	4/11/2008	2/11/2008	4/11/2008
1058	Breaking up the boulder	132 d?	3/11/2008	14/3/2009	3/11/2008	14/3/2009
1059	Demolish the house near 4BC	21 d?	24/10/2008	13/11/2008	24/10/2008	13/11/2008
1060	**Gabion (ch 110-150 RHS) TG2**	83 d	2/1/2009	5/3/2009	2/1/2009	5/3/2009
1061	Trench excavation and replacing grade 200	12 d	2/1/2009	13/1/2009	2/1/2009	13/1/2009
1062	Formation of gabion wall with G200	3 d	2/2/2009	4/2/2009	2/2/2009	4/2/2009
1063	1st layer - 5th layer (ch 110-150 LHS)	20 d	5/2/2009	24/2/2009	5/2/2009	24/2/2009
1064	G500 toe in front of gabion	6 d	26/2/2009	5/3/2009	26/2/2009	5/3/2009
1065	**Maintainence Staircase (ch 130 RHS)**	6 d	1/2/2010	6/2/2010	1/2/2010	6/2/2010
1066	Formwork and concreting	5 d	1/2/2010	5/2/2010	1/2/2010	5/2/2010
1067	**Gabion (ch 140-150 LHS) TG4**	41 d	2/11/2009	12/12/2009	2/11/2009	12/12/2009
1068	Trench excavation and replacing grade 200	12 d	2/11/2009	13/11/2009	2/11/2009	13/11/2009
1069	Formation of gabion wall with G200	3 d	14/11/2009	16/11/2009	14/11/2009	16/11/2009
1070	1st layer - 4th layer (ch 140-150 LHS)	20 d	17/11/2009	6/12/2009	17/11/2009	6/12/2009
1071	G500 toe in front of gabion	6 d	7/12/2009	12/12/2009	7/12/2009	12/12/2009
1072	**Footbridge TB02 (Ch 150)**	435 d?	9/11/2009	17/1/2011	9/11/2009	17/1/2011
1073	Bulk excavation for footing (Abutment A)	10 d	9/11/2009	18/11/2009	9/11/2009	18/11/2009
1074	Formation - Abutment A	1 d?	19/11/2009	19/11/2009	19/11/2009	19/11/2009
1075	Formwork and rebar fixing (Abutment A, footing)	5 d	23/11/2009	24/11/2009	20/11/2009	24/11/2009
1076	Concreting (Abutment A, footing)	1 d?	25/11/2009	25/11/2009	25/11/2009	25/11/2009
1077	Stripping off formwork (Abutment A, footing)	3 d	26/11/2009	28/11/2009	26/11/2009	28/11/2009
1078	Rebar fixing and shuttering formwork (Abutment A, column)	5 d	29/11/2009	3/12/2009	29/11/2009	3/12/2009
1079	Concreting (Abutment A, column)	1 d?	4/12/2009	4/12/2009	4/12/2009	4/12/2009
1080	Stripping off formwork (Abutment A, column)	3 d	5/12/2009	7/12/2009	5/12/2009	7/12/2009
1081	Bulk excavation for footing (Abutment B)	10 d	2/1/2010	11/1/2010	2/1/2010	11/1/2010
1082	Formation - Abutment B	1 d?	12/1/2010	12/1/2010	12/1/2010	12/1/2010
1083	Formwork and rebar fixing (Abutment B, footing)	5 d	13/1/2010	17/1/2010	13/1/2010	17/1/2010
1084	Concreting (Abutment B, footing)	1 d?	18/1/2010	18/1/2010	18/1/2010	18/1/2010
1085	Stripping off formwork (Abutment B, footing)	3 d	19/1/2010	21/1/2010	19/1/2010	21/1/2010
1086	Rebar fixing and shuttering formwork (Abutment B, column)	5 d	22/1/2010	26/1/2010	22/1/2010	26/1/2010
1087	Concreting (Abutment B, column)	1 d?	27/1/2010	27/1/2010	27/1/2010	27/1/2010
1088	Stripping off formwork (Abutment B, column)	3 d	28/1/2010	30/1/2010	28/1/2010	30/1/2010
1089	Formwork and rebar fixing for decking	20 d	1/12/2010	20/12/2010	1/12/2010	20/12/2010
1090	Concreting (decking)	20 d	21/12/2010	9/1/2011	21/12/2010	9/1/2011
1091	Stripping off formwork (decking)	3 d	10/1/2011	12/1/2011	10/1/2011	12/1/2011
1092	Railing installation (decking)	5 d	13/1/2011	17/1/2011	13/1/2011	17/1/2011
1093	**Ch 150 - 230**	922 d?	4/9/2008	14/3/2011	4/9/2008	14/3/2011
1094	She Clearance	6 d?	4/9/2008	9/9/2008	4/9/2008	9/9/2008
1095	Haul road formation	28 d?	3/10/2008	28/10/2008	3/10/2008	28/10/2008
1096	Water diversion	2 d?	3/11/2008	4/11/2008	3/11/2008	4/11/2008
1097	Breaking up the boulder	132 d?	3/11/2008	14/3/2009	3/11/2008	14/3/2009
1098	**Noise barriers**	15 d?	4/11/2008	18/11/2008	4/11/2008	18/11/2008
1099	Ch 150-230 RHS Non-transparent	15 d?	4/11/2008	18/11/2008	4/11/2008	18/11/2008
1100	**Gabion (ch 150-190 LHS) TG4**	60 d	2/11/2009	31/12/2009	2/11/2009	31/12/2009
1101	Trench excavation and replacing grade 200	15 d	2/11/2009	18/11/2009	2/11/2009	18/11/2009
1102	Formation of gabion wall with G200	5 d	17/11/2009	21/11/2009	17/11/2009	21/11/2009
1103	1st layer - 4th layer (ch 150-190 LHS)	30 d	22/11/2009	21/12/2009	22/11/2009	21/12/2009
1104	G500 toe in front of gabion	10 d	22/12/2009	31/12/2009	22/12/2009	31/12/2009
1105	**Maintainence Staircase (ch 190 LHS)**	6 d	1/2/2010	6/2/2010	1/2/2010	6/2/2010
1106	Formwork and concreting	6 d	1/2/2010	6/2/2010	1/2/2010	6/2/2010
1107	**Retaining Wall (ch 190-200 LHS) TR1**	49 d	1/11/2010	19/12/2010	1/11/2010	19/12/2010
1108	Bulk excavation	12 d	1/11/2010	12/11/2010	1/11/2010	12/11/2010
1109	Formation	5 d	13/11/2010	17/11/2010	13/11/2010	17/11/2010
1110	Formwork and rebar fixing (base slab)	12 d	18/11/2010	29/11/2010	18/11/2010	29/11/2010
1111	Concreting (base slab)	3 d	30/11/2010	2/12/2010	30/11/2010	2/12/2010
1112	Stripping off formwork (wall stem)	2 d	3/12/2010	4/12/2010	3/12/2010	4/12/2010
1113	Formwork and rebar fixing (wall stem)	10 d	5/12/2010	14/12/2010	5/12/2010	14/12/2010
1114	Concreting (wall stem)	2 d	15/12/2010	16/12/2010	15/12/2010	16/12/2010
1115	Stripping off formwork (wall stem)	3 d	17/12/2010	19/12/2010	17/12/2010	19/12/2010
1116	Gabion (ch 200-210 LHS) TG2	21 d?	14/3/2008	3/4/2009	14/3/2009	3/4/2009



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Consultant: AECOM

Task | Task Progress | Critical Task | Critical Task Progress | Milestone | Summary | Rolled Up Task | Rolled Up Critical Task | Rolled up Milestone | Rolled Up Progress | Split | External Tasks | PTask

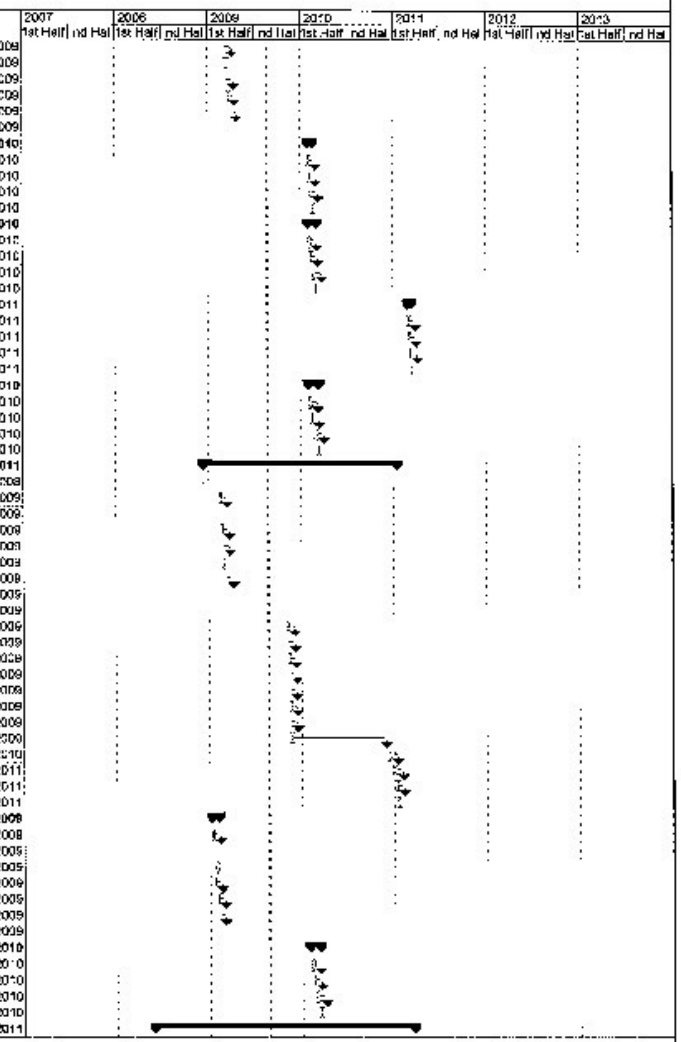
Drainage Services Department

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
1117	Trench excavation and replacing grade 200	1 d?	14/3/2009	14/3/2009	14/3/2009	14/3/2009
1118	Formation of gabion wall	2 d?	16/3/2009	17/3/2009	16/3/2009	17/3/2009
1119	1st layer (ch 200-210 LHS)	1 d?	21/3/2009	21/3/2009	21/3/2009	21/3/2009
1120	2nd layer (ch 200-210 LHS)	3 d?	23/3/2009	25/3/2009	23/3/2009	25/3/2009
1121	3rd layer (ch 200-210 LHS)	1 d?	1/4/2009	1/4/2009	1/4/2009	1/4/2009
1122	4th layer (ch 200-210 LHS)	1 d?	3/4/2009	3/4/2009	3/4/2009	3/4/2009
1123	**Gabion (ch 150-160 RHS) TG2**	**20 d**	**1/2/2010**	**20/2/2010**	**1/2/2010**	**20/2/2010**
1124	Trench excavation and replacing grade 200	5 d	1/2/2010	5/2/2010	1/2/2010	6/2/2010
1125	Formation of gabion wall with G200	2 d	7/2/2010	8/2/2010	7/2/2010	8/2/2010
1126	1st layer - 4th layer (ch 160-185 LHS)	10 d	9/2/2010	18/2/2010	9/2/2010	18/2/2010
1127	G500 toe in front of gabion	2 d	19/2/2010	20/2/2010	19/2/2010	20/2/2010
1128	**Gabion (ch 160-185 RHS) TG4**	**33 d**	**1/2/2010**	**5/3/2010**	**1/2/2010**	**5/3/2010**
1129	Trench excavation and replacing grade 200	12 d	1/2/2010	12/2/2010	1/2/2010	12/2/2010
1130	Formation of gabion wall with G200	3 d	13/2/2010	15/2/2010	13/2/2010	15/2/2010
1131	1st layer - 4th layer (ch 160-185 LHS)	16 d	16/2/2010	2/3/2010	16/2/2010	2/3/2010
1132	G500 toe in front of gabion	3 d	3/3/2010	5/3/2010	3/3/2010	5/3/2010
1133	**Step 1 (ch 185) [1.4m]**	**14 d**	**1/3/2011**	**14/3/2011**	**1/3/2011**	**14/3/2011**
1134	Formation	3 d	1/3/2011	3/3/2011	1/3/2011	3/3/2011
1135	Formwork and rebar fixing	6 d	4/3/2011	9/3/2011	4/3/2011	9/3/2011
1136	Concreting	2 d	10/3/2011	11/3/2011	10/3/2011	11/3/2011
1137	Stripping off formwork	3 d	12/3/2011	14/3/2011	12/3/2011	14/3/2011
1138	**Gabion (ch 185-210 RHS) TG1**	**42 d**	**1/2/2010**	**14/3/2010**	**1/2/2010**	**14/3/2010**
1139	Trench excavation and replacing grade 200	15 d	1/2/2010	15/2/2010	1/2/2010	15/2/2010
1140	Formation of gabion wall with G200	3 d	16/2/2010	18/2/2010	16/2/2010	18/2/2010
1141	1st layer - 5th layer (ch 185-210 LHS)	20 d	19/2/2010	10/3/2010	19/2/2010	10/3/2010
1142	G500 toe in front of gabion	4 d	11/3/2010	14/3/2010	11/3/2010	14/3/2010
1143	**Footbridge TB03 (ch 210)**	**768 d?**	**11/12/2008**	**17/1/2011**	**11/12/2008**	**17/1/2011**
1144	Trial pit LHS	2 d?	11/12/2008	12/12/2008	11/12/2008	12/12/2008
1145	Bulk excavation for footing (Abutment A)	6 d?	14/2/2009	19/2/2009	14/2/2009	19/2/2009
1146	Formation - Abutment A	1 d?	23/2/2009	23/2/2009	23/2/2009	23/2/2009
1147	Formwork and rebar fixing (Abutment A, footing)	3 d?	25/2/2009	28/2/2009	25/2/2009	28/2/2009
1148	Concreting the footing (Abutment A)	1 d?	1/3/2009	1/3/2009	1/3/2009	1/3/2009
1149	Stripping off the formwork (footing) and formworking (Abutment A)	2 d?	3/3/2009	4/3/2009	3/3/2009	4/3/2009
1150	Rebar fixing and shuttering formwork (Abutment A, wall)	1 d?	16/3/2009	16/3/2009	16/3/2009	16/3/2009
1151	Concreting (column, abutment A)	1 d?	17/3/2009	17/3/2009	17/3/2009	17/3/2009
1152	Stripping off formwork (column, abutment A)	1 d?	19/3/2009	19/3/2009	19/3/2009	19/3/2009
1153	Bulk excavation for footing (Abutment B)	10 d	2/11/2009	11/11/2009	2/11/2009	11/11/2009
1154	Formation - Abutment B	1 d?	12/11/2009	12/11/2009	12/11/2009	12/11/2009
1155	Formwork and rebar fixing (Abutment B, footing)	4 d	13/11/2009	16/11/2009	13/11/2009	16/11/2009
1156	Concreting the footing (Abutment B)	1 d	17/11/2009	17/11/2009	17/11/2009	17/11/2009
1157	Stripping off the formwork (footing Abutment B)	2 d	18/11/2009	19/11/2009	18/11/2009	19/11/2009
1158	Rebar fixing and shuttering formwork (Abutment B, wall)	2 d	20/11/2009	21/11/2009	20/11/2009	21/11/2009
1159	Concreting (column, Abutment B)	1 d	22/11/2009	22/11/2009	22/11/2009	22/11/2009
1160	Stripping off formwork (column, Abutment B)	2 d	23/11/2009	24/11/2009	23/11/2009	24/11/2009
1161	Formwork and rebar fixing for decking	20 d	1/12/2010	20/12/2010	1/12/2010	20/12/2010
1162	Concreting (decking)	20 d	21/12/2010	9/1/2011	21/12/2010	9/1/2011
1163	Stripping off formwork (decking)	3 d	10/1/2011	12/1/2011	10/1/2011	12/1/2011
1164	Railing installation (decking)	5 d	13/1/2011	17/1/2011	13/1/2011	17/1/2011
1165	**Gabion (ch 215-220 LHS) TG2**	**30 d?**	**10/1/2009**	**8/2/2009**	**10/1/2009**	**8/2/2009**
1166	Trench excavation	8 d?	10/1/2009	17/1/2009	10/1/2009	17/1/2009
1167	Formation of gabion wall	1 d?	18/1/2009	18/1/2009	18/1/2009	18/1/2009
1168	Fabrication of gabion units	14 d?	21/1/2009	3/2/2009	21/1/2009	3/2/2009
1169	1st layer (ch 215-220 LHS)	4 d?	21/1/2009	24/1/2009	21/1/2009	24/1/2009
1170	2nd layer (ch 215-220 LHS)	3 d?	2/2/2009	4/2/2009	2/2/2009	4/2/2009
1171	3rd layer (ch 215-220 LHS)	1 d?	7/2/2009	7/2/2009	7/2/2009	7/2/2009
1172	4th layer (ch 215-220 LHS)	1 d?	8/2/2009	8/2/2009	8/2/2009	8/2/2009
1173	**Gabion (ch 210-225 RHS) TG1**	**42 d**	**1/2/2010**	**14/3/2010**	**1/2/2010**	**14/3/2010**
1174	Trench excavation and replacing grade 200	15 d	1/2/2010	15/2/2010	1/2/2010	15/2/2010
1175	Formation of gabion wall with G200	3 d	16/2/2010	18/2/2010	16/2/2010	16/2/2010
1176	1st layer - 5th layer (ch 185-225 LHS)	20 d	19/2/2010	10/3/2010	19/2/2010	10/3/2010
1177	G500 toe in front of gabion	4 d	11/3/2010	14/3/2010	11/3/2010	14/3/2010
1178	Area N	1026 d?	29/5/2008	20/3/2011	29/5/2008	20/3/2011



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Task | Task Progress | Critical Task | Critical Task Progress | Milestone | Summary | Rolled Up Task | Rolled Up Critical Task | Rolled Up Milestone | Rolled Up Progress | Split | External Tasks | PTask

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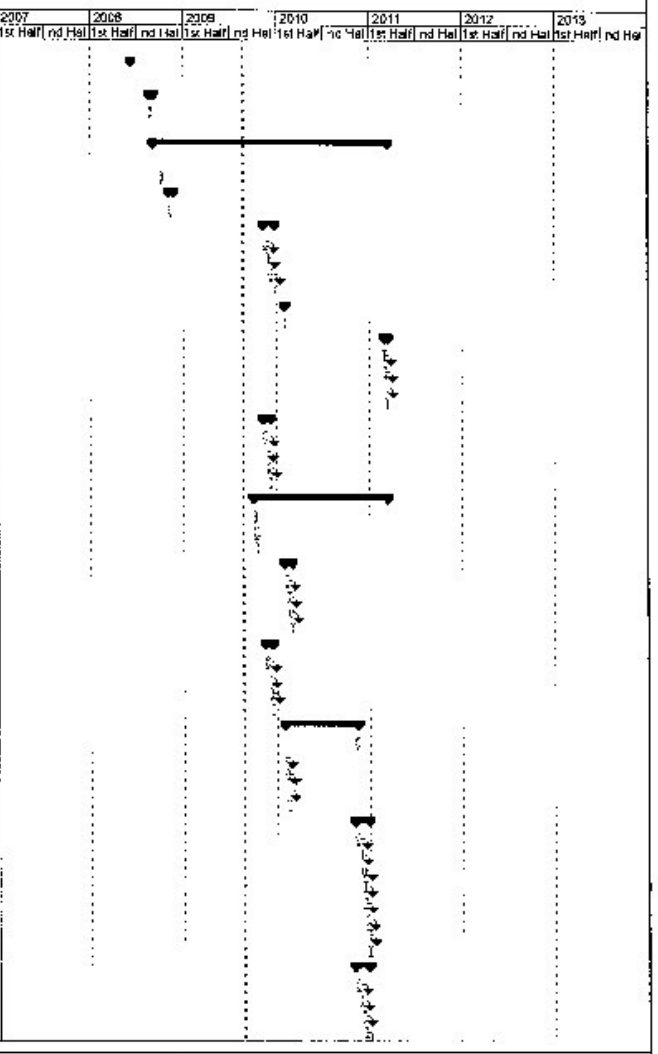
ID	Task Name	Duration	Early Start	Early Finish	Start	Finish
1179	Handover	1 d	29/5/2008	29/5/2008	29/5/2008	29/5/2008
1180	**Site Clearance for Initial Survey**	1 d?	9/6/2008	9/6/2008	9/6/2008	9/6/2008
1181	Ch 550-600	1 d?	9/6/2008	9/6/2008	9/6/2008	9/6/2008
1182	**Site Clearance**	18 d?	21/8/2008	4/9/2008	21/8/2008	4/9/2008
1183	Ch 550-600	7 d?	21/8/2008	27/8/2008	21/8/2008	27/8/2008
1184	Geological Mapping for TR5	1 d	4/9/2008	4/9/2008	4/9/2008	4/9/2008
1185	**Ch 230-260**	921 d?	5/9/2008	14/3/2011	5/9/2008	14/3/2011
1186	Site Clearance	1 d?	5/9/2008	5/9/2008	5/9/2008	5/9/2008
1187	Haul road formation	12 d?	30/9/2008	11/10/2008	30/9/2008	11/10/2008
1188	**Noise barrier**	18 d	5/11/2008	22/11/2008	5/11/2008	22/11/2008
1189	Ch 230-260 RHS Non-transparent	18 d	5/11/2008	22/11/2008	5/11/2008	22/11/2008
1190	**Gabion (ch 230-260 LHS) TG2**	47 d	9/11/2009	28/12/2009	9/11/2009	25/12/2009
1191	Trench excavation and replacing grade 200	20 d	9/11/2009	28/11/2009	9/11/2009	28/11/2009
1192	Formation of gabion wall with G200	3 d	29/11/2009	1/12/2009	29/11/2009	1/12/2009
1193	1st layer - 5th layer (ch 260-270 LHS)	20 d	2/12/2009	21/12/2009	2/12/2009	21/12/2009
1194	G500 toe in front of gabion	4 d	22/12/2009	25/12/2009	22/12/2009	25/12/2009
1195	**Maintainence Staircase (ch 240 LHS)**	6 d	1/2/2010	6/2/2010	1/2/2010	6/2/2010
1196	Formwork and concreting	6 d	1/2/2010	6/2/2010	1/2/2010	6/2/2010
1197	**Step 2 (ch 240) (1.8m)**	14 d	1/3/2011	14/3/2011	1/3/2011	14/3/2011
1198	Formation	3 d	1/3/2011	3/3/2011	1/3/2011	3/3/2011
1199	Formwork and rebar fixing	6 d	4/3/2011	9/3/2011	4/3/2011	9/3/2011
1200	Concreting	2 d	10/3/2011	11/3/2011	10/3/2011	11/3/2011
1201	Stripping off formwork	3 d	12/3/2011	14/3/2011	12/3/2011	14/3/2011
1202	**Gabion (ch 240-260 RHS) TG1**	39 d	9/11/2009	6/12/2009	9/11/2009	6/12/2009
1203	Trench excavation and replacing grade 200	15 d	9/11/2009	23/11/2009	9/11/2009	23/11/2009
1204	Formation of gabion wall with G200	2 d	24/11/2009	25/11/2009	24/11/2009	25/11/2009
1205	1st layer - 5th layer (ch 260-270 LHS)	10 d	26/11/2009	5/12/2009	26/11/2009	5/12/2009
1206	G500 toe in front of gabion	3 d	6/12/2009	8/12/2009	6/12/2009	9/12/2009
1207	**Ch 260-330**	529 d?	2/10/2009	14/3/2011	2/10/2009	14/3/2011
1208	Site Clearance	9 d?	2/10/2009	10/10/2009	2/10/2009	10/10/2009
1209	Haul road formation	25 d	2/10/2009	28/10/2009	2/10/2009	28/10/2009
1210	Water diversion	6 d	14/10/2009	19/10/2009	14/10/2009	19/10/2009
1211	**Gabion (ch 260-270 LHS) TG2**	30 d	1/2/2010	2/3/2010	1/2/2010	2/3/2010
1212	Trench excavation and replacing grade 200	15 d	1/2/2010	15/2/2010	1/2/2010	15/2/2010
1213	Formation of gabion wall with G200	2 d	16/2/2010	17/2/2010	16/2/2010	17/2/2010
1214	1st layer - 5th layer (ch 260-270 LHS)	10 d	18/2/2010	27/2/2010	18/2/2010	27/2/2010
1215	G500 toe in front of gabion	3 d	28/2/2010	2/3/2010	28/2/2010	2/3/2010
1216	**Gabion (ch 260-270 RHS) TG1**	30 d	16/11/2009	16/12/2009	16/11/2009	16/12/2009
1217	Trench excavation and replacing grade 200	15 d	16/11/2009	30/11/2009	16/11/2009	30/11/2009
1218	Formation of gabion wall with G200	2 d	1/12/2009	2/12/2009	1/12/2009	2/12/2009
1219	1st layer - 5th layer (ch 260-270 LHS)	10 d	3/12/2009	12/12/2009	3/12/2009	12/12/2009
1220	G500 toe in front of gabion	3 d	13/12/2009	15/12/2009	13/12/2009	15/12/2009
1221	**Cascades (ch 270)**	289 d	1/2/2010	16/11/2010	1/2/2010	16/11/2010
1222	Trench excavation and replacing grade 200	15 d	2/11/2010	16/11/2010	2/11/2010	16/11/2010
1223	Formation of gabion wall with G200	2 d	1/2/2010	2/2/2010	1/2/2010	2/2/2010
1224	Formwork and rebar fixing	10 d	3/2/2010	12/2/2010	3/2/2010	12/2/2010
1225	Concreting	1 d	13/2/2010	13/2/2010	13/2/2010	13/2/2010
1226	Stripping off formwork	3 d	14/2/2010	16/2/2010	14/2/2010	16/2/2010
1227	**Retaining Wall (ch 270-315 LHS) TR1 (replaced by AD1)**	57 d	1/11/2010	27/12/2010	1/11/2010	27/12/2010
1228	Bulk excavation	20 d	1/11/2010	20/11/2010	1/11/2010	20/11/2010
1229	Formation	5 d	21/11/2010	25/11/2010	21/11/2010	25/11/2010
1230	Formwork and rebar fixing (base slab)	12 d	26/11/2010	7/12/2010	26/11/2010	7/12/2010
1231	Concreting (base slab)	3 d	8/12/2010	10/12/2010	8/12/2010	10/12/2010
1232	Stripping off formwork (wall stem)	2 d	11/12/2010	12/12/2010	11/12/2010	12/12/2010
1233	Formwork and rebar fixing (wall stem)	10 d	13/12/2010	22/12/2010	13/12/2010	22/12/2010
1234	Concreting (wall stem)	2 d	23/12/2010	24/12/2010	23/12/2010	24/12/2010
1235	Stripping off formwork (wall stem)	3 d	25/12/2010	27/12/2010	25/12/2010	27/12/2010
1236	**Retaining Wall (ch 270-315 RHS) TR1 (replaced by AD1)**	57 d	1/11/2010	27/12/2010	1/11/2010	27/12/2010
1237	Bulk excavation	20 d	1/11/2010	20/11/2010	1/11/2010	20/11/2010
1238	Formation	5 d	21/11/2010	25/11/2010	21/11/2010	25/11/2010
1239	Formwork and rebar fixing (base slab)	12 d	26/11/2010	7/12/2010	26/11/2010	7/12/2010
1240	Concreting (base slab)	3 d	8/12/2010	10/12/2010	8/12/2010	10/12/2010



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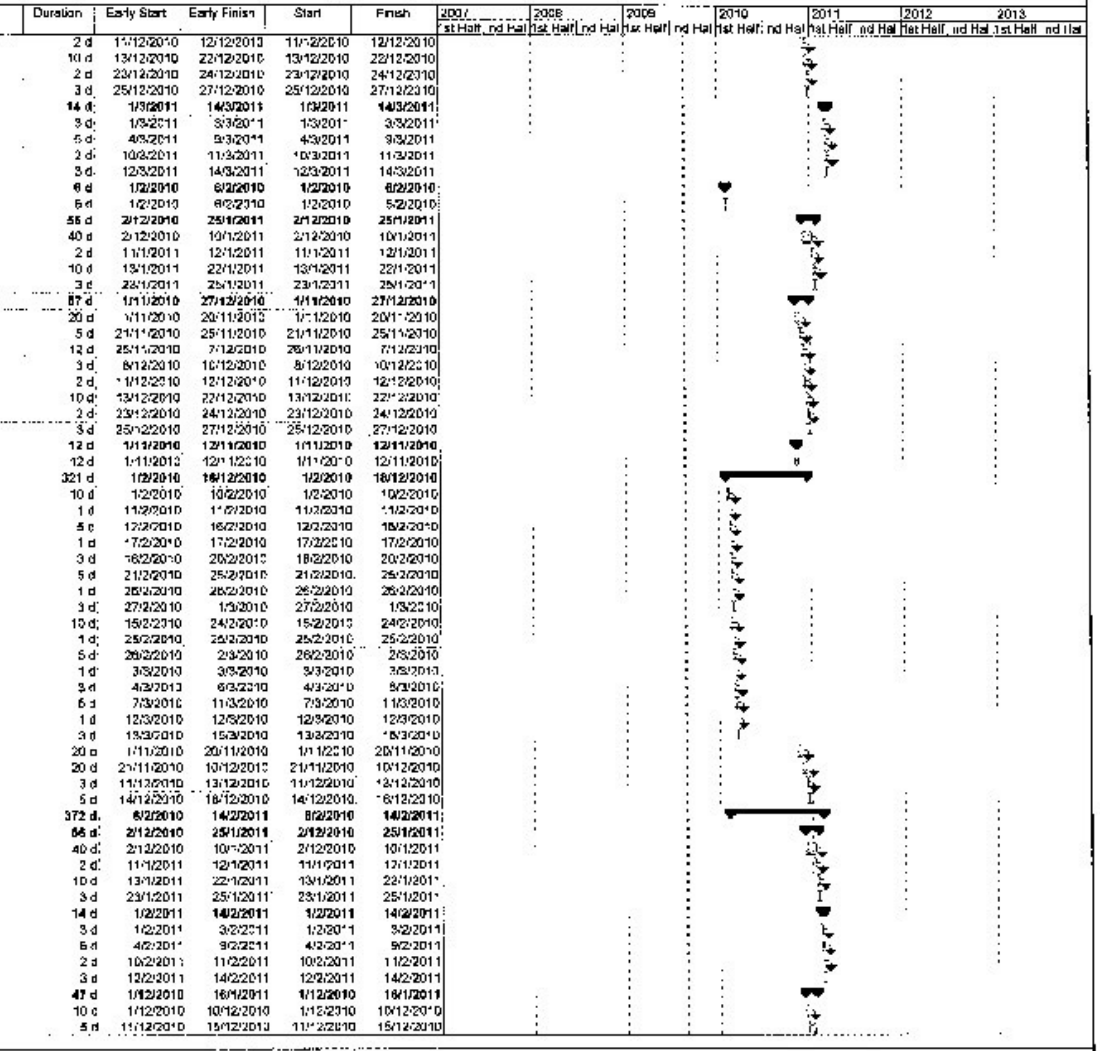
ID	Task Name	Duration	Early Start	Early Finish	Start	Finish
1241	Stripping off formwork (wall stem)	2 d	11/12/2010	12/12/2010	11/12/2010	12/12/2010
1242	Formwork and rebar fixing (wall stem)	10 d	13/12/2010	22/12/2010	13/12/2010	22/12/2010
1243	Concreting (wall stem)	2 d	23/12/2010	24/12/2010	23/12/2010	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**	**1/3/2011**	**14/3/2011**	**1/3/2011**	**14/3/2011**
1246	Formation	3 d	1/3/2011	3/3/2011	1/3/2011	3/3/2011
1247	Formwork and rebar fixing	5 d	4/3/2011	9/3/2011	4/3/2011	9/3/2011
1248	Concreting	2 d	10/3/2011	11/3/2011	10/3/2011	11/3/2011
1249	Stripping off formwork	3 d	12/3/2011	14/3/2011	12/3/2011	14/3/2011
1250	**Maintainence Staircase (ch 315 LHS)**	**6 d**	**1/2/2010**	**6/2/2010**	**1/2/2010**	**6/2/2010**
1251	Formwork and concreting	6 d	1/2/2010	6/2/2010	1/2/2010	5/2/2010
1252	**Gabion (ch 315-330 LHS) TG2 (replaced AD1)**	**55 d**	**2/12/2010**	**25/1/2011**	**2/12/2010**	**25/1/2011**
1253	Trench excavation and replacing grade 200	40 d	2/12/2010	10/1/2011	2/12/2010	10/1/2011
1254	Formation of gabion wall with G200	2 d	11/1/2011	12/1/2011	11/1/2011	12/1/2011
1255	1st layer - 5th layer (ch 315-330 LHS)	10 d	13/1/2011	22/1/2011	13/1/2011	22/1/2011
1256	G500 toe in front of gabion	3 d	23/1/2011	25/1/2011	23/1/2011	25/1/2011
1257	**Retaining Wall (ch 315-330 RHS) TR1 (replaced by AD1)**	**87 d**	**1/11/2010**	**27/12/2010**	**1/11/2010**	**27/12/2010**
1258	Bulk excavation	20 d	1/11/2010	20/11/2010	1/11/2010	20/11/2010
1259	Formation	5 d	21/11/2010	25/11/2010	21/11/2010	25/11/2010
1260	Formwork and rebar fixing (base slab)	12 d	25/11/2010	7/12/2010	25/11/2010	7/12/2010
1261	Concreting (base slab)	3 d	8/12/2010	10/12/2010	8/12/2010	10/12/2010
1262	Stripping off formwork (wall stem)	2 d	11/12/2010	12/12/2010	11/12/2010	12/12/2010
1263	Formwork and rebar fixing (wall stem)	10 d	13/12/2010	22/12/2010	13/12/2010	22/12/2010
1264	Concreting (wall stem)	2 d	23/12/2010	24/12/2010	23/12/2010	24/12/2010
1265	Stripping off formwork (wall stem)	3 d	25/12/2010	27/12/2010	25/12/2010	27/12/2010
1266	**Demolition of existing Footbridge TB-A (ch 325)**	**12 d**	**1/11/2010**	**12/11/2010**	**1/11/2010**	**12/11/2010**
1267	Demolition works	12 d	1/11/2010	12/11/2010	1/11/2010	12/11/2010
1268	**Footbridge TB04 (ch 330)**	**321 d**	**1/2/2010**	**16/12/2010**	**1/2/2010**	**16/12/2010**
1269	Bulk excavation for footing (Abutment A)	10 d	1/2/2010	10/2/2010	1/2/2010	10/2/2010
1270	Formation - Abutment A	1 d	11/2/2010	11/2/2010	11/2/2010	11/2/2010
1271	Formwork and rebar fixing (Abutment A footing)	5 d	12/2/2010	16/2/2010	12/2/2010	16/2/2010
1272	Concreting (Abutment A, footing)	1 d	17/2/2010	17/2/2010	17/2/2010	17/2/2010
1273	Stripping off formwork (Abutment A, footing)	3 d	18/2/2010	20/2/2010	18/2/2010	20/2/2010
1274	Rebar fixing and shuttering formwork (Abutment A, column)	5 d	21/2/2010	25/2/2010	21/2/2010	25/2/2010
1275	Concreting (Abutment A, column)	1 d	26/2/2010	26/2/2010	26/2/2010	26/2/2010
1276	Stripping off formwork (Abutment A, column)	3 d	27/2/2010	1/3/2010	27/2/2010	1/3/2010
1277	Bulk excavation for footing (Abutment B)	10 d	15/2/2010	24/2/2010	15/2/2010	24/2/2010
1278	Formation - Abutment B	1 d	25/2/2010	25/2/2010	25/2/2010	25/2/2010
1279	Formwork and rebar fixing (Abutment B, footing)	5 d	26/2/2010	2/3/2010	26/2/2010	2/3/2010
1280	Concreting (Abutment B, footing)	1 d	3/3/2010	3/3/2010	3/3/2010	3/3/2010
1281	Stripping off formwork (Abutment B, footing)	3 d	4/3/2010	6/3/2010	4/3/2010	6/3/2010
1282	Rebar fixing and shuttering formwork (Abutment B, column)	5 d	7/3/2010	11/3/2010	7/3/2010	11/3/2010
1283	Concreting (Abutment B, column)	1 d	12/3/2010	12/3/2010	12/3/2010	12/3/2010
1284	Stripping off formwork (Abutment B, column)	3 d	13/3/2010	15/3/2010	13/3/2010	15/3/2010
1285	Formwork and rebar fixing for decking	20 d	1/11/2010	20/11/2010	1/11/2010	20/11/2010
1286	Concreting (decking)	20 d	21/11/2010	10/12/2010	21/11/2010	10/12/2010
1287	Stripping off formwork (decking)	3 d	11/12/2010	13/12/2010	11/12/2010	13/12/2010
1288	Railing installation (decking)	5 d	14/12/2010	16/12/2010	14/12/2010	16/12/2010
1289	**Ch 330-350**	**372 d**	**6/2/2010**	**14/2/2011**	**6/2/2010**	**14/2/2011**
1290	**Gabion (ch 330-345 LHS) TG3 (replaced AD1)**	**56 d**	**2/12/2010**	**25/1/2011**	**2/12/2010**	**25/1/2011**
1291	Trench excavation and replacing grade 200	40 d	2/12/2010	10/1/2011	2/12/2010	10/1/2011
1292	Formation of gabion wall with G200	2 d	11/1/2011	12/1/2011	11/1/2011	12/1/2011
1293	1st layer - 5th layer (ch 330-345 LHS)	10 d	13/1/2011	22/1/2011	13/1/2011	22/1/2011
1294	G500 toe in front of gabion	3 d	23/1/2011	25/1/2011	23/1/2011	25/1/2011
1295	**Step 4 (ch 345) (1.4m)**	**14 d**	**1/2/2011**	**14/2/2011**	**1/2/2011**	**14/2/2011**
1296	Formation	3 d	1/2/2011	3/2/2011	1/2/2011	3/2/2011
1297	Formwork and rebar fixing	5 d	4/2/2011	9/2/2011	4/2/2011	9/2/2011
1298	Concreting	2 d	10/2/2011	11/2/2011	10/2/2011	11/2/2011
1299	Stripping off formwork	3 d	12/2/2011	14/2/2011	12/2/2011	14/2/2011
1300	**Retaining Wall (ch 345-350 LHS) TR1 (replaced by AD1)**	**47 d**	**1/12/2010**	**16/1/2011**	**1/12/2010**	**16/1/2011**
1301	Bulk excavation	10 d	1/12/2010	10/12/2010	1/12/2010	10/12/2010
1302	Formation	5 d	11/12/2010	15/12/2010	11/12/2010	15/12/2010



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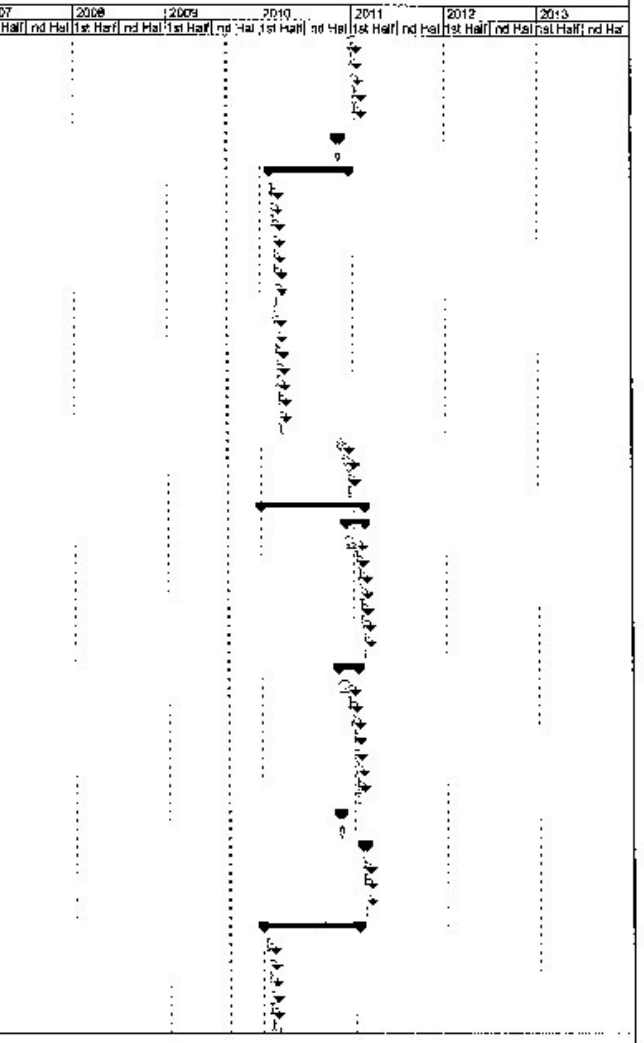
1303	Formwork and rebar fixing (base slab)	12 d	15/12/2010	27/12/2010	16/12/2010	27/12/2010
1304	Concreting (base slab)	3 d	28/12/2010	30/12/2010	28/12/2010	30/12/2010
1305	Stripping off formwork (wall stem)	2 d	31/12/2010	1/1/2011	31/12/2010	1/1/2011
1306	Formwork and rebar fixing (wall stem)	10 d	2/1/2011	11/1/2011	2/1/2011	11/1/2011
1307	Concreting (wall stem)	2 d	12/1/2011	13/1/2011	12/1/2011	13/1/2011
1308	Stripping off formwork (wall stem)	3 d	14/1/2011	16/1/2011	14/1/2011	16/1/2011
1309	**Demolition of existing Footbridge TB-B (ch 350)**	**12 d**	**1/11/2010**	**12/11/2010**	**1/11/2010**	**12/11/2010**
1310	Demolition works	12 d	1/11/2010	12/11/2010	1/11/2010	12/11/2010
1311	**Footbridge TB05 (ch 350)**	**314 d**	**8/2/2010**	**18/12/2010**	**8/2/2010**	**18/12/2010**
1312	Bulk excavation for footing (Abutment A)	10 d	8/2/2010	17/2/2010	8/2/2010	17/2/2010
1313	Formation - Abutment A	1 d	18/2/2010	18/2/2010	18/2/2010	18/2/2010
1314	Formwork and rebar fixing (Abutment A, footing)	5 d	19/2/2010	23/2/2010	19/2/2010	23/2/2010
1315	Concreting (Abutment A, footing)	1 d	24/2/2010	24/2/2010	24/2/2010	24/2/2010
1316	Stripping off formwork (Abutment A, footing)	3 d	25/2/2010	27/2/2010	25/2/2010	27/2/2010
1317	Rebar fixing and shuttering formwork (Abutment A, column)	5 d	28/2/2010	4/3/2010	28/2/2010	4/3/2010
1318	Concreting (Abutment A, column)	1 d	5/3/2010	5/3/2010	5/3/2010	5/3/2010
1319	Stripping off formwork (Abutment A, column)	3 d	6/3/2010	8/3/2010	6/3/2010	8/3/2010
1320	Bulk excavation for footing (Abutment B)	10 d	22/2/2010	3/3/2010	22/2/2010	3/3/2010
1321	Formation - Abutment B	1 d	4/3/2010	4/3/2010	4/3/2010	4/3/2010
1322	Formwork and rebar fixing (Abutment B, footing)	5 d	5/3/2010	9/3/2010	5/3/2010	9/3/2010
1323	Concreting (Abutment B, footing)	1 d	10/3/2010	10/3/2010	10/3/2010	10/3/2010
1324	Stripping off formwork (Abutment B, footing)	3 d	11/3/2010	13/3/2010	11/3/2010	13/3/2010
1325	Rebar fixing and shuttering formwork (Abutment B, column)	5 d	14/3/2010	18/3/2010	14/3/2010	18/3/2010
1326	Concreting (Abutment B, column)	1 d	19/3/2010	19/3/2010	19/3/2010	19/3/2010
1327	Stripping off formwork (Abutment B, column)	3 d	20/3/2010	22/3/2010	20/3/2010	22/3/2010
1328	Formwork and rebar fixing for decking	20 d	1/11/2010	26/11/2010	1/11/2010	26/11/2010
1329	Concreting (decking)	20 d	21/11/2010	10/12/2010	21/11/2010	10/12/2010
1330	Stripping off formwork (decking)	3 d	11/12/2010	13/12/2010	11/12/2010	13/12/2010
1331	Railing installation (decking)	5 d	14/12/2010	18/12/2010	14/12/2010	18/12/2010
1332	**Ch 350-400**	**410 d**	**2/1/2010**	**15/2/2011**	**2/1/2010**	**15/2/2011**
1333	**Retaining Wall (ch 350-400 LHS) TR1 (replaced by AD1)**	**77 d**	**1/12/2010**	**15/2/2011**	**1/12/2010**	**15/2/2011**
1334	Bulk excavation	40 d	1/12/2010	9/1/2011	1/12/2010	9/1/2011
1335	Formation	5 d	10/1/2011	14/1/2011	10/1/2011	14/1/2011
1336	Formwork and rebar fixing (base slab)	12 d	15/1/2011	25/1/2011	15/1/2011	26/1/2011
1337	Concreting (base slab)	3 d	27/1/2011	29/1/2011	27/1/2011	29/1/2011
1338	Stripping off formwork (wall stem)	2 d	30/1/2011	31/1/2011	30/1/2011	31/1/2011
1339	Formwork and rebar fixing (wall stem)	10 d	1/2/2011	10/2/2011	1/2/2011	10/2/2011
1340	Concreting (wall stem)	2 d	11/2/2011	12/2/2011	11/2/2011	12/2/2011
1341	Stripping off formwork (wall stem)	3 d	13/2/2011	15/2/2011	13/2/2011	15/2/2011
1342	**Retaining Wall (ch 350-400 RHS) TR1 (replaced by AD1)**	**77 d**	**1/11/2010**	**16/1/2011**	**1/11/2010**	**16/1/2011**
1343	Bulk excavation	40 d	1/11/2010	30/12/2010	1/11/2010	15/12/2010
1344	Formation	5 d	11/12/2010	15/12/2010	11/12/2010	15/12/2010
1345	Formwork and rebar fixing (base slab)	12 d	16/12/2010	27/12/2010	16/12/2010	27/12/2010
1346	Concreting (base slab)	3 d	28/12/2010	30/12/2010	28/12/2010	30/12/2010
1347	Stripping off formwork (wall stem)	2 d	31/12/2010	1/1/2011	31/12/2010	1/1/2011
1348	Formwork and rebar fixing (wall stem)	10 d	2/1/2011	11/1/2011	2/1/2011	11/1/2011
1349	Concreting (wall stem)	2 d	12/1/2011	13/1/2011	12/1/2011	13/1/2011
1350	Stripping off formwork (wall stem)	3 d	14/1/2011	16/1/2011	14/1/2011	16/1/2011
1351	**Demolition of existing Footbridge TB-C (ch 390)**	**12 d**	**1/11/2010**	**12/11/2010**	**1/11/2010**	**12/11/2010**
1352	Demolition works	12 d	1/11/2010	12/11/2010	1/11/2010	12/11/2010
1353	**Step 5 (ch 400) (1.4m)**	**14 d**	**1/2/2011**	**14/2/2011**	**1/2/2011**	**14/2/2011**
1354	Formation	3 d	1/2/2011	3/2/2011	1/2/2011	3/2/2011
1355	Formwork and rebar fixing	6 d	4/2/2011	9/2/2011	4/2/2011	9/2/2011
1356	Concreting	2 d	10/2/2011	11/2/2011	10/2/2011	11/2/2011
1357	Stripping off formwork	3 d	12/2/2011	14/2/2011	12/2/2011	14/2/2011
1358	**Footbridge TB06 (ch 400)**	**381 d**	**2/1/2010**	**17/1/2011**	**2/1/2010**	**17/1/2011**
1359	Bulk excavation for footing (Abutment A)	10 d	15/1/2010	24/1/2010	15/1/2010	24/1/2010
1360	Formation - Abutment A	1 d	25/1/2010	25/1/2010	25/1/2010	25/1/2010
1361	Formwork and rebar fixing (Abutment A, footing)	5 d	26/1/2010	30/1/2010	26/1/2010	30/1/2010
1362	Concreting (Abutment A, footing)	1 d	31/1/2010	31/1/2010	31/1/2010	31/1/2010
1363	Stripping off formwork (Abutment A, footing)	3 d	1/2/2010	3/2/2010	1/2/2010	3/2/2010
1364	Rebar fixing and shuttering formwork (Abutment A, column)	5 d	4/2/2010	8/2/2010	4/2/2010	8/2/2010



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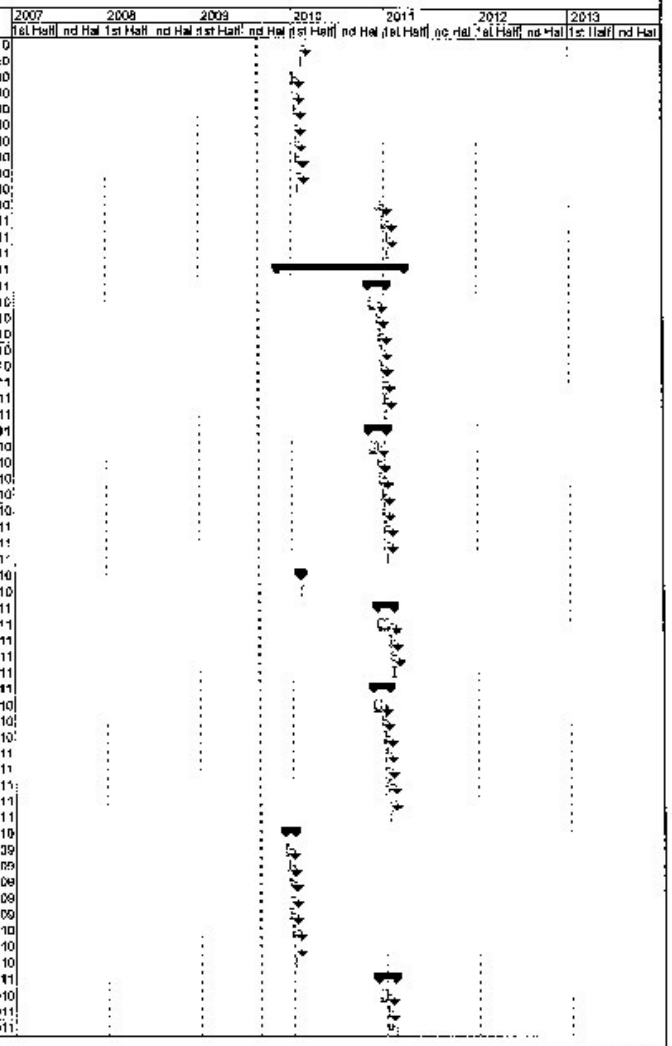
1365	Concreting (Abutment A, column)	1 d	9/2/2010	9/2/2010	9/2/2010	9/2/2010
1366	Stripping off formwork (Abutment A, column)	3 d	10/2/2010	12/2/2010	10/2/2010	12/2/2010
1367	Bulk excavation for footing (Abutment B)	10 d	2/1/2010	11/1/2010	2/1/2010	11/1/2010
1368	Formation - Abutment B	1 d	12/1/2010	12/1/2010	12/1/2010	12/1/2010
1369	Formwork and rebar fixing (Abutment B, footing)	5 d	13/1/2010	17/1/2010	13/1/2010	17/1/2010
1370	Concreting (Abutment B, footing)	1 d	18/1/2010	18/1/2010	18/1/2010	18/1/2010
1371	Stripping off formwork (Abutment B, footing)	3 d	19/1/2010	21/1/2010	19/1/2010	21/1/2010
1372	Rebar fixing and shuttering formwork (Abutment B, column)	6 d	22/1/2010	28/1/2010	22/1/2010	28/1/2010
1373	Concreting (Abutment B, column)	1 d	27/1/2010	27/1/2010	27/1/2010	27/1/2010
1374	Stripping off formwork (Abutment B, column)	3 d	28/1/2010	30/1/2010	28/1/2010	30/1/2010
1375	Formwork and rebar fixing for decking	20 d	1/12/2010	20/12/2010	1/12/2010	20/12/2010
1376	Concreting (decking)	20 d	21/12/2010	9/1/2011	21/12/2010	9/1/2011
1377	Stripping off formwork (decking)	3 d	10/1/2011	12/1/2011	10/1/2011	12/1/2011
1378	Railing installation (decking)	5 d	13/1/2011	17/1/2011	13/1/2011	17/1/2011
1379	**Ch 400-525**	**497 d**	**9/11/2009**	**20/3/2011**	**9/11/2009**	**20/3/2011**
1380	**Retaining Wall (ch 400-420 LHS) TR1 (replaced by AD1)**	**57 d**	**1/11/2010**	**5/1/2011**	**1/11/2010**	**5/1/2011**
1381	Bulk excavation	30 d	1/11/2010	30/11/2010	1/11/2010	30/11/2010
1382	Formation	5 d	1/12/2010	5/12/2010	1/12/2010	5/12/2010
1383	Formwork and rebar fixing (base slab)	12 d	6/12/2010	17/12/2010	6/12/2010	17/12/2010
1384	Concreting (base slab)	3 d	18/12/2010	20/12/2010	18/12/2010	20/12/2010
1385	Stripping off formwork (wall stem)	2 d	21/12/2010	22/12/2010	21/12/2010	22/12/2010
1386	Formwork and rebar fixing (wall stem)	10 d	23/12/2010	1/1/2011	23/12/2010	1/1/2011
1387	Concreting (wall stem)	2 d	2/1/2011	3/1/2011	2/1/2011	3/1/2011
1388	Stripping off formwork (wall stem)	3 d	4/1/2011	6/1/2011	4/1/2011	6/1/2011
1389	**Retaining Wall (ch 405-435 RHS) TR1 (replaced by AD1)**	**72 d**	**1/11/2010**	**11/1/2011**	**1/11/2010**	**11/1/2011**
1390	Bulk excavation	35 d	1/11/2010	5/12/2010	1/11/2010	5/12/2010
1391	Formation	5 d	6/12/2010	10/12/2010	6/12/2010	10/12/2010
1392	Formwork and rebar fixing (base slab)	12 d	11/12/2010	22/12/2010	11/12/2010	22/12/2010
1393	Concreting (base slab)	3 d	23/12/2010	25/12/2010	23/12/2010	25/12/2010
1394	Stripping off formwork (wall stem)	2 d	26/12/2010	27/12/2010	26/12/2010	27/12/2010
1395	Formwork and rebar fixing (wall stem)	10 d	28/12/2010	5/1/2011	28/12/2010	6/1/2011
1396	Concreting (wall stem)	2 d	7/1/2011	8/1/2011	7/1/2011	8/1/2011
1397	Stripping off formwork (wall stem)	3 d	9/1/2011	11/1/2011	9/1/2011	11/1/2011
1398	**Maintainance Staircase (ch 420 LHS)**	**6 d**	**1/2/2010**	**6/2/2010**	**1/2/2010**	**6/2/2010**
1399	Formwork and concreting	6 d	1/2/2010	6/2/2010	1/2/2010	6/2/2010
1400	**Gabion (ch 420-480 LHS) TG2 (replaced AD1)**	**65 d**	**2/12/2010**	**4/2/2011**	**2/12/2010**	**4/2/2011**
1401	Trench excavation and replacing grade 200	50 d	2/12/2010	20/1/2011	2/12/2010	20/1/2011
1402	Formation of gabion wall with G200	2 d	21/1/2011	22/1/2011	21/1/2011	22/1/2011
1403	1st layer - 5th layer (ch 420-450 LHS)	10 d	23/1/2011	1/2/2011	23/1/2011	1/2/2011
1404	G500 toe in front of gabion	3 d	2/2/2011	4/2/2011	2/2/2011	4/2/2011
1405	**Retaining Wall (ch 435-450 RHS) TR2 (replaced by AD1)**	**67 d**	**15/11/2010**	**20/1/2011**	**15/11/2010**	**20/1/2011**
1406	Bulk excavation	30 d	15/11/2010	14/12/2010	15/11/2010	14/12/2010
1407	Formation	5 d	15/12/2010	19/12/2010	15/12/2010	19/12/2010
1408	Formwork and rebar fixing (base slab)	12 d	20/12/2010	31/12/2010	20/12/2010	31/12/2010
1409	Concreting (base slab)	3 d	1/1/2011	3/1/2011	1/1/2011	3/1/2011
1410	Stripping off formwork (wall stem)	2 d	4/1/2011	5/1/2011	4/1/2011	5/1/2011
1411	Formwork and rebar fixing (wall stem)	10 d	6/1/2011	15/1/2011	6/1/2011	15/1/2011
1412	Concreting (wall stem)	2 d	16/1/2011	17/1/2011	16/1/2011	17/1/2011
1413	Stripping off formwork (wall stem)	3 d	18/1/2011	20/1/2011	18/1/2011	20/1/2011
1414	**Box Culvert TB01 (ch 460)**	**39 d**	**1/12/2009**	**8/1/2010**	**1/12/2009**	**8/1/2010**
1415	Bulk excavation	10 d	1/12/2009	10/12/2009	1/12/2009	10/12/2009
1416	Formation of box culvert	3 d	11/12/2009	13/12/2009	11/12/2009	13/12/2009
1417	Formwork and rebar fixing (base slab)	5 d	14/12/2009	18/12/2009	14/12/2009	18/12/2009
1418	Concreting (base slab)	2 d	19/12/2009	20/12/2009	19/12/2009	20/12/2009
1419	Stripping off formwork (base slab)	2 d	21/12/2009	22/12/2009	21/12/2009	22/12/2009
1420	Formwork and rebar fixing (wall stem and roof slab)	12 d	23/12/2009	3/1/2010	23/12/2009	3/1/2010
1421	Concreting (wall stem and roof slab)	2 d	4/1/2010	5/1/2010	4/1/2010	5/1/2010
1422	Stripping off formwork	3 d	6/1/2010	8/1/2010	6/1/2010	8/1/2010
1423	**Retaining Wall (ch 450-480 LHS) TR2**	**87 d**	**1/12/2010**	**5/2/2011**	**1/12/2010**	**5/2/2011**
1424	Bulk excavation	30 d	1/12/2010	30/12/2010	1/12/2010	30/12/2010
1425	Formation	5 d	31/12/2010	4/1/2011	31/12/2010	4/1/2011
1426	Formwork and rebar fixing (base slab)	12 d	5/1/2011	18/1/2011	5/1/2011	18/1/2011



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ID	Task Name	Duration	Early Start	Early Finish	Start	Finish
1427	Concreting (base slab)	3 d	17/1/2011	19/1/2011	17/1/2011	19/1/2011
1428	Stripping off formwork (wall stem)	2 d	20/1/2011	21/1/2011	20/1/2011	21/1/2011
1429	Formwork and rebar fixing (wall stem)	10 d	22/1/2011	31/1/2011	22/1/2011	31/1/2011
1430	Concreting (wall stem)	2 d	1/2/2011	2/2/2011	1/2/2011	2/2/2011
1431	Stripping off formwork (wall stem)	3 d	3/2/2011	5/2/2011	3/2/2011	5/2/2011
1432	**Step 6 (ch 480) (1.0m)**	**14 d**	**1/3/2011**	**14/3/2011**	**1/3/2011**	**14/3/2011**
1433	Formation	3 d	1/3/2011	3/3/2011	1/3/2011	3/3/2011
1434	Formwork and rebar fixing	6 d	4/3/2011	9/3/2011	4/3/2011	9/3/2011
1435	Concreting	2 d	10/3/2011	11/3/2011	10/3/2011	11/3/2011
1436	Stripping off formwork	3 d	12/3/2011	14/3/2011	12/3/2011	14/3/2011
1437	**Retaining Wall (ch 460-500 LHS) TR2**	**57 d**	**6/12/2010**	**25/1/2011**	**1/12/2010**	**26/1/2011**
1438	Bulk excavation	20 d	1/12/2010	20/12/2010	1/12/2010	20/12/2010
1439	Formation	5 d	21/12/2010	25/12/2010	21/12/2010	25/12/2010
1440	Formwork and rebar fixing (base slab)	12 d	26/12/2010	6/1/2011	26/12/2010	5/1/2011
1441	Concreting (base slab)	3 d	7/1/2011	9/1/2011	7/1/2011	9/1/2011
1442	Stripping off formwork (wall stem)	2 d	10/1/2011	11/1/2011	10/1/2011	11/1/2011
1443	Formwork and rebar fixing (wall stem)	10 d	12/1/2011	21/1/2011	12/1/2011	21/1/2011
1444	Concreting (wall stem)	2 d	22/1/2011	23/1/2011	22/1/2011	23/1/2011
1445	Stripping off formwork (wall stem)	3 d	24/1/2011	26/1/2011	24/1/2011	26/1/2011
1446	**Retaining Wall (ch 450-500 RHS) TR2**	**87 d**	**2/1/2010**	**28/3/2010**	**2/1/2010**	**28/3/2010**
1447	Bulk excavation	50 d	2/1/2010	22/2/2010	2/1/2010	20/2/2010
1448	Formation	5 d	21/2/2010	25/2/2010	21/2/2010	25/2/2010
1449	Formwork and rebar fixing (base slab)	12 d	26/2/2010	9/3/2010	26/2/2010	9/3/2010
1450	Concreting (base slab)	3 d	10/3/2010	12/3/2010	10/3/2010	12/3/2010
1451	Stripping off formwork (wall stem)	2 d	13/3/2010	14/3/2010	13/3/2010	14/3/2010
1452	Formwork and rebar fixing (wall stem)	10 d	15/3/2010	24/3/2010	15/3/2010	24/3/2010
1453	Concreting (wall stem)	2 d	25/3/2010	26/3/2010	25/3/2010	26/3/2010
1454	Stripping off formwork (wall stem)	3 d	27/3/2010	28/3/2010	27/3/2010	28/3/2010
1455	**Retaining Wall (ch 500-530 LHS) TR3**	**57 d**	**1/12/2010**	**26/1/2011**	**1/12/2010**	**26/1/2011**
1456	Bulk excavation	20 d	1/12/2010	20/12/2010	1/12/2010	20/12/2010
1457	Formation	5 d	21/12/2010	25/12/2010	21/12/2010	25/12/2010
1458	Formwork and rebar fixing (base slab)	12 d	26/12/2010	6/1/2011	26/12/2010	6/1/2011
1459	Concreting (base slab)	3 d	7/1/2011	9/1/2011	7/1/2011	9/1/2011
1460	Stripping off formwork (wall stem)	2 d	10/1/2011	11/1/2011	10/1/2011	11/1/2011
1461	Formwork and rebar fixing (wall stem)	10 d	12/1/2011	21/1/2011	12/1/2011	21/1/2011
1462	Concreting (wall stem)	2 d	22/1/2011	23/1/2011	22/1/2011	23/1/2011
1463	Stripping off formwork (wall stem)	3 d	24/1/2011	26/1/2011	24/1/2011	26/1/2011
1464	**Retaining Wall (ch 500-530 RHS) TR3**	**87 d**	**2/1/2010**	**9/3/2010**	**2/1/2010**	**9/3/2010**
1465	Bulk excavation	30 d	2/1/2010	31/1/2010	2/1/2010	31/1/2010
1466	Formation	5 d	1/2/2010	5/2/2010	1/2/2010	5/2/2010
1467	Formwork and rebar fixing (base slab)	12 d	6/2/2010	17/2/2010	6/2/2010	17/2/2010
1468	Concreting (base slab)	3 d	18/2/2010	20/2/2010	18/2/2010	20/2/2010
1469	Stripping off formwork (wall stem)	2 d	21/2/2010	22/2/2010	21/2/2010	22/2/2010
1470	Formwork and rebar fixing (wall stem)	10 d	23/2/2010	4/3/2010	23/2/2010	4/3/2010
1471	Concreting (wall stem)	2 d	5/3/2010	6/3/2010	5/3/2010	6/3/2010
1472	Stripping off formwork (wall stem)	3 d	7/3/2010	9/3/2010	7/3/2010	9/3/2010
1473	**Demolition of existing Footbridge TB-D (ch 525)**	**12 d**	**1/11/2010**	**12/11/2010**	**1/11/2010**	**12/11/2010**
1474	Demolition works	12 d	1/11/2010	12/11/2010	1/11/2010	12/11/2010
1475	**Footbridge TB07 (ch 525)**	**497 d**	**9/11/2009**	**20/3/2011**	**9/11/2009**	**20/3/2011**
1476	Bulk excavation for footing (Abutment A)	10 d	9/11/2009	18/11/2009	9/11/2009	18/11/2009
1477	Formation - Abutment A	1 d	19/11/2009	19/11/2009	19/11/2009	19/11/2009
1478	Formwork and rebar fixing (Abutment A, footing)	5 d	20/11/2009	24/11/2009	20/11/2009	24/11/2009
1479	Concreting (Abutment A, footing)	1 d	25/11/2009	25/11/2009	25/11/2009	25/11/2009
1480	Stripping off formwork (Abutment A, footing)	3 d	26/11/2009	28/11/2009	26/11/2009	29/11/2009
1481	Rebar fixing and shuttering formwork (Abutment A, column)	5 d	29/11/2009	3/12/2009	29/11/2009	3/12/2009
1482	Concreting (Abutment A, column)	1 d	4/12/2009	4/12/2009	4/12/2009	4/12/2009
1483	Stripping off formwork (Abutment A column)	3 d	5/12/2009	7/12/2009	5/12/2009	7/12/2009
1484	Bulk excavation for footing (Abutment B)	10 d	1/12/2009	10/12/2009	1/12/2009	10/12/2009
1485	Formation - Abutment B	1 d	11/12/2009	11/12/2009	11/12/2009	11/12/2009
1486	Formwork and rebar fixing (Abutment B footing)	5 d	12/12/2009	16/12/2009	12/12/2009	16/12/2009
1487	Concreting (Abutment B, footing)	1 d	17/12/2009	17/12/2009	17/12/2009	17/12/2009
1488	Stripping off formwork (Abutment B footing)	3 d	18/12/2009	20/12/2009	18/12/2009	20/12/2009

2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013
1st Half | nd Half | 1st Half | nd Half | 1st Half | nd Half | 1st Half | nd Half | 1st Half | nd Half | 1st Half | nd Half | 1st Half | nd Hal

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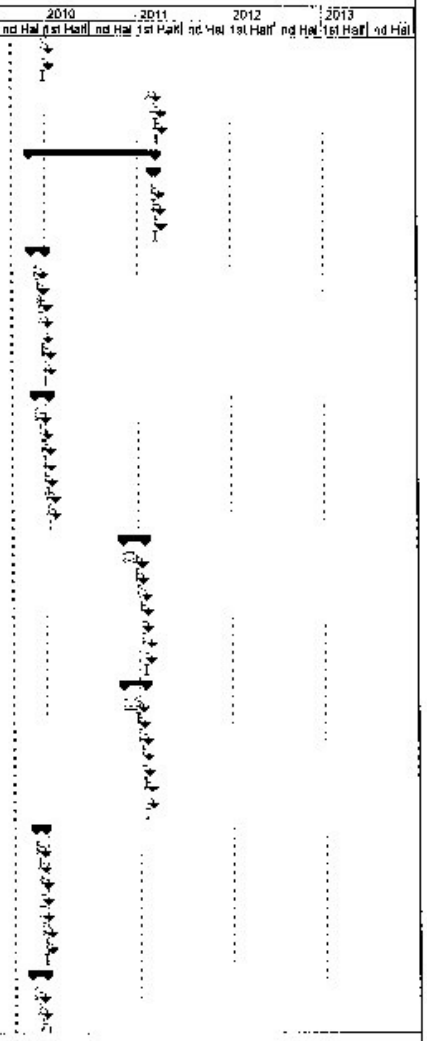
1489	Rebar fixing and shuttering formwork (Abutment B, column)	5 d	21/12/2009	25/12/2009	21/12/2009	25/12/2009
1490	Concreting (Abutment B, column)	1 d	26/12/2009	26/12/2009	26/12/2009	26/12/2009
1491	Stripping off formwork (Abutment B, column)	3 d	27/12/2009	29/12/2009	27/12/2009	29/12/2009
1492	Formwork and rebar fixing for decking	20 d	1/2/2011	20/2/2011	1/2/2011	20/2/2011
1493	Concreting (decking)	20 d	21/2/2011	12/3/2011	21/2/2011	12/3/2011
1494	Stripping off formwork (decking)	3 d	13/3/2011	15/3/2011	13/3/2011	15/3/2011
1495	Railing installation (decking)	5 d	15/3/2011	20/3/2011	16/3/2011	20/3/2011
1496	Ch 526-615	496 d	2/11/2009	14/3/2011	2/11/2009	14/3/2011
1497	Step 7 (ch 530) (1.2m)	14 d	1/3/2011	14/3/2011	1/3/2011	14/3/2011
1498	Formation	2 d	1/3/2011	2/3/2011	1/3/2011	2/3/2011
1499	Formwork and rebar fixing	6 d	4/3/2011	9/3/2011	4/3/2011	9/3/2011
1500	Concreting	2 d	10/3/2011	11/3/2011	10/3/2011	11/3/2011
1501	Stripping off formwork	3 d	12/3/2011	14/3/2011	12/3/2011	14/3/2011
1502	Retaining Wall (ch 530-555 LHS) TR4	57 d	9/11/2009	4/1/2010	9/11/2009	4/1/2010
1503	Bulk excavation	20 d	9/11/2009	28/11/2009	9/11/2009	28/11/2009
1504	Formation	5 d	29/11/2009	3/12/2009	29/11/2009	3/12/2009
1505	Formwork and rebar fixing (base slab)	12 d	4/12/2009	15/12/2009	4/12/2009	15/12/2009
1506	Concreting (base slab)	3 d	16/12/2009	18/12/2009	15/12/2009	18/12/2009
1507	Stripping off formwork (wall stem)	2 d	19/12/2009	20/12/2009	18/12/2009	20/12/2009
1508	Formwork and rebar fixing (wall stem)	10 d	21/12/2009	30/12/2009	21/12/2009	30/12/2009
1509	Concreting (wall stem)	2 d	31/12/2009	1/1/2010	31/12/2009	1/1/2010
1510	Stripping off formwork (wall stem)	3 d	2/1/2010	4/1/2010	2/1/2010	4/1/2010
1511	Retaining Wall (ch 535-555 RHS) TR4	57 d	21/11/2009	16/1/2010	21/11/2009	16/1/2010
1512	Bulk excavation	20 d	21/11/2009	10/12/2009	21/11/2009	10/12/2009
1513	Formation	5 d	11/12/2009	15/12/2009	11/12/2009	15/12/2009
1514	Formwork and rebar fixing (base slab)	12 d	16/12/2009	27/12/2009	16/12/2009	27/12/2009
1515	Concreting (base slab)	3 d	28/12/2009	30/12/2009	28/12/2009	30/12/2009
1516	Stripping off formwork (wall stem)	2 d	31/12/2009	1/1/2010	31/12/2009	1/1/2010
1517	Formwork and rebar fixing (wall stem)	10 d	2/1/2010	11/1/2010	2/1/2010	11/1/2010
1518	Concreting (wall stem)	2 d	12/1/2010	13/1/2010	12/1/2010	13/1/2010
1519	Stripping off formwork (wall stem)	3 d	14/1/2010	16/1/2010	14/1/2010	16/1/2010
1520	Retaining Wall (ch 555-595 LHS) TR5	87 d	1/11/2010	26/1/2011	1/11/2010	26/1/2011
1521	Bulk excavation	50 d	1/11/2010	20/12/2010	1/11/2010	20/12/2010
1522	Formation	5 d	21/12/2010	25/12/2010	21/12/2010	25/12/2010
1523	Formwork and rebar fixing (base slab)	12 d	26/12/2010	6/1/2011	26/12/2010	6/1/2011
1524	Concreting (base slab)	3 d	7/1/2011	9/1/2011	7/1/2011	9/1/2011
1525	Stripping off formwork (wall stem)	2 d	10/1/2011	11/1/2011	10/1/2011	11/1/2011
1526	Formwork and rebar fixing (wall stem)	10 d	12/1/2011	21/1/2011	12/1/2011	21/1/2011
1527	Concreting (wall stem)	2 d	22/1/2011	23/1/2011	22/1/2011	23/1/2011
1528	Stripping off formwork (wall stem)	3 d	24/1/2011	26/1/2011	24/1/2011	26/1/2011
1529	Retaining Wall (ch 555-595 RHS) TR5	87 d	1/11/2010	26/1/2011	1/11/2010	26/1/2011
1530	Bulk excavation	50 d	1/11/2010	20/12/2010	1/11/2010	20/12/2010
1531	Formation	5 d	21/12/2010	25/12/2010	21/12/2010	25/12/2010
1532	Formwork and rebar fixing (base slab)	12 d	26/12/2010	6/1/2011	26/12/2010	6/1/2011
1533	Concreting (base slab)	3 d	7/1/2011	9/1/2011	7/1/2011	9/1/2011
1534	Stripping off formwork (wall stem)	2 d	10/1/2011	11/1/2011	10/1/2011	11/1/2011
1535	Formwork and rebar fixing (wall stem)	10 d	12/1/2011	21/1/2011	12/1/2011	21/1/2011
1536	Concreting (wall stem)	2 d	22/1/2011	23/1/2011	22/1/2011	23/1/2011
1537	Stripping off formwork (wall stem)	3 d	24/1/2011	26/1/2011	24/1/2011	26/1/2011
1538	Box Culvert TB02 (ch 580)	39 d	16/11/2009	24/12/2009	16/11/2009	24/12/2009
1539	Bulk excavation	10 d	16/11/2009	25/11/2009	16/11/2009	25/11/2009
1540	Formation of box culvert	3 d	26/11/2009	28/11/2009	26/11/2009	28/11/2009
1541	Formwork and rebar fixing (base slab)	5 d	29/11/2009	3/12/2009	29/11/2009	3/12/2009
1542	Concreting (base slab)	2 d	4/12/2009	5/12/2009	4/12/2009	5/12/2009
1543	Stripping off formwork (base slab)	2 d	6/12/2009	7/12/2009	6/12/2009	7/12/2009
1544	Formwork and rebar fixing (wall stem and roof slab)	12 d	8/12/2009	19/12/2009	8/12/2009	19/12/2009
1545	Concreting (wall stem and roof slab)	2 d	20/12/2009	21/12/2009	20/12/2009	21/12/2009
1546	Stripping off formwork	3 d	22/12/2009	24/12/2009	22/12/2009	24/12/2009
1547	Retaining Wall (ch 595-615 LHS) TR3	57 d	2/11/2009	28/12/2009	2/11/2009	28/12/2009
1548	Bulk excavation	20 d	2/11/2009	27/11/2009	2/11/2009	27/11/2009
1549	Formation	5 d	28/11/2009	2/12/2009	28/11/2009	2/12/2009
1550	Formwork and rebar fixing (base slab)	12 d	27/11/2009	8/12/2009	27/11/2009	8/12/2009



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Data Date: Aug 2009
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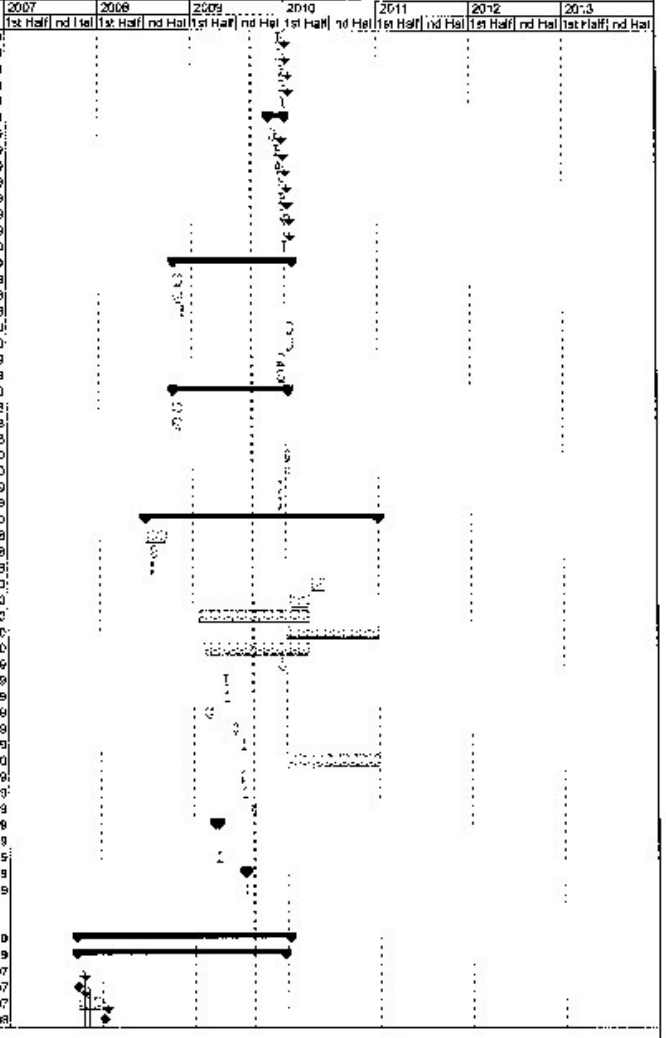
Drainage Services Department

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
1551	Concreting (base slab)	3 d	5/12/2009	11/12/2009	5/12/2009	11/12/2009
1552	Stripping off formwork (wall stem)	2 d	12/12/2009	13/12/2009	12/12/2009	13/12/2009
1553	Formwork and rebar fixing (wall stem)	10 d	14/12/2009	23/12/2009	14/12/2009	23/12/2009
1554	Concreting (wall stem)	2 d	24/12/2009	25/12/2009	24/12/2009	25/12/2009
1555	Stripping off formwork (wall stem)	3 d	26/12/2009	28/12/2009	26/12/2009	28/12/2009
1556	**Retaining Wall (ch 595-610 RHS) TR3**	**62 d**	**2/11/2009**	**2/1/2010**	**2/11/2009**	**2/1/2010**
1557	Bulk excavation	25 d	2/11/2009	26/11/2009	2/11/2009	26/11/2009
1558	Formation	5 d	27/11/2009	1/12/2009	27/11/2009	1/12/2009
1559	Formwork and rebar fixing (base slab)	12 d	2/12/2009	13/12/2009	2/12/2009	13/12/2009
1560	Concreting (base slab)	3 d	14/12/2009	16/12/2009	14/12/2009	16/12/2009
1561	Stripping off formwork (wall stem)	2 d	17/12/2009	18/12/2009	17/12/2009	18/12/2009
1562	Formwork and rebar fixing (wall stem)	10 d	19/12/2009	28/12/2009	19/12/2009	28/12/2009
1563	Concreting (wall stem)	2 d	29/12/2009	30/12/2009	29/12/2009	30/12/2009
1564	Stripping off formwork (wall stem)	3 d	31/12/2009	2/1/2010	31/12/2009	2/1/2010
1565	**Piezometer and Standpipe**	**466 d?**	**23/10/2008**	**31/1/2010**	**23/10/2008**	**31/1/2010**
1566	PS41 (ch 60 RHS)	31 d?	23/10/2008	22/11/2008	23/10/2008	22/11/2008
1567	PS42 (ch 140 RHS)	31 d?	23/10/2008	22/11/2008	23/10/2008	22/11/2008
1568	PS43 (ch 220 RHS)	9 d?	23/11/2008	29/11/2008	23/11/2008	29/11/2008
1569	PS44 (ch 275 LHS)	30 d	2/1/2010	31/1/2010	2/1/2010	31/1/2010
1570	PS45 (ch 340 RHS)	30 d	2/1/2010	31/1/2010	2/1/2010	31/1/2010
1571	PS46(ch 530 RHS)	30 d	1/12/2009	30/12/2009	1/12/2009	30/12/2009
1572	PS47 (ch 580 RHS)	30 d	1/12/2009	30/12/2009	1/12/2009	30/12/2009
1573	**Ground settlement marker**	**453 d?**	**18/10/2008**	**13/1/2010**	**18/10/2008**	**13/1/2010**
1574	GS41 (ch 60 RHS)	31 d?	18/10/2008	17/11/2008	18/10/2008	17/11/2008
1575	GS42 (ch 140 RHS)	31 d?	18/10/2008	17/11/2008	18/10/2008	17/11/2008
1576	GS43 (ch 220 RHS)	1 d?	25/10/2008	25/10/2008	25/10/2008	25/10/2008
1577	GS44 (ch 275 LHS)	12 d	2/1/2010	13/1/2010	2/1/2010	13/1/2010
1578	GS45 (ch 340 RHS)	12 d	2/1/2010	13/1/2010	2/1/2010	13/1/2010
1579	GS46 (ch 530 RHS)	12 d	1/12/2009	12/12/2009	1/12/2009	12/12/2009
1580	GS47 (ch 580 RHS)	12 d	1/12/2009	12/12/2009	1/12/2009	12/12/2009
1581	**Variation Order**	**915 d?**	**29/5/2008**	**31/12/2010**	**29/5/2008**	**31/12/2010**
1582	VO 4 - Access for house 49B	82 d	29/5/2008	18/9/2008	29/5/2008	18/9/2008
1583	VO 9 - 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 Signboard in Upper Tai Po River	10 d?	20/7/2008	29/7/2008	20/7/2008	29/7/2008
1585	VO 21 - Sewerage Diversion at Maintenance Access D	53 d?	10/4/2010	1/6/2010	10/4/2010	1/6/2010
1586	VO 33 - Box Culvert TB03	76 d?	15/1/2010	31/3/2010	15/1/2010	31/3/2010
1587	VO 34 - Modifications of Boulder Trap and Retaining Walls at Maintenance Access D	436 d?	21/1/2009	1/4/2010	21/1/2009	1/4/2010
1588	VO 62 - Mondifications of Footbridge TB02 in Upper Tai Po River	366 d?	31/12/2009	31/12/2010	31/12/2009	31/12/2010
1589	VO 73 - Improvement to the Formation of Geotn Wells at Ch 40 to Ch 265	418 d?	7/7/2009	31/3/2010	7/7/2009	31/3/2010
1590	VO 74 - Gabion 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?	8/5/2009	8/5/2009	8/5/2009	8/5/2009
1592	VO 89 - Protective flood measure	7 d?	6/5/2009	12/5/2009	6/5/2009	12/5/2009
1593	VO 90 - Partial Demolition and Reinstatement Works of House 43C of Sha Po Tsai Village	25 d?	16/2/2009	12/3/2009	16/2/2009	12/3/2009
1594	VO 101 - Safety measure at Boulder trap	12 d?	6/8/2009	17/8/2009	6/8/2009	17/8/2009
1595	VO 102 - Provision of Temporary Vehicular Gate at Maintenance Access D	6 d?	9/7/2009	14/7/2009	9/7/2009	14/7/2009
1596	VO 110 - Modifications of Footbridge TB03 in Upper Tai Po River	366 d?	31/12/2009	31/12/2010	31/12/2009	31/12/2010
1597	VO 111 - Provision of Chain Link Fence and Modification of Railing	13 d?	4/7/2009	16/7/2009	4/7/2009	16/7/2009
1598	VO 113 - Further Enhancement on the Flood Preventive Measures at Approximate Ch 230	10 d?	13/7/2009	22/7/2009	13/7/2009	22/7/2009
1599	VO 121 - Make Good the Damaged Bridge Deck and Re-provision of Handrail for Existing P	18 d?	12/9/2009	29/9/2009	12/9/2009	29/9/2009
1600	**Tree felling**	**14 d?**	**24/3/2009**	**6/4/2009**	**24/3/2009**	**6/4/2009**
1601	B149, B150, B151, B150, B161 & B162	1 d?	24/3/2009	24/3/2009	24/3/2009	24/3/2009
1602	B252	3 d?	4/4/2009	6/4/2009	4/4/2009	6/4/2009
1603	**Site Instruction**	**5 d?**	**20/7/2009**	**24/7/2009**	**20/7/2009**	**24/7/2009**
1604	Protection of eroed slope at TR5 after typhoon 2009-Jul-19	5 d?	20/7/2009	24/7/2009	20/7/2009	24/7/2009
1605						
1606						
1607	**Section 4 - Box Culvert at Ping Long**	**837 d**	**28/9/2007**	**11/1/2010**	**28/9/2007**	**11/1/2010**
1608	**Section 4 - Box Culvert (Area A)**	**818 d**	**28/9/2007**	**21/12/2009**	**28/9/2007**	**21/12/2009**
1609	Commencement of Works	1 d	28/9/2007	28/9/2007	28/9/2007	28/9/2007
1610	Possession to Portion of the Site (Area A)	0 d	28/9/2007	28/9/2007	28/9/2007	28/9/2007
1611	Material Submission	90 d	28/9/2007	27/12/2007	28/9/2007	27/12/2007
1612	Material Submission Approval	0 d	10/1/2008	10/1/2008	10/1/2008	10/1/2008



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Drainage Services Department

Contract No. DC/2007/06
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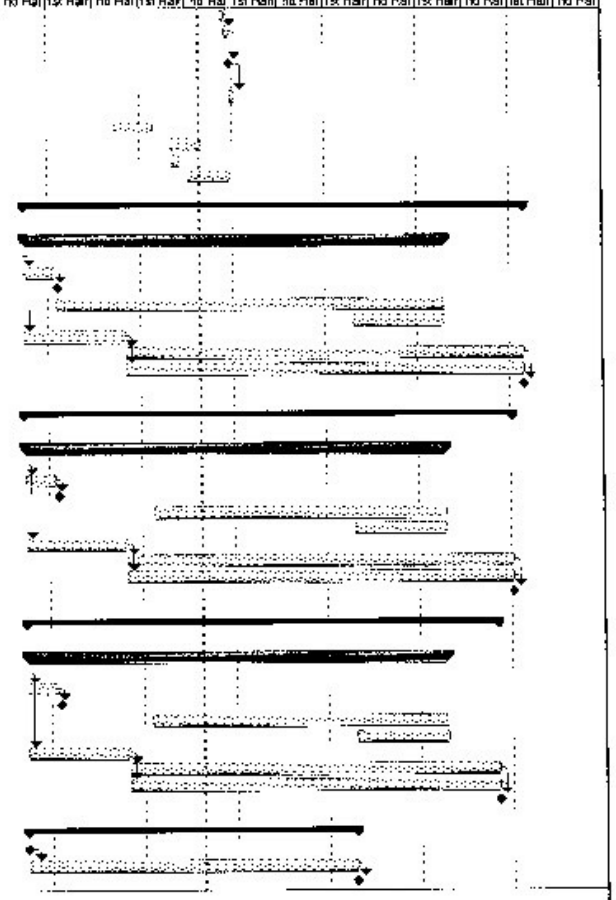
ID	Task Name	Duration	Early Start	Early Finish	Start	Finish
1676	Road Reinstatement (stage 2)	18 d	16/11/2009	3/12/2009	16/11/2009	3/12/2009
1677	Road Paving Remdial (stage 1)	18 d	4/12/2009	21/12/2009	4/12/2009	21/12/2009
1678						
1679	Completion of Work at Section 4	0 d	21/12/2009	21/12/2009	21/12/2009	21/12/2009
1680						
1681	CLP spare duct installation	21 d	22/12/2009	11/1/2010	22/12/2009	11/1/2010
1682						
1683	Variation Order No.23 Construction of 300mm dia. Ductile Iron Pipe beneath the Proposed Ping	150 d	28/9/2008	22/2/2009	28/9/2008	22/2/2009
1684	Variation Order No. 84 Watermain Diversion Works at Ping Long	125 d	30/4/2009	1/9/2009	30/4/2009	1/9/2009
1685	Variation Order No. 86 Clearing of Stream Course between Ping Long Box Culvert and Upper La	31 d	7/5/2009	6/6/2009	7/5/2009	6/6/2009
1686	Variation Order No. 115 Manual Vehicular Traffic Signal for TTA at Ping Long	166 d	9/7/2009	21/12/2009	9/7/2009	21/12/2009
1687						
1688	**Section 5 - Landscape Establishemnt Works (Portion B, C, D, E, F, G, H & I)**	1980 d?	28/9/2007	27/2/2013	28/9/2007	27/2/2013
1689	Section 5 Landscape Works	1665 d	28/9/2007	18/4/2012	28/9/2007	18/4/2012
1690	Commencement of Works	1 d	28/9/2007	28/9/2007	28/9/2007	28/9/2007
1691	Material Submission	120 d	29/9/2007	26/1/2008	29/9/2007	26/1/2008
1692	Submission Approval	0 d	9/2/2008	9/2/2008	9/2/2008	9/2/2008
1693	Landscaping Hardworks	1540 d?	31/1/2008	18/4/2012	31/1/2008	18/4/2012
1694	Landscaping Softworks	365 d	20/4/2011	18/4/2012	20/4/2011	18/4/2012
1695	Submission of Tree Survey	400 d	28/9/2007	1/11/2008	28/9/2007	1/11/2008
1696	Preservation and Protection of Preserved Trees	1578 d	2/11/2008	27/2/2013	2/11/2008	27/2/2013
1697	Landscape Establishment Works	1575 d	2/11/2008	27/2/2013	2/11/2008	27/2/2013
1698	Completion of Works	0 d	27/2/2013	27/2/2013	27/2/2013	27/2/2013
1699						
1700	**Section 6 - Landscape Establishemnt Works (Portion J, K & M)**	1930 d?	28/9/2007	8/1/2013	28/9/2007	8/1/2013
1701	Section 6 Landscape Works	1665 d	28/9/2007	18/4/2012	28/9/2007	18/4/2012
1702	Commencement of Works	1 d	28/9/2007	28/9/2007	28/9/2007	28/9/2007
1703	Material Submission	120 d	29/9/2007	26/1/2008	29/9/2007	26/1/2008
1704	Submission Approval	0 d	9/2/2008	9/2/2008	9/2/2008	9/2/2008
1705	Landscaping Hardworks	1161 d?	14/2/2009	18/4/2012	14/2/2009	18/4/2012
1706	Landscaping Softworks	365 d	21/4/2011	19/4/2012	21/4/2011	19/4/2012
1707	Submission of Tree Survey	400 d	28/9/2007	1/11/2008	28/9/2007	1/11/2008
1708	Preservation and Protection of Preserved Trees	1529 d	2/11/2008	8/1/2013	2/11/2008	8/1/2013
1709	Landscape Establishment Works	1529 d	2/11/2008	8/1/2013	2/11/2008	8/1/2013
1710	Completion of Works	0 d	8/1/2013	8/1/2013	8/1/2013	8/1/2013
1711						
1712	**Section 7 - Landscape Establishemnt Works (Portion L, N & P)**	1868 d?	28/9/2007	7/11/2012	28/9/2007	7/11/2012
1713	Section 7 Landscape Works	1665 d	28/9/2007	18/4/2012	28/9/2007	18/4/2012
1714	Commencement of Works	1 d	28/9/2007	28/9/2007	28/9/2007	28/9/2007
1715	Material Submission	120 d	29/9/2007	26/1/2008	29/9/2007	26/1/2008
1716	Submission Approval	0 d	9/2/2008	9/2/2008	9/2/2008	9/2/2008
1717	Landscaping Hardworks	1178 d?	30/1/2009	18/4/2012	30/1/2009	18/4/2012
1718	Landscaping Softworks	365 d	21/4/2011	18/4/2012	21/4/2011	19/4/2012
1719	Submission of Tree Survey	400 d	28/9/2007	1/11/2008	28/9/2007	1/11/2008
1720	Preservation and Protection of Preserved Trees	1467 d	2/11/2008	7/11/2012	2/11/2008	7/11/2012
1721	Landscape Establishment Works	1467 d	2/11/2008	7/11/2012	2/11/2008	7/11/2012
1722	Completion of Works	0 d	7/11/2012	7/11/2012	7/11/2012	7/11/2012
1723						
1724	**Section 8 - All Remaining Work at All Portions**	1300 d	28/9/2007	18/4/2011	28/9/2007	18/4/2011
1725	Commencement of Works	0 d	28/9/2007	28/9/2007	28/9/2007	28/9/2007
1726	All remaining works at all Area	1300 d	28/9/2007	18/4/2011	28/9/2007	18/4/2011
1727	Completion of Works	0 d	18/4/2011	18/4/2011	18/4/2011	18/4/2011



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Appendix J: Capture Survey Report