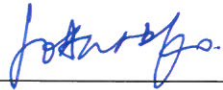



Environmental Protection Department

Contract No. HY/2012/06

**Widening of Fanling Highway
– Tai Hang to Wo Hop Shek
Interchange****Quarterly EM&A Report
for May to July 2015**

[08/2015]

	Name	Signature
Prepared & Checked:	Joanne Ko	
Reviewed & Approved:	Y W Fung	

Version: Rev. 0 Date: 21 August 2015

Disclaimer

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AECOM Asia Co. Ltd.
15/F, Grand Central Plaza, Tower 1, 138 Shatin Rural Committee Road, Shatin, NT, Hong Kong
Tel: (852) 3922 9000 Fax: (852) 2317 7609 www.aecom.com



Our ref JFP/EC/TK/bw/T329380/22.05/L-0085
T 2828 5919
E terence.kong@mottmac.com.hk
Your ref

Hyder-Arup-Black & Veatch Joint Venture
c/o Hyder Consulting Limited
47/F Hopewell Centre
183 Queen's Road East
Wanchai, Hong Kong

21 August 2015
By Fax (2805 5028) & Post

Dear Sir,

Attn: Mr. James Penny

**EM&A for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling Stage 2 (between Tai Hang to Wo Hop Shek Interchange)
Environmental Permit No. EP-324/2008/C
Quarterly EM&A Summary Report for May to July 2015 for the portion of Stage 2 works under Contract No. HY/2012/06**

We refer to the Quarterly EM&A Summary Report for May to July 2015 for the captioned Project received on 14 and 20 August 2015 submitted by ET via email. We confirm we have no comment.

Yours faithfully
for MOTT MACDONALD HONG KONG LIMITED

Terence Kong
Independent Environmental Checker

c.c. HyD – Mr. Chung Lok Chin / Mr. Tang Man Kai (Fax: 2714 5198)
AECOM – Mr. Y W Fung (Fax:2891 0305)

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EXECUTIVE SUMMARY

The proposed widening of Tolo Highway and Fanling Highway between Island House Interchange and Fanling (the Project) is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). An Environmental Impact Assessment (EIA) Report (the approved EIA Report) together with an Environmental Monitoring and Audit (EM&A) Manual (the approved EM&A Manual) were completed and approved under the EIAO on 14 July 2000 (Register Number: EIA-043/2000).

The objective of the Project “Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling” is to widen Tolo Highway and Fanling Highway to dual 4-lane carriageway in order to alleviate the current traffic congestion problems and to cope with the increasing transport demands to and from the urban areas and also cross boundary traffic.

The construction works for this Project will be delivered in 2 stages i.e. Stage 1 (between Island House Interchange and Tai Hang) and Stage 2 (between Tai Hang and Wo Hop Shek Interchange). Stage 2 would be implemented under two works contracts. Contract No. HY2012/06 “Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange” and the entrusted portion to CEDD under Contract No. CV/2012/09 “Liantang/Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works – Contract 3”. This report focuses on Contract No. HY2012/06 “Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange” in Stage 2 of the Project only.

Pursuant to the EP (EP-324/2008/C) Condition 2.7, the Capture Survey Trip Report for Ma Wat River Northern Meander (Version 2) for the Project was submitted on 24 December 2013 by the Environmental Team (ET) and verified by the Independent Environmental Checker (IEC) on 6 January 2014.

The construction phase of the Contract under the EP and the Environmental Monitoring and Audit (EM&A) programme of the contract commenced on 21 November 2013. The impact environmental monitoring and audit includes air quality and noise monitoring.

This report documents the findings of EM&A works conducted in the period between 1 May to 31 July 2015. As informed by the Contractor, construction activities in the reporting period were as follows:

- Site clearance
- Ground investigation
- Piling works
- Pipe laying
- Retaining wall construction
- Noise barrier
- Excavation
- Backfilling
- Drainage
- Temporary bridge construction
- House construction
- Box culvert construction
- Footbridge demolition
- Bridge construction

Reporting Change

There was no reporting change required in the reporting period.

Breaches of Action and Limit Levels for Air Quality

No exceedance of Action and Limit Level was recorded for 1-hour and 24-hour TSP monitoring in the reporting period.

Breaches of Action and Limit Levels for Noise

No Action or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by the Environmental Team in the reporting period.

Complaint, Notification of Summons and Successful Prosecution

No complaint, notification of summons or successful prosecution was received in the reporting period.

Future Key Issues

Key issues to be considered in the coming month include:

- Properly store and label oils and chemicals on site;
- Chemical, chemical waste and waste management;
- Collection of construction waste should be carried out regularly;
- Properly maintain all drainage facilities and wheel washing facilities on site;
- Exposed slopes should be covered up properly if no temporary work will be conducted;
- Quieter powered mechanical equipment should be used;
- Suppress dust generated from excavation activities and haul road traffic; and
- Tree protective measures for all retained trees should be well maintained.

1 INTRODUCTION

1.1 Project Organization and Contacts of Key Management

1.1.1 The project organization structure is shown in Appendix A. The key personnel contact names and numbers are summarized in Table 1.1.

Table 1.1 Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax
ER (Hyder-Arup-Black & Veatch Joint Venture)	Chief Resident Engineer	Edwin Chung	6115 0818	2638 0950
IEC (Mott MacDonald Hong Kong Limited)	Independent Environmental Checker	Terence Kong	2828 5919	2827 1823
Contractor (China State Construction Engineering (Hong Kong) Limited)	Environmental Officer	Michael Tsang	9277 4956	2672 2501
		C C Chow	9679 6315	2672 2501
ET (AECOM Asia Company Limited)	ET Leader	Y W Fung	3922 9393	3922 9797

1.2 Programme

1.2.1 The Construction Programme is shown in Appendix B.

1.3 Summary of Construction Works

1.3.1 Details of the construction works carried out by the Contractor in this reporting period are listed below:

- Site clearance
- Ground investigation
- Piling works
- Pipe laying
- Retaining wall construction
- Noise barrier
- Excavation
- Backfilling
- Drainage
- Temporary bridge construction
- House construction
- Box culvert construction
- Footbridge demolition
- Bridge construction

1.3.2 The general layout plan of the Project site showing the contract areas is shown in Figure 1.1.

1.3.3 The environmental mitigation measures implementation schedule are presented in Appendix C.

2 ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS

2.1 Monitoring Parameters

- 2.1.1 The updated EM&A Manual has designated 1 air quality monitoring station and 2 noise monitoring stations to monitor environmental impacts on air quality and noise due to Stage 2 of the Project.
- 2.1.2 The updated EM&A Manual also requires environmental site inspections for air quality, noise, water quality, chemical, waste management, ecology and landscape and visual impacts.

2.2 Monitoring Locations

- 2.2.1 For air quality monitoring, the monitoring station was set up at Fanling Government Secondary School, in accordance with updated EM&A Manual. The location is shown in Figure 1.2a.
- 2.2.2 For noise monitoring, the monitoring stations M2 and M3 were set up at West Tai Wo and Fanling Government Secondary School respectively in accordance with updated EM&A Manual. Figure 1.2a-b shows the locations of the monitoring stations.

2.3 Environmental Quality Performance Limits (Action/Limit Levels)

- 2.3.1 The environmental quality performance limits (i.e. Action/Limit Levels) of air quality monitoring were derived from the baseline air quality monitoring results at the monitoring station (AM2); while the environmental quality performance limits of noise monitoring were defined in the EM&A Manual.
- 2.3.2 The environmental quality performance limits are given in Appendix D.

2.4 Environmental Mitigation Measures

- 2.4.1 Relevant environmental mitigation measures were stipulated in the Particular Specification and EP for the Contractor to adopt. A list of environmental mitigation measures and their implementation statuses are given in Appendix C.

3 AIR QUALITY MONITORING

- 3.1.1 In accordance with the updated EM&A Manual, baseline 1-hour and 24-hour TSP levels at one air quality monitoring station was established. Impact 1-hour TSP monitoring was conducted for at least three times every 6 days, while impact 24-hour TSP monitoring was carried out for at least once every 6 days.
- 3.1.2 The weather was mostly sunny, with several fine, cloudy and rainy days in the reporting quarter. Weather information including the wind speed and wind direction is annexed in Appendix F. The information was obtained from the Hong Kong Observatory Tai Po and Tai Mei Tuk Automatic Weather Stations.
- 3.1.3 The monitoring results for 1-hour TSP and 24-hour TSP monitoring are summarized in Tables 3.1 and 3.2 respectively. Detailed impact air quality monitoring results are presented in Appendix E.

Table 3.1 Summary of 1-hour TSP Monitoring Results in the Reporting Period

Location	Average ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AM2 (Fanling Government Secondary School)	76.7	66.9 – 88.7	317.8	500

Table 3.2 Summary of 24-hour TSP Monitoring Results in the Reporting Period

Location	Average ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AM2 (Fanling Government Secondary School)	17.6	7.6 – 50.8	200.7	260

- 3.1.4 The major dust sources in the reporting period included construction activities from Stage 2 of the Project, as well as nearby traffic emissions.
- 3.1.5 All 1-hour and 24-hour TSP results were below the Action and Limit Level in the reporting quarter.
- 3.1.6 Detailed impact air quality monitoring results are presented in Appendix E.

4 NOISE MONITORING

- 4.1.1 In accordance with the EM&A Manual, impact noise monitoring was conducted for at least once per week during the construction phase of the Contract.
- 4.1.2 The monitoring results for construction noise are summarized in Table 4.1 and the monitoring data are provided in Appendix G.

Table 4.1 Summary of Construction Noise Monitoring Results in the Reporting Period

	Average (dB(A))	Range (dB(A))	Limit Level (dB(A))
	L_{eq} (30 mins)	L_{eq} (30 mins)	L_{eq} (30 mins)
M2*	69.2	64.9 – 70.2	75
M3#	63.8	54.7 – 67.9	65/70

*+3dB(A) Façade correction included

Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.

- 4.1.3 The major noise sources during the noise monitoring included nearby road traffic noise.
- 4.1.4 No Action or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by the Environmental Team in the reporting period.
- 4.1.5 The graphical plots of the trends of the monitoring results are provided in Appendix G.

5 ADVICE ON THE SOLID AND LIQUID WASTE MANAGEMENT STATUS

- 5.1.1 As advised by the Contractor, 4054 m³ of inert C&D material was disposed of as public fill to Tuen Mun 38 (of which 0m³ was broken concrete), while 110 m³ of general refuse was disposed of at NENT landfill. 214 kg of paper/cardboard packaging, 25 kg of plastics and 0 kg of metals were collected by recycling contractors in the reporting period. 1515 m³, 1633 m³, and 906 m³ of inert C&D materials were reused on site, in other projects and in NENT for backfilling purpose respectively. 0kg of chemical wastes was collected by licensed contractors in the reporting period.
- 5.1.2 The actual amounts of different types of waste generated by the activities of the Project in the reporting quarter are summarized in Table 5.1.

Table 5.1 Summary of Waste Flow Table

Waste Type	Actual Amount	Disposal/Reuse Locations
Inert C&D materials	4054 m ³ (of which 0 m ³ was broken concrete)	Tuen Mun 38
General refuse	110 m ³	NENT Landfill
Paper/cardboard packaging	214 kg	Recycling Contractors
Plastics	25 kg	Recycling Contractors
Metals	0 kg	Recycling Contractors
C&D materials reused on site	1515 m ³	Site Area
C&D materials reused in other projects	1633 m ³	Other projects
C&D materials reused in NENT for backfilling	906 m ³	NENT Landfill
Chemical wastes	0 kg	Licensed Contractors

6 SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT

- 6.1.1 All 1-hour and 24-hour TSP monitoring results complied with the Action / Limit Levels in the reporting quarter.
- 6.1.2 No Action or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by the Environmental Team in the reporting period.

7 SUMMARY OF COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

- 7.1.1 No complaint, notification of summons or successful prosecution was received in the reporting period.
- 7.1.2 The statistics on complaints, notifications of summons and successful prosecutions are summarized in Appendix H.
- 7.1.3 A 24-hour complaint hotline at 6628 8366 has been established for the Project. The hotline number is displayed at the site entrances, fencings and project signboards, as well as printed on publications such as newsletters for the public.

8 COMMENTS, RECOMMENDATIONS AND CONCLUSIONS

8.1 Comments

- 8.1.1 According to the environmental site inspections performed in the reporting period, the following comments are made to the Contractor for precautionary and rectification purposes:

Air Quality Impact

- The Contractor was recommended to water the construction site frequently for dust suppression.
- The Contractor was recommended to cover the dusty stockpile entirely with tarpaulin for dust suppression.
- The Contractor was recommended to set up the wheel washing bay properly to avoid runoff from wheel washing.
- The Contractor was recommended to clean the entrances regularly to prevent dusty materials from entering public roads.

Construction Noise Impact

- The Contractor was recommended to maximize the area of the sound-proof canvas or use equivalent measures to close the gap between the canvas and the ground, and wrap the breaker with effective sound-proof materials.

Water Quality Impact

- The Contractor was recommended to set up the wastewater treatment system as soon as possible.
- The Contractor was recommended to clear the runoff from the public road and ensure there are sufficient sand bundings surrounding the site area.

Chemical and Waste Management

- The Contractor was recommended to clear the water and provide drip trays to the chemical containers to prevent mosquito breeding and retain any oil leakage.
- The Contractor was recommended to clear the waste regularly or provide proper receptacles available for waste collection.
- The Contractor was recommended to remove the water mixture and dispose of as chemical waste properly.

Landscape and Visual Impact

- Nil.

Miscellaneous

- The Contractor was recommended to clear the water and provide drip trays to the chemical containers to prevent mosquito breeding and retain any oil leakage.
- The Contractor was recommended to deploy a pump to pump away stagnant water and ensure the water is treated before discharging from the construction site.
- The Contractor was recommended to post the latest EP at all vehicle site entrances.

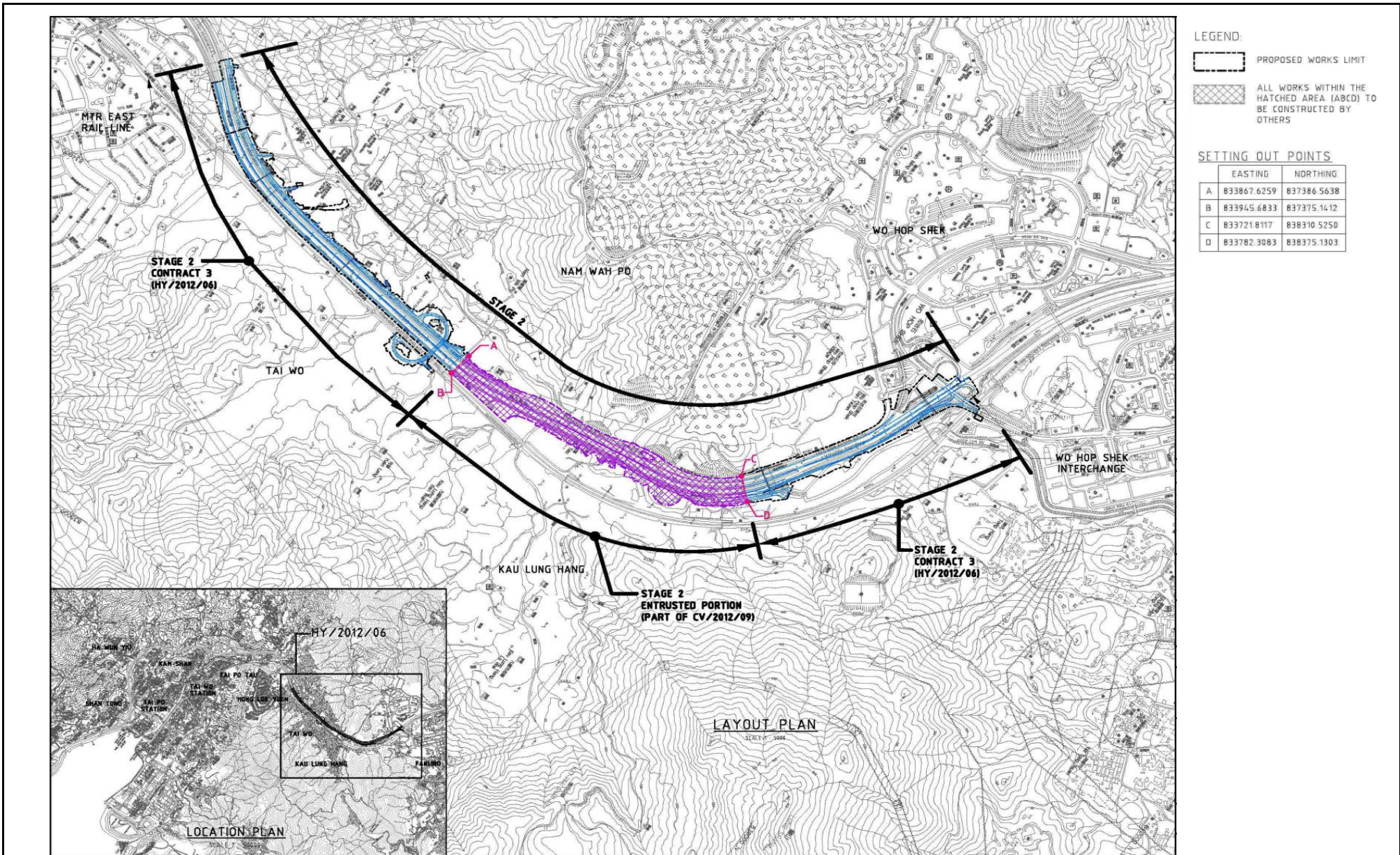
8.2 Recommendations

- 8.2.1 The impact air quality and noise monitoring programme ensures that any deterioration in environmental condition is readily detected and timely actions are taken to rectify any non-compliances. Assessment and analysis of monitoring results collected demonstrated the environmental acceptability of the Project. The weekly environmental site inspections ensure that all the environmental mitigation measures recommended in the ERR are effectively implemented.
- 8.2.2 The EM&A programme effectively monitored the environmental impacts from the construction activities and no particular recommendations were advised for the improvement of the programme.

8.3 Conclusions

- 8.3.1 All 1-hour and 24-hour TSP monitoring results complied with the Action / Limit Levels in the reporting quarter.
- 8.3.2 No Action or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by the Environmental Team in the reporting period.
- 8.3.3 No complaint, notification of summons or successful prosecution was received in the reporting period.

FIGURES



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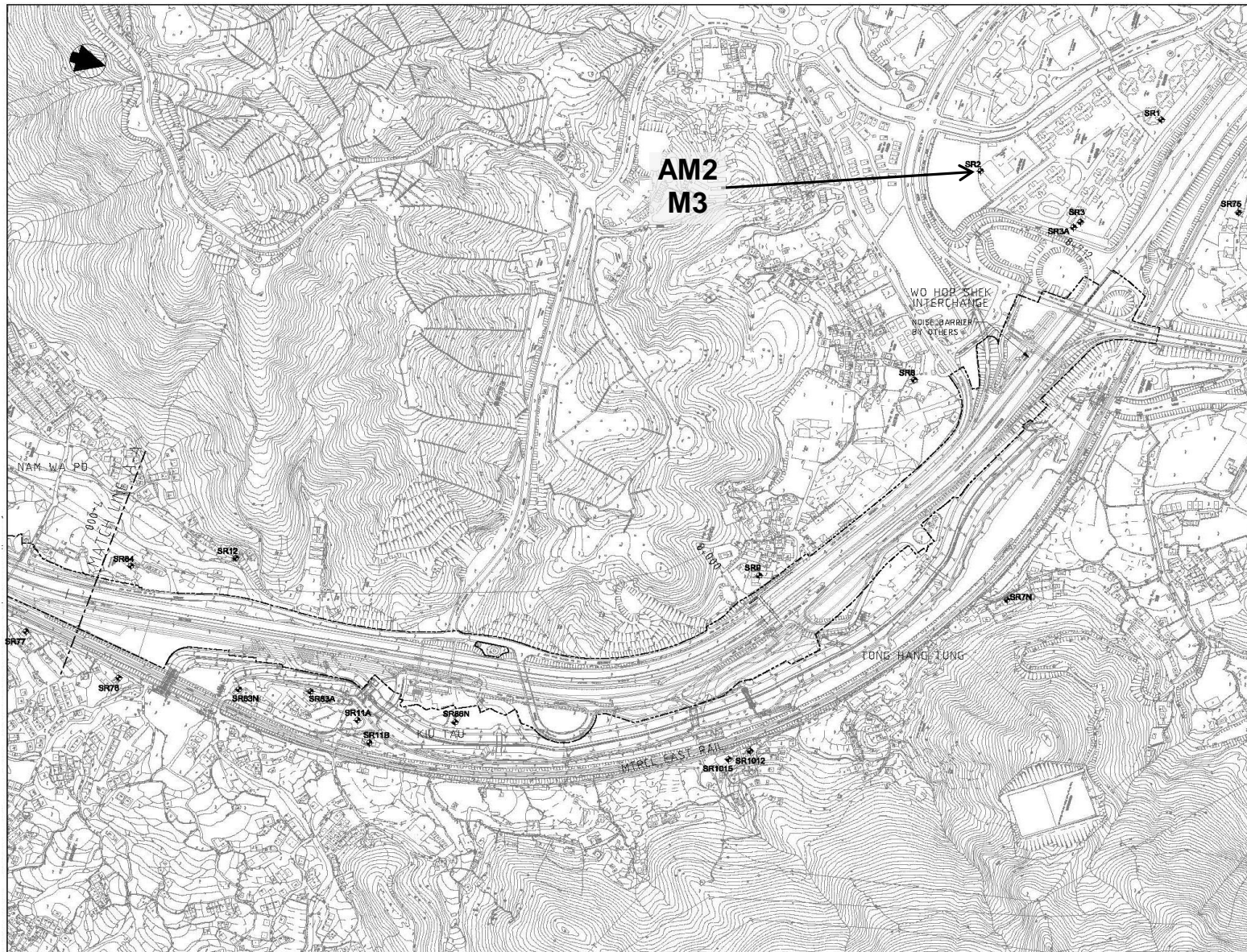
CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Layout Plan

Date: Dec 2013

Figure 1.1



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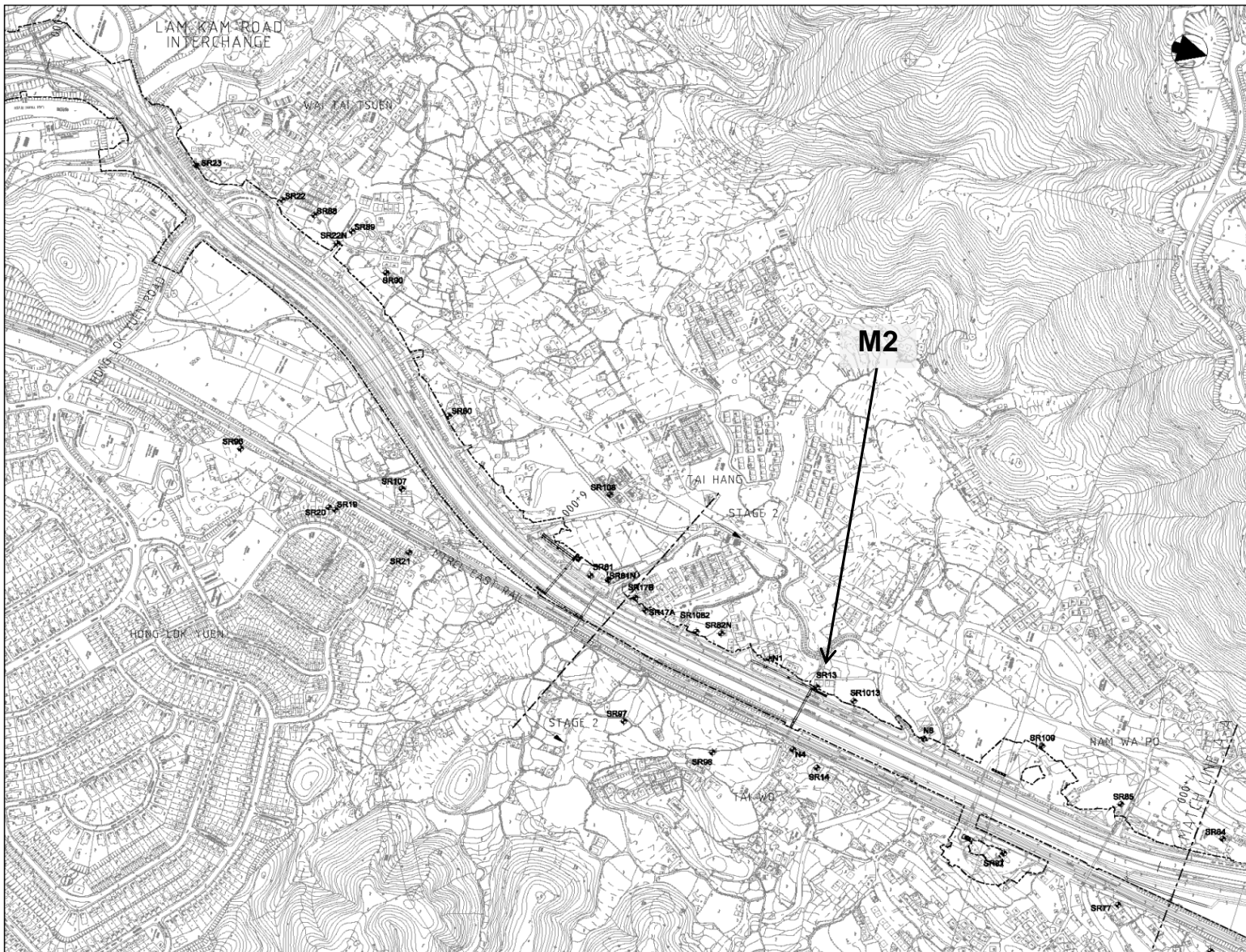
CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Locations of Monitoring Station

Date: Dec 2013

Figure 1.2a



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CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE

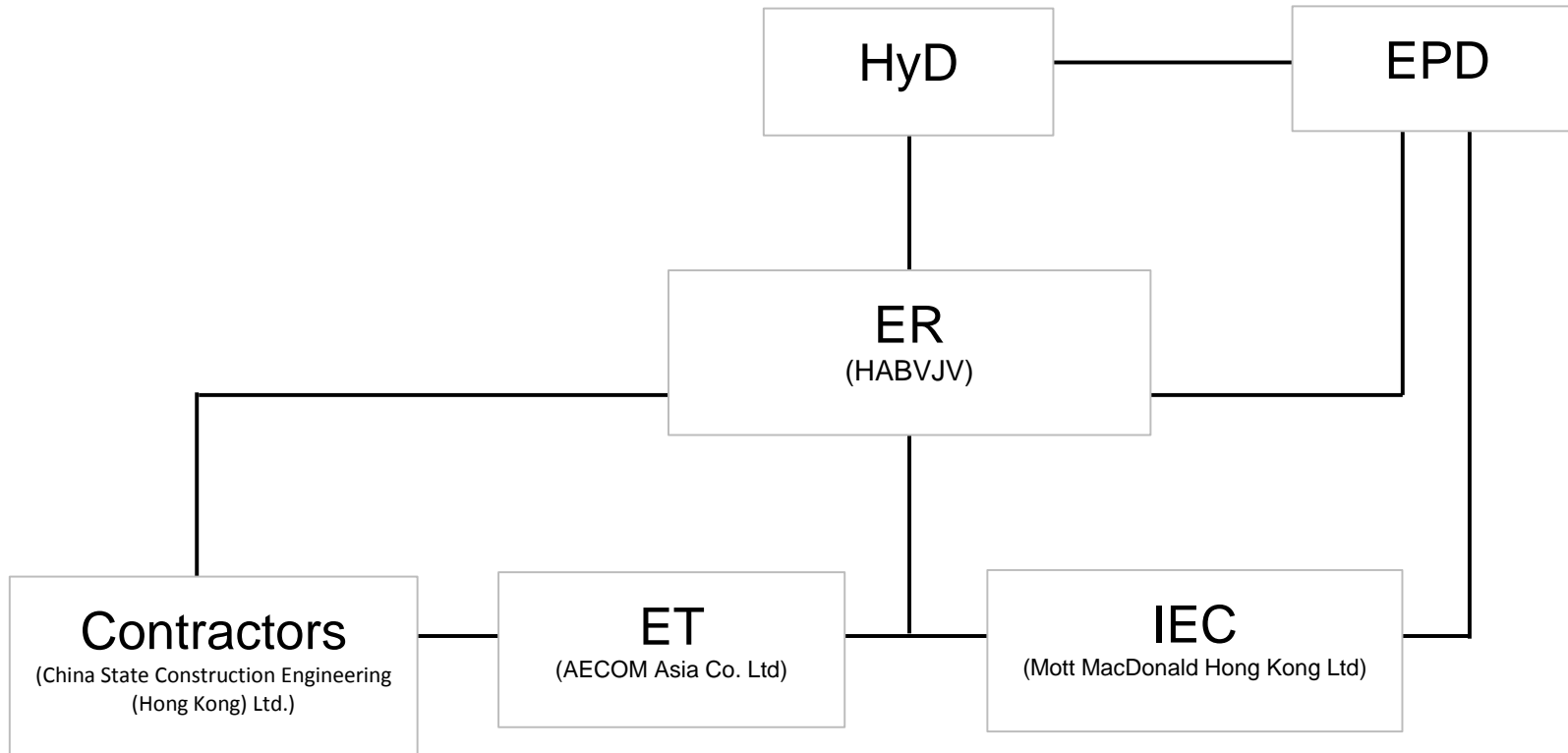


Locations of Monitoring Station

Date: Dec 2013

Figure 1.2b

**APPENDIX A
PROJECT ORGANIZATION STRUCTURE**



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CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Project Organization Structure

**APPENDIX B
CONSTRUCTION PROGRAMMES**

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2015			
								May	Jun	Jul	Aug
Contract Condition											
General											
Contract Condition											
POSSA323A	Site Area SA323A (360d) (not required)	0%	0	0	20-May-15*		-311				◆ Site Area SA323A (360d) (not required)
POSSA327	Site Area SA327 (180d)	0%	0	0	20-May-15*		-139				◆ Site Area SA327 (180d)
POSSA327A	Site Area SA327A (730d)	0%	0	0	18-Jul-15*		0				◆ Site Area SA327A (730d)
ZONE 1 (Ch. 5640 to 5880)											
Noise Barrier Along TWSR-West and Laying New Utilities											
NB42 (Ch.5640-5740)-TWSR West Side											
Noise Barrier Works											
NB00110	NB42 (Ch5640-5740) - Footing & Wall Structure - 8 bays	77.78%	10	45	13-Feb-15 A	01-Jun-15	77				
NB00120	NB42 (Ch5640-5740) - NB production	0%	45	45	02-Jun-15	16-Jul-15	1403				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10130	Watermain installation (along NB42)	0%	30	30	02-Jun-15	08-Jul-15	77				
TSZ10140	Firemain installation (along NB42)	0%	30	30	09-Jul-15	12-Aug-15	77				
Underground Utility Works											
UUZ10100	Utility cable laying by Utility companies (Along NB42)	0%	38	38	13-Aug-15	25-Sep-15	77				
NB42A (Ch.5750-5810)-TWSR West Side											
Noise Barrier Works											
NB00190	NB42A (Ch5750-5810) - Footing & Wall Structure - 5 bays	0%	30	30	13-Apr-15 A	25-Jun-15	115				
NB00195	NB42A (Ch5750-5810) - backfilling	0%	12	12	13-Aug-15	26-Aug-15	115				
NB00200	NB42A (Ch5750-5810) - NB production	0%	45	45	26-Jun-15	09-Aug-15	1379				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10180	Watermain installation (along NB42A)	0%	20	20	26-Jun-15	20-Jul-15	115				
TSZ10190	Firemain installation (along NB42A)	0%	20	20	21-Jul-15	12-Aug-15	115				
Underground Utility Works											
UUZ10110	Utility cable laying by Utility companies (Along NB42A)	0%	20	20	26-Jun-15	20-Jul-15	135				
ZONE 2 (Ch. 5880 to 6930)											
Noise Barrier Along TWSR-West and Laying New Utilities											
Site Clearance & Demolition of Existing Structure											
Demolition Work											
Z2.P2N.1250	Construction of proposed SHRINE	0%	165	165	20-May-15	04-Dec-15	997				
NB47 (Ch.5880-5930)-TWSR West Side											
Noise Barrier Works											
NB00270	NB47 (Ch5880-5930)- Footing & Wall Structure - 5 bays	64.29%	10	28	11-Mar-15 A	01-Jun-15	103				
NB00280	NB47 (Ch5880-5930)- NB production	0%	45	45	02-Jun-15	16-Jul-15	1378				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10260	DSD Trunk Sewer laying (along NB47)	0%	18	18	02-Jun-15	23-Jun-15	103				
TSZ10270	Backfill up to NB47 footing level	0%	6	6	24-Jun-15	30-Jun-15	103				
TSZ10280	Watermain installation (along NB47)	0%	26	26	02-Jul-15	31-Jul-15	103				
TSZ10290	Firemain installation (along NB47)	0%	26	26	01-Aug-15	31-Aug-15	103				
Underground Utility Works											
UUZ20100	Utility cable laying by Utility companies (Along NB47)	0%	20	20	21-Apr-15 A	12-Jun-15	169				
NB47A (Ch.5950-5975)-TWSR West Side											
Noise Barrier Works											
NB00330	NB47A - backfilling	0%	12	12	02-Jul-15	15-Jul-15	231				
NB00335	Backfilling (Along NB47A-above ID1)	0%	12	12	24-Jun-15	08-Jul-15	237				
NB00340	NB47A - NB production	0%	45	45	20-May-15	03-Jul-15	1391				
NB00350	NB47A - NB post & panel installation	0%	5	5	16-Jul-15	21-Jul-15	1111				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10350	Sheet Piling & Excavation (~5m below ground) (along NB47A)	50%	6	12	05-May-15 A	27-May-15	64				
TSZ10380	Watermain installation (along NB47A)	0%	14	14	28-May-15	12-Jun-15	231				
TSZ10390	Firemain installation (along NB47A)	0%	14	14	13-Jun-15	30-Jun-15	231				
TSZ10560	Watermain & Firemain installation (Along NB47A-above ID1)	0%	28	28	20-May-15	23-Jun-15	237				
Underground Utility Works											
UUZ20110	Utility cable laying by Utility companies (Along NB47A)	0%	10	10	20-May-15	01-Jun-15	255				
UUZ20240	Utility cable laying by Utility companies (Along NB47A-above)	0%	10	10	20-May-15	01-Jun-15	255				
NB48 (Ch.5995-6120)-TWSR West Side											
Noise Barrier Works											
NB00380	NB48 (Ch5995-6060) - Footing & Wall Structure - 4 bays	0%	40	40	18-Apr-15 A	08-Jul-15	165				
NB00400	NB48 (Ch5995-6060) - NB production	0%	45	45	09-Jul-15	22-Aug-15	1341				
NB00440	NB48 (Ch6060-6120) - Footing & Wall Structure - 5 bays	0%	40	40	21-Jul-15	04-Sep-15	155				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10400	Sheet Piling & Excavation (~5m below ground) (along NB48, 0-60m)	0%	21	21	02-May-15 A	13-Jun-15	160				
TSZ10410	DSD Trunk Sewer laying (along NB48, 0-60m)	0%	18	18	15-Jun-15	07-Jul-15	160				
TSZ10420	Backfill up to NB48, 0-60m footing level	0%	6	6	08-Jul-15	14-Jul-15	160				
TSZ10430	Watermain installation (along NB48, 0-60m)	0%	30	30	15-Jul-15	18-Aug-15	160				

	Project ID: DWP Rev 02 (1505)	<p align="center">Contract No. HY/2012/06</p> <p align="center">Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange</p> <p align="center">3 Month Rolling Program(20-May-15)</p>		Date	Revi...	C	Approved
	Layout: 3 Month Rolling Program			22-J...	IWP...		
Page 1 of 6				26-...	IWP...		
				13-...	WP ...		
				30-J...	WP ...		
					WP ...		

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2015			
								May	Jun	Jul	Aug
TSZ10440	Firemain installation (along NB48, 0-60m)	0%	30	30	19-Aug-15	22-Sep-15	160				
TSZ10450	Sheet Piling & Excavation (~5m below ground) (along NB48,	0%	26	26	20-May-15	19-Jun-15	137				
TSZ10460	DSD Trunk Sewer laying (along NB48, 60-110m)	0%	18	18	22-Jun-15	13-Jul-15	155				
TSZ10470	Backfill up to NB48, 60-110m footing level	0%	6	6	14-Jul-15	20-Jul-15	155				
TSZ10480	Watermain installation (along NB48, 60-110m)	0%	26	26	21-Jul-15	19-Aug-15	163				
Underground Utility Works											
UZZ20120	Utility cable laying by Utility companies (Along NB48, 0-60m)	0%	24	24	09-Jul-15	05-Aug-15	201				
NB49 (Ch.6145-6215)-TWSR West Side											
Noise Barrier Works											
NB00510	NB49 - Footing & Wall Structure - 5 bays	0%	52	52	18-May-15 A	22-Jul-15	182				
NB00530	NB49 - NB production	0%	45	45	23-Jul-15	05-Sep-15	1327				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10500	Sheet Piling & Excavation (~7m below ground) (along NB49)	0%	14	14	22-Jun-15	08-Jul-15	137				
TSZ10510	DSD Trunk Sewer laying (along NB49)	0%	12	12	09-Jul-15	22-Jul-15	137				
TSZ10520	Backfill up to NB49 footing level	0%	6	6	23-Jul-15	29-Jul-15	137				
TSZ10530	Watermain installation (along NB49)	0%	20	20	30-Jul-15	21-Aug-15	137				
NB49B (Ch.6215-6235)-TWSR West Side											
Noise Barrier Works											
NB00550	NB49B piling (0.19m -20no)- rigs 1&2	0%	21	21	11-Jun-15	07-Jul-15	162				
NB54 (Ch.6240-6280)-TWSR West Side											
Noise Barrier Works											
NB00620	NB54 - ID2-1 Sheet piling & excavation (~3m)	0%	18	18	11-Jun-15	03-Jul-15	45				
NB00630	NB54 - ID2-1 Footing & Wall Structure - 2 bays	0%	60	60	04-Jul-15	11-Sep-15	45				
NB00670	NB54 piling (0.19m -16no) - rigs 1&2	18.18%	18	22	16-Mar-15 A	10-Jun-15	45				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10600	Sheet Piling & Excavation (~5m below ground) (along NB54)	0%	14	14	04-Jul-15	20-Jul-15	64				
TSZ10610	DSD Trunk Sewer laying (along NB54 except ID2-1 section)	0%	21	21	21-Jul-15	13-Aug-15	64				
TSZ10620	Backfill up to NB54 footing level	0%	6	6	14-Aug-15	20-Aug-15	64				
NB54A (Ch.6290-6350)-TWSR West Side											
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10650	Sheet Piling & Excavation (~5m below ground) (along NB54A)	0%	26	26	20-May-15	19-Jun-15	55				
TSZ10660	DSD Trunk Sewer laying (along NB54A)	0%	18	18	22-Jun-15	13-Jul-15	151				
TSZ10670	Backfill up to NB54A footing level	0%	6	6	14-Jul-15	20-Jul-15	151				
TSZ10680	Watermain installation (along NB54A)	0%	30	30	21-Jul-15	24-Aug-15	155				
NB57 (Ch.6365-6445)-TWSR West Side											
Noise Barrier Works											
NB00830	NB57 - Footing & Wall Structure - 7 bays	73.68%	60	228	15-Dec-14 A	12-Nov-15	119				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10710	DSD Trunk Sewer laying (along NB57)	0%	18	18	04-Aug-15	24-Aug-15	119				
TSZ10774	Completion NB57 Bay 1 and preparation works	44.44%	10	18	02-May-15 A	01-Jun-15	119				
TSZ10775	Wash-out chamber water pipe diversion at the site access for NB57	0%	52	52	02-Jun-15	03-Aug-15	119				
NB58 (Ch.6445-6480)-TWSR West Side											
Noise Barrier Works											
NB00900	NB58 - Footing & Wall Structure - 3 bays	0%	50	50	24-Jul-15	19-Sep-15	142				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10750	Sheet Piling & Excavation (~5m below ground) (along NB58)	0%	21	21	28-May-15	22-Jun-15	64				
TSZ10760	DSD Trunk Sewer laying (along NB58)	0%	18	18	23-Jun-15	14-Jul-15	64				
TSZ10780	Watermain installation (along NB58)	0%	20	20	15-Jul-15	06-Aug-15	64				
TSZ10790	Firemain installation (along NB58)	0%	20	20	07-Aug-15	29-Aug-15	64				
NB59 (Ch.6490-6590)-TWSR West Side											
Noise Barrier Works											
NB00970	NB59 - Footing & Wall Structure - 9 bays	12%	88	100	02-May-15 A	02-Sep-15	139				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10810	DSD Trunk Sewer laying (along NB59)	0%	30	30	08-Apr-15 A	25-Jun-15	149				
TSZ10820	Backfill up to NB59 footing level	0%	6	6	26-Jun-15	03-Jul-15	149				
TSZ10830	Watermain installation (along NB59)	0%	30	30	04-Jul-15	07-Aug-15	149				
TSZ10840	Firemain installation (along NB59)	0%	30	30	08-Aug-15	11-Sep-15	149				
NB63 (Ch.6610-6700)-TWSR West Side											
Noise Barrier Works											
NB01040	NB63 - NB production	0%	45	45	20-May-15	03-Jul-15	1391				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10300	Sheet Piling & Excavation (~7m below ground) (along NB63)	0%	12	12	20-May-15	03-Jun-15	175				
TSZ10310	DSD Trunk Sewer laying (along NB63)	0%	18	18	04-Jun-15	25-Jun-15	175				
TSZ10330	Watermain installation (along NB63)	0%	30	30	26-Jun-15	31-Jul-15	175				
TSZ10340	Firemain installation (along NB63)	0%	30	30	01-Aug-15	04-Sep-15	175				
DSD Southern Trunk Sewer - Trenchless Construction											
TSZ10950	Construct Pipe jacking pits	63.33%	22	60	15-Apr-15 A	15-Jun-15	79				
TSZ10960	DSD Trunk Sewer laying (along NB63 - ID3-1)-Trenchless	0%	120	120	16-Jun-15	07-Nov-15	79				
Underground Utility Works											
UZZ20230	Utility cable laying by Utility companies (Along NB63~100m)	62.38%	38	101	27-Dec-14 A	06-Jul-15	227				
Bridge Construction											
New Tai Hang Footbridge											
General											
THBF0335	Structure steel Shop drawing approval (THFB)	0%	30	30	04-Dec-14 A	25-Jun-15	252				

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2015			
								May	Jun	Jul	Aug
THBF0340	Structure steel procurement (THFB)	0%	150	150	26-Jun-15	22-Nov-15	317				
TWSR-West/ FL Highway N/B Side Section											
THBF0140	THP5 - Pile cap, Pier and Pier Head	0%	45	45	20-May-15	14-Jul-15	480				
THBF0180	THP8, THP9 - Pile cap, Pier and Pier Head	0%	30	30	20-May-15	25-Jun-15	555				
THBF0220	THAB3 - pile cap & abutment wall	0%	30	30	20-May-15	25-Jun-15	528				
THBF0230	THAB3 - Backfilling (~4m)	0%	27	27	26-Jun-15	28-Jul-15	528				
THBF0235	Steel Staircase ready for erection (THFB-TWSR-W side)	0%	0	0		28-Jul-15	528				28-Jul-15 ♦ Steel Staircase rea
THBF0270	THP6, THP7 - Pile cap, Pier and Pier Head	0%	30	30	20-May-15	25-Jun-15	465				
THBF0310	THAB2 - pile cap & abutment wall	0%	30	30	20-May-15	25-Jun-15	445				
THBF0320	THAB2 - Backfilling (~3m)	0%	20	20	26-Jun-15	20-Jul-15	445				
THBF0325	Steel Ramp ready for erection (THFB-TWSR-W side)	0%	0	0		20-Jul-15	445				20-Jul-15 ♦ Steel Ramp ready for erec
TWSR-East FL Highway S/B Side Section											
THBF0440	THAB1 - Predrilling	75%	3	12	20-Mar-15 A	22-May-15	367				
THBF0450	THAB1 - Pre-bored H pile (4 nos)	0%	12	12	18-Jun-15	03-Jul-15	346				
THBF0460	THAB1 - Pile Test	0%	28	28	04-Jul-15	31-Jul-15	475				
THBF0470	THAB1 - pile cap & abutment wall	0%	30	30	18-Jul-15	21-Aug-15	382				
THBF0500	THP2 - Pre-bored H pile (8 nos)	0%	24	24	04-Jul-15	31-Jul-15	346				
THBF0510	THP2 - Pile Test	0%	28	28	01-Aug-15	28-Aug-15	509				
THBF0710	THP3 - Pre-bored H pile (4 nos)	0%	16	16	01-Aug-15	19-Aug-15	346				
New Tai Wo Footbridge											
General											
TWFB1030	Structure steel Shop drawing approval (TWFB)	0%	30	30	04-Dec-14 A	25-Jun-15	89				
TWFB1040	Structure steel procurement (TWFB)	0%	150	150	26-Jun-15	22-Nov-15	108				
TWSR-West/ FL Highway N/B Side Section											
TWFB1140	TWP1 - Pre-bored H pile (8 nos)	0%	24	24	22-Apr-15 A	17-Jun-15	140				
TWFB1150	TWP1 - Pile Test	0%	28	28	18-Jun-15	15-Jul-15	169				
TWFB1160	TWP1 - Pile cap, Pier and Pier Head	0%	45	45	02-Jul-15	22-Aug-15	142				
TWFB1220	TWAB2 - Pre-bored H pile (4 nos)	33.33%	8	12	18-Apr-15 A	29-May-15	145				
TWFB1230	TWAB2 - Pile Test	0%	28	28	30-May-15	26-Jun-15	175				
TWFB1240	TWAB2 - pile cap & abutment wall	0%	30	30	13-Jun-15	20-Jul-15	145				
TWFB1250	TWAB2 - Backfilling (~4m)	0%	27	27	21-Jul-15	20-Aug-15	995				
TWFB1280	TWP4, TWP5 - Pre-bored H pile (14 nos)	4.76%	40	42	11-May-15 A	08-Jul-15	201				
TWFB1290	TWP4, TWP5 - Pile Test	0%	28	28	09-Jul-15	05-Aug-15	251				
TWFB1300	TWP4, TWP5 - Pile cap, Pier and Pier Head	0%	30	30	23-Jul-15	26-Aug-15	198				
TWFB1320	TWAB1 - Pre-bored H pile (18 nos)	25.93%	40	54	27-Apr-15 A	08-Jul-15	183				
TWFB1330	TWAB1 - Pile Test	0%	28	28	09-Jul-15	05-Aug-15	230				
TWFB1340	TWAB1 - pile cap & abutment wall	0%	30	30	23-Jul-15	26-Aug-15	183				
TWSR-East FL Highway S/B Side Section											
TWFB1480	Precautionary work for MTRC I&P area	0%	45	45	20-May-15	14-Jul-15	955				
TWFB1540	TWP3 - Predrilling	0%	12	12	15-Jul-15	28-Jul-15	955				
Temporary Tai Wo Footbridge											
Design Works											
TWFB-T1010	Design preparation	0%	60	60	22-Jun-15*	31-Aug-15	253				
Construction Works											
TWFB-T1050	TTA for Temp ramp working space	0%	30	30	20-May-15 A	25-Jun-15	11				
TWFB-T1060	Erect Temp Ramp	0%	90	90	26-Jun-15	12-Oct-15	11				
Demolition of Existing Tai Wo Footbridge											
TWSR-West/ FL Highway N/B Side Section											
TWFB-T1230	Watermain & Firemain at NB58 & backfill	0%	52	52	15-Jul-15	12-Sep-15	64				
Noise Barrier Along Fanling Highway S/B											
NB51 (Ch.5935-6055)-FH S/B Side											
Noise Barrier Works											
NB02280	NB51 ID1-3 (0-25m) - Footing & Wall Structure	0%	90	90	20-May-15	04-Sep-15	364				
NB53 (Ch.6125-6300) -FH S/B Side (MTRC I&P Area)											
Noise Barrier Works											
NB02420	Coordinate with MTRC for Precautionary Measure	41.67%	35	60	20-Apr-15 A	02-Jul-15	834				
NB02430	Precautionary Measure installation	0%	26	26	03-Jul-15	01-Aug-15	834				
NB02490	NB53 ID2-3 (100-125m), 18nos Predrilling	0%	10	10	03-Aug-15	13-Aug-15	928				
NB02500	NB53 ID2-3 (100-125m) 18nos Piling- 1 rigs	0%	27	27	14-Aug-15	14-Sep-15	928				
NB02570	NB53 (125-180m) - Footing & Wall Structure	23.33%	46	60	23-Mar-15 A	15-Jul-15	799				
NB02580	NB53 (125-180m)- backfilling	0%	50	50	16-Jul-15	11-Sep-15	799				
NB02590	NB53 (125-180m) - NB production	0%	45	45	16-Jul-15	29-Aug-15	1334				
NB55 (Ch.6300-6360)-FH S/B Side (MTRC I&P Area)											
Noise Barrier Works											
NB02640	NB55 - Footing & Wall Structure	84.11%	24	151	07-Nov-14 A	17-Jun-15	952				
NB02650	NB55- backfilling	0%	50	50	18-Jun-15	17-Aug-15	952				
NB02660	NB55 - NB production	0%	45	45	18-Jun-15	01-Aug-15	1362				
NB02670	NB55 - NB post & panel installation	0%	5	5	03-Aug-15	07-Aug-15	1096				
NB56 (Ch.6360-6400)-FH S/B Side (MTRC I&P Area)											
Noise Barrier Works											
NB02720	NB56- backfilling	50%	25	50	20-Apr-15 A	18-Jun-15	1488				
NB02730	NB56 - NB production	0%	45	45	20-May-15	03-Jul-15	1391				

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2015			
								May	Jun	Jul	Aug
NB02740	NB56 - NB post & panel installation	0%	5	5	04-Jul-15	09-Jul-15	1121				
NB61 (Ch.6400-6560)-FH S/B Side (MTRC I&P Area)											
Noise Barrier Works											
NB02770	NB61 (0-50m) - Sheet piling & Excavation	0%	18	18	20-May-15	10-Jun-15	1044				
NB02780	NB61 (0-50m) - Footing & Wall Structure	0%	50	50	11-Jun-15	10-Aug-15	1044				
NB02790	NB61 (0-50m)- backfilling	0%	50	50	11-Aug-15	09-Oct-15	1044				
NB02800	NB61 (0-50m) - NB production	0%	45	45	11-Aug-15	24-Sep-15	1308				
NB02850	NB61 (50-160m) - NB production	0%	45	45	20-May-15	03-Jul-15	1391				
NB02860	NB61 (50-160m) - NB post & panel installation	0%	5	5	04-Jul-15	09-Jul-15	1121				
NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&P Area)											
Noise Barrier Works											
NB02920	NB61A (0-50m) - NB production	0%	45	45	20-May-15	03-Jul-15	1391				
NB02930	NB61A (0-50m) - NB post & panel installation	0%	5	5	04-Jul-15	09-Jul-15	1121				
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	54.29%	32	70	01-Apr-15 A	27-Jun-15	1090				
NB02980	NB61A ID2-3 (50-75m)- backfilling	0%	20	20	29-Jun-15	22-Jul-15	1105				
NB02990	NB61A ID2-3 (50-75m) - NB production	0%	45	45	27-Jun-15	11-Aug-15	1352				
NB03000	NB61A ID2-3 (50-75m) - NB post & panel installation	0%	5	5	11-Aug-15	17-Aug-15	1088				
NB03040	NB61A (75-190m) - NB production	0%	45	45	20-May-15	03-Jul-15	1391				
NB03050	NB61A (75-190m) - NB post & panel installation	0%	5	5	04-Jul-15	09-Jul-15	1121				
Other Works											
Site Clearance & Demolition of Existing Structure											
Contract Condition											
MCLT1030	Design Preparation	92.82%	14	195	06-Aug-14 A	05-Jun-15	19				
MCLT1040	Engineer approval	0%	12	12	06-Jun-15	19-Jun-15	19				
MCLT1050	Apply cert for exemption by DLO by Engineer	0%	0	0	06-Jun-15	06-Jun-15	31				
MCLT1060	Design available for construction	0%	0	0	22-Jun-15		19				◆ Design available for construction
MCLT1080	Construct New MCLT (Structure)	0%	90	90	22-Jun-15	07-Oct-15	19				
TCSS Works											
G54											
TCSS1500	Slow lane footing - G54 (NB61)	0%	0	0		20-May-15	1012				20-May-15 ◆ Slow lane footing - G54 (NB61)
South Buffer Zone 1 (SBZ1) (within Zone 2)(Ch.6740 to 6930)											
Noise Barrier Along TWSR-West and Laying New Utilities											
NB63A (Ch.6710-6840)-TWSR West Side											
Noise Barrier Works											
NB01090	NB63A-1 - NB production	0%	45	45	20-May-15	03-Jul-15	787				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10850	Sheet Piling & Excavation (~6m below ground) (along NB63A)	0%	26	26	15-Aug-15	14-Sep-15	9				
NB64 & NB64A (Ch.6860-6920)-TWSR West Side											
Noise Barrier Works											
NB001030	NB64 & NB64A -Footing & Wall Structure - 7 bays	0%	59	30	19-May-15 A	30-Jul-15	194				
NB001050	NB64 & NB64A-NB production	0%	45	45	31-Jul-15	13-Sep-15	715				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10900	Sheet Piling & Excavation (~5m below ground) (along NB64)	0%	21	21	16-Apr-15 A	13-Jun-15	196				
TSZ10910	DSD Trunk Sewer laying (along NB64)	0%	18	18	15-Jun-15	07-Jul-15	196				
TSZ10920	Backfill up to NB64 footing level	0%	6	6	08-Jul-15	14-Jul-15	196				
TSZ10930	Watermain installation (along NB64)	0%	30	30	15-Jul-15	18-Aug-15	196				
TSZ10940	Firemain installation (along NB64)	0%	30	30	19-Aug-15	22-Sep-15	196				
Underground Utility Works											
UUZ20220	Utility cable laying by Utility companies (Along NB64, 60m)	0%	24	24	31-Jul-15	27-Aug-15	194				
Bridge Construction											
Kau Lung Hang Vehicular Bridge											
KLH Bridge - West Ramp											
Z2.KLH.1002	West Abutment- Pile cap & Structural Wall	76.11%	27	113	20-Dec-14 A	22-Jun-15	92				
Z2.KLH.1140	West Ramp - Backfilling (5m-Dx112m-L)-change to Rock fill	0%	20	20	23-Jun-15	16-Jul-15	92				
Z2.KLH.1230	West Ramp - Road Slab	0%	90	90	17-Jul-15	02-Nov-15	102				
Advance Works for VBP3 construction											
Z2.KLH.1280	Pier VBP3 complete and road reinstatement work	0%	12	12	01-Aug-15	14-Aug-15	9				
Z2.KLH.1290	Affected NB construction at TWSR-W resume	0%	0	0	15-Aug-15		9				◆ Aff
KLH Bridge - Deck 1											
Z2.KLH.1014	Pier VBP1- Pile caps, pier and pier head construction	65.56%	31	90	11-Feb-15 A	26-Jun-15	108				
Z2.KLH.1022	Pier VBP2- Pile caps, pier and pier head construction	60.92%	34	87	03-Mar-15 A	30-Jun-15	105				
Z2.KLH.1045	Pier VBP3 Pile test	39.29%	17	28	09-May-15 A	09-Jun-15	28				
Z2.KLH.1047	Pending for Town gas diversion, due to VBP3 resizing VO	0%	8	5	15-May-15 A	29-May-15	9				
Z2.KLH.1050	Pier VBP3 Pile caps, pier and pier head construction	0%	52	52	30-May-15	31-Jul-15	9				
Z2.KLH.1120	Deck 1 - Bridge deck construction (West Abutment to VBP1)	0%	100	100	17-Jul-15	13-Nov-15	92				
Z2.KLH.1125	Deck 1 - Bridge deck construction (VBP1 to VBP2)	0%	100	100	02-Jul-15	29-Oct-15	105				
Z2.KLH.1130	Deck 1 - Bridge deck construction (VBP2 to VBP3)	0%	38	38	01-Aug-15	14-Sep-15	141				
KLH Bridge - Ramp R1											
Z2.KLH.1450	Ramp R1 - Pile caps and pier construction (R1P1)	0%	40	40	20-May-15	08-Jul-15	28				
Z2.KLH.1660	Ramp R1 - Pile caps and pier construction (R1P2)	0%	40	40	09-Jul-15	24-Aug-15	28				
Z2.KLH.1680	Ramp R1 - Ramp construction (Abutment R1 to R1P1)	0%	45	45	09-Jul-15	29-Aug-15	108				
KLH Bridge - Deck 3											
Z2.KLH.1360	VBP6 - Pile cap, pier construction	71.25%	23	80	26-Feb-15 A	16-Jun-15	13				

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2015			
								May	Jun	Jul	Aug
Z2.KLH.1370	Deck - East abutment to VBP8	0%	90	90	19-Aug-15	04-Dec-15	122				
Z2.KLH.1400	Deck - VBP7 to VBP8	0%	90	90	19-Aug-15	04-Dec-15	122				
Z2.KLH.1810	East Abutment - Pile caps, abutment wall construction	97.33%	4	150	20-Oct-14 A	23-May-15	193				
Z2.KLH.1850	VBP7 - Pile caps, pier and pier head construction	0%	75	75	18-May-15 A	18-Aug-15	43				
Z2.KLH.1890	VBP8 - Pile caps, pier and pier head construction	0%	75	75	20-May-15	18-Aug-15	122				
KLH Bridge - Deck 2											
Z2.KLH.1144	Deck 2 Precast concrete beam production (10 beams)	37.35%	52	83	16-Mar-15 A	10-Jul-15	20				
Z2.KLH.1146	Deck 2 Precast concrete beam available on site	0%	0	0		16-Jul-15	12				16-Jul-15 ♦ Deck 2 Precast concrete bear
Z2.KLH.1157	TTA for VBP4	65.38%	9	26	20-Apr-15 A	30-May-15	71				
Z2.KLH.1158	VBP4-Pre-drilling work	0%	15	15	01-Jun-15	17-Jun-15	71				
Z2.KLH.1160	VBP4- Pre-bored H-pile piling works (9 Nos.)	0%	27	27	16-Jun-15	18-Jul-15	71				
Z2.KLH.1170	VBP4- Pile cap, pier & pier head construction	0%	80	80	17-Jul-15	20-Oct-15	71				
Z2.KLH.1220	VBP5- Pile cap, pier, pier head construction	77.5%	18	80	27-Feb-15 A	10-Jun-15	18				
Z2.KLH.1222	VBP5 - Backfilling & Road Work for TTA for VBP4	0%	14	14	11-Jun-15	27-Jun-15	326				
Z2.KLH.1255	Relocate MTRC OHL for deck construction	0%	30	30	10-Jun-15	16-Jul-15	12				
Z2.KLH.1260	Beam Erection - Above MTRC rail track (2C) (Bet P5 to P6)	0%	30	30	17-Jul-15	23-Sep-15	6				
KLH Bridge - East Ramp											
Z2.KLH.1410	East Ramp - excavation	0%	42	18	08-Apr-15 A	10-Jul-15	263				
Z2.KLH.1420	East Ramp base slab & Abutment wall	0%	90	90	12-May-15 A	04-Sep-15	155				
KLH Bridge - Ramp R2											
Z2.KLH.1523	VO 028 - Boundary Wall to Hse 190B structure	0%	24	24	20-May-15	17-Jun-15	1112				
Z2.KLH.1524	VO 028 - Boundary Wall to Hse 190B E&M, Drainage	0%	26	26	18-Jun-15	20-Jul-15	1112				
Z2.KLH.1525	Ramp R2 - mini piling (0.32m-30nos) works - R2P4-5 & R2	51.11%	22	45	19-Mar-15 A	15-Jun-15	66				
Z2.KLH.1530	Ramp R2 - Pile cap, abutment and pier construction	0%	120	120	16-Jun-15	07-Nov-15	66				
North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100)											
Site Formation											
Retaining Wall W76											
Structure Works											
Z4SF1090	Watermains installation	80%	8	40	10-Mar-15 A	29-May-15	6				
Z4SF1110	Backfilling up to road finishes level	0%	12	12	30-May-15	12-Jun-15	6				
Bridge Construction											
New Ho Ka Yuen Footbridge											
General											
HKY1050	Structure steel procurement (HKYB)	79.39%	34	165	10-Dec-14 A	22-Jun-15	164				
HKY1060	Steel Staircase & Ramp prefabrication (HKYB-TWSR-W)	0%	30	30	23-Jun-15	28-Jul-15	192				
HKY1070	Steel Staircase & Ramp available on site (HKYB-TWSR-W side)	0%	0	0	29-Jul-15		192				♦ Steel Staircase &
HKY1080	Steel Staircase & Ramp prefabrication (HKYB-TWSR-E side)	0%	40	40	23-Jun-15	08-Aug-15	137				
HKY1090	Steel Staircase & Ramp available on site (HKYB-TWSR-E side)	0%	0	0	10-Aug-15		137				♦ Steel S
HKY1100	Steel Bridge prefabrication (HKYB)	0%	50	50	23-Jun-15	20-Aug-15	238				
HKY1210	HKY footbridge design available for FLHY & TWSR-W section	81.88%	25	138	28-Oct-14 A	18-Jun-15	178				
TWSR-West/ FL Highway N/B Side Section											
HKY1278	HKYP7 - Remove existing structure	0%	30	30	20-May-15	25-Jun-15	52				
HKY1290	HKYP7 - Pre-bored H pile (6 nos)	0%	18	18	18-Jul-15	07-Aug-15	34				
HKY1310	HKYP7 - Pile cap, Pier and Pier Head	0%	30	30	08-Aug-15	11-Sep-15	34				
HKY1330	HKYAB4 - Pre-bored H pile (16 nos)	0%	48	48	12-May-15 A	17-Jul-15	16				
HKY1340	HKYAB4 - Pile Test	0%	28	28	18-Jul-15	14-Aug-15	19				
HKY1350	HKYAB4 - pile cap & abutment wall	0%	30	30	15-Aug-15	18-Sep-15	16				
TWSR-East FL Highway S/B Side Section											
HKY1580	HKYP3 - Pile cap, Pier and Pier Head	82.11%	22	123	24-Nov-14 A	15-Jun-15	182				
HKY1590	Erect Staircase (HKYFB-TWSR-E side)	0%	30	30	10-Aug-15	12-Sep-15	137				
HKY1760	HKYP4 - Pile cap, Pier and Pier Head	86.25%	22	160	15-Oct-14 A	15-Jun-15	212				
HKY1800	HKYP5 - Pile cap, Pier and Pier Head	85.99%	22	157	15-Oct-14 A	15-Jun-15	212				
Demolition of Existing Ho Ka Yuen Footbridge											
TWSR-East FL Highway S/B Side Section											
HKY1950	Erection of Temp Ramp at TWSR-E Existing Staircase location	50%	40	80	30-Mar-15 A	08-Jul-15	0				
HKY1960	Demolish existing TWSR-E existing Ramp	0%	60	60	09-Jul-15	16-Sep-15	0				
TWSR-East Construction											
Drainage & Road Works											
TWSR-East FL Highway S/B Side Section											
TWSRE1000	Road work for New TWSR-East	0%	150	150	13-Jun-15	10-Dec-15	6				
ZONE 4 (Ch. 7925 to 8700)											
Bridge Construction											
New Wo Hop Shek Pedstrian & Cycle Bridge											
General											
WHS1040	Structure steel procurement (WHSB)	79.88%	33	164	10-Dec-14 A	21-Jun-15	87				
WHS1050	Steel Ramp prefabrication (WHSB)	0%	50	50	22-Jun-15	19-Aug-15	74				
WHS1070	Steel Staircase prefabrication (WHSB)	0%	40	40	22-Jun-15	07-Aug-15	159				
WHS1080	Steel Staircase available on site (WHSB)	0%	0	0	08-Aug-15		159				♦ Steel Sta
TWSR-West/ FL Highway N/B Side Section											
WHS1170	WHSP2 - Pile Test	0%	28	28	20-May-15	16-Jun-15	14				
WHS1180	WHSP2 - Pile cap, Pier and Pier Head	0%	45	45	03-Jun-15	27-Jul-15	12				
WHS1220	WHSP6 - Pile cap, Pier and Pier Head	0%	45	45	18-Jul-15	08-Sep-15	12				

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2015			
								May	Jun	Jul	Aug
WHS1260	WHSAB1 - pile cap & abutment wall	0%	30	30	20-May-15	25-Jun-15	168				
WHS1270	WHSAB1 - Backfilling (~4m)	0%	27	27	26-Jun-15	28-Jul-15	168				
WHS1898	WHSP3 - Pile cap, Pier and Pier Head	0%	30	30	20-May-15	25-Jun-15	60				
WHS1930	WHSP4 - Pile cap, Pier and Pier Head	0%	30	30	26-Jun-15	31-Jul-15	60				
WHS1970	WHSP5 - Pile cap, Pier and Pier Head	0%	30	30	01-Aug-15	04-Sep-15	60				
Crossing Fanling Highway Section											
WHS1470	WHSP1 - Pile cap, Pier and Pier Head	86.67%	34	255	18-Jun-14 A	30-Jun-15	101				
WHS1480	Erect WHS bridge Structure across fanling highway	0%	90	90	28-Jul-15	12-Nov-15	79				
TWSR-East FL Highway S/B Side Section											
WHS2090	North Abutment Wall (AW1) - Backfilling (~6m)	20%	48	60	02-Apr-15 A	17-Jul-15	87				
Slip Road Y Construction											
Drainage & Road Works											
TWSR-East FL Highway S/B Side Section											
RDZ41000	Construct Slip Rd Y (Ch8250-8370)(SA340) (Z4	68.82%	29	93	02-Mar-15 A	24-Jun-15	4				
RDZ41010	Construct Slip Rd Y (Ch8100-8250)(SA342) (Z4	0%	95	95	25-Jun-15	16-Oct-15	4				
RDZ41020	Construct Slip Rd Y @ existing TWSR-E junction	0%	70	70	10-Jul-15	30-Sep-15	81				
Underground Utility Works											
DN600 and DN900 Watermain											
DN1010	DN600 & DN900 watermain laying (Ch8100-8250)(SA342) (near Z4	0%	75	75	25-Jun-15	21-Sep-15	16				
VO - Wall 76A Construction											
Retaining Wall W76A											
TWSR-East FL Highway S/B Side Section											
W76A1020	W76A construction (bay 9)	0%	12	12	27-May-15	09-Jun-15	0				
W76A1026	WSD installation for Caltex (CS)	0%	5	5	20-May-15	26-May-15	0				
W76A1030	W76A backfilling work (bay 4,5,9)	0%	7	7	10-Jun-15	17-Jun-15	0				
W76A1050	Drainage work for Caltex access road	0%	150	150	18-Jun-15	15-Dec-15	870				
Fanling Highway Construction											
Drainage & Road Works											
TWSR-East FL Highway S/B Side Section											
HKY1412	Construct temp road for TWSR-East & FH S/B diversion	0%	21	21	13-Jun-15	09-Jul-15	81				
RDZ41005	Construct FH S/B Lane 1,2 (Ch8250-8370)(SA340) (Z4	68.09%	30	94	02-Mar-15 A	25-Jun-15	0				
RDZ41015	Construct FH S/B Lane 1,2 (Ch8100-8250)(SA342) (Z4	0%	98	98	26-Jun-15	22-Oct-15	0				
RDZ41025	Construct FH S/B Lane 1,2 @ existing TWSR-E junction	0%	60	60	10-Jul-15	17-Sep-15	145				
Other Works											
Retaining Wall W77A											
TWSR-East FL Highway S/B Side Section											
RWZ4.1060	Base slab & Wall (0-3m high)- RW77A (Ch.50-130)	30%	42	60	27-Feb-15 A	10-Jul-15	284				
RWZ4.1070	Backfilling (0-3m) - RW77A (Ch.50-130)	0%	30	30	11-Jul-15	14-Aug-15	359				
Retaining Wall W77B											
TWSR-East FL Highway S/B Side Section											
RWZ4.1100	Base slab & Wall (0-3m high)- RW77B (Ch 0-40)	0%	60	60	11-Jul-15	18-Sep-15	284				
TCSS Works											
TCSS Pre-Construction Works											
TCSS0100	Acquire Design Criteria from Drawing & procurement	22.78%	139	180	27-Feb-15 A	04-Nov-15	379				
DS50											
TCSS1590	Slow lane footing -DS50 (NB74)	0%	0	0		20-May-15	892				
FADS8											
TCSS1620	Slow lane footing - FADS8 (CH8220, S/B)	0%	30	30	26-Jun-15	31-Jul-15	862				

20-May-15 ◆ Slow lane footing -DS50 (NB74)

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2015			
								Jun	Jul	Aug	Sep
Contract Condition											
General											
Contract Condition											
POSSA323A	Site Area SA323A (360d) (not required)	0%	0	0	20-Jun-15*		-342				◆ Site Area SA323A (360d) (not required)
POSSA327	Site Area SA327 (180d)	0%	0	0	20-Jun-15*		-170				◆ Site Area SA327 (180d)
POSSA327A	Site Area SA327A (730d)	0%	0	0	18-Jul-15*		0				◆ Site Area SA327A (730d)
ZONE 1 (Ch. 5640 to 5880)											
Noise Barrier Along TWSR-West and Laying New Utilities											
NB42 (Ch.5640-5740)-TWSR West Side											
Noise Barrier Works											
NB00115	NB42 (Ch5640-5740) - Backfilling	0%	12	12	06-Aug-15	19-Aug-15	201				
NB00120	NB42 (Ch5640-5740) - NB production	0%	45	45	20-Jun-15	03-Aug-15	1385				
NB00130	NB42 (Ch5640-5740) - NB post & panel installation	0%	5	5	20-Aug-15	25-Aug-15	1101				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10130	Watermain installation (along NB42)	0%	30	30	22-Jun-15	27-Jul-15	341				
TSZ10140	Firemain installation (along NB42)	0%	30	30	28-Jul-15	31-Aug-15	341				
Underground Utility Works											
UUZ10100	Utility cable laying by Utility companies (Along NB42)	0%	38	38	22-Jun-15	05-Aug-15	201				
NB42A (Ch.5750-5810)-TWSR West Side											
Noise Barrier Works											
NB00190	NB42A (Ch5750-5810) - Footing & Wall Structure - 5 bays	86.89%	8	61	13-Apr-15 A	30-Jun-15	181				
NB00195	NB42A (Ch5750-5810) - backfilling	0%	12	12	29-Aug-15	11-Sep-15	181				
NB00200	NB42A (Ch5750-5810) - NB production	0%	45	45	01-Jul-15	14-Aug-15	1374				
NB00210	NB42A (Ch5750-5810) - NB post & panel installation	0%	5	5	12-Sep-15	17-Sep-15	1081				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10150	Sheet Piling & Excavation (~5m below ground) (along NB42A)	0%	18	18	22-Jun-15	13-Jul-15	181				
TSZ10180	Watermain installation (along NB42A)	0%	20	20	14-Jul-15	05-Aug-15	181				
TSZ10190	Firemain installation (along NB42A)	0%	20	20	06-Aug-15	28-Aug-15	181				
Underground Utility Works											
UUZ10110	Utility cable laying by Utility companies (Along NB42A)	0%	20	20	02-Jul-15	24-Jul-15	211				
NB47B (Ch.5820-5880)-TWSR West Side											
Noise Barrier Works											
NB00230	NB47B (Ch5820-5880)- Footing & Wall Structure - 4 bays	0%	30	30	14-Jul-15	17-Aug-15	171				
NB00235	NB47B (Ch5820-5880)- backfilling	0%	12	12	10-Sep-15	23-Sep-15	171				
NB00240	NB47B (Ch5820-5880) - NB production	0%	45	45	18-Aug-15	01-Oct-15	1326				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10200	Sheet Piling & Excavation (~5m below ground) (along NB47B)	0%	18	18	19-Jun-15 A	13-Jul-15	171				
TSZ10230	Watermain installation (along NB47B)	0%	20	20	14-Jul-15	05-Aug-15	181				
TSZ10240	Firemain installation (along NB47B)	0%	20	20	06-Aug-15	28-Aug-15	181				
Underground Utility Works											
UUZ10120	Utility cable laying by Utility companies (Along NB47B)	0%	20	20	18-Aug-15	09-Sep-15	171				
ZONE 2 (Ch. 5880 to 6930)											
Noise Barrier Along TWSR-West and Laying New Utilities											
Site Clearance & Demolition of Existing Structure											
Demolition Work											
Z2.P2N.1250	Construction of proposed SHRINE	0%	165	165	22-Jun-15	07-Jan-16	971				
NB47 (Ch.5880-5930)-TWSR West Side											
Noise Barrier Works											
NB00270	NB47 (Ch5880-5930)- Footing & Wall Structure - 5 bays	57.58%	28	66	11-Mar-15 A	24-Jul-15	59				
NB00280	NB47 (Ch5880-5930)- NB production	0%	45	45	25-Jul-15	07-Sep-15	1325				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10260	DSD Trunk Sewer laying (along NB47)	0%	18	18	25-Jul-15	14-Aug-15	59				
TSZ10270	Backfill up to NB47 footing level	0%	6	6	15-Aug-15	21-Aug-15	59				
TSZ10280	Watermain installation (along NB47)	0%	26	26	22-Aug-15	21-Sep-15	59				
NB47A (Ch.5950-5975)-TWSR West Side											
Noise Barrier Works											
NB00330	NB47A - backfilling	0%	12	12	13-Aug-15	26-Aug-15	195				
NB00335	Backfilling (Along NB47A-above ID1)	0%	12	12	25-Jul-15	07-Aug-15	211				
NB00340	NB47A - NB production	0%	45	45	20-Jun-15	03-Aug-15	1360				
NB00350	NB47A - NB post & panel installation	0%	5	5	27-Aug-15	01-Sep-15	1075				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10350	Sheet Piling & Excavation (~5m below ground) (along NB47A)	15.79%	16	19	05-May-15 A	10-Jul-15	28				
TSZ10380	Watermain installation (along NB47A)	0%	14	14	11-Jul-15	27-Jul-15	195				
TSZ10390	Firemain installation (along NB47A)	0%	14	14	28-Jul-15	12-Aug-15	195				
TSZ10560	Watermain & Firemain installation (Along NB47A-above ID1)	0%	28	28	22-Jun-15	24-Jul-15	211				
Underground Utility Works											
UUZ20110	Utility cable laying by Utility companies (Along NB47A)	0%	10	10	11-Jul-15	22-Jul-15	213				

	Project ID: DWP Rev 02 (1506)	<p align="center">Contract No. HY/2012/06</p> <p align="center">Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange</p> <p align="center">3 Month Rolling Program(20-Jun-15)</p>		Date	Revi...	C	Approved
	Layout: 3 Month Rolling Program			22-J...	IWP...		
Page 1 of 6				26-...	IWP...		
				13-...	WP ...		
				30-J...	WP ...		
					WP ...		

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2015			
								Jun	Jul	Aug	Sep
UUZ20240	Utility cable laying by Utility companies (Along NB47A-above)	0%	10	10	11-Jul-15	22-Jul-15	213				
NB48 (Ch.5995-6120)-TWSR West Side											
Noise Barrier Works											
NB00380	NB48 (Ch5995-6060) - Footing & Wall Structure - 4 bays	39.39%	40	66	18-Apr-15 A	07-Aug-15	175				
NB00400	NB48 (Ch5995-6060) - NB production	0%	45	45	08-Aug-15	21-Sep-15	1311				
NB00440	NB48 (Ch6060-6120) - Footing & Wall Structure - 5 bays	0%	40	40	15-Jun-15 A	07-Aug-15	179				
NB00460	NB48 (Ch6060-6120) - NB production	0%	45	45	08-Aug-15	21-Sep-15	1311				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10400	Sheet Piling & Excavation (~5m below ground) (along NB48, 0-60m)	41.67%	21	36	02-May-15 A	16-Jul-15	134				
TSZ10410	DSD Trunk Sewer laying (along NB48, 0-60m)	0%	18	18	17-Jul-15	06-Aug-15	134				
TSZ10420	Backfill up to NB48, 0-60m footing level	0%	6	6	07-Aug-15	13-Aug-15	134				
TSZ10430	Watermain installation (along NB48, 0-60m)	0%	30	30	14-Aug-15	17-Sep-15	134				
TSZ10440	Firemain installation (along NB48, 0-60m)	0%	30	30	18-Sep-15	26-Oct-15	134				
TSZ10450	Sheet Piling & Excavation (~5m below ground) (along NB48, 60-110m)	0%	26	26	22-Jun-15	22-Jul-15	111				
TSZ10460	DSD Trunk Sewer laying (along NB48, 60-110m)	0%	18	18	23-Jul-15	12-Aug-15	137				
TSZ10470	Backfill up to NB48, 60-110m footing level	0%	6	6	13-Aug-15	19-Aug-15	137				
TSZ10480	Watermain installation (along NB48, 60-110m)	0%	26	26	20-Aug-15	18-Sep-15	137				
TSZ10490	Firemain installation (along NB48, 60-110m)	0%	26	26	19-Sep-15	22-Oct-15	137				
Underground Utility Works											
UUZ20120	Utility cable laying by Utility companies (Along NB48, 0-60m)	0%	24	24	08-Aug-15	04-Sep-15	175				
UUZ20130	Utility cable laying by Utility companies (Along NB48, 60-110m)	0%	20	20	08-Aug-15	31-Aug-15	179				
NB49 (Ch.6145-6215)-TWSR West Side											
Noise Barrier Works											
NB00510	NB49 - Footing & Wall Structure - 5 bays	0%	54	54	22-Jun-15 A	24-Aug-15	83				
NB00530	NB49 - NB production	0%	45	45	25-Aug-15	08-Oct-15	1294				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10500	Sheet Piling & Excavation (~7m below ground) (along NB49)	0%	14	14	25-Aug-15	09-Sep-15	83				
TSZ10510	DSD Trunk Sewer laying (along NB49)	0%	12	12	10-Sep-15	23-Sep-15	83				
NB49B (Ch.6215-6235)-TWSR West Side											
Noise Barrier Works											
NB00550	NB49B piling (0.19m -20no)- rigs 1&2	0%	21	21	27-Jul-15*	19-Aug-15	0				
NB54 (Ch.6240-6280)-TWSR West Side											
Noise Barrier Works											
NB00620	NB54 - ID2-1 Sheet piling & excavation (~3m)	0%	18	18	22-Jun-15	13-Jul-15	37				
NB00630	NB54 - ID2-1 Footing & Wall Structure - 2 bays	0%	60	60	14-Jul-15	21-Sep-15	37				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10600	Sheet Piling & Excavation (~5m below ground) (along NB54)	0%	14	14	14-Jul-15	29-Jul-15	56				
TSZ10610	DSD Trunk Sewer laying (along NB54 except ID2-1 section)	0%	21	21	30-Jul-15	22-Aug-15	56				
TSZ10620	Backfill up to NB54 footing level	0%	6	6	24-Aug-15	29-Aug-15	56				
TSZ10630	Watermain installation (along NB54)	0%	30	30	31-Aug-15	06-Oct-15	120				
NB54A (Ch.6290-6350)-TWSR West Side											
Noise Barrier Works											
NB00750	NB54A pile testing	73.33%	8	30	12-Jun-15 A	30-Jun-15	167				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10650	Sheet Piling & Excavation (~5m below ground) (along NB54A)	0%	26	26	22-Jun-15	22-Jul-15	29				
TSZ10660	DSD Trunk Sewer laying (along NB54A)	0%	18	18	23-Jul-15	12-Aug-15	125				
TSZ10670	Backfill up to NB54A footing level	0%	6	6	13-Aug-15	19-Aug-15	125				
TSZ10680	Watermain installation (along NB54A)	0%	30	30	20-Aug-15	23-Sep-15	129				
NB57 (Ch.6365-6445)-TWSR West Side											
Noise Barrier Works											
NB00830	NB57 - Footing & Wall Structure - 7 bays	77.44%	60	266	15-Dec-14 A	04-Jan-16	77				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10774	Completion NB57 Bay 1 & 2 and preparation works	0%	26	25	02-May-15 A	22-Jul-15	77				
TSZ10775	Wash-out chamber water pipe diversion at the site access for NB57	0%	52	52	23-Jul-15	21-Sep-15	77				
NB58 (Ch.6445-6480)-TWSR West Side											
Noise Barrier Works											
NB00900	NB58 - Footing & Wall Structure - 3 bays	0%	50	50	26-Aug-15	26-Oct-15	114				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10750	Sheet Piling & Excavation (~5m below ground) (along NB58)	0%	21	21	11-Jul-15	04-Aug-15	28				
TSZ10760	DSD Trunk Sewer laying (along NB58)	0%	18	18	05-Aug-15	25-Aug-15	28				
TSZ10780	Watermain installation (along NB58)	0%	20	20	26-Aug-15	17-Sep-15	28				
TSZ10790	Firemain installation (along NB58)	0%	20	20	18-Sep-15	13-Oct-15	28				
NB59 (Ch.6490-6590)-TWSR West Side											
Noise Barrier Works											
NB00970	NB59 - Footing & Wall Structure - 9 bays	39.81%	62	103	02-May-15 A	02-Sep-15	139				
NB00990	NB59 - NB production	0%	45	45	03-Sep-15	17-Oct-15	1273				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10810	DSD Trunk Sewer laying (along NB59)	53.85%	30	65	08-Apr-15 A	27-Jul-15	123				
TSZ10820	Backfill up to NB59 footing level	0%	6	6	28-Jul-15	03-Aug-15	123				
TSZ10830	Watermain installation (along NB59)	0%	30	30	04-Aug-15	07-Sep-15	123				
TSZ10840	Firemain installation (along NB59)	0%	30	30	08-Sep-15	14-Oct-15	123				
Underground Utility Works											
UUZ20200	Utility cable laying by Utility companies (Along NB59, 0-95m)	0%	38	38	03-Sep-15	19-Oct-15	139				
NB63 (Ch.6610-6700)-TWSR West Side											

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2015				
								Jun	Jul	Aug	Sep	
Noise Barrier Works												
NB01040	NB63 - NB production	0%	45	45	20-Jun-15	03-Aug-15	1360					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10300	Sheet Piling & Excavation (~7m below ground) (along NB63)	0%	12	12	22-Jun-15	06-Jul-15	149					
TSZ10310	DSD Trunk Sewer laying (along NB63)	0%	18	18	07-Jul-15	27-Jul-15	149					
TSZ10330	Watermain installation (along NB63)	0%	30	30	28-Jul-15	31-Aug-15	149					
TSZ10340	Firemain installation (along NB63)	0%	30	30	01-Sep-15	07-Oct-15	149					
DSD Southern Trunk Sewer - Trenchless Construction												
TSZ10960	DSD Trunk Sewer laying (along NB63 - ID3-1)-Trenchless	0%	40	40	22-Jun-15	07-Aug-15	137					
TSZ10970	Both end manholes construction & trench sewer connection	0%	60	60	08-Aug-15	19-Oct-15	137					
TSZ11025	Town gas pipe jacking work	0%	101	101	31-Aug-15*	31-Dec-15	77					
Underground Utility Works												
UUZ20230	Utility cable laying by Utility companies (Along NB63~100m)	91.95%	12	149	27-Dec-14 A	06-Jul-15	227					
Bridge Construction												
New Tai Hang Footbridge												
General												
THBF0335	Structure steel Shop drawing approval (THFB)	81.13%	30	159	04-Dec-14 A	27-Jul-15	226					
THBF0340	Structure steel procurement (THFB)	0%	150	150	28-Jul-15	24-Dec-15	285					
TWSR-West/ FL Highway N/B Side Section												
THBF0140	THP5 - Pile cap, Pier and Pier Head	0%	45	45	22-Jun-15	13-Aug-15	454					
THBF0180	THP8, THP9 - Pile cap, Pier and Pier Head	0%	30	30	22-Jun-15	27-Jul-15	529					
THBF0220	THAB3 - pile cap & abutment wall	0%	30	30	22-Jun-15	27-Jul-15	502					
THBF0230	THAB3 - Backfilling (~4m)	0%	27	27	28-Jul-15	27-Aug-15	502					
THBF0235	Steel Staircase ready for erection (THFB-TWSR-W side)	0%	0	0		27-Aug-15	502					27-Aug-15 ♦ Steel Staircase ready for erection
THBF0270	THP6, THP7 - Pile cap, Pier and Pier Head	0%	30	30	22-Jun-15	27-Jul-15	439					
THBF0310	THAB2 - pile cap & abutment wall	0%	30	30	22-Jun-15	27-Jul-15	419					
THBF0320	THAB2 - Backfilling (~3m)	0%	20	20	28-Jul-15	19-Aug-15	419					
THBF0325	Steel Ramp ready for erection (THFB-TWSR-W side)	0%	0	0		19-Aug-15	419					19-Aug-15 ♦ Steel Ramp ready for erection
TWSR-East FL Highway S/B Side Section												
THBF0440	THAB1 - Predrilling	94.12%	3	51	20-Mar-15 A	24-Jun-15	341					
THBF0450	THAB1 - Pre-bored H pile (4 nos)	0%	12	12	17-Jul-15	30-Jul-15	323					
THBF0460	THAB1 - Pile Test	0%	28	28	31-Jul-15	27-Aug-15	448					
THBF0470	THAB1 - pile cap & abutment wall	0%	30	30	14-Aug-15	17-Sep-15	359					
THBF0480	THAB1 - Backfilling (~3m)	0%	20	20	18-Sep-15	13-Oct-15	359					
THBF0500	THP2 - Pre-bored H pile (8 nos)	0%	24	24	31-Jul-15	27-Aug-15	323					
THBF0510	THP2 - Pile Test	0%	28	28	28-Aug-15	24-Sep-15	482					
THBF0710	THP3 - Pre-bored H pile (4 nos)	0%	16	16	28-Aug-15	15-Sep-15	323					
THBF0720	THP3 - Pile Test	0%	28	28	16-Sep-15	13-Oct-15	463					
THBF0750	THP4 - Pre-bored H pile (4 nos)	0%	16	16	16-Sep-15	06-Oct-15	323					
New Tai Wo Footbridge												
General												
TWFB1030	Structure steel Shop drawing approval (TWFB)	81.13%	30	159	04-Dec-14 A	27-Jul-15	63					
TWFB1040	Structure steel procurement (TWFB)	0%	150	150	28-Jul-15	24-Dec-15	76					
TWSR-West/ FL Highway N/B Side Section												
TWFB1140	TWP1 - Pre-bored H pile (8 nos)	55.32%	21	47	22-Apr-15 A	16-Jul-15	117					
TWFB1150	TWP1 - Pile Test	0%	28	28	17-Jul-15	13-Aug-15	140					
TWFB1160	TWP1 - Pile cap, Pier and Pier Head	0%	45	45	31-Jul-15	21-Sep-15	117					
TWFB1220	TWAB2 - Pre-bored H pile (4 nos)	82.35%	6	34	18-Apr-15 A	27-Jun-15	121					
TWFB1230	TWAB2 - Pile Test	0%	28	28	27-Jun-15	25-Jul-15	146					
TWFB1240	TWAB2 - pile cap & abutment wall	0%	30	30	13-Jul-15	15-Aug-15	122					
TWFB1250	TWAB2 - Backfilling (~4m)	0%	27	27	17-Aug-15	16-Sep-15	972					
TWFB1280	TWP4, TWP5 - Pre-bored H pile (14 nos)	50%	24	48	11-May-15 A	20-Jul-15	191					
TWFB1290	TWP4, TWP5 - Pile Test	0%	28	28	21-Jul-15	17-Aug-15	239					
TWFB1300	TWP4, TWP5 - Pile cap, Pier and Pier Head	0%	30	30	04-Aug-15	07-Sep-15	188					
TWFB1320	TWAB1 - Pre-bored H pile (18 nos)	49.15%	30	59	27-Apr-15 A	27-Jul-15	167					
TWFB1330	TWAB1 - Pile Test	0%	28	28	28-Jul-15	24-Aug-15	211					
TWFB1340	TWAB1 - pile cap & abutment wall	0%	30	30	11-Aug-15	14-Sep-15	167					
TWFB1350	TWAB1 - Backfilling (~3m)	0%	20	20	15-Sep-15	09-Oct-15	178					
TWSR-East FL Highway S/B Side Section												
TWFB1480	Precautionary work for MTRC I&P area	0%	45	45	22-Jun-15	13-Aug-15	886					
TWFB1540	TWP3 - Predrilling	0%	12	12	14-Aug-15	27-Aug-15	886					
Temporary Tai Wo Footbridge												
Design Works												
TWFB-T1010	Design preparation	0%	60	60	22-Jun-15*	31-Aug-15	118					
TWFB-T1020	Engineer Comment	0%	26	26	01-Sep-15	02-Oct-15	118					
Construction Works												
TWFB-T1050	TTA for Temp ramp working space	86.67%	4	30	20-May-15 A	25-Jun-15	11					
TWFB-T1060	Erect Temp Ramp	0%	90	90	26-Jun-15	12-Oct-15	11					
Demolition of Existing Tai Wo Footbridge												
TWSR-West/ FL Highway N/B Side Section												
TWFB-T1230	Watermain & Firemain at NB58 & backfill	0%	52	52	26-Aug-15	28-Oct-15	28					

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2015					
								Jun	Jul	Aug	Sep		
Noise Barrier Along Fanling Highway S/B													
NB51 (Ch.5935-6055)-FH S/B Side													
Noise Barrier Works													
NB02280	NB51 ID1-3 (0-25m) - Footing & Wall Structure	0%	90	90	22-Jun-15	07-Oct-15	338						
NB53 (Ch.6125-6300) -FH S/B Side (MTRC I&P Area)													
Noise Barrier Works													
NB02420	Coordinate with MTRC for Precautionary Measure	41.67%	35	60	20-Apr-15 A	01-Aug-15	808						
NB02430	Precautionary Measure installation	0%	26	26	03-Aug-15	01-Sep-15	808						
NB02490	NB53 ID2-3 (100-125m), 18nos Predrilling	0%	10	10	02-Sep-15	12-Sep-15	902						
NB02500	NB53 ID2-3 (100-125m) 18nos Piling- 1 rigs	0%	27	27	14-Sep-15	16-Oct-15	902						
NB02570	NB53 (125-180m) - Footing & Wall Structure	50%	46	92	23-Mar-15 A	14-Aug-15	773						
NB02580	NB53 (125-180m)- backfilling	0%	50	50	15-Aug-15	14-Oct-15	773						
NB02590	NB53 (125-180m) - NB production	0%	45	45	15-Aug-15	28-Sep-15	1304						
NB55 (Ch.6300-6360)-FH S/B Side (MTRC I&P Area)													
Noise Barrier Works													
NB02640	NB55 - Footing & Wall Structure	86.36%	24	176	07-Nov-14 A	20-Jul-15	926						
NB02650	NB55- backfilling	0%	50	50	21-Jul-15	16-Sep-15	926						
NB02660	NB55 - NB production	0%	45	45	21-Jul-15	03-Sep-15	1329						
NB02670	NB55 - NB post & panel installation	0%	5	5	04-Sep-15	09-Sep-15	1068						
NB56 (Ch.6360-6400)-FH S/B Side (MTRC I&P Area)													
Noise Barrier Works													
NB02720	NB56- backfilling	50%	25	50	20-Apr-15 A	21-Jul-15	1462						
NB02730	NB56 - NB production	0%	45	45	20-Jun-15	03-Aug-15	1360						
NB02740	NB56 - NB post & panel installation	0%	5	5	04-Aug-15	08-Aug-15	1095						
NB61 (Ch.6400-6560)-FH S/B Side (MTRC I&P Area)													
Noise Barrier Works													
NB02770	NB61 (0-50m) - Sheet piling & Excavation	0%	18	18	22-Jun-15	13-Jul-15	1018						
NB02780	NB61 (0-50m) - Footing & Wall Structure	0%	50	50	14-Jul-15	09-Sep-15	1018						
NB02790	NB61 (0-50m)- backfilling	0%	50	50	10-Sep-15	10-Nov-15	1018						
NB02800	NB61 (0-50m) - NB production	0%	45	45	10-Sep-15	24-Oct-15	1278						
NB02850	NB61 (50-160m) - NB production	0%	45	45	20-Jun-15	03-Aug-15	1360						
NB02860	NB61 (50-160m) - NB post & panel installation	0%	5	5	04-Aug-15	08-Aug-15	1095						
NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&P Area)													
Noise Barrier Works													
NB02920	NB61A (0-50m) - NB production	0%	45	45	20-Jun-15	03-Aug-15	1360						
NB02930	NB61A (0-50m) - NB post & panel installation	0%	5	5	04-Aug-15	08-Aug-15	1095						
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	54.29%	32	70	01-Apr-15 A	29-Jul-15	1064						
NB02980	NB61A ID2-3 (50-75m)- backfilling	0%	20	20	30-Jul-15	21-Aug-15	1079						
NB02990	NB61A ID2-3 (50-75m) - NB production	0%	45	45	30-Jul-15	12-Sep-15	1320						
NB03000	NB61A ID2-3 (50-75m) - NB post & panel installation	0%	5	5	14-Sep-15	18-Sep-15	1060						
NB03040	NB61A (75-190m) - NB production	0%	45	45	20-Jun-15	03-Aug-15	1360						
NB03050	NB61A (75-190m) - NB post & panel installation	0%	5	5	04-Aug-15	08-Aug-15	1095						
Other Works													
Site Clearance & Demolition of Existing Structure													
Contract Condition													
MCLT1040	Engineer approval	0%	12	12	13-Jun-15 A	06-Jul-15	7						
MCLT1050	Apply cert for exemption by DLO by Engineer	0%	0	0	22-Jun-15	22-Jun-15	19						
MCLT1060	Design available for construction	0%	0	0	07-Jul-15		7						
MCLT1080	Construct New MCLT (Structure)	0%	90	90	07-Jul-15	22-Oct-15	7						
TCSS Works													
G54													
TCSS1500	Slow lane footing - G54 (NB61)	0%	0	0		22-Jun-15	986						
South Buffer Zone 1 (SBZ1) (within Zone 2)(Ch.6740 to 6930)													
Noise Barrier Along TWSR-West and Laying New Utilities													
NB63A (Ch.6710-6840)-TWSR West Side													
Noise Barrier Works													
NB01090	NB63A-1 - NB production	0%	45	45	20-Jun-15	03-Aug-15	756						
DSD Southern Trunk Sewer, Water Main Fire Main Works													
TSZ10850	Sheet Piling & Excavation(~6m below ground) (along NB63A)	0%	26	26	15-Aug-15	14-Sep-15	9						
TSZ10860	DSD Trunk Sewer laying (along NB63A)	0%	26	26	15-Sep-15	16-Oct-15	9						
NB64 & NB64A (Ch.6860-6920)-TWSR West Side													
Noise Barrier Works													
NB001030	NB64 & NB64A -Footing & Wall Structure - 7 bays	45%	33	60	19-May-15 A	30-Jul-15	194						
NB001050	NB64 & NB64A -NB production	0%	45	45	31-Jul-15	13-Sep-15	715						
DSD Southern Trunk Sewer, Water Main Fire Main Works													
TSZ10900	Sheet Piling & Excavation(~5m below ground) (along NB64)	57.14%	21	49	16-Apr-15 A	16-Jul-15	170						
TSZ10910	DSD Trunk Sewer laying (along NB64)	0%	18	18	17-Jul-15	06-Aug-15	170						
TSZ10920	Backfill up to NB64 footing level	0%	6	6	07-Aug-15	13-Aug-15	170						
TSZ10930	Watermain installation (along NB64)	0%	30	30	14-Aug-15	17-Sep-15	170						
TSZ10940	Firemain installation (along NB64)	0%	30	30	18-Sep-15	26-Oct-15	170						
Underground Utility Works													
UUZ20220	Utility cable laying by Utility companies (Along NB64, 60m)	0%	24	24	31-Jul-15	27-Aug-15	194						
Bridge Construction													
Kau Lung Hang Vehicular Bridge													

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2015				
								Jun	Jul	Aug	Sep	
KLH Bridge - West Ramp												
Z2.KLH.1140	West Ramp - Backfilling (5m-Dx112m-L)-change to Rock fill	0%	20	20	15-Jun-15 A	15-Jul-15	93					
Z2.KLH.1230	West Ramp - Road Slab	0%	90	90	16-Jul-15	31-Oct-15	103					
Advance Works for VBP3 construction												
Z2.KLH.1280	Pier VBP3 complete and road reinstatement work	0%	12	12	01-Aug-15	14-Aug-15	9					
Z2.KLH.1290	Affected NB construction at TWSR-W resume	0%	0	0	15-Aug-15		9					◆ Affected NB construction at TW
KLH Bridge - Deck 1												
Z2.KLH.1014	Pier VBP1 - Pile caps, pier and pier head construction	80.77%	20	104	11-Feb-15 A	15-Jul-15	93					
Z2.KLH.1022	Pier VBP2- Pile caps, pier and pier head construction	64.95%	34	97	03-Mar-15 A	31-Jul-15	79					
Z2.KLH.1050	Pier VBP3 Pile caps, pier and pier head construction	34.62%	34	52	30-May-15 A	31-Jul-15	9					
Z2.KLH.1120	Deck 1 - Bridge deck construction (West Abutment to VBP1)	0%	100	100	16-Jul-15	12-Nov-15	93					
Z2.KLH.1125	Deck 1 - Bridge deck construction (VBP1 to VBP2)	0%	100	100	01-Aug-15	28-Nov-15	79					
Z2.KLH.1130	Deck 1 - Bridge deck construction (VBP2 to VBP3)	0%	38	38	01-Aug-15	14-Sep-15	141					
KLH Bridge - Ramp R1												
Z2.KLH.1450	Ramp R1 - Pile caps and pier construction (R1P1)	0%	40	40	22-Jun-15	07-Aug-15	2					
Z2.KLH.1660	Ramp R1 - Pile caps and pier construction (R1P2)	0%	40	40	08-Aug-15	23-Sep-15	2					
Z2.KLH.1680	Ramp R1 - Ramp construction (Abutment R1 to R1P1)	0%	45	45	08-Aug-15	30-Sep-15	82					
KLH Bridge - Deck 3												
Z2.KLH.1360	VBP6 - Pile cap, pier construction	82.02%	16	89	26-Feb-15 A	10-Jul-15	7					
Z2.KLH.1370	Deck - East abutment to VBP8	0%	90	90	18-Sep-15	07-Jan-16	96					
Z2.KLH.1400	Deck - VBP7 to VBP8	0%	90	90	18-Sep-15	07-Jan-16	96					
Z2.KLH.1850	VBP7 - Pile caps, pier and pier head construction	37.66%	48	77	18-May-15 A	17-Aug-15	44					
Z2.KLH.1890	VBP8 - Pile caps, pier and pier head construction	0%	75	75	22-Jun-15	17-Sep-15	96					
KLH Bridge - Deck 2												
Z2.KLH.1144	Deck 2 Precast concrete beam production (10 beams)	82.05%	21	117	16-Mar-15 A	10-Jul-15	20					
Z2.KLH.1146	Deck 2 Precast concrete beam available on site	0%	0	0		10-Jul-15	17					◆ Deck 2 Precast concrete beam available on site
Z2.KLH.1159	Piling Rig Remobilisation Period due to TGC VO	0%	34	5	30-May-15 A	31-Jul-15	33					
Z2.KLH.1160	VBP4- Pre-bored H-pile piling works (9 Nos.)	0%	27	27	01-Aug-15	01-Sep-15	33					
Z2.KLH.1170	VBP4- Pile cap, pier & pier head construction	0%	80	80	31-Aug-15	04-Dec-15	33					
Z2.KLH.1220	VBP5- Pile cap, pier, pier head construction	90.48%	8	84	27-Feb-15 A	30-Jun-15	15					
Z2.KLH.1222	VBP5 - Backfilling & Road Work for TTA for VBP4	0%	14	14	02-Jul-15	17-Jul-15	310					
Z2.KLH.1260	Beam Erection - Above MTRC rail track (2C) (Bet P5 to P6)	0%	30	30	24-Jul-15	02-Oct-15	3					
KLH Bridge - East Ramp												
Z2.KLH.1410	East Ramp - excavation	22.08%	60	77	08-Apr-15 A	31-Aug-15	219					
Z2.KLH.1420	East Ramp base slab & Abutment wall	7.22%	90	97	12-May-15 A	07-Oct-15	129					
KLH Bridge - Ramp R2												
Z2.KLH.1523	VO 028 - Boundary Wall to Hse 190B structure	0%	24	24	22-Jun-15	20-Jul-15	1086					
Z2.KLH.1524	VO 028 - Boundary Wall to Hse 190B E&M, Drainage	0%	26	26	21-Jul-15	19-Aug-15	1086					
Z2.KLH.1525	Ramp R2 - mini piling (0.32m-30nos) works - R2P4-5 & R2	69.01%	22	71	19-Mar-15 A	17-Jul-15	40					
Z2.KLH.1530	Ramp R2 - Pile cap, abutment and pier construction	0%	120	120	18-Jul-15	08-Dec-15	40					
North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100)												
Site Formation												
Retaining Wall W76												
Structure Works												
Z4SF1110	Backfilling up to road finishes level	0%	12	12	22-Jun-15	06-Jul-15	63					
Bridge Construction												
New Ho Ka Yuen Footbridge												
General												
HKY1060	Steel Staircase & Ramp prefabrication (HKYB-TWSR-W)	0%	30	30	22-Jun-15	27-Jul-15	193					
HKY1070	Steel Staircase & Ramp available on site (HKYB-TWSR-W side)	0%	0	0	28-Jul-15		193					◆ Steel Staircase & Ramp available on site (HKY
HKY1080	Steel Staircase & Ramp prefabrication (HKYB-TWSR-E side)	0%	40	40	22-Jun-15	07-Aug-15	138					
HKY1090	Steel Staircase & Ramp available on site (HKYB-TWSR-E side)	0%	0	0	08-Aug-15		138					◆ Steel Staircase & Ramp available on
HKY1100	Steel Bridge prefabrication (HKYB)	0%	50	50	22-Jun-15	19-Aug-15	239					
HKY1110	Steel Bridge available on site (HKYB)	0%	0	0	20-Aug-15		239					◆ Steel Bridge available on
HKY1210	HKY footbridge design available for FLHY & TWSR-W section	86.56%	25	186	28-Oct-14 A	21-Jul-15	152					
TWSR-West/ FL Highway N/B Side Section												
HKY1278	HKYP7 - Remove existing structure	0%	30	30	18-Jul-15	21-Aug-15	4					
HKY1290	HKYP7 - Pre-bored H pile (6 nos)	0%	18	18	22-Aug-15	11-Sep-15	4					
HKY1310	HKYP7 - Pile cap, Pier and Pier Head	0%	30	30	12-Sep-15	19-Oct-15	4					
HKY1330	HKYAB4 - Pre-bored H pile (16 nos)	60%	22	55	12-May-15 A	17-Jul-15	4					
HKY1340	HKYAB4 - Pile Test	0%	28	28	18-Jul-15	14-Aug-15	19					
HKY1350	HKYAB4 - pile cap & abutment wall	0%	30	30	15-Aug-15	18-Sep-15	16					
HKY1360	HKYAB4 - Backfilling (~3m)	0%	12	12	19-Sep-15	05-Oct-15	16					
TWSR-East FL Highway S/B Side Section												
HKY1580	HKYP3 - Pile cap, Pier and Pier Head	86.25%	22	160	24-Nov-14 A	17-Jul-15	156					
HKY1590	Erect Staircase (HKYFB-TWSR-E side)	0%	30	30	08-Aug-15	11-Sep-15	138					
HKY1600	Finishes Work	0%	30	30	12-Sep-15	19-Oct-15	213					
HKY1760	HKYP4 - Pile cap, Pier and Pier Head	88.66%	22	194	15-Oct-14 A	17-Jul-15	186					
HKY1800	HKYP5 - Pile cap, Pier and Pier Head	88.66%	22	194	15-Oct-14 A	17-Jul-15	186					
HKY1860	Erect Steel Ramp (HKYFB-TWSR-E side)	0%	75	75	12-Sep-15	11-Dec-15	138					
Demolition of Existing Ho Ka Yuen Footbridge												

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2015				
								Jun	Jul	Aug	Sep	
TWSR-East FL Highway S/B Side Section												
HKY1950	Erection of Temp Ramp at TWSR-E Existing Staircase location	82.5%	14	80	30-Mar-15 A	08-Jul-15	0					
HKY1960	Demolish existing TWSR-E existing Ramp	0%	60	60	09-Jul-15	16-Sep-15	0					
HKY1970	1 lane of slip road Y space available	0%	0	0		16-Sep-15	0					16-Sep-15 ◆ 1
TWSR-East Construction												
Drainage & Road Works												
TWSR-East FL Highway S/B Side Section												
TWSRE1000	Road work for New TWSR-East	17.33%	124	150	15-May-15 A	17-Nov-15	26					
ZONE 4 (Ch. 7925 to 8700)												
Bridge Construction												
New Wo Hop Shek Pedstrian & Cycle Bridge												
General												
WHS1040	Structure steel procurement (WHSB)	98.45%	3	194	10-Dec-14 A	22-Jun-15	86					
WHS1050	Steel Ramp prefabrication (WHSB)	0%	50	50	23-Jun-15	20-Aug-15	73					
WHS1060	Steel Ramp available on site (WHSB)	0%	0	0	21-Aug-15		73					◆ Steel Ramp available on
WHS1070	Steel Staircase prefabrication (WHSB)	0%	40	40	23-Jun-15	08-Aug-15	158					
WHS1080	Steel Staircase available on site (WHSB)	0%	0	0	10-Aug-15		158					◆ Steel Staircase available on site (W
TWSR-West/ FL Highway N/B Side Section												
WHS1170	WHSP2 - Pile Test	60.71%	11	28	27-May-15 A	30-Jun-15	55					
WHS1180	WHSP2 - Pile cap, Pier and Pier Head	0%	45	45	22-Jun-15	13-Aug-15	42					
WHS1220	WHSP6 - Pile cap, Pier and Pier Head	0%	45	45	05-Aug-15	25-Sep-15	42					
WHS1228	WHSP7 - Pile cap, Pier and Pier Head	0%	45	45	22-Jun-15	13-Aug-15	79					
WHS1260	WHSAB1 - pile cap & abutment wall	0%	30	30	14-Aug-15	17-Sep-15	97					
WHS1270	WHSAB1 - Backfilling (~4m)	0%	27	27	18-Sep-15	22-Oct-15	97					
WHS1898	WHSP3 - Pile cap, Pier and Pier Head	0%	30	30	28-Jul-15	31-Aug-15	34					
WHS1930	WHSP4 - Pile cap, Pier and Pier Head	0%	30	30	22-Jun-15	27-Jul-15	34					
WHS1970	WHSP5 - Pile cap, Pier and Pier Head	0%	30	30	01-Sep-15	07-Oct-15	34					
Crossing Fanling Highway Section												
WHS1470	WHSP1 - Pile cap, Pier and Pier Head	97.37%	8	304	18-Jun-14 A	30-Jun-15	101					
WHS1480	Erect WHS bridge Structure across fanling highway	0%	90	90	14-Aug-15	30-Nov-15	64					
TWSR-East FL Highway S/B Side Section												
WHS2090	North Abutment Wall (AW1) - Backfilling (~6m)	74.12%	22	85	02-Apr-15 A	17-Jul-15	87					
Slip Road Y Construction												
Drainage & Road Works												
TWSR-East FL Highway S/B Side Section												
RDZ41000	Construct Slip Rd Y (Ch8250-8370)(SA340) (Z4	96.77%	3	93	02-Mar-15 A	24-Jun-15	4					
RDZ41010	Construct Slip Rd Y (Ch8100-8250)(SA342) (Z4	0%	95	95	25-Jun-15	16-Oct-15	4					
RDZ41020	Construct Slip Rd Y @ existing TWSR-E junction	0%	70	70	31-Jul-15	23-Oct-15	63					
RDZ41082	Construct Slip Rd Y (Ch7925-8050)(SA3460) - 1 lane @	0%	120	120	17-Sep-15	19-Feb-16	0					
Underground Utility Works												
DN600 and DN900 Watermain												
DN1010	DN600 & DN900 watermain laying (Ch8100-8250)(SA342) (near Z4	0%	75	75	25-Jun-15	21-Sep-15	16					
VO - Wall 76A Construction												
Retaining Wall W76A												
TWSR-East FL Highway S/B Side Section												
W76A1020	W76A construction (bay 9)	0%	12	12	27-Jun-15	11-Jul-15	0					
W76A1026	WSD installation for Caltex (CS)	0%	5	5	22-Jun-15	26-Jun-15	0					
W76A1030	W76A backfilling work (bay 4,5,9)	0%	7	7	13-Jul-15	20-Jul-15	0					
W76A1050	Drainage work for Caltex access road	0%	150	150	21-Jul-15	18-Jan-16	844					
Fanling Highway Construction												
Drainage & Road Works												
TWSR-East FL Highway S/B Side Section												
HKY1412	Construct temp road for TWSR-East & FH S/B diversion	0%	21	21	07-Jul-15	30-Jul-15	63					
RDZ41005	Construct FH S/B Lane 1,2 (Ch8250-8370)(SA340) (Z4	68.09%	30	94	02-Mar-15 A	27-Jul-15	0					
RDZ41015	Construct FH S/B Lane 1,2 (Ch8100-8250)(SA342) (Z4	0%	72	72	28-Jul-15	22-Oct-15	0					
RDZ41025	Construct FH S/B Lane 1,2 @ existing TWSR-E junction	0%	60	60	31-Jul-15	10-Oct-15	127					
Other Works												
Retaining Wall W77A												
TWSR-East FL Highway S/B Side Section												
RWZ4.1060	Base slab & Wall (0-3m high)- RW77A (Ch.50-130)	61.11%	42	108	27-Feb-15 A	10-Aug-15	258					
RWZ4.1070	Backfilling (0-3m) - RW77A (Ch.50-130)	0%	30	30	11-Aug-15	14-Sep-15	333					
Retaining Wall W77B												
TWSR-East FL Highway S/B Side Section												
RWZ4.1100	Base slab & Wall (0-3m high)- RW77B (Ch 0-40)	0%	60	60	11-Aug-15	22-Oct-15	258					
TCSS Works												
TCSS Pre-Construction Works												
TCSS0100	Acquire Design Criteria from Drawing & procurement	44.88%	113	205	27-Feb-15 A	04-Nov-15	379					
DS50												
TCSS1590	Slow lane footing -DS50 (NB74)	0%	0	0		22-Jun-15	866					22-Jun-15 ◆ Slow lane footing -DS50 (NB74)
FADS8												
TCSS1620	Slow lane footing - FADS8 (CH8220, S/B)	0%	30	30	28-Jul-15	31-Aug-15	836					

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2015			
								Jul	Aug	Sep	Oct
Contract Condition											
General											
Contract Condition											
KD16	KD-16 (883d) - N2: Connection of realigned Tai Wo Service Road East	0%	0	0		16-Oct-15*	62				16-Oct-15* ◆ K
POSSA323A	Site Area SA323A (360d) (not required)	0%	0	0	20-Jul-15*		-372				◆ Site Area SA323A (360d) (not required)
POSSA327	Site Area SA327 (180d)	0%	0	0	20-Jul-15*		-200				◆ Site Area SA327 (180d)
POSSA327A	Site Area SA327A (730d)	0%	0	0	20-Jul-15*		-2				◆ Site Area SA327A (730d)
ZONE 1 (Ch. 5640 to 5880)											
Noise Barrier Along TWSR-West and Laying New Utilities											
NB42 (Ch.5640-5740)-TWSR West Side											
Noise Barrier Works											
NB00110	NB42 (Ch5640-5740) - Footing & Wall Structure - 8 bays	36.71%	50	79	13-Feb-15 A	15-Sep-15	128				
NB00120	NB42 (Ch5640-5740) - NB production	0%	45	45	16-Sep-15	30-Oct-15	1297				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10130	Watermain installation (along NB42)	0%	30	30	16-Sep-15	23-Oct-15	268				
Underground Utility Works											
UUZ10100	Utility cable laying by Utility companies (Along NB42)	0%	38	38	16-Sep-15	02-Nov-15	128				
NB42A (Ch.5750-5810)-TWSR West Side											
Noise Barrier Works											
NB00190	NB42A (Ch5750-5810) - Footing & Wall Structure - 5 bays	23.08%	50	65	13-Apr-15 A	15-Sep-15	108				
NB00200	NB42A (Ch5750-5810) - NB production	0%	45	45	16-Sep-15	30-Oct-15	1297				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10150	Sheet Piling & Excavation (~5m below ground) (along NB42A)	0%	18	18	16-Sep-15	08-Oct-15	108				
TSZ10180	Watermain installation (along NB42A)	0%	20	20	09-Oct-15	02-Nov-15	108				
Underground Utility Works											
UUZ10110	Utility cable laying by Utility companies (Along NB42A)	0%	20	20	16-Sep-15	10-Oct-15	146				
NB47B (Ch.5820-5880)-TWSR West Side											
Noise Barrier Works											
NB00230	NB47B (Ch5820-5880)- Footing & Wall Structure - 4 bays	0%	30	30	14-Jul-15 A	22-Aug-15	146				
NB00235	NB47B (Ch5820-5880)- backfilling	0%	12	12	12-Oct-15	26-Oct-15	146				
NB00240	NB47B (Ch5820-5880) - NB production	0%	45	45	22-Aug-15	06-Oct-15	1321				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10230	Watermain installation (along NB47B)	0%	20	20	24-Aug-15	15-Sep-15	146				
TSZ10240	Firemain installation (along NB47B)	0%	20	20	16-Sep-15	10-Oct-15	146				
Underground Utility Works											
UUZ10120	Utility cable laying by Utility companies (Along NB47B)	0%	20	20	24-Aug-15	15-Sep-15	166				
Noise Barrier Along Fanling Highway S/B											
NB44 (Ch.5700-5760)-FH S/B Side											
Noise Barrier Works											
NB01385	NB44 - Excavation & Footing & Wall Structure (1 bays)	0%	50	50	20-Jul-15	15-Sep-15	1045				
NB01390	NB44 - NB production	0%	45	45	16-Sep-15	30-Oct-15	1297				
NB45 (Ch.5760-5820)-FH S/B Side											
Noise Barrier Works											
NB01435	NB45 - Excavation & Footing & Wall Structure (2 bays)	0%	50	50	20-Jul-15	15-Sep-15	1045				
NB01440	NB45 - NB production	0%	45	45	16-Sep-15	30-Oct-15	1297				
NB46 (Ch.5820-5880)-FH S/B Side											
Noise Barrier Works											
NB01490	NB46 - NB production	0%	45	45	20-Jul-15	02-Sep-15	1355				
NB01500	NB46 - NB post & panel installation	0%	5	5	03-Sep-15	08-Sep-15	1089				
ZONE 2 (Ch. 5880 to 6930)											
Noise Barrier Along TWSR-West and Laying New Utilities											
Site Clearance & Demolition of Existing Structure											
Demolition Work											
Z2.P2N.1250	Construction of proposed SHRINE	0%	165	165	20-Jul-15	03-Feb-16	948				
NB47 (Ch.5880-5930)-TWSR West Side											
Noise Barrier Works											
NB00270	NB47 (Ch5880-5930)- Footing & Wall Structure - 5 bays	78.18%	24	110	11-Mar-15 A	15-Aug-15	40				
NB00280	NB47 (Ch5880-5930)- NB production	0%	45	45	15-Aug-15	29-Sep-15	1303				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10260	DSD Trunk Sewer laying (along NB47)	0%	18	18	17-Aug-15	05-Sep-15	40				
TSZ10270	Backfill up to NB47 footing level	0%	6	6	07-Sep-15	12-Sep-15	40				
TSZ10280	Watermain installation (along NB47)	0%	26	26	14-Sep-15	15-Oct-15	40				
TSZ10290	Firemain installation (along NB47)	0%	26	26	16-Oct-15	16-Nov-15	40				
NB47A (Ch.5950-5975)-TWSR West Side											
Noise Barrier Works											
NB00330	NB47A - backfilling	0%	12	12	09-Sep-15	22-Sep-15	172				
NB00335	Backfilling (Along NB47A-above ID1)	0%	12	12	21-Aug-15	03-Sep-15	188				
NB00340	NB47A - NB production	0%	45	45	20-Jul-15	02-Sep-15	1330				
NB00350	NB47A - NB post & panel installation	0%	5	5	23-Sep-15	29-Sep-15	1052				
DSD Southern Trunk Sewer, Water Main Fire Main Works											

	Project ID: DWP Rev 02 (1507)	<p align="center">Contract No. HY/2012/06</p> <p align="center">Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange</p> <p align="center">3 Month Rolling Program(20-Jul-15)</p>		Date	Revi...	C	Approved
	Layout: 3 Month Rolling Program			22-J...	IWP...		
Page 1 of 6				26-...	IWP...		
				13-...	WP ...		
				30-J...	WP ...		
					WP ...		

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2015			
								Jul	Aug	Sep	Oct
TSZ10350	Sheet Piling & Excavation (~5m below ground) (along NB47A)	70.91%	16	55	05-May-15 A	06-Aug-15	5				
TSZ10380	Watermain installation (along NB47A)	0%	14	14	07-Aug-15	22-Aug-15	172				
TSZ10390	Firemain installation (along NB47A)	0%	14	14	24-Aug-15	08-Sep-15	172				
TSZ10560	Watermain & Firemain installation (Along NB47A-above ID1)	0%	28	28	20-Jul-15	20-Aug-15	188				
Underground Utility Works											
UUZ20110	Utility cable laying by Utility companies (Along NB47A)	0%	10	10	07-Aug-15	18-Aug-15	190				
UUZ20240	Utility cable laying by Utility companies (Along NB47A-above)	0%	10	10	07-Aug-15	18-Aug-15	190				
NB48 (Ch.5995-6120)-TWSR West Side											
Noise Barrier Works											
NB00380	NB48 (Ch5995-6060) - Footing & Wall Structure - 4 bays	81.52%	17	92	18-Apr-15 A	07-Aug-15	134				
NB00400	NB48 (Ch5995-6060) - NB production	0%	45	45	08-Aug-15	21-Sep-15	1311				
NB00440	NB48 (Ch6060-6120) - Footing & Wall Structure - 5 bays	0%	45	45	16-Sep-15	10-Nov-15	101				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10400	Sheet Piling & Excavation (~5m below ground) (along NB48, 0-60m)	66.13%	21	62	02-May-15 A	12-Aug-15	111				
TSZ10410	DSD Trunk Sewer laying (along NB48, 0-60m)	0%	18	18	13-Aug-15	02-Sep-15	111				
TSZ10420	Backfill up to NB48, 0-60m footing level	0%	6	6	03-Sep-15	09-Sep-15	111				
TSZ10430	Watermain installation (along NB48, 0-60m)	0%	30	30	10-Sep-15	16-Oct-15	111				
TSZ10440	Firemain installation (along NB48, 0-60m)	0%	30	30	17-Oct-15	21-Nov-15	111				
TSZ10450	Sheet Piling & Excavation (~5m below ground) (along NB48)	0%	26	26	20-Jul-15	18-Aug-15	88				
TSZ10460	DSD Trunk Sewer laying (along NB48, 60-110m)	0%	18	18	19-Aug-15	08-Sep-15	101				
TSZ10470	Backfill up to NB48, 60-110m footing level	0%	6	6	09-Sep-15	15-Sep-15	101				
TSZ10480	Watermain installation (along NB48, 60-110m)	0%	26	26	16-Sep-15	17-Oct-15	114				
TSZ10490	Firemain installation (along NB48, 60-110m)	0%	26	26	19-Oct-15	18-Nov-15	114				
Underground Utility Works											
UUZ20120	Utility cable laying by Utility companies (Along NB48, 0-60m)	0%	24	24	08-Aug-15	04-Sep-15	175				
NB49 (Ch.6145-6215)-TWSR West Side											
Noise Barrier Works											
NB00508	VO for using silent piler & silent piler mobilisation	27.78%	13	18	16-Jul-15 A	03-Aug-15	47				
NB00510	NB49 - Footing & Wall Structure - 5 bays	0%	54	54	04-Aug-15	07-Oct-15	47				
NB00530	NB49 - NB production	0%	45	45	08-Oct-15	21-Nov-15	1250				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10500	Sheet Piling & Excavation (~7m below ground) (along NB49)	0%	14	14	08-Oct-15	24-Oct-15	47				
NB49B (Ch.6215-6235)-TWSR West Side											
Noise Barrier Works											
NB00550	NB49B piling (0.19m -20no)- rigs 1&2	0%	21	21	27-Jul-15*	19-Aug-15	0				
NB54 (Ch.6240-6280)-TWSR West Side											
Noise Barrier Works											
NB00620	NB54 - ID2-1 Sheet piling & excavation (~3m)	0%	18	18	20-Jul-15	08-Aug-15	14				
NB00630	NB54 - ID2-1 Footing & Wall Structure - 2 bays	0%	60	60	10-Aug-15	20-Oct-15	14				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10600	Sheet Piling & Excavation (~5m below ground) (along NB54)	0%	14	14	10-Aug-15	25-Aug-15	33				
TSZ10610	DSD Trunk Sewer laying (along NB54 except ID2-1 section)	0%	21	21	26-Aug-15	18-Sep-15	33				
TSZ10620	Backfill up to NB54 footing level	0%	6	6	19-Sep-15	25-Sep-15	33				
TSZ10630	Watermain installation (along NB54)	0%	30	30	26-Sep-15	03-Nov-15	97				
NB54A (Ch.6290-6350)-TWSR West Side											
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10650	Sheet Piling & Excavation (~5m below ground) (along NB54A)	0%	26	26	13-Jul-15 A	18-Aug-15	63				
TSZ10660	DSD Trunk Sewer laying (along NB54A)	0%	18	18	19-Aug-15	08-Sep-15	102				
TSZ10670	Backfill up to NB54A footing level	0%	6	6	09-Sep-15	15-Sep-15	102				
TSZ10680	Watermain installation (along NB54A)	0%	30	30	16-Sep-15	23-Oct-15	106				
NB57 (Ch.6365-6445)-TWSR West Side											
Noise Barrier Works											
NB00830	NB57 - Footing & Wall Structure - 7 bays	80.52%	60	308	15-Dec-14 A	30-Jan-16	54				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10774	Completion NB57 Bay 1 & 2 and preparation works	61.19%	26	67	02-May-15 A	18-Aug-15	54				
TSZ10775	Wash-out chamber water pipe diversion at the site access for NB57	0%	52	52	19-Aug-15	20-Oct-15	54				
NB58 (Ch.6445-6480)-TWSR West Side											
Noise Barrier Works											
NB00900	NB58 - Footing & Wall Structure - 3 bays	0%	50	50	22-Sep-15	21-Nov-15	91				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10750	Sheet Piling & Excavation (~5m below ground) (along NB58)	0%	21	21	07-Aug-15	31-Aug-15	5				
TSZ10760	DSD Trunk Sewer laying (along NB58)	0%	18	18	01-Sep-15	21-Sep-15	5				
TSZ10780	Watermain installation (along NB58)	0%	20	20	22-Sep-15	16-Oct-15	5				
TSZ10790	Firemain installation (along NB58)	0%	20	20	17-Oct-15	10-Nov-15	5				
NB59 (Ch.6490-6590)-TWSR West Side											
Noise Barrier Works											
NB00970	NB59 - Footing & Wall Structure - 9 bays	39.81%	62	103	02-May-15 A	30-Sep-15	116				
NB00990	NB59 - NB production	0%	45	45	01-Oct-15	14-Nov-15	1245				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10810	DSD Trunk Sewer laying (along NB59)	67.03%	30	91	08-Apr-15 A	22-Aug-15	100				
TSZ10820	Backfill up to NB59 footing level	0%	6	6	24-Aug-15	29-Aug-15	100				
TSZ10830	Watermain installation (along NB59)	0%	30	30	31-Aug-15	06-Oct-15	100				
TSZ10840	Firemain installation (along NB59)	0%	30	30	07-Oct-15	11-Nov-15	100				
Underground Utility Works											
UUZ20200	Utility cable laying by Utility companies (Along NB59, 0-95m)	0%	38	38	02-Oct-15	16-Nov-15	116				

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2015				
								Jul	Aug	Sep	Oct	
NB63 (Ch.6610-6700)-TWSR West Side												
Noise Barrier Works												
NB01040	NB63 - NB production	0%	45	45	20-Jul-15	02-Sep-15	1330					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10300	Sheet Piling & Excavation (~7m below ground) (along NB63)	0%	12	12	20-Jul-15	01-Aug-15	126					
TSZ10310	DSD Trunk Sewer laying (along NB63)	0%	18	18	03-Aug-15	22-Aug-15	126					
TSZ10330	Watermain installation (along NB63)	0%	30	30	24-Aug-15	26-Sep-15	126					
TSZ10340	Firemain installation (along NB63)	0%	30	30	29-Sep-15	04-Nov-15	126					
DSD Southern Trunk Sewer - Trenchless Construction												
TSZ10960	DSD Trunk Sewer laying (along NB63 - ID3-1)-Trenchless	57.5%	17	40	22-Jun-15 A	07-Aug-15	137					
TSZ10970	Both end manholes construction & trench sewer connection	0%	60	60	08-Aug-15	19-Oct-15	137					
TSZ11025	Town gas pipe jacking work	0%	101	101	31-Aug-15*	31-Dec-15	77					
TSZ11035	DSD trunk sewer along NB63	38.33%	37	60	10-Jul-15 A	31-Aug-15	392					
Underground Utility Works												
UZZ20230	Utility cable laying by Utility companies (Along NB63-100m)	91.95%	12	149	27-Dec-14 A	01-Aug-15	204					
Bridge Construction												
New Tai Hang Footbridge												
General												
THBF0335	Structure steel Shop drawing approval (THFB)	83.78%	30	185	04-Dec-14 A	22-Aug-15	203					
THBF0340	Structure steel procurement (THFB)	0%	150	150	22-Aug-15	19-Jan-16	259					
TWSR-West/ FL Highway N/B Side Section												
THBF0140	THP5 - Pile cap, Pier and Pier Head	0%	45	45	20-Jul-15	09-Sep-15	431					
THBF0180	THP8, THP9 - Pile cap, Pier and Pier Head	0%	62	30	13-Jul-15 A	30-Sep-15	474					
THBF0220	THAB3 - pile cap & abutment wall	0%	30	30	20-Jul-15	22-Aug-15	479					
THBF0230	THAB3 - Backfilling (~4m)	0%	27	27	24-Aug-15	23-Sep-15	479					
THBF0235	Steel Staircase ready for erection (THFB-TWSR-W side)	0%	0	0		30-Sep-15	474					30-Sep-15 ♦ Steel Staircase
THBF0270	THP6, THP7 - Pile cap, Pier and Pier Head	0%	30	30	20-Jul-15	22-Aug-15	416					
THBF0310	THAB2 - pile cap & abutment wall	0%	30	30	20-Jul-15	22-Aug-15	396					
THBF0320	THAB2 - Backfilling (~3m)	0%	20	20	24-Aug-15	15-Sep-15	396					
THBF0325	Steel Ramp ready for erection (THFB-TWSR-W side)	0%	0	0		15-Sep-15	396					15-Sep-15 ♦ Steel Ramp ready for erection
TWSR-East FL Highway S/B Side Section												
THBF0450	THAB1 - Pre-bored H pile (4 nos)	0%	12	12	03-Aug-15	15-Aug-15	309					
THBF0460	THAB1 - Pile Test	0%	28	28	15-Aug-15	12-Sep-15	432					
THBF0470	THAB1 - pile cap & abutment wall	0%	30	30	31-Aug-15	06-Oct-15	345					
THBF0480	THAB1 - Backfilling (~3m)	0%	20	20	07-Oct-15	30-Oct-15	345					
THBF0500	THP2 - Pre-bored H pile (8 nos)	0%	24	24	17-Aug-15	12-Sep-15	309					
THBF0510	THP2 - Pile Test	0%	28	28	12-Sep-15	10-Oct-15	466					
THBF0710	THP3 - Pre-bored H pile (4 nos)	0%	16	16	14-Sep-15	03-Oct-15	309					
THBF0720	THP3 - Pile Test	0%	28	28	03-Oct-15	31-Oct-15	445					
THBF0730	THP3 - Pile cap, Pier and Pier Head	0%	45	45	19-Oct-15	10-Dec-15	355					
THBF0750	THP4 - Pre-bored H pile (4 nos)	0%	16	16	05-Oct-15	23-Oct-15	309					
New Tai Wo Footbridge												
General												
TWFB1030	Structure steel Shop drawing approval (TWFB)	83.78%	30	185	04-Dec-14 A	22-Aug-15	40					
TWFB1040	Structure steel procurement (TWFB)	0%	150	150	22-Aug-15	19-Jan-16	50					
TWSR-West/ FL Highway N/B Side Section												
TWFB1140	TWP1 - Pre-bored H pile (8 nos)	82.86%	12	70	22-Apr-15 A	01-Aug-15	103					
TWFB1150	TWP1 - Pile Test	0%	28	28	01-Aug-15	29-Aug-15	124					
TWFB1160	TWP1 - Pile cap, Pier and Pier Head	0%	45	45	17-Aug-15	09-Oct-15	103					
TWFB1230	TWAB2 - Pile Test	0%	28	28	20-Jul-15	16-Aug-15	124					
TWFB1240	TWAB2 - pile cap & abutment wall	0%	30	30	03-Aug-15	05-Sep-15	104					
TWFB1250	TWAB2 - Backfilling (~4m)	0%	27	27	07-Sep-15	09-Oct-15	954					
TWFB1260	Steel Staircase ready for erection (THFB-TWSR-W side)	0%	0	0		09-Oct-15	954					09-Oct-15 ♦ Steel St
TWFB1280	TWP4, TWP5 - Pre-bored H pile (14 nos)	58.62%	24	58	11-May-15 A	15-Aug-15	168					
TWFB1290	TWP4, TWP5 - Pile Test	0%	28	28	15-Aug-15	12-Sep-15	213					
TWFB1300	TWP4, TWP5 - Pile cap, Pier and Pier Head	0%	30	30	31-Aug-15	06-Oct-15	165					
TWFB1330	TWAB1 - Pile Test	0%	28	28	20-Jul-15	16-Aug-15	219					
TWFB1340	TWAB1 - pile cap & abutment wall	0%	30	30	03-Aug-15	05-Sep-15	174					
TWFB1350	TWAB1 - Backfilling (~3m)	0%	20	20	07-Sep-15	30-Sep-15	185					
TWFB1360	Steel Ramp ready for erection (TWFB-TWSR-W side)	0%	0	0		06-Oct-15	181					06-Oct-15 ♦ Steel Ram
TWSR-East FL Highway S/B Side Section												
TWFB1480	Precautionary work for MTRC I&P area	0%	45	45	20-Jul-15	09-Sep-15	863					
TWFB1540	TWP3 - Predrilling	0%	12	12	10-Sep-15	23-Sep-15	863					
Temporary Tai Wo Footbridge												
Design Works												
TWFB-T1010	Design preparation	0%	60	60	20-Jul-15*	26-Sep-15	95					
TWFB-T1020	Engineer Comment	0%	26	26	29-Sep-15	30-Oct-15	95					
Construction Works												
TWFB-T1060	Erect Temp Ramp	21.11%	71	90	18-Jul-15 A	12-Oct-15	11					
Demolition of Existing Tai Wo Footbridge												
TWSR-West/ FL Highway N/B Side Section												
TWFB-T1130	Demolish existing ramp & staircase at TWSR-W	0%	30	30	13-Oct-15	17-Nov-15	11					
TWFB-T1230	Watermain & Firemain at NB58 & backfill	0%	52	52	22-Sep-15	24-Nov-15	5					
Noise Barrier Along Fanling Highway S/B												

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2015				
								Jul	Aug	Sep	Oct	
NB51 (Ch.5935-6055)-FH S/B Side												
Noise Barrier Works												
NB02280	NB51 ID1-3 (0-25m) - Footing & Wall Structure	0%	90	90	20-Jul-15	04-Nov-15	635					
NB52 (Ch.6055-6125) -FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02362	Coordinate with MTRC for Precautionary Measure	0%	60	60	19-Oct-15	30-Dec-15	820					
NB53 (Ch.6125-6300) -FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02430	Precautionary Measure installation	0%	26	26	20-Jul-15	18-Aug-15	820					
NB02440	NB53 (0-100m) - Sheet piling & Excavation	0%	26	26	19-Aug-15	17-Sep-15	820					
NB02450	NB53 (0-100m) - Footing & Wall Structure	0%	60	60	18-Sep-15	30-Nov-15	820					
NB02490	NB53 ID2-3 (100-125m), 18nos Predrilling	0%	10	10	01-Sep-15	11-Sep-15	903					
NB02500	NB53 ID2-3 (100-125m) 18nos Piling- 1 rigs	0%	27	27	12-Sep-15	15-Oct-15	903					
NB02510	NB53 ID2-3 (100-125m) - Sheet piling & Excavation	0%	21	21	16-Oct-15	10-Nov-15	903					
NB02590	NB53 (125-180m) - NB production	0%	45	45	20-Jul-15	02-Sep-15	1330					
NB02600	NB53 (125-180m) - NB post & panel installation	0%	5	5	03-Sep-15	08-Sep-15	1069					
NB55 (Ch.6300-6360)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02640	NB55 - Footing & Wall Structure	88.12%	24	202	07-Nov-14 A	15-Aug-15	903					
NB02650	NB55- backfilling	0%	50	50	17-Aug-15	15-Oct-15	903					
NB02660	NB55 - NB production	0%	45	45	15-Aug-15	29-Sep-15	1303					
NB02670	NB55 - NB post & panel installation	0%	5	5	29-Sep-15	06-Oct-15	1047					
NB56 (Ch.6360-6400)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02730	NB56 - NB production	0%	45	45	20-Jul-15	02-Sep-15	1330					
NB02740	NB56 - NB post & panel installation	0%	5	5	03-Sep-15	08-Sep-15	1069					
NB61 (Ch.6400-6560)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02770	NB61 (0-50m) - Sheet piling & Excavation	0%	18	18	20-Jul-15	08-Aug-15	995					
NB02780	NB61 (0-50m) - Footing & Wall Structure	0%	50	50	10-Aug-15	08-Oct-15	995					
NB02790	NB61 (0-50m)- backfilling	0%	50	50	09-Oct-15	07-Dec-15	995					
NB02800	NB61 (0-50m) - NB production	0%	45	45	09-Oct-15	22-Nov-15	1249					
NB02850	NB61 (50-160m) - NB production	0%	45	45	20-Jul-15	02-Sep-15	1330					
NB02860	NB61 (50-160m) - NB post & panel installation	0%	5	5	03-Sep-15	08-Sep-15	1069					
NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02920	NB61A (0-50m) - NB production	0%	45	45	20-Jul-15	02-Sep-15	1330					
NB02930	NB61A (0-50m) - NB post & panel installation	0%	5	5	03-Sep-15	08-Sep-15	1069					
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	66.67%	32	96	01-Apr-15 A	25-Aug-15	1041					
NB02980	NB61A ID2-3 (50-75m)- backfilling	0%	20	20	26-Aug-15	17-Sep-15	1056					
NB02990	NB61A ID2-3 (50-75m) - NB production	0%	45	45	26-Aug-15	09-Oct-15	1293					
NB03000	NB61A ID2-3 (50-75m) - NB post & panel installation	0%	5	5	10-Oct-15	15-Oct-15	1039					
NB03040	NB61A (75-190m) - NB production	0%	45	45	20-Jul-15	02-Sep-15	1330					
NB03050	NB61A (75-190m) - NB post & panel installation	0%	5	5	03-Sep-15	08-Sep-15	1069					
Other Works												
Site Clearance & Demolition of Existing Structure												
Contract Condition												
MCLT1050	Apply cert for exemption by DLO by Engineer	0%	0	0	20-Jul-15	20-Jul-15	1462					
MCLT1080	Construct New MCLT (Structure)	0%	90	90	20-Jul-15	04-Nov-15	16					
TCSS Works												
G54												
TCSS1500	Slow lane footing - G54 (NB61)	0%	0	0			963					
20-Jul-15 ♦ Slow lane footing - G54 (NB61)												
South Buffer Zone 1 (SBZ1) (within Zone 2)(Ch.6740 to 6930)												
Noise Barrier Along TWSR-West and Laying New Utilities												
NB63A (Ch.6710-6840)-TWSR West Side												
Noise Barrier Works												
NB01090	NB63A-1 - NB production	0%	45	45	20-Jul-15	02-Sep-15	726					
NB64 & NB64A (Ch.6860-6920)-TWSR West Side												
Noise Barrier Works												
NB001030	NB64 & NB64A -Footing & Wall Structure - 7 bays	45%	33	60	19-May-15 A	26-Aug-15	135					
NB001050	NB64 & NB64A -NB production	0%	45	45	27-Aug-15	10-Oct-15	688					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10910	DSD Trunk Sewer laying (along NB64)	0%	18	18	27-Aug-15	16-Sep-15	135					
TSZ10920	Backfill up to NB64 footing level	0%	6	6	17-Sep-15	23-Sep-15	135					
TSZ10930	Watermain installation (along NB64)	0%	30	30	24-Sep-15	31-Oct-15	135					
Underground Utility Works												
UUZ20220	Utility cable laying by Utility companies (Along NB64, 60m)	0%	24	24	27-Aug-15	23-Sep-15	171					
Bridge Construction												
Kau Lung Hang Vehicular Bridge												
KLH Bridge - West Ramp												
Z2.KLH.1140	West Ramp - Backfilling (5m-Dx112m-L)-change to Rock fill	20%	20	25	15-Jun-15 A	11-Aug-15	70					
Z2.KLH.1230	West Ramp - Road Slab	0%	90	90	12-Aug-15	27-Nov-15	80					
KLH Bridge - Deck 1												
Z2.KLH.1014	Pier VBP1- Pile caps, pier and pier head construction	75.63%	29	119	11-Feb-15 A	21-Aug-15	61					
Z2.KLH.1022	Pier VBP2- Pile caps, pier and pier head construction	72.36%	34	123	03-Mar-15 A	27-Aug-15	56					
Z2.KLH.1050	Pier VBP3 Pile caps, pier and pier head construction	0%	77	52	30-May-15 A	19-Oct-15	0					

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2015			
								Jul	Aug	Sep	Oct
Z2.KLH.1120	Deck 1 - Bridge deck construction (West Abutment to VBP1)	0%	100	100	22-Aug-15	19-Dec-15	61				
Z2.KLH.1125	Deck 1 - Bridge deck construction (VBP1 to VBP2)	0%	100	100	28-Aug-15	28-Dec-15	56				
KLH Bridge - Ramp R1											
Z2.KLH.1450	Ramp R1 - Pile caps and pier construction (R1P1)	0%	62	40	02-Jul-15 A	30-Sep-15	202				
Z2.KLH.1660	Ramp R1 - Pile caps and pier construction (R1P2)	0%	62	40	02-Jul-15 A	30-Sep-15	162				
Z2.KLH.1670	Ramp R1 - Pile caps and pier construction (R1P3)	0%	40	40	02-Oct-15	18-Nov-15	162				
Z2.KLH.1680	Ramp R1 - Ramp construction (Abutment R1 to R1P1)	0%	45	45	02-Oct-15	24-Nov-15	202				
Z2.KLH.1710	Ramp R1 - Abutment R1 - base slab & wall	0%	62	45	22-Jun-15 A	30-Sep-15	127				
Z2.KLH.1720	Ramp R1 - Abutment R1 - Top slab	0%	30	30	02-Oct-15	06-Nov-15	127				
KLH Bridge - Deck 3											
Z2.KLH.1370	Deck - East abutment to VBP8	0%	90	90	17-Oct-15	03-Feb-16	73				
Z2.KLH.1380	Deck - VBP6 to VBP7	0%	90	90	10-Oct-15	27-Jan-16	0				
Z2.KLH.1400	Deck - VBP7 to VBP8	0%	90	90	17-Oct-15	03-Feb-16	73				
Z2.KLH.1850	VBP7 - Pile caps, pier and pier head construction	36.84%	48	76	18-May-15 A	12-Sep-15	21				
Z2.KLH.1890	VBP8 - Pile caps, pier and pier head construction	0%	75	75	20-Jul-15	16-Oct-15	73				
KLH Bridge - Deck 2											
Z2.KLH.1159	Piling Rig Remobilisation Period due to TGC VO	94.23%	3	52	30-May-15 A	22-Jul-15	41				
Z2.KLH.1160	VBP4- Pre-bored H-pile piling works (9 Nos.)	0%	27	27	23-Jul-15	22-Aug-15	41				
Z2.KLH.1170	VBP4- Pile cap, pier & pier head construction	0%	80	80	21-Aug-15	25-Nov-15	41				
Z2.KLH.1222	VBP5 - Backfilling & Road Work	0%	14	14	20-Jul-15	04-Aug-15	295				
Z2.KLH.1260	Beam Erection - Above MTRC rail track (2C) (Bet P5 to P6)	0%	30	30	31-Jul-15	09-Oct-15	0				
Z2.KLH.1553	In situ concrete top slab & diaphragm (Above MTR Bet. P5 to P6)	0%	65	65	12-Oct-15	30-Mar-16	3				
KLH Bridge - East Ramp											
Z2.KLH.1410	East Ramp - excavation	50.41%	60	121	08-Apr-15 A	26-Sep-15	196				
Z2.KLH.1420	East Ramp base slab & Abutment wall	30.08%	86	123	12-May-15 A	30-Oct-15	110				
KLH Bridge - Ramp R2											
Z2.KLH.1523	VO 028 - Boundary Wall to Hse 190B structure	0%	24	24	20-Jul-15	15-Aug-15	1063				
Z2.KLH.1524	VO 028 - Boundary Wall to Hse 190B E&M, Drainage	0%	26	26	17-Aug-15	15-Sep-15	1063				
Z2.KLH.1530	Ramp R2 - Pile cap, abutment and pier construction	0%	120	120	20-Jul-15	09-Dec-15	39				
North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100)											
Site Formation											
Retaining Wall W76											
Structure Works											
Z4SF1110	Backfilling up to road finishes level	74.19%	8	31	22-Jun-15 A	28-Jul-15	95				
Bridge Construction											
New Ho Ka Yuen Footbridge											
General											
HKY1060	Steel Staircase & Ramp prefabrication (HKYB-TWSR-W)	0%	30	30	20-Jul-15	22-Aug-15	167				
HKY1070	Steel Staircase & Ramp available on site (HKYB-TWSR-W side)	0%	0	0	24-Aug-15		167				◆ Steel Staircase & Ramp available on site (HKYB-TWSR-W side)
HKY1080	Steel Staircase & Ramp prefabrication (HKYB-TWSR-E side)	0%	40	40	20-Jul-15	03-Sep-15	112				
HKY1090	Steel Staircase & Ramp available on site (HKYB-TWSR-E side)	0%	0	0	04-Sep-15		112				◆ Steel Staircase & Ramp available on site (HKYB-TWSR-E side)
HKY1100	Steel Bridge prefabrication (HKYB)	0%	50	50	20-Jul-15	15-Sep-15	213				
HKY1110	Steel Bridge available on site (HKYB)	0%	0	0	16-Sep-15		213				◆ Steel Bridge available on site (HKYB)
HKY1210	HKY footbridge design available for FLHY & TWSR-W section	88.21%	25	212	28-Oct-14 A	17-Aug-15	126				
TWSR-West/ FL Highway N/B Side Section											
HKY1278	HKYP7 - Remove existing structure	0%	30	30	20-Jul-15	22-Aug-15	0				
HKY1290	HKYP7 - Pre-bored H pile (6 nos)	0%	18	18	24-Aug-15	12-Sep-15	0				
HKY1310	HKYP7 - Pile cap, Pier and Pier Head	0%	30	30	14-Sep-15	20-Oct-15	0				
HKY1350	HKYAB4 - pile cap & abutment wall	0%	30	30	20-Jul-15	22-Aug-15	36				
HKY1360	HKYAB4 - Backfilling (~3m)	0%	12	12	24-Aug-15	05-Sep-15	36				
TWSR-East FL Highway S/B Side Section											
HKY1580	HKYP3 - Pile cap, Pier and Pier Head	88.17%	22	186	24-Nov-14 A	13-Aug-15	130				
HKY1590	Erect Staircase (HKYFB-TWSR-E side)	0%	30	30	04-Sep-15	10-Oct-15	112				
HKY1600	Finishes Work	0%	30	30	12-Oct-15	16-Nov-15	187				
HKY1760	HKYP4 - Pile cap, Pier and Pier Head	90%	22	220	15-Oct-14 A	13-Aug-15	160				
HKY1800	HKYP5 - Pile cap, Pier and Pier Head	90%	22	220	15-Oct-14 A	13-Aug-15	160				
HKY1860	Erect Steel Ramp (HKYFB-TWSR-E side)	0%	75	75	12-Oct-15	11-Jan-16	112				
Demolition of Existing Ho Ka Yuen Footbridge											
TWSR-East FL Highway S/B Side Section											
HKY1950	Erection of Temp Ramp at TWSR-E Existing Staircase location	82.5%	14	80	30-Mar-15 A	04-Aug-15	0				
HKY1960	Demolish existing TWSR-E existing Ramp	0%	37	37	05-Aug-15	16-Sep-15	0				
HKY1970	1 lane of slip road Y space available	0%	0	0		16-Sep-15	0				16-Sep-15 ◆ 1 lane of slip road Y space available
TWSR-East Construction											
Drainage & Road Works											
TWSR-East FL Highway S/B Side Section											
TWSRE1000	Road work for New TWSR-East	51.3%	75	154	15-May-15 A	16-Oct-15	52				
ZONE 4 (Ch. 7925 to 8700)											
Bridge Construction											
New Wo Hop Shek Pedstrian & Cycle Bridge											
General											
WHS1040	Structure steel procurement (WHSB)	98.46%	3	195	10-Dec-14 A	22-Jul-15	53				
WHS1050	Steel Ramp prefabrication (WHSB)	0%	50	50	23-Jul-15	18-Sep-15	45				
WHS1060	Steel Ramp available on site (WHSB)	0%	0	0	19-Sep-15		45				◆ Steel Ramp available on site (WHSB)
WHS1070	Steel Staircase prefabrication (WHSB)	0%	40	40	23-Jul-15	07-Sep-15	130				

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2015			
								Jul	Aug	Sep	Oct
WHS1080	Steel Staircase available on site (WHSB)	0%	0	0	08-Sep-15		130				◆ Steel Staircase available on site (WHSB)
TWSR-West/ FL Highway N/B Side Section											
WHS1180	WHSP2 - Pile cap, Pier and Pier Head	0%	45	45	20-Jul-15	09-Sep-15	16				
WHS1220	WHSP6 - Pile cap, Pier and Pier Head	0%	45	45	01-Sep-15	26-Oct-15	16				
WHS1228	WHSP7 - Pile cap, Pier and Pier Head	0%	45	45	20-Jul-15	09-Sep-15	53				
WHS1260	WHSAB1 - pile cap & abutment wall	0%	30	30	10-Sep-15	16-Oct-15	71				
WHS1270	WHSAB1 - Backfilling (~4m)	0%	27	27	17-Oct-15	18-Nov-15	71				
WHS1898	WHSP3 - Pile cap, Pier and Pier Head	0%	30	30	02-Jul-15 A	22-Aug-15	38				
WHS1930	WHSP4 - Pile cap, Pier and Pier Head	0%	30	30	02-Jul-15 A	22-Aug-15	38				
WHS1970	WHSP5 - Pile cap, Pier and Pier Head	0%	30	30	24-Aug-15	26-Sep-15	38				
Crossing Fanling Highway Section											
WHS1470	WHSP1 - Pile cap, Pier and Pier Head	97.37%	8	304	18-Jun-14 A	28-Jul-15	75				
WHS1480	Erect WHS bridge Structure across fanling highway	0%	90	90	10-Sep-15	29-Dec-15	38				
TWSR-East FL Highway S/B Side Section											
WHS2090	North Abutment Wall (AW1) - Backfilling (~6m)	74.12%	22	85	02-Apr-15 A	13-Aug-15	61				
Slip Road Y Construction											
Drainage & Road Works											
TWSR-East FL Highway S/B Side Section											
RDZ41000	Construct Slip Rd Y (Ch8250-8370)(SA340) (Z4	60.22%	37	93	02-Mar-15 A	31-Aug-15	1425				
RDZ41010	Construct Slip Rd Y (Ch8100-8250)(SA342) (Z4	61.05%	37	95	13-Jul-15 A	31-Aug-15	39				
RDZ41020	Construct Slip Rd Y @ existing TWSR-E junction	0%	70	70	22-Aug-15	14-Nov-15	95				
RDZ41082	Construct Slip Rd Y (Ch7925-8050)(SA3460) - 1 lane @	0%	120	120	17-Sep-15	19-Feb-16	0				
Underground Utility Works											
DN600 and DN900 Watermain											
DN1040	DN600 & DN900 watermain laying(Ch8370-8650)(SA340) (near	0%	62	62	20-Jul-15	30-Sep-15	68				
DN1050	DN600 & DN900 watermain laying complete (except DN600 lapping	0%	0	0		30-Sep-15	68				30-Sep-15 ◆ DN600 & DN900
DN1054	Watermain (DN900/1200) changeover for DN600 Works	0%	6	6	02-Oct-15	08-Oct-15	68				
DN1056	Laying DN600 section after DN900 changeover Works	0%	52	52	09-Oct-15	09-Dec-15	68				
VO - Wall 76A Construction											
Retaining Wall W76A											
TWSR-East FL Highway S/B Side Section											
W76A1020	W76A construction (bay 9)	50%	6	12	27-Jun-15 A	25-Jul-15	824				
W76A1030	W76A backfilling work (bay 4,5,9)	0%	7	7	27-Jul-15	03-Aug-15	824				
W76A1050	Drainage work for Caltex access road	0%	150	150	04-Aug-15	01-Feb-16	832				
Fanling Highway Construction											
Drainage & Road Works											
TWSR-East FL Highway S/B Side Section											
HKY1412	Construct temp road for TWSR-East & FH S/B diversion	0%	21	21	29-Jul-15	21-Aug-15	95				
RDZ41005	Construct FH S/B Lane 1,2 (Ch8250-8370)(SA340) (Z4	75%	30	120	02-Mar-15 A	22-Aug-15	813				
RDZ41015	Construct FH S/B Lane 1,2 (Ch8100-8250)(SA342) (Z4	58.33%	30	72	12-May-15 A	22-Aug-15	46				
RDZ41025	Construct FH S/B Lane 1,2 @ existing TWSR-E junction	0%	60	60	22-Aug-15	03-Nov-15	105				
RDZ41030	Realign Temp Road from TWSR-E to Petrol station (Z4 TTA-Stage 3)	0%	45	45	01-Sep-15	26-Oct-15	39				
Other Works											
Retaining Wall W77A											
TWSR-East FL Highway S/B Side Section											
RWZ4.1060	Base slab & Wall (0-3m high)- RW77A (Ch.50-130)	68.66%	42	134	27-Feb-15 A	05-Sep-15	232				
RWZ4.1070	Backfilling (0-3m) - RW77A (Ch.50-130)	0%	30	30	07-Sep-15	13-Oct-15	307				
Retaining Wall W77B											
TWSR-East FL Highway S/B Side Section											
RWZ4.1100	Base slab & Wall (0-3m high)- RW77B (Ch 0-40)	0%	60	60	07-Sep-15	18-Nov-15	232				
TCSS Works											
TCSS Pre-Construction Works											
TCSS0100	Acquire Design Criteria from Drawing & procurement	44.88%	113	205	27-Feb-15 A	01-Dec-15	356				
DS50											
TCSS1590	Slow lane footing -DS50 (NB74)	0%	0	0		20-Jul-15	843				20-Jul-15 ◆ Slow lane footing -DS50 (NB74)
FADS8											
TCSS1620	Slow lane footing - FADS8 (CH8220, S/B)	0%	30	30	24-Aug-15	26-Sep-15	813				

**APPENDIX C
IMPLEMENTATION SCHEDULE OF
ENVIRONMENTAL MITIGATION MEASURES
(EMIS)**

Appendix C - Implementation Schedule of Environmental Mitigation Measures (EMIS)

Air Quality – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			May 15	Jun 15	Jul 15
Air Quality during construction	Restricting heights from which materials are dropped, as far as practicable to minimize the fugitive dust arising from unloading/loading.	During construction	V	V	V
	All stockpiles of excavated materials or spoil of more than 50m ³ shall be enclosed, covered or dampened during dry or windy conditions.		V	+	V
	Effective water sprays shall be used to control potential dust emission sources such as unpaved haul roads and active construction areas.		@	+	V
	All spraying of materials and surfaces shall avoid excessive water usage.		V	V	V
	Vehicles that have the potential to create dust while transporting materials shall be covered, with the cover properly secured and extended over the edges of the side and tail boards.		V	V	V
	Materials shall be dampened, if necessary, before transportation.		V	V	V
	Travelling speeds shall be controlled to reduce traffic induced dust dispersion and re-suspension within the site from the operating haul trucks.		V	V	V
	Vehicle washing facilities shall be provided to minimize the quantity of material deposited on public roads.		V	+	@

Noise – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			May 15	Jun 15	Jul 15
Noise during construction	Use of silenced plant or plant equipped with mufflers or dampers in substitute of ordinary plant.	During construction	V	V	V
	Reduce the number of equipment and their percentage on-time.		V	V	V
	3.5 m and 5.5 m high temporary noise barrier at culvert construction work area (Figure 2a of the Environmental Permit).		#	#	#
	3 m high temporary noise barrier along the northern edge of Bridge 12 at ground level (Figure 2b of the Environmental Permit).		#	#	#
	2 m high temporary noise barrier along the northern edge of Bridge 12 at bridge level (Figure 2b of the Environmental Permit).		#	#	#
	2.5 m high temporary noise barrier along Tai Wo Service Road West (Figure 2c of the Environmental Permit).		#	#	#
	3.5m and 7m high temporary noise barrier along Tai Wo Services Road West near Tai Hang (Figure 2c of the Environmental Permit).		#	#	#
	7 m high temporary noise barrier along Tai Wo Service Road West near Tai Wo Footbridge work area (Figure 2d of the Environmental Permit).		#	#	#
	7 m high temporary noise barrier near Kiu Tau Footbridge work area (Figure 2d of the Environmental Permit).		#	#	#
	2.5 m high temporary noise barrier near river diversion work area (Figure 2e of the Environmental Permit).		#	#	#

Water Quality – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			May 15	Jun 15	Jul 15
Water quality during construction	Demolition and reconstruction of bridges <ul style="list-style-type: none"> - Prevent off-site migration through use of sheet piles. - Minimise duration of works as far as practical. - All sewer and drainage connections should be sealed to prevent debris, soil, sand, etc, from entering public sewers/drains. - Site surface runoff should be settled to remove sand/silt before it is discharged into the existing storm drains. 	During construction	V	@	V
	Road Widening Works, Earthworks and Culvert Extension Works <ul style="list-style-type: none"> - Wastewater generated from any concrete batching washdown of equipment or similar activities should be discharged into foul sewers, after the removal of settleable solids, and pH adjustment as necessary. All sewage discharges from the study area should meet the TM standards and approval from EPD through the licensing process is required. - Sand traps, oil interceptors and other pollution prevention installations should be provided, properly cleaned and maintained. - Runoff from exposed working areas, unfinished slopes and from unlined temporary channels should be directed to stilling basins and/or silt traps before discharging to the drainage outfalls. - Regular inspections of stilling basins and/or silt traps is required to ensure that sediment is not conveyed into the existing drainage system. - Open stockpiles should be covered with a tarpaulin cover. - During the wet season, any exposed top soils should be covered with a tarpaulin, shotcreted or hydroseeded. - Sand and silt from wash-water from vehicle washing should be settled out before discharging into storm drains. - Fuels should be stored in bunded areas such that spillage can be easily collected. 		+	@	V

Waste – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			May 15	Jun 15	Jul 15
Waste management during construction	<p>General Waste</p> <ul style="list-style-type: none"> - Transport of wastes off site as soon as possible. - Maintenance of accurate waste records. - Minimisation of waste generation for disposal (via reduction/recycling/re-use). - No on-site burning will be permitted. - Use of re-useable metal hoardings/signboards. 	During construction	@	@	@
	<p>Vegetation from site clearance</p> <ul style="list-style-type: none"> - Segregation of materials to facilitate disposal. - Mulching to reduce bulk and where possible review opportunities for the possible beneficial use within landscaping areas. 		V	V	V
	<p>Demolition Wastes</p> <ul style="list-style-type: none"> - Segregation of materials to facilitate disposal. - Appropriate stockpile management. 		V	V	V
	<p>Excavated Materials</p> <ul style="list-style-type: none"> - Segregation of materials to facilitate disposal / reuse. - Appropriate stockpile management. - Re-use of excavated material on or off site (where possible). - Special handling and disposal procedures in the event that contaminated materials are excavated. 		V	V	V
	<p>Construction Wastes</p> <ul style="list-style-type: none"> - Segregation of materials to facilitate recycling/reuse (within designated area in appropriate containers/stockpiles). - Appropriate stockpile management. - Planning to reduce over ordering and waste generation. - Recycling and re-use of materials where possible (e.g. metal, wood from formwork) - For material which cannot be re-used/recycled, collection should be carried out by an approved waste contractor for landfill disposal. 		@	V	V
	<p>Bentonite Slurries</p> <ul style="list-style-type: none"> - Bentonite slurries should be reused as far as possible. - Disposal in accordance with Practice Note For Professional Persons ProPECC PN 1/94. 		#	#	#

	<p>Chemical Wastes</p> <ul style="list-style-type: none"> - Storage within locked, covered and bunded area. - The storage area shall not be located adjacent to sensitive receivers e.g. drains. - Minimise waste production and recycle oils/solvents where possible. - A spill response procedure shall be in place and absorption material available for minor spillages. - Use appropriate and labelled containers. - Educate site workers on site cleanliness/waste management procedures. - If chemical wastes are to be generated, the contractor must register with EPD as a chemical waste producer. - The chemical wastes shall be collected by a licensed chemical waste collector. 		+	@	V
	<p>Municipal Wastes</p> <ul style="list-style-type: none"> - Waste shall be stored within a temporary refuse collection facility, in appropriate containers prior to collection and disposal. - Regular, daily collections are required by an approved waste collector. 		V	V	V

Ecology – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			May 15	Jun 15	Jul 15
Ecology during construction	<p>Accurate Delineation of Works Area</p> <ul style="list-style-type: none"> - Boundaries of proposed works areas shall be clearly identified and separated from external areas by a physical barrier to prevent encroachment of adjacent habitats. - Individual trees which fall within the works areas but which work plans do not require removal are to be retained and fenced off to maximize protection. 	During construction	V	V	V
	<p>Vegetation Clearance</p> <ul style="list-style-type: none"> - No fires shall be lit within the works area for the purpose of burning cleared vegetation. - The Contractor shall give consideration to mulching the cleared vegetation for recycling within the works area / adjacent land. 		V	V	V
	<p>Dust generation</p> <p>There are a number of measures which shall be taken as specified in the Air Pollution Control (Construction Dust) Regulation on 'Dust Control Requirements, including the following key measures to be applied during construction:</p> <ul style="list-style-type: none"> - Vehicle washing facilities to be provided at every discernible or designated vehicle exit point; - All temporary site access roads shall be sprayed with water to suppress dust as necessary; - All dusty materials should be sprayed with water immediately prior to any handling; and - All debris should be covered entirely by impervious sheeting or stored in a sheltered debris collection area. 		V	V	V
	<p>Surface Run-off</p> <p>In general, mitigation measures shall be in accordance with ProPECC PN1/94 on 'Construction Site Drainage'. Key measures include:</p> <ul style="list-style-type: none"> - Bund and cover stock piles to avoid run-off; - Channel any run-off through a system of oil, grease and sediment / silt traps and reuse water on site where ever practical; - All vehicle maintenance to be undertaken within a bunded area; and - Maximise vegetation retention on-site to maximise absorption (minimise transport). 		V	V	V

Landscape and Visual Impact – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			May 15	Jun 15	Jul 15
Landscape & Visual during construction	Preservation of Existing Vegetation - Trees identified for retention within the project limit would be protected during the works; - The tree transplanting and planting works shall be implemented by approved Landscape Contractors.	During construction	V	V	V
	Temporary Works Areas - Where feasible the works areas would be screened using hoarding and existing vegetation would be retained where possible to reduce the landscape and visual impacts arising from the construction activity. The landscape of these works areas would be restored following the completion of the construction phase.		V	V	V
	Hoarding - A hoarding would be erected where practicable in the most visually sensitive locations to screen the temporary construction works from the local VSRs.		V	V	V
	Top Soils - The works will result in disturbance to extensive areas of topsoil. Topsoil worthy of retention should be stockpiled for use following completion of the civil engineering works. It should either be temporarily vegetated with hydroseeded grass or turned over on a regular basis.		#	#	#
	Protection of Important Landscape Features - Important features such as temples, Island House and kilns within the study area, although remote from the proposed works retained and adequately protected.		#	#	#

Legend:

V = implemented;

x = not implemented;

@ = partially implemented;

+ = recommended and immediately implemented during the site inspection by the Contractor;

N/A = not applicable - No such work was undertaken or no such material was used on site;

= to be implemented.

**APPENDIX D
SUMMARY OF ACTION AND LIMIT LEVELS**

Appendix D - Summary of Action and Limit Levels

Table 1 – Action and Limit Levels for 1-hour TSP

Location	Action Level	Limit Level
AM2	317.8 µg/m ³	500 µg/m ³

Table 2 – Action and Limit Levels for 24-hour TSP

Location	Action Level	Limit Level
AM2	200.7 µg/m ³	260 µg/m ³

Table 3 – Action and Limit Levels for Construction Noise (0700-1900 hrs of normal weekdays)

Location	Action Level	Limit Level
M2	When one documented complaint, related to 0700 – 1900 hours on normal weekdays, is received from any one of the sensitive receivers	75 dB(A)
M3*		65/70 dB(A)

*Daytime noise Limit Level of 70 dB(A) applies to education institutions, while 65dB(A) applies during school examination period

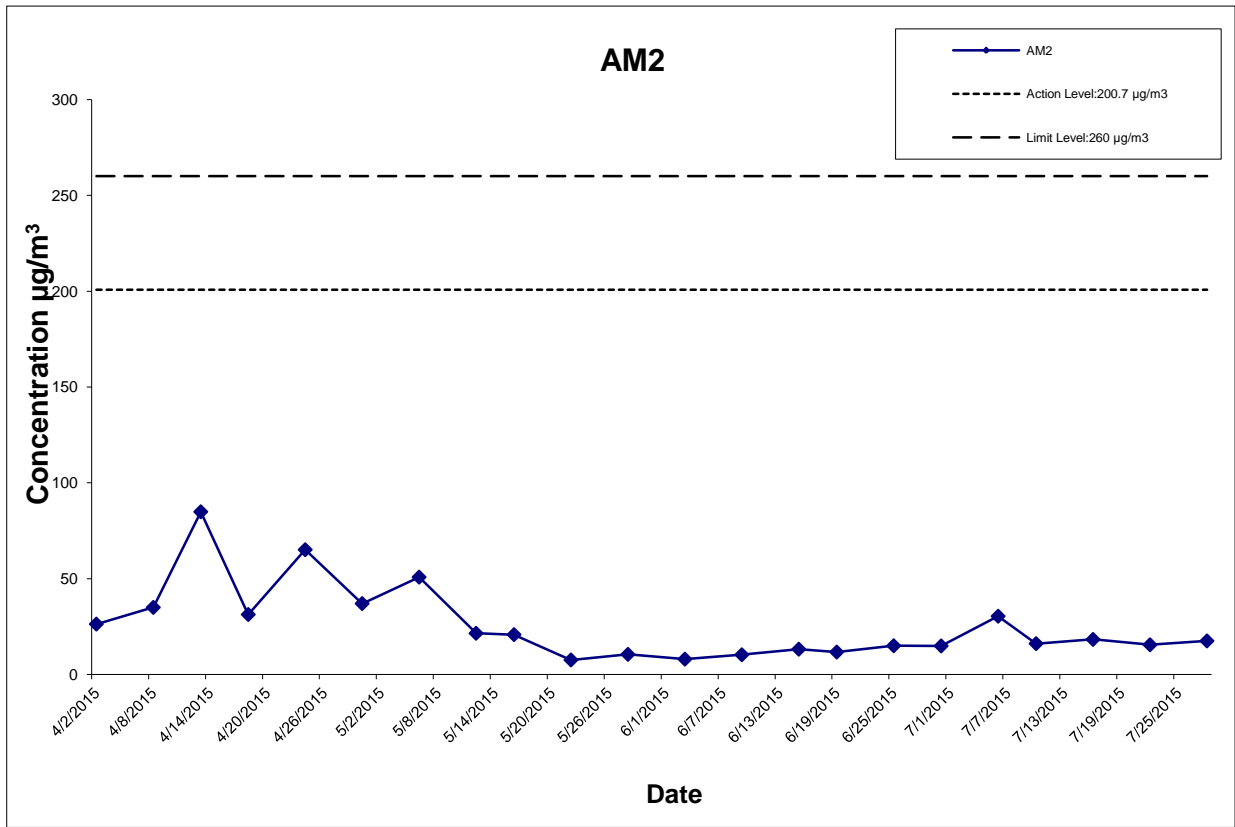
**APPENDIX E
IMPACT AIR QUALITY MONITORING
RESULTS AND THEIR GRAPHICAL
PRESENTATION**

Impact Air Quality Monitoring Results

24-hour TSP Monitoring Results at Station AM2 (Fanling Government Secondary School)

Date	Weather Condition	Air Temp. (°C)	Atmospheric Pressure(hPa)	Flow Rate (m ³ /min.)		Av. flow (m ³ /min)	Total vol. (m ³)	Filter Weight (g)		Particulate weight(g)	Elapse Time		Sampling Time(hrs.)	Conc. (µg/m ³)	Actino Level (µg/m ³)	Limit Level (µg/m ³)
				Initial	Final			Initial	Final		Initial	Final				
2-Apr-15	Sunny	16.2	1016.6	1.314	1.314	1.314	1892.2	2.7257	2.7755	0.0498	5354.03	5378.03	24.00	26.3	200.7	260
8-Apr-15	Fine	16.2	1021.9	1.314	1.314	1.314	1892.2	2.8830	2.9492	0.0662	5378.03	5402.03	24.00	35.0	200.7	260
13-Apr-15	Sunny	22.1	1013.0	1.314	1.314	1.314	1892.2	2.9012	3.0618	0.1606	5402.03	5426.03	24.00	84.9	200.7	260
18-Apr-15	Sunny	20.9	1018.9	1.314	1.314	1.314	1892.2	2.8555	2.9147	0.0592	5426.03	5450.03	24.00	31.3	200.7	260
24-Apr-15	Sunny	24.4	1017.6	1.314	1.314	1.314	1892.2	2.8645	2.9876	0.1231	5450.03	5474.03	24.00	65.1	200.7	260
30-Apr-15	Sunny	27.5	1011.0	1.314	1.314	1.314	1892.2	2.8907	2.9608	0.0701	5474.03	5498.03	24.00	37.0	200.7	260
6-May-15	Fine	26.8	1008.5	1.314	1.314	1.314	1892.2	2.8451	2.9412	0.0961	5498.03	5522.03	24.00	50.8	200.7	260
12-May-15	Fine	25.7	1012.2	1.314	1.314	1.314	1892.2	2.8437	2.8843	0.0406	5522.03	5546.03	24.00	21.5	200.7	260
16-May-15	Fine	26.7	1009.9	1.314	1.314	1.314	1892.2	2.8558	2.8951	0.0393	5546.03	5570.03	24.00	20.8	200.7	260
22-May-15	Cloudy	23.6	1008.8	1.314	1.314	1.314	1892.2	2.8802	2.8946	0.0144	5570.03	5594.03	24.00	7.6	200.7	260
28-May-15	Cloudy	30.0	1005.3	1.314	1.314	1.314	1892.2	2.8852	2.9050	0.0198	5594.03	5618.03	24.00	10.5	200.7	260
3-Jun-15	Sunny	29.9	1010.2	1.261	1.261	1.261	1815.8	2.8858	2.9004	0.0146	5618.03	5642.03	24.00	8.0	200.7	260
9-Jun-15	Sunny	29.9	1007.2	1.314	1.314	1.314	1892.2	2.9033	2.9228	0.0195	5642.03	5666.03	24.00	10.3	200.7	260
15-Jun-15	Sunny	30.2	1009.4	1.314	1.314	1.314	1892.2	2.7976	2.8226	0.0250	5666.03	5690.03	24.00	13.2	200.7	260
19-Jun-15	Fine	30.8	1006.1	1.314	1.314	1.314	1892.2	2.8802	2.9023	0.0221	5690.03	5714.03	24.00	11.7	200.7	260
25-Jun-15	Rainy	28.3	1005.8	1.314	1.314	1.314	1892.2	2.8790	2.9074	0.0284	5714.03	5738.03	24.00	15.0	200.7	260
30-Jun-15	Sunny	30.5	1007.9	1.314	1.314	1.314	1892.2	2.8013	2.8294	0.0281	5738.03	5762.03	24.00	14.9	200.7	260
6-Jul-15	Sunny	29.2	1001.3	1.314	1.314	1.314	1892.2	2.7982	2.8557	0.0575	5762.03	5786.03	24.00	30.4	200.7	260
10-Jul-15	Cloudy	29.9	1007.2	1.314	1.314	1.314	1892.2	2.8354	2.8659	0.0305	5786.03	5810.03	24.00	16.1	200.7	260
16-Jul-15	Sunny	30.2	1009.4	1.314	1.314	1.314	1892.2	2.7908	2.8254	0.0346	5810.03	5834.03	24.00	18.3	200.7	260
22-Jul-15	Rainy	30.8	1006.1	1.314	1.314	1.314	1892.2	2.7837	2.8131	0.0294	5834.03	5858.03	24.00	15.5	200.7	260
28-Jul-15	Fine	29.2	1012.1	1.314	1.314	1.314	1892.2	2.8064	2.8395	0.0331	5858.03	5882.03	24.00	17.5	200.7	260

Average for the reporting quarter (May 15 to Jul 15)	17.6
Minimum for the reporting quarter (May 15 to Jul 15)	7.6
Maximum for the reporting quarter (May 15 to Jul 15)	50.8



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 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE

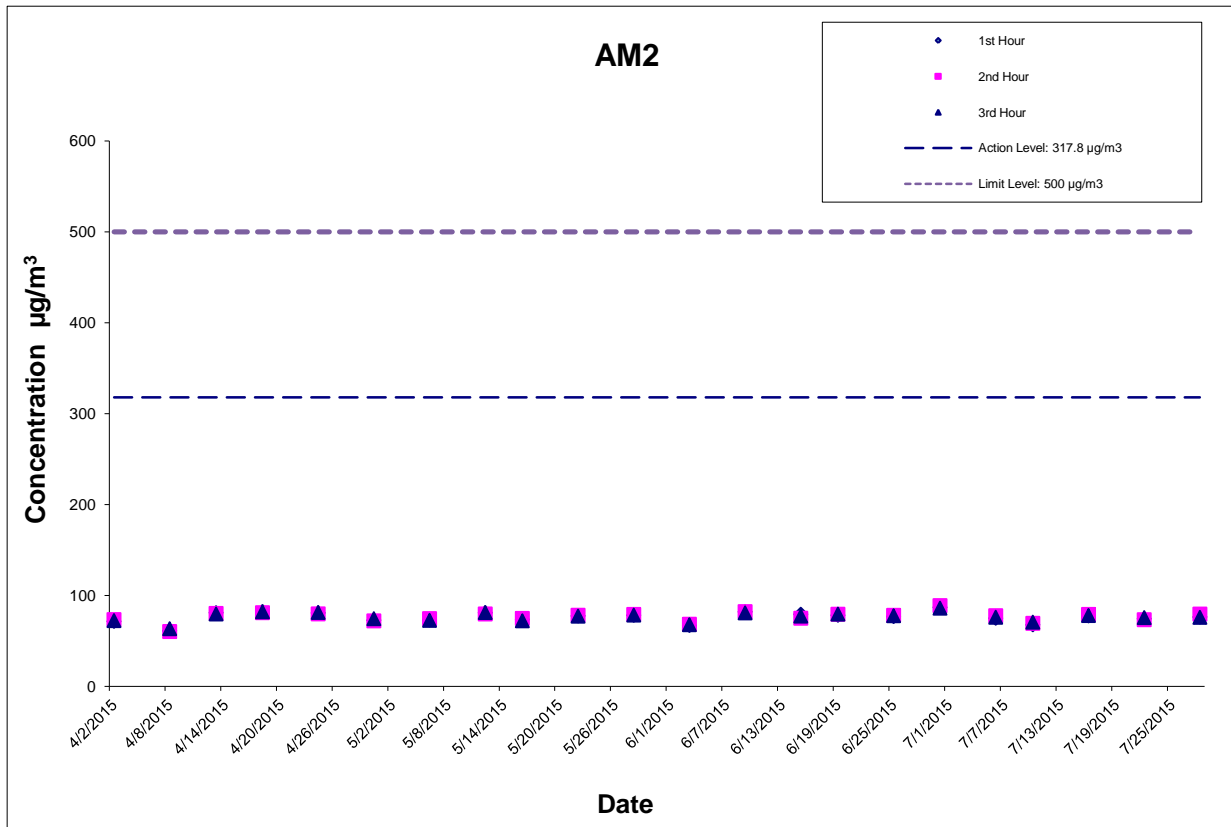


Graphical Presentation of Impact 24-hour TSP Monitoring Results

Impact Air Quality Monitoring Results

1-hour TSP Monitoring Results at Station AM2 (Fanling Government Secondary School)

Date	Start Time (hh:mm)	1st Hour Conc. ($\mu\text{g}/\text{m}^3$)	2nd Hour Conc. ($\mu\text{g}/\text{m}^3$)	3rd Hour Conc. ($\mu\text{g}/\text{m}^3$)
2-Apr-15	13:05	71.4	73.3	72.2
8-Apr-15	10:30	61.0	60.2	63.3
13-Apr-15	14:28	80.9	80.1	79.5
18-Apr-15	9:57	82.1	80.9	81.9
24-Apr-15	13:27	80.7	79.6	81.2
30-Apr-15	10:55	72.6	71.9	74.3
6-May-15	10:00	73.0	74.4	72.5
12-May-15	14:09	80.9	79.5	81.1
16-May-15	14:10	73.5	74.6	72.0
22-May-15	9:31	77.4	78.1	77.1
28-May-15	10:52	78.1	79.0	78.3
3-Jun-15	9:50	66.9	68.2	67.7
9-Jun-15	12:49	81.9	82.1	80.7
15-Jun-15	11:30	79.2	74.8	77.2
19-Jun-15	11:28	78.1	79.2	79.4
25-Jun-15	10:02	76.7	78.0	77.6
30-Jun-15	10:00	86.8	88.7	85.9
6-Jul-15	11:00	74.8	77.6	75.9
10-Jul-15	13:00	67.6	69.2	70.5
16-Jul-15	10:42	77.4	79.0	77.8
22-Jul-15	10:40	74.3	73.2	75.5
28-Jul-15	10:00	76.2	79.4	75.8
Average for the reporting quarter (May 15 to Jul 15)				76.7
Minimum for the reporting quarter (May 15 to Jul 15)				66.9
Maximum for the reporting quarter (May 15 to Jul 15)				88.7



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CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Graphical Presentation of Impact 1-hour TSP Monitoring Results

Project No.: 60307376

Date: Aug-15

Appendix E

**APPENDIX F
METEROLOGICAL DATA**



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Daily Extract of Meteorological Observations , May 2015 - Tai Mei Tuk

Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	***	29.4	25.6	24.0	***	***	0.0	070	9.5
02	***	30.2	27.1	25.5	***	***	3.5	240	13.2
03	***	32.2	28.4	26.0	***	***	0.0	230	12.4
04	***	32.3	28.6	26.7	***	***	0.0	230	11.6
05	***	33.0	26.7	23.3	***	***	3.0	080	13.8
06	***	28.2	25.8	23.3	***	***	1.5	150	10.1
07	***	31.2	27.8	25.1	***	***	1.0	060	5.7
08	***	31.6	28.3	26.0	***	***	0.0	160	5.3
09	***	31.7	26.5	23.3	***	***	29.0	260	10.9
10	***	28.5	25.6	23.8	***	***	82.5	070	13.3
11	***	28.0	24.9	22.7	***	***	33.5	070	11.8
12	***	30.3	25.8	21.4	***	***	0.0	060	8.9
13	***	27.0	25.7	24.2	***	***	0.0	080	13.3
14	***	31.5	27.7	25.2	***	***	0.0	150	4.4
15	***	33.4	29.4	26.3	***	***	0.0	240	10.9
16	***	28.6	26.3	23.5	***	***	13.0	270	7.6
17	***	29.9	26.1	24.6	***	***	15.0	260	10.3
18	***	30.7	27.8	25.5	***	***	6.5	240	16.3
19	***	28.3	27.3	25.8	***	***	113.0	260	16.4
20	***	29.8	26.4	24.3	***	***	143.5	260	16.5
21	***	25.2	23.8	22.7	***	***	8.5	110	19.1
22	***	23.5	22.9	22.3	***	***	3.0	100	15.6
23	***	25.7	24.3	23.5	***	***	80.5	050	8.1
24	***	29.9	25.9	24.0	***	***	6.5	270	4.0
25	***	32.1	27.4	24.8	***	***	42.5	150	5.6
26	***	27.8	25.9	24.6	***	***	68.0	050	7.0
27	***	31.0	28.0	25.8	***	***	59.0	240	13.1
28	***	33.5	30.2	27.8	***	***	1.0	240	18.0
29	***	32.8	30.3	28.7	***	***	0.0	240	20.0
30	***	33.3	29.6	25.0	***	***	10.0	240	17.4
31	***	32.9	28.5	25.6	***	***	0.5	050	6.5

*** unavailable

Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected

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Daily Extract of Meteorological Observations , May 2015 - Tai Po

Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	1010.0	28.0	26.3	25.2	23.2	83	***	***	***
02	1009.2	28.7	27.2	26.1	23.3	80	***	***	***
03	1009.3	32.3	28.4	25.9	24.1	78	***	***	***
04	1009.5	33.0	28.7	26.8	23.8	75	***	***	***
05	1008.6	31.3	26.8	23.9	23.4	82	***	***	***
06	1008.4	28.6	26.1	23.8	23.8	87	***	***	***
07	1009.4	30.1	27.4	25.4	24.4	84	***	***	***
08	1008.4	30.3	28.2	26.4	23.9	78	***	***	***
09	1008.2	31.5	26.3	23.5	24.1	88	***	***	***
10	1009.6	27.6	25.2	23.4	23.9	93	***	***	***
11	1010.3	28.0	25.0	22.6	23.4	91	***	***	***
12	1012.3	27.8	25.2	21.6	20.1	74	***	***	***
13	1012.1	26.7	25.6	24.5	22.9	85	***	***	***
14	1011.9	31.3	27.6	24.8	23.9	81	***	***	***
15	1011.1	32.7	28.8	26.2	24.1	76	***	***	***
16	1009.8	28.4	25.5	23.0	23.9	91	***	***	***
17	1007.9	28.9	25.9	23.9	23.7	88	***	***	***
18	1007.5	28.9	27.3	25.2	24.7	86	***	***	***
19	1006.6	28.0	27.0	26.0	25.7	93	***	***	***
20	1006.2	29.8	26.2	24.0	25.3	95	***	***	***
21	1008.3	25.1	23.9	22.8	22.3	90	***	***	***
22	1008.9	23.6	22.9	22.4	21.7	93	***	***	***
23	1006.1	25.0	24.0	23.5	23.6	98	***	***	***
24	1005.8	29.0	25.2	23.6	24.4	95	***	***	***
25	1006.4	33.5	27.3	24.8	25.1	89	***	***	***
26	1008.1	27.0	25.6	24.6	25.1	97	***	***	***
27	1006.7	30.7	27.7	25.9	26.0	91	***	***	***
28	1004.8	33.0	29.8	27.6	25.9	80	***	***	***
29	1005.9	32.0	30.0	28.5	25.8	79	***	***	***
30	1007.1	32.7	29.1	24.9	25.7	83	***	***	***
31	1007.0	32.2	28.0	25.1	25.8	88	***	***	***

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Daily Extract of Meteorological Observations , June 2015 - Tai Mei Tuk

Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	***	31.3	28.6	27.2	***	***	7.5	270	7.5
02	***	33.3	30.1	27.9	***	***	0.0	240	14.3
03	***	33.6	30.2	27.6	***	***	0.0	220	12.9
04	***	34.3	30.0	27.0	***	***	0.0	230	10.8
05	***	32.5	28.7	25.3	***	***	11.5	270	10.4
06	***	34.2	29.1	25.3	***	***	0.0	240	8.9
07	***	33.6	29.9	26.8	***	***	9.5	230	11.3
08	***	33.0	29.8	27.1	***	***	1.0	270	14.9
09	***	33.3	30.0	26.2	***	***	0.0	240	17.7
10	***	34.0	29.8	27.0	***	***	2.0	260	13.8
11	***	33.6	30.4	27.0	***	***	4.5	230	16.8
12	***	33.6	30.0	27.2	***	***	0.0	230	10.0
13	***	33.3	30.2	28.2	***	***	0.0	240	15.2
14	***	33.6	30.0	27.9	***	***	0.0	160	6.4
15	***	34.0	29.8	27.5	***	***	0.0	130	5.4
16	***	35.4	30.6	27.4	***	***	0.0	260	8.4
17	***	34.4	30.6	27.8	***	***	0.0	230	14.1
18	***	34.8	31.0	28.2	***	***	0.0	230	14.1
19	***	35.0	30.8	26.4	***	***	0.0	200	8.3
20	***	35.8	31.2	28.2	***	***	0.0	150	6.8
21	***	30.5	28.2	25.9	***	***	17.5	080	20.0
22	***	30.7	28.2	26.6	***	***	7.0	060	18.8
23	***	28.8	27.2	26.0	***	***	45.5	140	9.8
24	***	29.7	27.7	25.8	***	***	7.0	140	8.1
25	***	29.6	27.0	25.5	***	***	39.0	280	8.3
26	***	32.3	28.4	25.9	***	***	9.5	280	12.3
27	***	33.7	30.1	27.2	***	***	0.0	230	11.5
28	***	33.8	30.0	26.6	***	***	0.0	260	11.8
29	***	33.0	29.8	27.0	***	***	0.0	250	13.9
30	***	33.1	30.0	27.6	***	***	0.0	240	17.0

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Daily Extract of Meteorological Observations , June 2015 - Tai Po

Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	1007.5	31.5	28.5	26.6	26.0	87	***	***	***
02	1008.8	33.1	29.8	27.5	25.0	76	***	***	***
03	1009.7	33.5	30.0	27.7	24.7	74	***	***	***
04	1008.3	33.1	29.5	26.5	24.7	76	***	***	***
05	1007.0	32.0	28.1	24.9	24.9	84	***	***	***
06	1007.3	32.8	28.5	24.7	25.0	82	***	***	***
07	1008.5	33.5	30.0	27.2	24.5	73	***	***	***
08	1007.7	33.1	29.6	26.5	25.1	78	***	***	***
09	1006.7	33.3	30.3	27.6	25.1	74	***	***	***
10	1006.8	33.2	29.7	26.0	25.7	80	***	***	***
11	1007.8	33.3	30.1	27.2	25.9	79	***	***	***
12	1008.0	32.7	29.6	26.5	25.5	79	***	***	***
13	1007.4	33.0	30.0	28.1	25.3	76	***	***	***
14	1007.8	33.0	29.4	26.5	25.3	80	***	***	***
15	1008.9	33.3	29.5	26.9	25.1	78	***	***	***
16	1007.8	33.9	29.7	26.7	24.7	76	***	***	***
17	1005.4	33.4	30.2	27.7	25.0	74	***	***	***
18	1004.8	35.4	30.9	28.1	24.9	71	***	***	***
19	1005.6	35.8	30.8	27.3	24.9	72	***	***	***
20	1006.1	33.3	30.1	27.7	25.8	78	***	***	***
21	1004.9	30.2	28.5	25.9	26.4	88	***	***	***
22	1003.0	30.0	28.1	26.6	26.1	89	***	***	***
23	1003.7	29.3	26.9	25.3	25.7	93	***	***	***
24	1004.9	29.5	27.5	25.9	26.0	92	***	***	***
25	1005.5	29.1	27.3	26.2	26.2	94	***	***	***
26	1005.7	32.3	29.0	26.5	25.7	83	***	***	***
27	1007.7	33.7	30.6	28.2	25.4	74	***	***	***
28	1008.9	34.1	30.6	27.5	25.0	73	***	***	***
29	1007.3	33.5	30.5	28.0	25.3	74	***	***	***
30	1005.3	33.8	30.7	28.6	25.7	75	***	***	***

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Daily Extract of Meteorological Observations , July 2015 - Tai Mei Tuk

Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	***	32.8	30.0	27.8	***	***	0.0	230	16.5
02	***	32.9	30.0	28.0	***	***	0.0	230	16.3
03	***	34.0	29.9	27.5	***	***	0.0	230	10.8
04	***	33.6	29.4	27.1	***	***	0.0	150	6.1
05	***	31.7	28.5	26.5	***	***	0.0	050	10.5
06	***	32.5	29.0	25.1	***	***	0.0	040	9.9
07	***	33.3	29.2	25.3	***	***	0.0	040	16.0
08	***	32.0	28.0	24.6	***	***	0.0	040	16.8
09	***	29.6	25.5	23.3	***	***	2.5	270	16.5
10	***	30.3	26.8	24.0	***	***	19.0	080	18.2
11	***	34.2	29.9	25.6	***	***	0.0	050	7.0
12	***	35.2	30.5	26.8	***	***	0.0	270	6.9
13	***	36.0	30.6	27.2	***	***	0.0	150	4.6
14	***	34.0	30.2	26.9	***	***	0.0	140	7.2
15	***	34.9	30.6	27.9	***	***	0.0	050	7.6
16	***	32.4	29.1	25.0	***	***	36.5	060	5.2
17	***	32.3	29.2	26.6	***	***	0.0	270	7.7
18	***	30.1	27.8	26.0	***	***	1.5	080	15.5
19	***	32.4	28.4	25.4	***	***	4.5	090	17.4
20	***	26.6	25.5	24.6	***	***	40.0	050	12.2
21	***	26.6	25.3	23.9	***	***	31.5	270	25.3
22	***	28.5	26.5	23.9	***	***	14.0	230	13.3
23	***	28.7	26.8	24.9	***	***	29.5	270	11.8
24	***	28.9	27.4	24.7	***	***	31.0	250	18.4
25	***	29.3	27.9	26.5	***	***	18.5	250	13.0
26	***	31.3	28.1	25.7	***	***	13.0	250	14.5
27	***	33.2	28.7	25.5	***	***	1.5	150	8.7
28	***	32.7	28.9	26.3	***	***	0.0	050	5.5
29	***	32.5	27.7	25.2	***	***	11.0	050	7.6
30	***	32.1	28.0	25.9	***	***	0.0	050	4.9
31	***	33.1	28.6	25.3	***	***	0.0	070	5.7

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Daily Extract of Meteorological Observations , July 2015 - Tai Po

Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	1003.3	33.5	30.8	29.0	26.0	76	***	***	***
02	1002.4	33.9	31.0	29.4	25.9	74	***	***	***
03	1002.2	33.8	30.9	29.0	25.7	74	***	***	***
04	1002.3	32.7	29.8	28.1	25.8	79	***	***	***
05	1002.6	33.0	29.0	26.9	25.8	83	***	***	***
06	1001.0	31.5	29.1	27.0	23.7	73	***	***	***
07	1000.3	31.3	29.0	26.3	20.9	62	***	***	***
08	1000.2	31.6	28.7	26.2	20.6	62	***	***	***
09	997.2	29.3	27.0	25.1	21.9	74	***	***	***
10	1000.0	32.9	28.2	25.6	24.5	81	***	***	***
11	999.6	35.4	30.6	27.1	24.3	71	***	***	***
12	1000.6	34.3	30.8	27.5	24.6	71	***	***	***
13	1001.8	35.1	30.8	28.3	25.5	74	***	***	***
14	1001.7	34.5	30.3	27.5	26.0	79	***	***	***
15	1000.8	32.5	29.9	27.8	26.2	81	***	***	***
16	1000.1	31.2	29.0	26.0	26.4	86	***	***	***
17	1001.1	32.3	28.6	25.7	25.7	85	***	***	***
18	1001.4	31.0	28.6	26.0	25.9	86	***	***	***
19	1000.9	32.3	29.3	27.1	24.8	77	***	***	***
20	1001.0	28.1	26.7	25.9	25.7	94	***	***	***
21	1006.0	27.6	26.2	24.9	24.0	88	***	***	***
22	1007.8	28.8	27.0	24.9	25.1	90	***	***	***
23	1007.5	28.3	26.8	24.9	25.3	92	***	***	***
24	1006.5	28.6	27.2	23.8	25.1	88	***	***	***
25	1006.1	29.3	27.9	26.2	25.0	84	***	***	***
26	1008.5	30.8	28.1	25.5	25.0	84	***	***	***
27	1011.0	31.5	28.4	25.8	24.9	82	***	***	***
28	1011.7	32.0	28.3	25.5	24.2	80	***	***	***
29	1011.3	30.1	26.8	25.0	24.4	87	***	***	***
30	1010.8	29.8	26.7	24.7	24.1	86	***	***	***
31	1010.7	31.1	27.5	24.1	23.6	80	***	***	***

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**APPENDIX G
IMPACT DAYTIME CONSTRUCTION NOISE
MONITORING RESULTS AND THEIR
GRAPHICAL PRESENTATION**

Location : M2 (West Tai Wo - Free Field)

Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

Date	Measured Noise Level for 30-min, dB(A)				Limit Level, dB(A)	Exceedance (Y/N)
	Start Time	Leq*	L10*	L90*		
2-Apr-15	14:00	69.4	71.7	68.0	75	N
8-Apr-15	11:30	69.4	71.5	67.5	75	N
13-Apr-15	14:55	68.0	69.5	66.2	75	N
24-Apr-15	13:31	68.5	70.1	66.4	75	N
30-Apr-15	10:00	70.6	72.3	67.0	75	N
6-May-15	11:00	69.8	71.5	67.0	75	N
12-May-15	14:17	69.8	71.5	67.1	75	N
22-May-15	10:34	64.9	71.7	69.2	75	N
28-May-15	10:01	69.7	72.2	68.0	75	N
3-Jun-15	10:35	69.3	71.5	66.5	75	N
9-Jun-15	15:05	68.9	70.5	66.2	75	N
15-Jun-15	13:09	69.4	72.5	67.2	75	N
25-Jun-15	10:49	69.2	70.8	65.9	75	N
30-Jun-15	10:30	69.2	71.5	67.0	75	N
6-Jul-15	10:00	69.2	71.4	67.1	75	N
10-Jul-15	13:20	69.0	70.5	66.5	75	N
16-Jul-15	9:48	69.5	71.8	65.9	75	N
22-Jul-15	9:57	68.4	70.4	66.3	75	N
28-Jul-15	9:50	70.2	73.1	68.0	75	N
Minimum for May 15 to Jul 15		64.9	70.4	65.9		
Maximum for May 15 to Jul 15		70.2	73.1	69.2		
Average for May 15 to Jul 15		69.2	71.6	67.1		

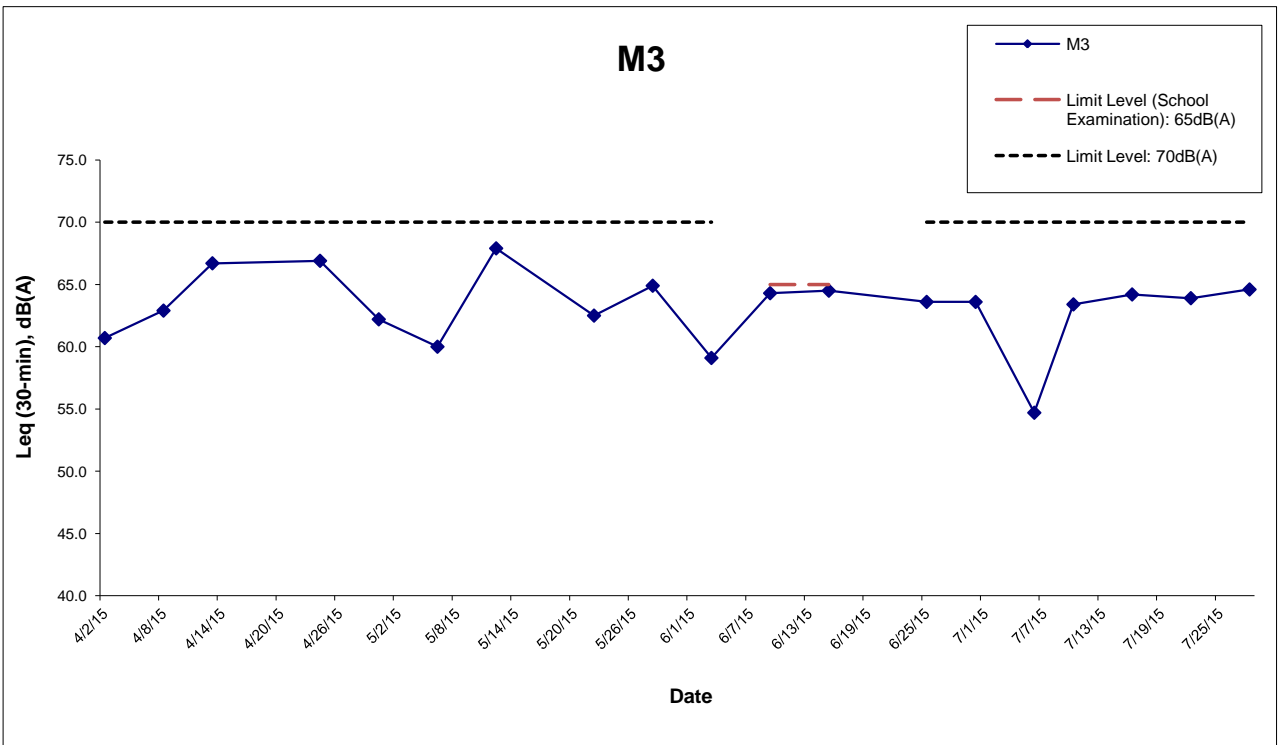
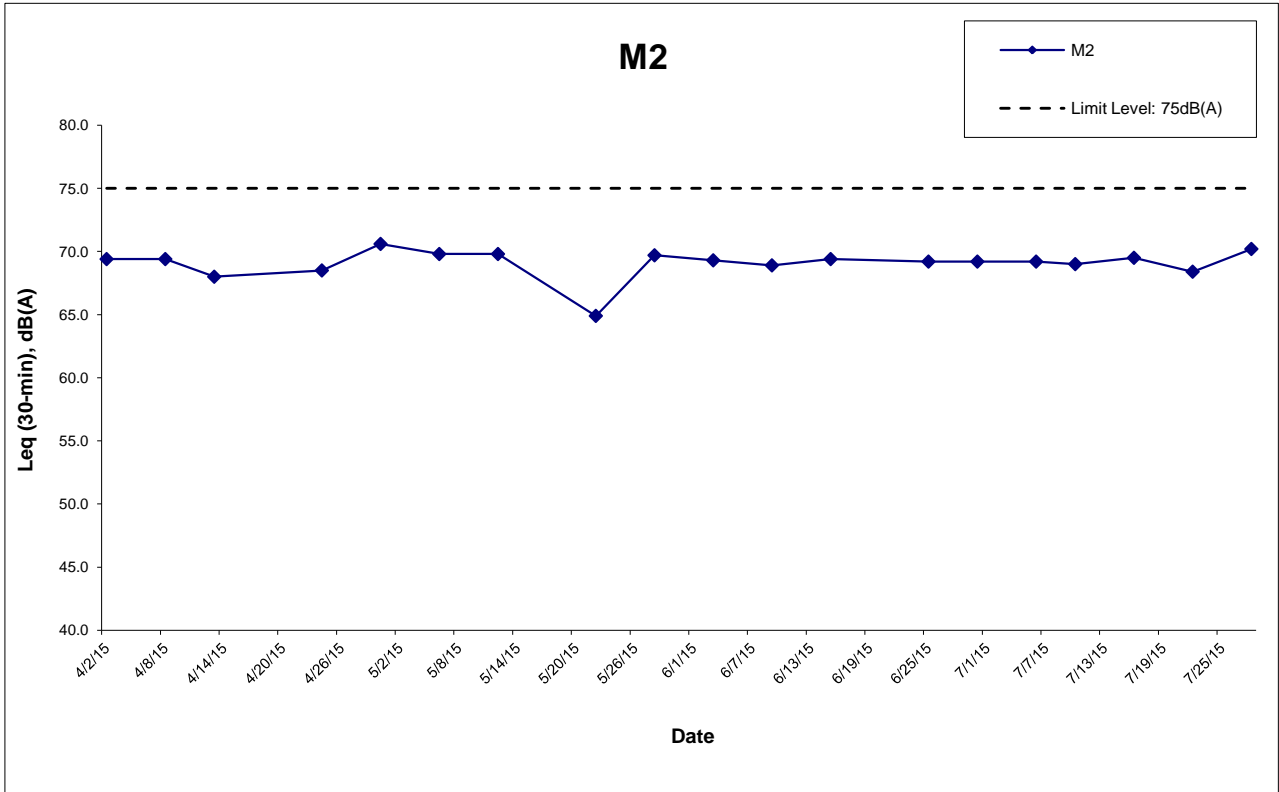
Location : M3 (Fanling Government Secondary School- Façade)

Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

Date	Measured Noise Level for 30-min, dB(A)				Limit Level, dB(A)^	Exceedance (Y/N)
	Start Time	Leq	L10	L90		
2-Apr-15	13:05	60.7	62.1	58.5	70	N
8-Apr-15	10:35	62.9	64.0	60.0	70	N
13-Apr-15	15:50	66.7	68.1	64.3	70	N
24-Apr-15	14:23	66.9	68.4	64.1	70	N
30-Apr-15	11:00	62.2	63.6	60.0	70	N
6-May-15	10:00	60.0	61.1	56.0	70	N
12-May-15	13:32	67.9	69.5	65.4	70	N
22-May-15	9:30	62.5	67.0	65.8	70	N
28-May-15	11:00	64.9	66.4	61.1	70	N
3-Jun-15	9:50	59.1	60.0	57.0	70	N
9-Jun-15	15:35	64.3	66.0	60.5	65	N
15-Jun-15	13:45	64.5	66.5	61.5	65	N
25-Jun-15	10:00	63.6	66.0	60.2	70	N
30-Jun-15	9:50	63.6	64.5	60.0	70	N
6-Jul-15	10:58	54.7	67.4	61.2	70	N
10-Jul-15	13:00	63.4	64.5	61.0	70	N
16-Jul-15	10:44	64.2	66.0	61.1	70	N
22-Jul-15	10:52	63.9	65.1	62.2	70	N
28-Jul-15	10:00	64.6	67.4	62.1	70	N
Minimum for May 15 to Jul 15		54.7	60.0	56.0		
Maximum for May 15 to Jul 15		67.9	69.5	65.8		
Average for May 15 to Jul 15		63.8	66.1	61.8		

* +3dB(A) Façade effect correction included

^ Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.



Remark:

^ Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.

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CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Graphical Presentation of Impact Daytime Construction Noise Monitoring Results

Project No.: 60307376

Date: Aug-15

Appendix G

**APPENDIX H
STATISTICS ON COMPLAINTS,
NOTIFICATION OF SUMMONS AND
SUCCESSFUL PROSECUTIONS**

Appendix H

Statistics on Complaints, Notifications of Summons and Successful Prosecutions

	Date Received	Subject	Status	Total no. followed up by the ET this reporting period	Total no. followed up by the ET since project commencement
Environmental complaints	19 December 2013	EPD referred a complaint from Lot no. 116 of Fui Sha Wai at Tai Hang of Tai Po which is concerned about the construction noise and diesel-like smell generated from construction activities nearby which caused nuisance and health problems on 19 December 2013 morning.	Closed	0	5
	24 February 2014	EPD referred an air-and-odour complaint on 24 February 2014. The complainant complained about the construction site located near the bus stop in Fui Sha Wai, Tai Hang, Tai Wo Service Road West. When construction works were carried out, odour, white smoke and dust were generated. The complainant asked for follow-up actions.	Closed		

Date Received	Subject	Status	Total no. followed up by the ET this reporting period	Total no. followed up by the ET since project commencement
23 October 2014	<p>EPD referred an air complaint on 24 October 2014.</p> <p>A resident complained against the excavation works of Tai Wo Service Road West between Nam Wah Po & Tai Hang Tsuen, which have piled up high stockpiles, causing serious dust nuisance to his house.</p> <p>The resident also complained that the stockpiles have not been covered and watered properly. He now requires the EPD to follow up.</p> <p>The location of complaint is near Lamppost Location EB5717.</p>	Closed		
31 December 2014	<p>EPD referred a water complaint on 31 December 2014.</p> <p>The complainant complained about the muddy river outside Tai Hang Village Office on 29 December 2014. It was suspected that the muddy water was discharged from the construction works of the Project.</p> <p>He required the EPD to follow up.</p>	Closed		

	Date Received	Subject	Status	Total no. followed up by the ET this reporting period	Total no. followed up by the ET since project commencement
	25 March 2015	<p>EPD referred a water complaint on 25 March 2015.</p> <p>The complainant complained about the generation of the smell of gasoline from the Widening of Fanling Highway construction site on Tai Wo Service Road West, causing serious nuisance to nearby houses.</p> <p>The situation has continued for a few weeks and she asked the EPD to follow up as soon as possible.</p>	Closed		
Notification of summons	-	-	-	0	0
Successful Prosecutions	-	-	-	0	0