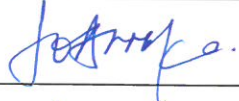



**Environmental Protection Department**

Contract No. HY/2012/06

**Widening of Fanling Highway  
– Tai Hang to Wo Hop Shek  
Interchange****Quarterly EM&A Report  
for May 2014 to July 2014**

[08/2014]

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

Version:	Rev. 0	Date: 20 August 2014
<b>Disclaimer</b> This report is prepared for Environmental Protection Department and is given for its sole benefit in relation to and pursuant to Contract No. HY/2012/06 and may not be disclosed to, quoted to or relied upon by any person other than Environmental Protection Department without our prior written consent. No person (other than Environmental Protection Department) into whose possession a copy of this report comes may rely on this report without our express written consent and Environmental Protection Department may not rely on it for any purpose other than as described above.		

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Our ref AFK/TK/jn/bw/T329380/22.05/L-0038

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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

20 August 2014

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/B  
Quarterly EM&A Summary Report for May 2014 to July 2014 for the portion of Stage 2 works under Contract No. HY/2012/06**

We refer to the Quarterly EM&A Summary Report for May 2014 to July 2014 for the Project received on 18 and 20 August 2014 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 (Fax: 2714 5198) / Ms. Jackei Yin (Fax: 2761 4864)  
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/A) 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 2014 to 31 July 2014. As informed by the Contractor, construction activities in the reporting period were:-

- Site clearance;
- Ground investigation;
- Tree felling and transplanted;
- Piling works;
- Pipe laying;
- Retaining wall construction;
- Excavation;
- Backfilling; and
- Drainage.

### Reporting Change

There was no reporting change required in the reporting month.

### 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 month.

### Breaches of Action and Limit Levels for Noise

No Action Level exceedance of construction noise was recorded in the reporting period since no noise complaints related to 0700 – 1900 hours on normal weekdays were received. Two (2) Limit Level exceedances were recorded on 12 and 18 June 2014 respectively for noise monitoring at M3 in the reporting period. The exceedances were considered non-project-related. The details of exceedance are given in Appendix M of the Monthly EM&A Report of June 2014.

## 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
<b>ER</b> (Hyder-Arup-Black & Veatch Joint Venture)	Chief Resident Engineer	Edwin Chung	6115 0818	2638 0950
<b>IEC</b> (Mott MacDonald Hong Kong Limited)	Independent Environmental Checker	Terence Kong	2828 5919	2827 1823
<b>Contractor</b> (China State Construction Engineering (Hong Kong) Limited)	Environmental Officer	Michael Tsang	9277 4956	2672 2501
		C C Chow	9679 6315	2672 2501
<b>ET</b> (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;
- Tree felling and transplanted;
- Piling works;
- Pipe laying;
- Retaining wall construction;
- Excavation;
- Backfilling; and
- Drainage.

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 ( $\mu\text{g}/\text{m}^3$ )
<b>AM2</b> (Fanling Government Secondary School)	75.4	62.9 – 83.6	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 ( $\mu\text{g}/\text{m}^3$ )
<b>AM2</b> (Fanling Government Secondary School)	22.6	9.5 – 53.9	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))
	$L_{\text{eq}}$ (30 mins)	$L_{\text{eq}}$ (30 mins)	$L_{\text{eq}}$ (30 mins)
M2*	68.0	65.5 – 71.8	75
M3#	64.6	60.6 – 66.4	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 There was no noise complaint related to 0700 – 1900 hours on normal weekdays was received and followed up by Environmental Team in the reporting period. Hence, no Action Level exceedance was recorded.
- 4.1.5 Two (2) Limit Level exceedances were recorded on 12 and 18 June 2014 respectively for noise monitoring at M3 in the reporting period. The exceedances were considered non-project-related. The details of exceedance are given in Appendix M of the Monthly EM&A Report of June 2014.
- 4.1.6 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, 7,069m<sup>3</sup> of inert C&D material was disposed of as public fill to Tuen Mun 38 (of which 0m<sup>3</sup> was broken concrete), while 295m<sup>3</sup> of general refuse was disposed of at NENT landfill. 136kg of paper/cardboard packaging, 0kg of plastics and 11kg of metals were collected by recycling contractors in the reporting month. 1,375m<sup>3</sup>, 155m<sup>3</sup> and 5,539m<sup>3</sup> 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 shown in Table 5.1.

**Table 5.1 Summary of Waste Flow Table**

<b>Waste Type</b>	<b>Actual Amount</b>	<b>Disposal/Reuse Locations</b>
Inert C&D materials	7,069m <sup>3</sup> (of which 0m <sup>3</sup> was broken concrete)	Tuen Mun 38
General refuse	295m <sup>3</sup>	NENT Landfill
Paper/cardboard packaging	136kg	Recycling Contractors
Plastics	0kg	Recycling Contractors
Metals	11kg	Recycling Contractors
C&D materials reused on site	1,375m <sup>3</sup>	Site Area
C&D materials reused in other projects	155m <sup>3</sup>	Other projects
C&D materials reused in NENT for backfilling	5,539m <sup>3</sup>	NENT Landfill
Chemical wastes	0kg	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 For construction noise, no Action Level exceedance was recorded. Two (2) Limit Level exceedances were recorded on 12 and 18 June 2014 respectively for noise monitoring at M3 in the reporting period.

## **7 SUMMARY OF COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS**

- 7.1.1 No complaint, notification of summons and 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 quarter, the following comments are made to the Contractor for precautionary and rectification purposes:

#### ***Air Quality Impact***

- All vehicles should be washed to remove any dusty materials before leaving the site.
- Wheel washing facilities should be properly maintained to ensure properly functioning.
- Open stockpiles should be covered.

#### ***Construction Noise Impact***



- Noisy operations should be oriented to a direction away from sensitive receivers as far as possible.

#### ***Water Quality Impact***

- Stagnant water accumulated should be removed.

#### ***Chemical and Waste Management***

- Empty chemical containers should be cleared and disposed of as chemical wastes.
- Drip trays should be provided to chemical containers.
- Chemicals should be labeled.

#### ***Landscape and Visual Impact***

- Nil.

### **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 For construction noise, no Action Level exceedance was recorded. Two (2) Limit Level exceedances were recorded on 12 and 18 June 2014 respectively for noise monitoring at M3 in the reporting period.
- 8.3.3 No complaint, notification of summons and successful prosecution was received in the reporting period.

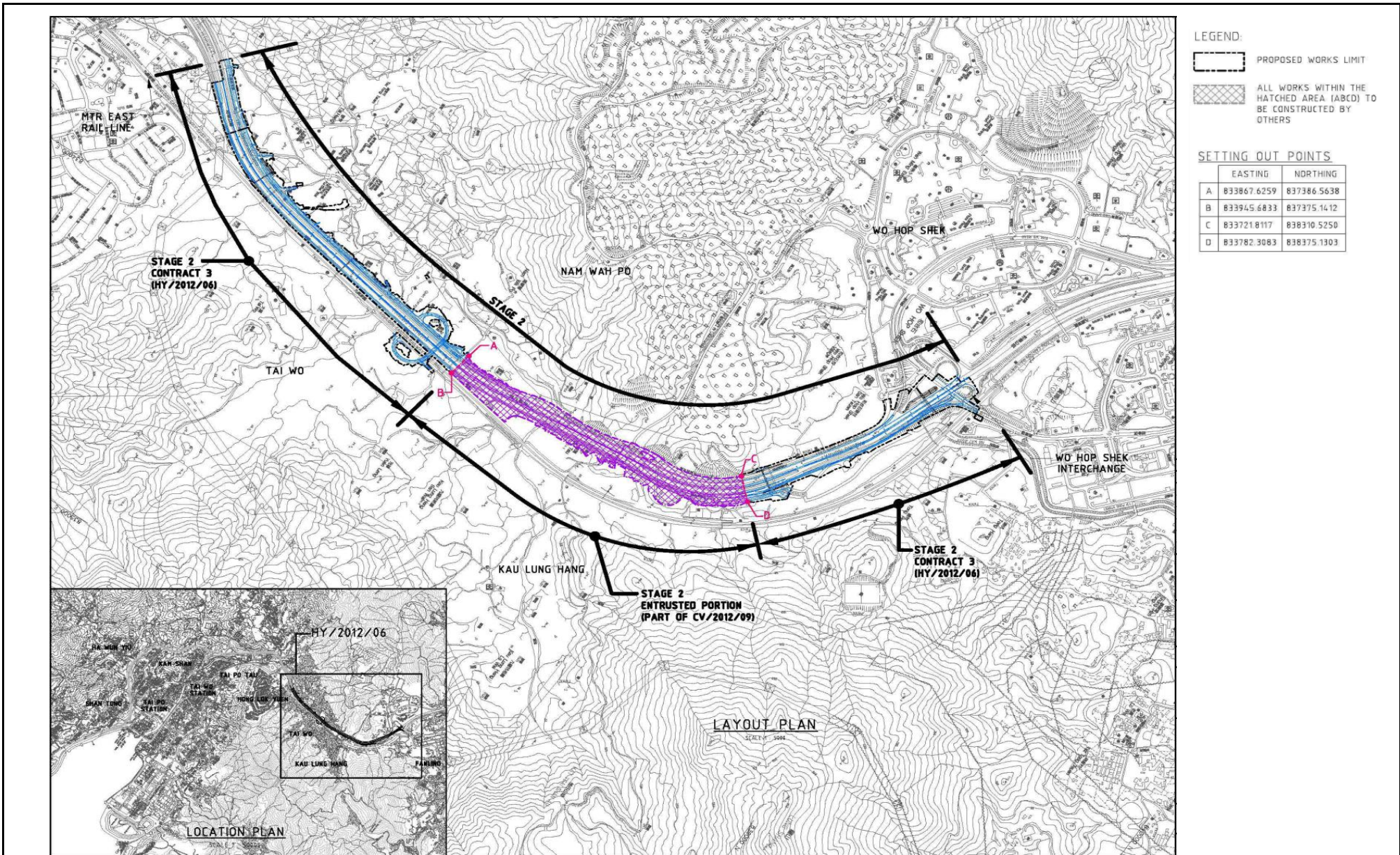
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## FIGURES

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

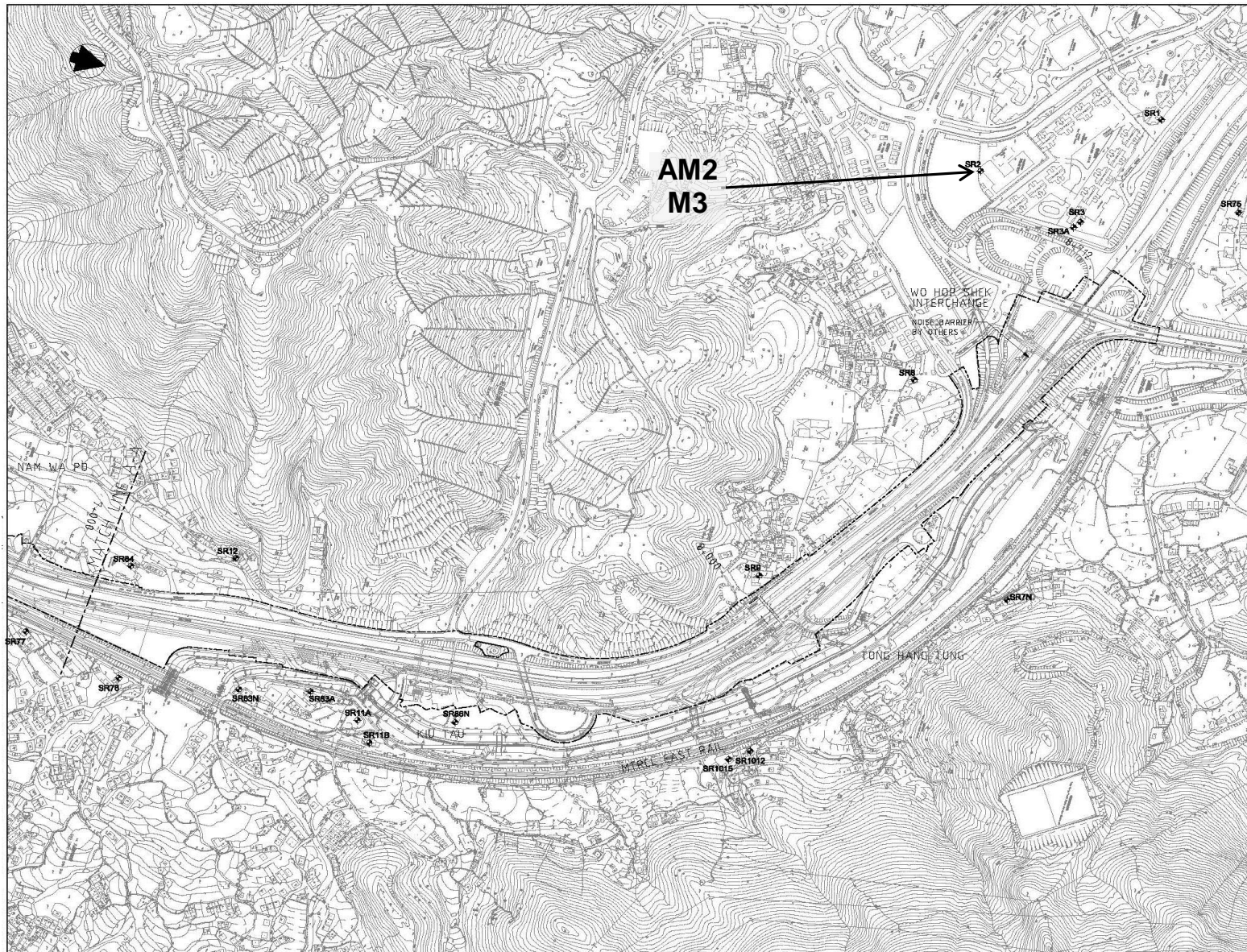


Layout Plan

Date: Dec 2013

Figure 1.1





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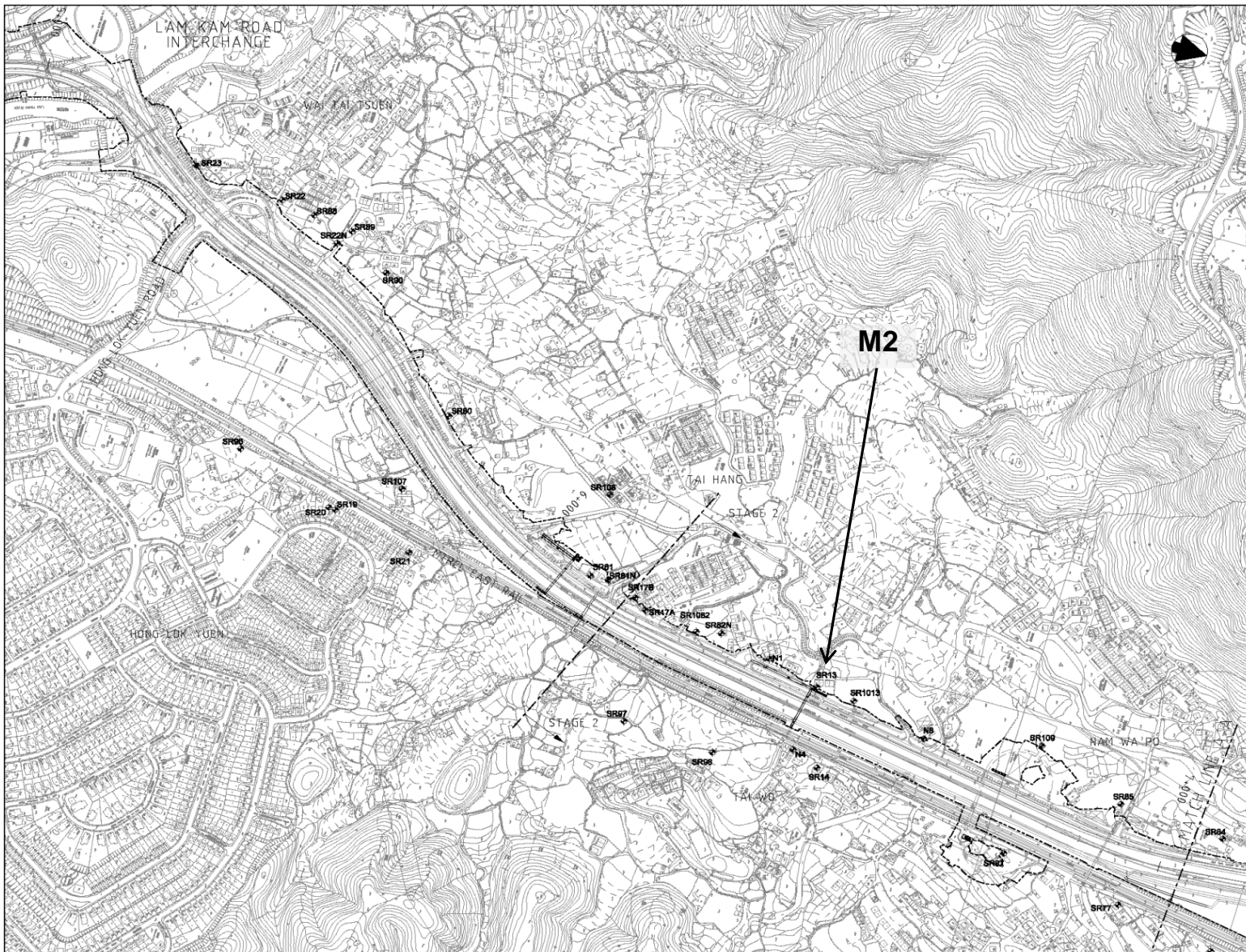
CONTRACT NO. HY/2012/06  
 WIDENING OF FANLING HIGHWAY  
 - TAI HANG TO WO HOP SHEK INTERCHANGE



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

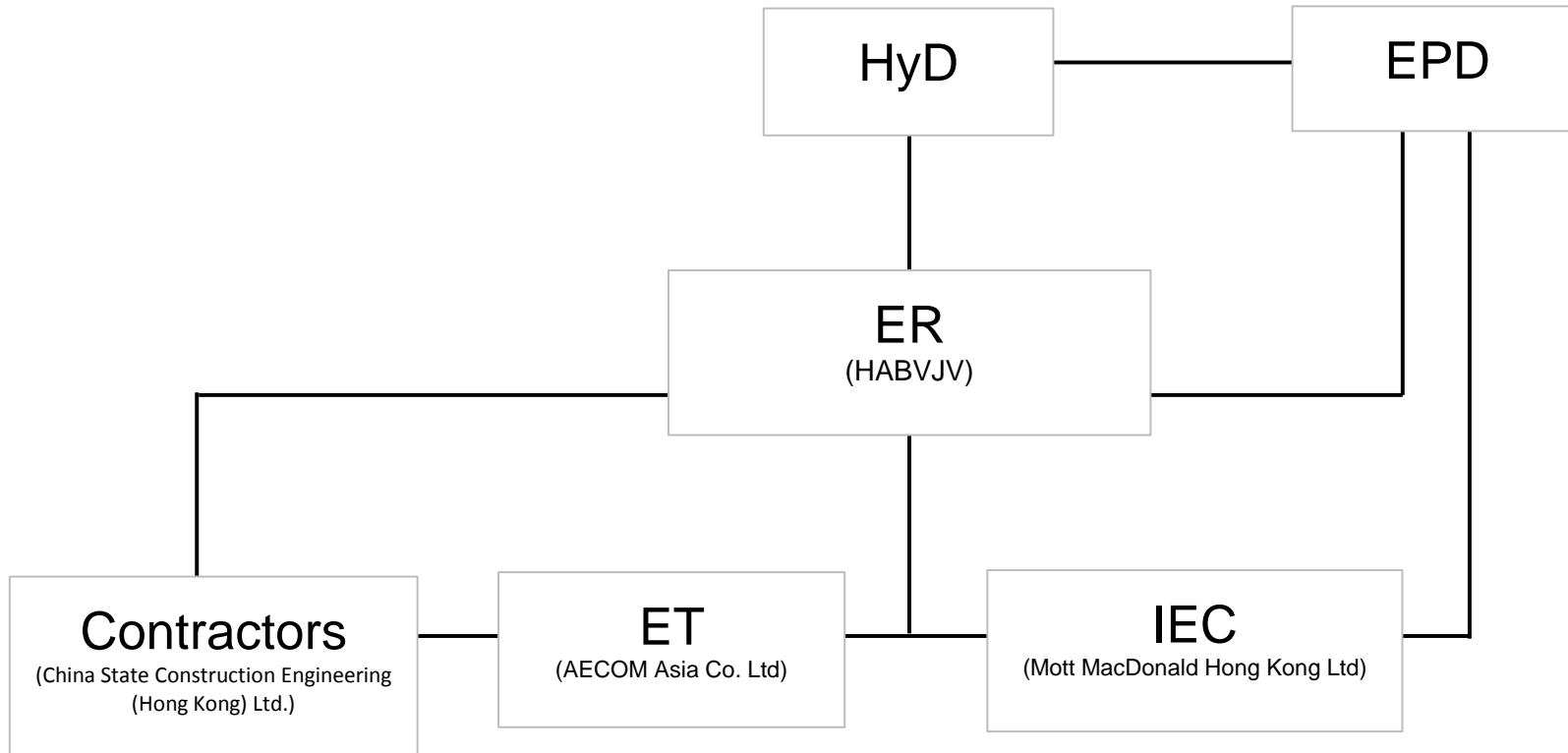
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**APPENDIX A  
PROJECT ORGANIZATION STRUCTURE**

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



Project Organization Structure

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**APPENDIX B  
CONSTRUCTION PROGRAMMES**

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Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2014			
								May	Jun	Jul	Aug
<b>Contract Condition</b>											
<b>General</b>											
<b>Contract Condition</b>											
<b>Contract Condition</b>											
POSSA310	Site Area SA310 (395d)	0%	0	0	17-Aug-14*		0				
POSSA323A	Site Area SA323A (360d)	0%	0	0	13-Jul-14*		0				◆ Site Area SA323A (360d)
POSSA323B	Site Area SA323B (360d)	0%	0	0	13-Jul-14*		0				◆ Site Area SA323B (360d)
POSSA324	Site Area SA324 (180d)	0%	0	0	01-Jul-14*		0				◆ Site Area SA324 (180d)
POSSA325	Site Area SA325 (180d)	0%	0	0	01-Jul-14*		0				◆ Site Area SA325 (180d)
POSSA326	Site Area SA326 (180d)	0%	0	0	01-Aug-14*		0				◆ Site Area SA326 (180d)
POSSA328	Site Area SA328 (90d)	0%	0	0	21-May-14*		0				◆ Site Area SA328 (90d)
POSSA329	Site Area SA329 (90d)	0%	0	0	01-Jun-14*		0				◆ Site Area SA329 (90d)
POSSA340	Site Area SA340 (0d)	0%	0	0	20-May-14*		-15				◆ Site Area SA340 (0d)
<b>Partial Possession Status</b>											
<b>Contract Condition</b>											
<b>Contract Condition</b>											
POSSA320-110	SA320B/ID-1	0%	0	0	20-May-14*		-30				◆ SA320B/ID-1
POSSA320-120	SA320B/322	0%	0	0	20-May-14*		-30				◆ SA320B/322
POSSA320-130	SA320B/322A	0%	0	0	20-May-14*		-94				◆ SA320B/322A
POSSA320-150	SA320/324	0%	0	0	20-May-14*		-98				◆ SA320/324
POSSA320-160	SA320/ID-2	0%	0	0	20-May-14*		-21				◆ SA320/ID-2
POSSA320-170	SA320/325	0%	0	0	20-May-14*		-21				◆ SA320/325
POSSA320-190	SA320/327	0%	0	0	20-May-14*		-114				◆ SA320/327
POSSA320-200	SA320/328	0%	0	0	20-May-14*		-126				◆ SA320/328
POSSA320-210	SA320/ South bound	0%	0	0	20-May-14*		-242				◆ SA320/ South bound
<b>ZONE 1 (Ch. 5640 to 5880)</b>											
<b>Noise Barrier Along TWSR-West and Layir</b>											
<b>Site Clearance &amp; Demolition of Existing Structure</b>											
<b>General</b>											
ADVZ10100	Site clearance	0%	30	30	18-Aug-14		31				
<b>ZONE 2 (Ch. 5880 to 6930)</b>											
<b>Noise Barrier Along TWSR-West and Layir</b>											
<b>Site Clearance &amp; Demolition of Existing Structure</b>											
<b>Demolition Work</b>											
Z2.P2N.1242	Pending for design brief from Villager/ Engineer	40%	18	30	01-Jan-14 A		-80				
Z2.P2N.1245	Method statement submission/ approval	0%	60	60	11-Jun-14		-80				
<b>NB48 (Ch.5995-6120)-TWSR West Side</b>											
<b>Noise Barrier Works</b>											
NB00355	NB48 - Pre-drilling	25.93%	20	27	07-May-14 A		-20				
NB00360	NB48 (NB48/1-5 up to THFB) piling (0.19m -54no)	0%	81	81	13-Jun-14		-20				
<b>NB49B (Ch.6215-6235)-TWSR West Side</b>											
<b>Noise Barrier Works</b>											
NB00545	NB49B - Pre-drilling	0%	22	22	02-Jul-14		-92				
NB00550	NB49B piling (0.19m -22no)	0%	33	33	28-Jul-14		-92				
<b>NB54 (Ch.6240-6280)-TWSR West Side</b>											
<b>Noise Barrier Works</b>											
NB00605	NB54 - ID2-1 Pre-drilling	0%	18	18	28-Jul-14		-77				
<b>NB57 (Ch.6365-6445)-TWSR West Side</b>											
<b>Noise Barrier Works</b>											
NB00800	NB57 -Pre-drilling	0%	40	40	02-Jul-14		-126				
NB00810	NB57 piling (0.19m -82no)	0%	123	123	18-Aug-14		-126				
<b>NB63 (Ch.6610-6700)-TWSR West Side</b>											
<b>Noise Barrier Works</b>											
NB4560	NB63 - ID3-1 Footing & Wall Structure (Deleted notified on 14-5, VO issued accordingly)	0%	60	60	20-May-14		16				
<b>Bridge Construction</b>											

	Project ID: DWP Rev 01 (1405)	<p align="center"><b>Contract No. HY/2012/06</b></p> <p align="center"><b>Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange</b></p> <p align="center"><b>3 Month Rolling Program(20-May-14)</b></p>		Date	Revision	C...
	Layout: 3 Month Rolling Program			22-Jan-14	IWP Rev 4	
	Page 1 of 5			26-Feb-14	IWP Rev 5	
				13-May-14	WP Rev 1	

Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2014				
								May	Jun	Jul	Aug	
<b>New Tai Hang Footbridge</b>												
<b>General</b>												
THBF0330	Structure steel Shop drawing submission (THFB)	0%	60	60	20-May-14	30-Jul-14	698					
THBF0335	Structure steel Shop drawing approval (THFB)	0%	30	30	14-Jul-14	16-Aug-14	698					
THBF0340	Structure steel procurement (THFB)	0%	150	150	16-Aug-14	13-Jan-15	871					
<b>TWSR-West/ FL Highway N/B Side Section</b>												
THBF0110	THP5 - Predrilling	0%	12	12	04-Jun-14	17-Jun-14	-14					
THBF0120	THP5 - Pre-bored H pile (8 nos)	0%	24	24	18-Jun-14	16-Jul-14	-14					
THBF0130	THP5 - Pile Test	0%	28	28	17-Jul-14	13-Aug-14	1092					
THBF0140	THP5 - Pile cap, Pier and Pier Head	0%	45	45	31-Jul-14	22-Sep-14	873					
THBF0150	THP8, THP9, - Predrilling	0%	12	12	18-Jun-14	02-Jul-14	-5					
THBF0160	THP8, THP9 - Pre-bored H pile (8 nos)	0%	24	24	17-Jul-14	13-Aug-14	-14					
THBF0170	THP8, THP9 - Pile Test	0%	28	28	14-Aug-14	10-Sep-14	1190					
THBF0190	THAB3 - Predrilling	0%	12	12	20-May-14	03-Jun-14	-14					
THBF0200	THAB3 - Pre-bored H pile (4 nos)	0%	12	12	04-Jun-14	17-Jun-14	-14					
THBF0210	THAB3 - Pile Test	0%	28	28	18-Jun-14	15-Jul-14	1216					
THBF0220	THAB3 - pile cap & abutment wall	0%	30	30	02-Jul-14	05-Aug-14	976					
THBF0230	THAB3 - Backfilling (~4m)	0%	27	27	06-Aug-14	05-Sep-14	976					
THBF0240	THP6, THP7 - Predrilling	0%	24	24	04-Aug-14	30-Aug-14	706					
THBF0280	THAB2 - Predrilling	0%	27	27	03-Jul-14	02-Aug-14	-5					
THBF0290	THAB2 - Pre-bored H pile (18 nos)	0%	54	54	14-Aug-14	18-Oct-14	-14					
<b>TWSR-East FL Highway S/B Side Section</b>												
THBF0430	Precautionary work for MTRC I&P area	0%	45	45	20-May-14	12-Jul-14	778					
<b>New Tai Wo Footbridge</b>												
<b>General</b>												
TWFB1010	Site Clearance	0%	30	30	02-Jul-14	05-Aug-14	-56					
TWFB1020	Structure steel Shop drawing submission (TWFB)	0%	90	90	20-May-14	03-Sep-14	919					
TWFB1030	Structure steel Shop drawing approval (TWFB)	0%	30	30	18-Aug-14	22-Sep-14	919					
<b>TWSR-West/ FL Highway N/B Side Section</b>												
TWFB1310	TWAB1 - Predrilling	0%	27	27	06-Aug-14	05-Sep-14	-56					
<b>Temporary Tai Wo Footbridge</b>												
<b>Design Works</b>												
TWFB-T1000	Procurement of Temporary bridge Design consultant	50%	26	52	24-Mar-14 A	19-Jun-14	324					
TWFB-T1010	Design preparation	0%	90	90	20-Jun-14	07-Oct-14	324					
<b>Demolition of Existing Tai Wo Footbridge</b>												
<b>TWSR-West/ FL Highway N/B Side Section</b>												
TWFB-DE0900	Site Clearance	0%	30	30	20-May-14	24-Jun-14	737					
<b>Noise Barrier Along Fanling Highway S/B</b>												
<b>NB51 (Ch.5935-6055)-FH S/B Side</b>												
<b>Noise Barrier Works</b>												
NB02270	NB51 ID1-3 (0-25m) - Sheet piling & Excavation	0%	21	21	20-May-14	13-Jun-14	485					
NB02280	NB51 ID1-3 (0-25m) - Footing & Wall Structure	0%	90	90	14-Jun-14	29-Sep-14	485					
<b>NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&amp;P A)</b>												
<b>Noise Barrier Works</b>												
NB03010	NB61A (75-190m) - Sheet piling & Excavation	0%	35	26	22-Apr-14 A	30-Jun-14	-151					
NB03020	NB61A (75-190m) - Footing & Wall Structure	0%	70	70	02-Jul-14	22-Sep-14	-151					
<b>Other Works</b>												
<b>Site Clearance &amp; Demolition of Existing Structure</b>												
<b>Contract Condition</b>												
MCLT1000	Engineer Excise Section 3b Option	0%	0	0		12-Jul-14*	0					
Z2.P2N.1280	Re-provision of Man Ching Lung Tong	0%	150	150	14-Jul-14	10-Jan-15	6					
<b>South Buffer Zone 1 (SBZ1) (within Zon</b>												
<b>General</b>												
<b>General</b>												
<b>General</b>												

Remaining Level o...  
 Actual Level of Effort  
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 Remaining Work  
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 Milestone  
 Crit. Milestone

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**3 Month Rolling Program(20-May-14)**



Date	Revision	C...
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Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2014			
								May	Jun	Jul	Aug
POSSA328a	Tree Felling/Transplant	0%	30	30	21-May-14	25-Jun-14	-26				
POSSA328a10	Site Clearance/ Trip Pit etc	0%	30	30	26-Jun-14	31-Jul-14	-26				
POSSA329a	Tree Felling/Transplant	0%	30	30	03-Jun-14	08-Jul-14	-53				
POSSA329a10	Site Clearance/ Trip Pit etc	0%	30	30	09-Jul-14	12-Aug-14	-53				
<b>Noise Barrier Along TWSR-West and Layir</b>		0%	125	125	21-May-14	18-Oct-14	-165				
<b>NB64 &amp; NB64A (Ch.6860-6920)-TWSR West Side</b>		0%	125	125	21-May-14	18-Oct-14	-165				
<b>Noise Barrier Works</b>		0%	125	125	21-May-14	18-Oct-14	-165				
NB001000	NB64 & NB64A - Pre-drilling	0%	35	35	21-May-14	02-Jul-14	-165				
NB001010	NB64 & NB64A - piling (0.19m - 78no)	0%	90	90	03-Jul-14	18-Oct-14	-165				
<b>Bridge Construction</b>		39.57%	139	230	28-Nov-13 A	03-Nov-14	89				
<b>Kau Lung Hang Vehicular Bridge</b>		39.57%	139	230	28-Nov-13 A	03-Nov-14	89				
<b>General</b>		10.71%	25	28	28-Nov-13 A	18-Jun-14	10				
Z2.KLH.1070	Consent from Engineer	10.71%	25	28	28-Nov-13 A	18-Jun-14	10				
<b>KLH Bridge - West Ramp</b>		0%	20	20	01-Aug-14	23-Aug-14	-26				
Z2.KLH.0900	West Abutment - Pre-drilling work	0%	20	20	01-Aug-14	23-Aug-14	-26				
<b>KLH Bridge - Deck 3</b>		39.57%	139	230	28-Mar-14 A	03-Nov-14	89				
Z2.KLH.1325	Construct Temp Road - For diversion of existing TWR east	0%	20	20	13-Aug-14	04-Sep-14	-53				
Z2.KLH.1790	East Abutment - Pre-bored H-pile piling works (13 Nos.)	12.82%	34	39	28-Mar-14 A	28-Jun-14	-1				
Z2.KLH.1800	East Abutment - Pile testing	0%	30	30	30-Jun-14	04-Aug-14	-1				
Z2.KLH.1810	East Abutment - Pile caps, abutment wall construction	0%	75	75	05-Aug-14	03-Nov-14	-1				
Z2.KLH.1830	VBP7 - Pre-bored H-pile piling works (7 Nos.)	0%	35	21	09-Apr-14 A	30-Jun-14	163				
Z2.KLH.1840	VBP7 - Pile testing	0%	30	30	02-Jul-14	05-Aug-14	163				
Z2.KLH.1860	VBP8 - Pre-drilling work	0%	10	10	20-May-14	30-May-14	80				
Z2.KLH.1870	VBP8 - Pre-bored H-pile piling works (6 Nos.)	0%	18	18	30-Jun-14	21-Jul-14	56				
Z2.KLH.1880	VBP8 - Pile testing	0%	30	30	22-Jul-14	25-Aug-14	56				
<b>KLH Bridge - Deck 2</b>		0%	45	45	13-Aug-14	07-Oct-14	-10				
Z2.KLH.1190	Temp road diversion at TWSR-W for TTA for VBP5 works	0%	45	45	13-Aug-14	07-Oct-14	-10				
<b>Demolition of Existing Nam Wa Po Footbridge</b>		0%	116	116	21-May-14	08-Oct-14	-116				
<b>General</b>		0%	116	116	21-May-14	08-Oct-14	-116				
Z2.NWP.0500	Site Clearance	0%	20	20	21-May-14	13-Jun-14	-116				
Z2.NWP.1000	Modification of Existing Planter for Pier of Temporary Footbridge	0%	25	25	14-Jun-14	14-Jul-14	-116				
Z2.NWP.1010	Removal of Existing Staircase Portion	0%	26	26	15-Jul-14	13-Aug-14	-116				
Z2.NWP.1020	Temp. Steel Ramp, Pier, Deck Construction	0%	45	45	14-Aug-14	08-Oct-14	-116				
<b>North Buffer Zone 2 (NBZ2) (within Zone 2)</b>		0%	197	197	01-Feb-14 A	13-Jan-15	-79				
<b>Site Formation</b>		0%	180	180	10-May-14 A	20-Dec-14	-108				
<b>Site Formation Works</b>		0%	180	180	10-May-14 A	20-Dec-14	-108				
<b>Site Formation Work</b>		0%	180	180	10-May-14 A	20-Dec-14	-108				
Z4SF1065	Drainage Work	26.67%	22	30	10-May-14 A	14-Jun-14	-50				
Z4SF1070	Backfilling (~20000m3)	0%	180	180	10-May-14 A	20-Dec-14	-108				
<b>Retaining Wall W76</b>		0%	52	52	20-May-14	21-Jul-14	-70				
<b>Structure Works</b>		0%	52	52	20-May-14	21-Jul-14	-70				
RW761080	Base slab - W76 (~7m high)	0%	12	12	20-May-14	03-Jun-14	-70				
RW761085	Wall construction - W76 (~7m high)	0%	40	40	04-Jun-14	21-Jul-14	-70				
<b>Bridge Construction</b>		0%	197	197	01-Feb-14 A	13-Jan-15	-79				
<b>New Ho Ka Yuen Footbridge</b>		0%	197	197	05-May-14 A	13-Jan-15	-79				
<b>General</b>		0%	197	197	05-May-14 A	13-Jan-15	-79				
HKY1020	Site Clearance (TWSR-W side)	73.33%	8	30	05-May-14 A	28-May-14	-115				
HKY1030	Structure steel Shop drawing submission (HKYB)	0%	60	60	20-May-14	30-Jul-14	-81				
HKY1040	Structure steel Shop drawing approval (HKYB)	0%	30	30	14-Jul-14	16-Aug-14	-81				
HKY1050	Structure steel procurement (HKYB)	0%	150	150	16-Aug-14	13-Jan-15	-96				
<b>TWSR-West/ FL Highway N/B Side Section</b>		0%	0	0	22-May-14	22-May-14	0				
HKY1130	Soil Nail besides P6 & AB3 - VO detail available	0%	0	0	22-May-14*		0				
<b>TWSR-East FL Highway S/B Side Section</b>		0%	90	90	20-May-14	03-Sep-14	17				
HKY1500	HKYAB1 - Predrilling	0%	12	12	29-May-14	12-Jun-14	1				

Remaining Level o...  
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**3 Month Rolling Program(20-May-14)**

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Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2014				
								May	Jun	Jul	Aug	
HKY1510	HKYAB1 - Pre-bored H pile (4 nos)	0%	12	12	07-Aug-14	20-Aug-14	-45					
HKY1770	HKYP5 - Predrilling	0%	12	12	20-May-14	03-Jun-14	95					
HKY1820	HKYAB2 - Pre-bored H pile (22 nos)	0%	66	66	20-May-14	06-Aug-14	-45					
HKY1830	HKYAB2 - Pile Test	0%	28	28	07-Aug-14	03-Sep-14	14					
<b>Demolition of Existing Ho Ka Yuen Footbridge</b>		20.59%	108	136	01-Feb-14 A	25-Sep-14	-79					
<b>TWSR-West/ FL Highway N/B Side Section</b>		20.59%	108	136	01-Feb-14 A	25-Sep-14	-79					
HKY1875	Design and Procurement of Temp Ramp	85%	18	120	01-Feb-14 A	10-Jun-14	-125					
HKY1877	Notified Soil nail is required for AB3 & P6, decide start Temp Ramp first start	0%	0	0	22-May-14*		0					
HKY1880	Construct Temp Ramp for existing HKY footbridge	0%	90	90	11-Jun-14	25-Sep-14	-125					
HKY1900	Erect temp platform for demolishing Ramp & staircase at TWSR-W	0%	45	45	29-May-14	22-Jul-14	-24					
<b>ZONE 4 (Ch. 7925 to 8700)</b>		1.99%	197	201	03-Mar-14 A	13-Jan-15	744					
<b>Bridge Construction</b>		1.99%	197	201	03-Mar-14 A	13-Jan-15	744					
<b>New Wo Hop Shek Pedstrian &amp; Cycle Bridge</b>		1.99%	197	201	03-Mar-14 A	13-Jan-15	744					
<b>General</b>		0%	197	197	20-May-14	13-Jan-15	362					
WHS1010	Site Clearance & Temp Platform erection (SA340)	0%	45	45	20-May-14	12-Jul-14	369					
WHS1020	Structure steel Shop drawing submission (WHSB)	0%	60	60	20-May-14	30-Jul-14	371					
WHS1030	Structure steel Shop drawing approval (WHSB)	0%	30	30	14-Jul-14	16-Aug-14	371					
WHS1040	Structure steel procurement (WHSB)	0%	150	150	16-Aug-14	13-Jan-15	460					
<b>TWSR-West/ FL Highway N/B Side Section</b>		0%	101	101	20-May-14	17-Sep-14	840					
WHS1160	WHSP2 - Pre-bored H pile (8 nos)	0%	24	24	11-Aug-14	06-Sep-14	369					
WHS1230	WHSAB1 - Predrilling	0%	12	12	14-Jul-14	26-Jul-14	369					
WHS1240	WHSAB1 - Pre-bored H pile (4 nos)	0%	12	12	28-Jul-14	09-Aug-14	369					
WHS1250	WHSAB1 - Pile Test	0%	28	28	09-Aug-14	06-Sep-14	1063					
WHS1894	WHSP3 - Pre-bored H pile (6 nos)	0%	18	18	20-May-14	10-Jun-14	485					
WHS1896	WHSP3 - Pile Test	0%	28	28	11-Jun-14	08-Jul-14	597					
WHS1898	WHSP3 - Pile cap, Pier and Pier Head	0%	30	30	09-Jul-14	12-Aug-14	478					
WHS1910	WHSP4 - Pre-bored H pile (6 nos)	0%	18	18	11-Jun-14	02-Jul-14	505					
WHS1920	WHSP4 - Pile Test	0%	28	28	03-Jul-14	30-Jul-14	629					
WHS1930	WHSP4 - Pile cap, Pier and Pier Head	0%	30	30	13-Aug-14	17-Sep-14	478					
WHS1950	WHSP5 - Pre-bored H pile (6 nos)	0%	18	18	03-Jul-14	23-Jul-14	514					
WHS1960	WHSP5 - Pile Test	0%	28	28	24-Jul-14	20-Aug-14	644					
<b>Crossing Fanling Highway Section</b>		4.82%	79	83	03-Mar-14 A	21-Aug-14	817					
WHS1450	WHSP1 - Pre-bored H pile (6 nos)	77.78%	4	18	03-Mar-14 A	23-May-14	817					
WHS1460	WHSP1 - Pile Test	0%	28	28	24-May-14	20-Jun-14	1020					
WHS1470	WHSP1 - Pile cap, Pier and Pier Head	0%	52	52	21-Jun-14	21-Aug-14	817					
<b>TWSR-East FL Highway S/B Side Section</b>		0%	133	133	20-May-14	27-Oct-14	703					
WHS2050	North Abutment Wall (AW1) - Predrilling	0%	12	12	20-May-14	03-Jun-14	388					
WHS2060	North Abutment Wall (AW1) - Pre-bored H pile (4 nos)	0%	16	16	04-Jun-14	21-Jun-14	388					
WHS2070	North Abutment Wall (AW1) - Pile Test	0%	28	28	21-Jun-14	19-Jul-14	916					
WHS2075	North Abutment Wall (AW1) - Temp Shoring	0%	45	45	23-Jun-14	14-Aug-14	388					
WHS2080	North Abutment Wall (AW1) - pile cap & abutment wall	0%	60	60	15-Aug-14	27-Oct-14	703					
<b>Slip Road Y Construction</b>		0%	95	95	31-Jul-14	21-Nov-14	-76					
<b>Drainage &amp; Road Works</b>		0%	95	95	31-Jul-14	21-Nov-14	-156					
<b>TWSR-East FL Highway S/B Side Section</b>		0%	95	95	31-Jul-14	21-Nov-14	-156					
RDZ41000	Construct Slip Rd Y (Ch8250-8370)(SA340) (Z4 TTA-Stage 1)	0%	95	95	31-Jul-14	21-Nov-14	-156					
<b>Underground Utility Works</b>		0%	70	70	31-Jul-14	23-Oct-14	-51					
<b>DN600 and DN900 Water main</b>		0%	70	70	31-Jul-14	23-Oct-14	-51					
DN1000	DN600 & DN900 watermain laying (Ch8250-8370)(SA340) (near Z4 TTA-Stage 1)	0%	70	70	31-Jul-14	23-Oct-14	-51					
<b>Fanling Highway Construction</b>		0%	160	160	20-May-14	27-Nov-14	-166					
<b>Drainage &amp; Road Works</b>		0%	160	160	20-May-14	27-Nov-14	-166					
<b>TWSR-East FL Highway S/B Side Section</b>		0%	160	160	20-May-14	27-Nov-14	-166					
RDZ41004	Site Clearance & Tree Felling	0%	60	60	20-May-14	30-Jul-14	-166					
RDZ41005	Construct FH S/B Lane 1,2 (Ch8250-8370)(SA340) (Z4 TTA-Stage 1)	0%	100	100	31-Jul-14	27-Nov-14	-166					

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Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2014				
								May	Jun	Jul	Aug	
<b>Other Works</b>												
<b>Retaining Wall W77A</b>												
<b>TWSR-East FL Highway S/B Side Section</b>												
RWZ4.1050	Site Clearance	40%	18	30	05-May-14 A	10-Jun-14	428					
RWZ4.1060	Base slab & Wall (0-3m high)- RW77A (Ch.50-130)	0%	60	60	11-Jun-14	20-Aug-14	428					
RWZ4.1075	Temp Shoring & Excavation	0%	45	45	15-Aug-14	09-Oct-14	388					
<b>Retaining Wall W77B</b>												
<b>TWSR-East FL Highway S/B Side Section</b>												
RWZ4.1092	Site Clearance	0%	30	30	11-Jun-14	16-Jul-14	533					
<b>Retaining Wall W78</b>												
<b>TWSR-East FL Highway S/B Side Section</b>												
RWZ4.0900	Site Clearance	0%	30	30	17-Jul-14	20-Aug-14	563					
<b>TCSS Works</b>												
<b>TCSS Pre-Construction Works</b>												
TCSS0100	Acquire Design Criteria from Drawing & procurement	0%	180	180	20-May-14	20-Dec-14	512					

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Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2014				
								Jun	Jul	Aug	Sep	
<b>Contract Condition</b>												
<b>General</b>												
<b>Contract Condition</b>												
<b>Contract Condition</b>												
POSSA323A	Site Area SA323A (360d)	0%	0	0	13-Jul-14*		0					
POSSA323B	Site Area SA323B (360d)	0%	0	0	13-Jul-14*		0					
POSSA324	Site Area SA324 (180d)	0%	0	0	01-Jul-14*		0					
POSSA325	Site Area SA325 (180d)	0%	0	0	01-Aug-14*		0					
POSSA326	Site Area SA326 (180d)	0%	0	0	01-Aug-14*		0					
POSSA327	Site Area SA327 (180d)	0%	0	0	01-Sep-14*		0					
POSSA328	Site Area SA328 (90d)	0%	0	0	15-Jul-14*		0					
POSSA329	Site Area SA329 (90d)	0%	0	0	15-Jul-14*		0					
POSSA340	Site Area SA340 (0d)	0%	0	0	01-Jul-14*		0					
Z1.1000	Instruction by The Engineer to Commence Work (Section Subject to Excision-424d)(SA310)	0%	0	0		14-Sep-14*	0					14-Sep-14* ◆ Ins

<b>ZONE 1 (Ch. 5640 to 5880)</b>												
<b>Noise Barrier Along TWSR-West and Laying New Utilities</b>												
<b>Site Clearance &amp; Demolition of Existing Structure</b>												
<b>General</b>												
ADVZ10100	Site clearance	6.67%	28	30	30-May-14 A	23-Jul-14	109					
<b>NB42 (Ch.5640-5740)-TWSR West Side</b>												
<b>Noise Barrier Works</b>												
NB00110	NB42 (Ch5640-5740) - Footing & Wall Structure	0%	45	45	18-Aug-14	11-Oct-14	187					
<b>DSD Southern Trunk Sewer, Water Main Fire Main Works</b>												
TSZ10100	Sheet Piling & Excavation (~5m below ground) (along NB42)	0%	21	21	24-Jul-14	16-Aug-14	172					
TSZ10130	Watermain installation (along NB42)	0%	30	30	18-Aug-14	22-Sep-14	172					
<b>NB42A (Ch.5750-5810)-TWSR West Side</b>												
<b>Noise Barrier Works</b>												
NB00190	NB42A (Ch5750-5810) - Footing & Wall Structure	0%	30	30	14-Aug-14	18-Sep-14	109					
NB00200	NB42A (Ch5750-5810) - NB production	0%	45	45	19-Sep-14	02-Nov-14	1470					
<b>DSD Southern Trunk Sewer, Water Main Fire Main Works</b>												
TSZ10150	Sheet Piling & Excavation (~5m below ground) (along NB42A)	0%	18	18	24-Jul-14	13-Aug-14	109					
TSZ10180	Watermain installation (along NB42A)	0%	20	20	19-Sep-14	14-Oct-14	109					
<b>Underground Utility Works</b>												
UUZ10110	Utility cable laying by Utility companies (Along NB42A)	0%	24	24	19-Sep-14	18-Oct-14	125					

<b>ZONE 2 (Ch. 5880 to 6930)</b>												
<b>Noise Barrier Along TWSR-West and Laying New Utilities</b>												
<b>Site Clearance &amp; Demolition of Existing Structure</b>												
<b>Demolition Work</b>												
Z2.P2N.1242	Pending for design brief from Villager/ Engineer	40%	18	30	01-Jan-14 A	11-Jul-14	-106					
Z2.P2N.1245	Method statement submission/ approval	0%	60	60	12-Jul-14	20-Sep-14	-106					
<b>NB48 (Ch.5995-6120)-TWSR West Side</b>												
<b>Noise Barrier Works</b>												
NB00360	NB48 (NB48/1-5 up to THFB) piling (0.19m -54no)	7.41%	75	81	14-Jun-14 A	17-Sep-14	-20					
<b>DSD Southern Trunk Sewer, Water Main Fire Main Works</b>												
TSZ10400	Sheet Piling & Excavation (~5m below ground) (along NB48, 0-60m)	0%	21	21	18-Sep-14	14-Oct-14	-20					
<b>NB49B (Ch.6215-6235)-TWSR West Side</b>												
<b>Noise Barrier Works</b>												
NB00545	NB49B - Pre-drilling	0%	22	22	02-Jul-14	26-Jul-14	-38					
NB00550	NB49B piling (0.19m -22no)	0%	33	33	28-Jul-14	03-Sep-14	-38					
<b>NB54 (Ch.6240-6280)-TWSR West Side</b>												
<b>Noise Barrier Works</b>												
NB00605	NB54 - ID2-1 Pre-drilling (Deleted notified on 14-5, VO issued accordingly)	0%	0	0	28-Jul-14	28-Jul-14	-29					
<b>NB57 (Ch.6365-6445)-TWSR West Side</b>												
<b>Noise Barrier Works</b>												
NB00800	NB57 -Pre-drilling	0%	40	40	01-Aug-14	17-Sep-14	-152					
NB00810	NB57 piling (0.19m -82no)	0%	123	123	18-Sep-14	13-Feb-15	-152					
<b>NB63 (Ch.6610-6700)-TWSR West Side</b>												

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								Jun	Jul	Aug	Sep	
<b>Noise Barrier Works</b>												
NB4560	NB63 - ID3-1 Footing & Wall Structure	3.33%	58	60	14-Jun-14A	27-Aug-14	-8					
<b>DSD Southern Trunk Sewer, Water Main Fire Main Works</b>												
TSZ10300	Sheet Piling & Excavation (~7m below ground) (along NB63)	0%	12	12	01-Sep-14	15-Sep-14	-135					
TSZ10310	DSD Trunk Sewer laying (along NB63)	0%	18	18	16-Sep-14	08-Oct-14	-135					
<b>DSD Southern Trunk Sewer - Trenchless Construction</b>												
TSZ10950	Construct Pipe jacking pits	0%	60	60	16-Sep-14	26-Nov-14	61					
<b>Bridge Construction</b>												
<b>New Tai Hang Footbridge</b>												
<b>General</b>												
THBF0330	Structure steel Shop drawing submission (THFB)	0%	60	60	20-Jun-14	29-Aug-14	672					
THBF0335	Structure steel Shop drawing approval (THFB)	0%	30	30	13-Aug-14	17-Sep-14	672					
THBF0340	Structure steel procurement (THFB)	0%	150	150	18-Sep-14	14-Feb-15	839					
<b>TWSR-West/ FL Highway N/B Side Section</b>												
THBF0120	THP5 - Pre-bored H pile (8 nos)	0%	24	24	05-Jul-14	01-Aug-14	-28					
THBF0130	THP5 - Pile Test	0%	28	28	02-Aug-14	29-Aug-14	1076					
THBF0140	THP5 - Pile cap, Pier and Pier Head	0%	45	45	16-Aug-14	10-Oct-14	859					
THBF0160	THP8, THP9 - Pre-bored H pile (8 nos)	0%	24	24	02-Aug-14	29-Aug-14	-28					
THBF0170	THP8, THP9 - Pile Test	0%	28	28	30-Aug-14	26-Sep-14	1174					
THBF0180	THP8, THP9 - Pile cap, Pier and Pier Head	0%	30	30	13-Sep-14	20-Oct-14	941					
THBF0200	THAB3 - Pre-bored H pile (4 nos)	0%	12	12	20-Jun-14	04-Jul-14	-28					
THBF0210	THAB3 - Pile Test	0%	28	28	05-Jul-14	01-Aug-14	1199					
THBF0220	THAB3 - pile cap & abutment wall	0%	30	30	19-Jul-14	22-Aug-14	961					
THBF0230	THAB3 - Backfilling (~4m)	0%	27	27	23-Aug-14	24-Sep-14	961					
THBF0240	THP6, THP7 - Predrilling	37.5%	15	24	10-Jun-14A	08-Jul-14	752					
THBF0290	THAB2 - Pre-bored H pile (18 nos)	0%	54	54	30-Aug-14	04-Nov-14	-28					
<b>TWSR-East FL Highway S/B Side Section</b>												
THBF0435	Pending for RE & WSD information for C350 location	0%	5	5	01-May-14 A	25-Jun-14	792					
THBF0440	THAB1 - Predrilling	0%	12	12	09-Jul-14	22-Jul-14	782					
THBF0490	THP2 - Predrilling	0%	12	12	23-Jul-14	05-Aug-14	782					
THBF0700	THP3 - Predrilling	0%	6	6	06-Aug-14	12-Aug-14	800					
THBF0740	THP4 - Predrilling	0%	6	6	13-Aug-14	19-Aug-14	810					
<b>New Tai Wo Footbridge</b>												
<b>General</b>												
TWFB1010	Site Clearance	0%	30	30	01-Aug-14	04-Sep-14	-82					
TWFB1020	Structure steel Shop drawing submission (TWFB)	0%	90	90	20-Jun-14	07-Oct-14	893					
TWFB1030	Structure steel Shop drawing approval (TWFB)	0%	30	30	18-Sep-14	24-Oct-14	893					
<b>TWSR-West/ FL Highway N/B Side Section</b>												
TWFB1310	TWAB1 - Predrilling	0%	27	27	05-Sep-14	09-Oct-14	-82					
<b>Temporary Tai Wo Footbridge</b>												
<b>Design Works</b>												
TWFB-T1010	Design preparation	0%	90	90	20-Jun-14	07-Oct-14	324					
<b>Demolition of Existing Tai Wo Footbridge</b>												
<b>TWSR-West/ FL Highway N/B Side Section</b>												
TWFB-DE0900	Site Clearance	0%	30	30	20-Jun-14	25-Jul-14	711					
<b>Noise Barrier Along Fanling Highway S/B</b>												
<b>NB51 (Ch.5935-6055)-FH S/B Side</b>												
<b>Noise Barrier Works</b>												
NB02270	NB51 ID1-3 (0-25m) - Sheet piling & Excavation	0%	21	21	20-Jun-14	15-Jul-14	459					
NB02280	NB51 ID1-3 (0-25m) - Footing & Wall Structure	0%	90	90	16-Jul-14	31-Oct-14	459					
<b>NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&amp;P Area)</b>												
<b>Noise Barrier Works</b>												
NB03020	NB61A (75-190m) - Footing & Wall Structure	0%	79	70	02-Jun-14A	22-Sep-14	-151					
<b>Other Works</b>												
<b>Site Clearance &amp; Demolition of Existing Structure</b>												
<b>Contract Condition</b>												

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								Jun	Jul	Aug	Sep	
MCLT1000	Engineer Excise Section 3b Option	0%	0	0		12-Jul-14*	0					12-Jul-14* ◆ Engineer Excise Section 3b Option
Z2.P2N.1280	Re-provision of Man Ching Lung Tong	0%	150	150	14-Jul-14	10-Jan-15	6					
<b>South Buffer Zone 1 (SBZ1) (within Zone 2)(Ch.6740 to 6930)</b>												
<b>General</b>												
<b>General</b>												
<b>General</b>												
POSSA328a	Tree Felling/Transplant	0%	30	30	15-Jul-14	18-Aug-14	-71					
POSSA328a10	Site Clearance/ Trip Pit etc	0%	30	30	19-Aug-14	23-Sep-14	-71					
POSSA329a	Tree Felling/Transplant	0%	30	30	15-Jul-14	18-Aug-14	-88					
POSSA329a10	Site Clearance/ Trip Pit etc	0%	30	30	19-Aug-14	23-Sep-14	-88					
<b>Noise Barrier Along TWSR-West and Laying New Utilities</b>												
<b>NB64 &amp; NB64A (Ch.6860-6920)-TWSR West Side</b>												
<b>Noise Barrier Works</b>												
NB000900	Pending for Tree felling permit in area SA328 (RF132)	0%	35	5	10-Feb-14 A	31-Jul-14	-190					
NB001000	NB64 & NB64A - Pre-drilling	60%	14	35	15-May-14 A	31-Jul-14	-190					
NB001010	NB64 & NB64A - piling (0.19m - 78no)	0%	90	90	01-Aug-14	17-Nov-14	-190					
<b>Bridge Construction</b>												
<b>Kau Lung Hang Vehicular Bridge</b>												
<b>General</b>												
Z2.KLH.1070	Consent from Engineer	10.71%	25	28	28-Nov-13 A	19-Jul-14	-16					
<b>KLH Bridge - Ramp R1</b>												
Z2.KLH.1430	Ramp R1 - Pre-drilling work (R1P1-P3)	0%	27	27	15-May-14 A	31-Jul-14	92					
<b>KLH Bridge - Deck 3</b>												
Z2.KLH.1790	East Abutment - Pre-bored H-pile piling works (13 Nos.)	79.49%	8	39	28-Mar-14 A	28-Jun-14	-1					
Z2.KLH.1800	East Abutment - Pile testing	0%	30	30	30-Jun-14	04-Aug-14	-1					
Z2.KLH.1810	East Abutment - Pile caps, abutment wall construction	0%	75	75	05-Aug-14	03-Nov-14	-1					
Z2.KLH.1830	VBP7 - Pre-bored H-pile piling works (7 Nos.)	0%	35	21	09-Apr-14 A	31-Jul-14	137					
Z2.KLH.1840	VBP7 - Pile testing	0%	30	30	01-Aug-14	04-Sep-14	137					
Z2.KLH.1870	VBP8 - Pre-bored H-pile piling works (6 Nos.)	0%	29	18	03-May-14 A	24-Jul-14	53					
Z2.KLH.1880	VBP8 - Pile testing	0%	30	30	25-Jul-14	28-Aug-14	53					
<b>Demolition of Existing Nam Wa Po Footbridge</b>												
<b>General</b>												
Z2.NWP.0500	Site Clearance	0%	20	20	15-Jul-14	06-Aug-14	-161					
Z2.NWP.1000	Modification of Existing Planter for Pier of Temporary Footbridge	0%	25	25	07-Aug-14	04-Sep-14	-161					
Z2.NWP.1010	Removal of Existing Staircase Portion	0%	26	26	05-Sep-14	08-Oct-14	-161					
<b>North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100)</b>												
<b>Site Formation</b>												
<b>Site Formation Works</b>												
<b>Site Formation Work</b>												
Z4SF1065	Drainage Work	0%	34	30	10-May-14 A	30-Jul-14	-88					
Z4SF1070	Backfilling (~2000m3)	14.44%	154	180	10-May-14 A	20-Dec-14	-108					
<b>Retaining Wall W76</b>												
<b>Structure Works</b>												
RW761080	Base slab - W76 (~7m high)	0%	12	12	20-Jun-14	04-Jul-14	-66					
RW761085	Wall construction - W76 (~7m high)	0%	40	40	05-Jul-14	20-Aug-14	-66					
<b>Bridge Construction</b>												
<b>New Ho Ka Yuen Footbridge</b>												
<b>General</b>												
HKY1030	Structure steel Shop drawing submission (HKYB)	0%	60	60	20-Jun-14	29-Aug-14	-107					
HKY1040	Structure steel Shop drawing approval (HKYB)	0%	30	30	13-Aug-14	17-Sep-14	-107					
HKY1050	Structure steel procurement (HKYB)	0%	150	150	18-Sep-14	14-Feb-15	-128					
<b>TWSR-West/ FL Highway NB Side Section</b>												
HKY1130	Soil Nail besides P6 & AB3 - VO detail available	0%	0	0	20-Jun-14*		-24					◆ Soil Nail besides P6 & AB3 - VO detail available
<b>TWSR-East FL Highway S/B Side Section</b>												
HKY1510	HKYAB1 - Pre-bored H pile (4 nos)	0%	12	12	01-Sep-14	15-Sep-14	-66					
HKY1520	HKYAB1 - Pile Test	0%	28	28	16-Sep-14	13-Oct-14	-4					

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								Jun	Jul	Aug	Sep	
HKY1560	HKYP3 - Pre-bored H pile (8 nos)	0%	24	24	16-Sep-14	15-Oct-14	-66					
HKY1820	HKYAB2 - Pre-bored H pile (22 nos)	7.58%	61	66	10-Jun-14 A	30-Aug-14	-66					
HKY1830	HKYAB2 - Pile Test	0%	28	28	30-Aug-14	27-Sep-14	-10					
<b>Demolition of Existing Ho Ka Yuen Footbridge</b>												
<b>TWSR-West/ FL Highway N/B Side Section</b>												
HKY1880	Construct Temp Ramp for existing HKY footbridge	8.89%	82	90	11-Jun-14 A	25-Sep-14	-125					
HKY1900	Erect temp platform for demolishing Ramp & staircase at TWSR-W	0%	45	45	20-Jun-14	12-Aug-14	-42					
<b>ZONE 4 (Ch. 7925 to 8700)</b>												
<b>Bridge Construction</b>												
<b>New Wo Hop Shek Pedstrian &amp; Cycle Bridge</b>												
<b>General</b>												
WHS1020	Structure steel Shop drawing submission (WHSB)	0%	60	60	20-Jun-14	29-Aug-14	345					
WHS1030	Structure steel Shop drawing approval (WHSB)	0%	30	30	13-Aug-14	17-Sep-14	345					
WHS1040	Structure steel procurement (WHSB)	0%	150	150	18-Sep-14	14-Feb-15	428					
<b>TWSR-West/ FL Highway N/B Side Section</b>												
WHS1160	WHSP2 - Pre-bored H pile (8 nos)	0%	24	24	05-Jul-14	01-Aug-14	400					
WHS1170	WHSP2 - Pile Test	0%	28	28	02-Aug-14	29-Aug-14	494					
WHS1180	WHSP2 - Pile cap, Pier and Pier Head	0%	45	45	16-Aug-14	10-Oct-14	400					
WHS1200	WHSP6 - Pre-bored H pile (6 nos)	0%	18	18	02-Aug-14	22-Aug-14	431					
WHS1210	WHSP6 - Pile Test	0%	28	28	23-Aug-14	19-Sep-14	538					
WHS1224	WHSP7 - Pre-bored H pile (6 nos)	0%	18	18	23-Aug-14	13-Sep-14	454					
WHS1226	WHSP7 - Pile Test	0%	28	28	13-Sep-14	11-Oct-14	573					
WHS1240	WHSAB1 - Pre-bored H pile (4 nos)	0%	12	12	20-Jun-14	04-Jul-14	400					
WHS1250	WHSAB1 - Pile Test	0%	28	28	05-Jul-14	01-Aug-14	1099					
WHS1260	WHSAB1 - pile cap & abutment wall	0%	30	30	19-Jul-14	22-Aug-14	879					
WHS1270	WHSAB1 - Backfilling (-4m)	0%	27	27	23-Aug-14	24-Sep-14	879					
WHS1894	WHSP3 - Pre-bored H pile (6 nos)	0%	18	18	20-Jun-14	11-Jul-14	459					
WHS1896	WHSP3 - Pile Test	0%	28	28	12-Jul-14	08-Aug-14	566					
WHS1898	WHSP3 - Pile cap, Pier and Pier Head	0%	30	30	09-Aug-14	13-Sep-14	451					
WHS1910	WHSP4 - Pre-bored H pile (6 nos)	0%	18	18	12-Jul-14	01-Aug-14	479					
WHS1920	WHSP4 - Pile Test	0%	28	28	02-Aug-14	29-Aug-14	599					
WHS1930	WHSP4 - Pile cap, Pier and Pier Head	0%	30	30	15-Sep-14	21-Oct-14	451					
WHS1950	WHSP5 - Pre-bored H pile (6 nos)	0%	18	18	02-Aug-14	22-Aug-14	488					
WHS1960	WHSP5 - Pile Test	0%	28	28	23-Aug-14	19-Sep-14	614					
<b>Crossing Fanling Highway Section</b>												
WHS1470	WHSP1 - Pile cap, Pier and Pier Head	0%	52	52	18-Jun-14 A	20-Aug-14	818					
<b>TWSR-East FL Highway S/B Side Section</b>												
WHS2050	North Abutment Wall (AW1) - Predrilling	0%	12	12	20-Jun-14	04-Jul-14	362					
WHS2060	North Abutment Wall (AW1) - Pre-bored H pile (4 nos)	0%	16	16	05-Jul-14	23-Jul-14	362					
WHS2070	North Abutment Wall (AW1) - Pile Test	0%	28	28	24-Jul-14	20-Aug-14	884					
WHS2075	North Abutment Wall (AW1) - Temp Shoring	0%	45	45	24-Jul-14	15-Sep-14	362					
WHS2080	North Abutment Wall (AW1) - pile cap & abutment wall	0%	60	60	16-Sep-14	26-Nov-14	677					
<b>Slip Road Y Construction</b>												
<b>Underground Utility Works</b>												
<b>DN600 and DN900 Water main</b>												
DN0910	Design Information available for construction - DN600 Stage 1 (Vertical Alignment)	0%	0	0	20-Jun-14		-374					
DN1000	DN600 & DN900 watermain laying (Ch8250-8370)(SA340) (near Z4 TTA-Stage 1)	0%	70	70	11-Jul-14	03-Oct-14	-391					
<b>VO - Wall 76A Construction</b>												
<b>Retaining Wall W76A</b>												
<b>TWSR-East FL Highway S/B Side Section</b>												
W76A1015	Temp. road work for TTA for DN600	34.62%	17	26	11-Jun-14 A	10-Jul-14	-391					
W76A1032	W76A construction (bay 1-2 & 11-13)	28%	54	75	19-May-14 A	22-Aug-14	-212					
W76A1035	W76A backfilling work (bay 1-2 & 11-13)	0%	26	26	23-Aug-14	23-Sep-14	-212					
<b>Fanling Highway Construction</b>												

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								Jun	Jul	Aug	Sep	
<b>Drainage &amp; Road Works</b>												
<b>TWSR-East FL Highway S/B Side Section</b>												
RDZ41004	Site Clearance & Tree Felling	43.33%	34	60	20-May-14 A	30-Jul-14	-166					
<b>Other Works</b>												
<b>Retaining Wall W77A</b>												
<b>TWSR-East FL Highway S/B Side Section</b>												
RWZ4.1060	Base slab & Wall (0-3m high)- RW77A (Ch.50-130)	0%	60	60	20-Jun-14	29-Aug-14	420					
RWZ4.1070	Backfilling (0-3m) - RW77A(Ch.50-130)	0%	30	30	30-Aug-14	07-Oct-14	675					
RWZ4.1075	Temp Shoring & Excavation	0%	45	45	16-Sep-14	08-Nov-14	362					
<b>Retaining Wall W77B</b>												
<b>TWSR-East FL Highway S/B Side Section</b>												
RWZ4.1092	Site Clearance	0%	30	30	20-Jun-14	25-Jul-14	525					
RWZ4.1100	Base slab & Wall (0-3m high)- RW77B (Ch0-40)	0%	60	60	30-Aug-14	11-Nov-14	495					
<b>Retaining Wall W78</b>												
<b>TWSR-East FL Highway S/B Side Section</b>												
RWZ4.0900	Site Clearance	0%	30	30	26-Jul-14	29-Aug-14	555					
<b>TCSS Works</b>												
<b>TCSS Pre-Construction Works</b>												
TCSS0100	Acquire Design Criteria from Drawing & procurement	0%	180	180	20-Jun-14	23-Jan-15	486					

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								Jul	Aug	Sep	Oct
<b>Contract Condition</b>											
<b>General</b>											
<b>Contract Condition</b>											
<b>Contract Condition</b>											
POSSA323A	Site Area SA323A (360d)	0%	0	0	20-Jul-14*		-7				◆ Site Area SA323A (360d)
POSSA323B	Site Area SA323B (360d)	0%	0	0	20-Jul-14*		-7				◆ Site Area SA323B (360d)
POSSA326	Site Area SA326 (180d)	0%	0	0	01-Aug-14*		0				◆ Site Area SA326 (180d)
POSSA327	Site Area SA327 (180d)	0%	0	0	01-Sep-14*		0				◆ Site Area SA327 (180d)
POSSA328	Site Area SA328 (90d)	0%	0	0	20-Jul-14*		-5				◆ Site Area SA328 (90d)
POSSA329	Site Area SA329 (90d)	0%	0	0	20-Jul-14*		-5				◆ Site Area SA329 (90d)
POSSA340	Site Area SA340 (0d)	0%	0	0	20-Jul-14*		-19				◆ Site Area SA340 (0d)
Z1.1000	Instruction by The Engineer to Commence Work (Section Subject to Excision-424d)(SA310)	0%	0	0		14-Sep-14*	0				◆ 14-Sep-14* Instruction by The Engineer
<b>ZONE 1 (Ch. 5640 to 5880)</b>											
<b>Noise Barrier Along TWSR-West and Laying New Utilities</b>											
<b>Site Clearance &amp; Demolition of Existing Structure</b>											
<b>General</b>											
ADVZ10100	Site clearance	6.67%	28	30	30-May-14 A	21-Aug-14	84				
<b>NB42 (Ch.5640-5740)-TWSR West Side</b>											
<b>Noise Barrier Works</b>											
NB00110	NB42 (Ch5640-5740) - Footing & Wall Structure	0%	45	45	17-Sep-14	10-Nov-14	162				
<b>DSD Southern Trunk Sewer, Water Main Fire Main Works</b>											
TSZ10100	Sheet Piling & Excavation(-5m below ground) (along NB42)	0%	21	21	22-Aug-14	16-Sep-14	147				
TSZ10130	Watermain installation (along NB42)	0%	30	30	17-Sep-14	23-Oct-14	147				
<b>NB42A (Ch.5750-5810)-TWSR West Side</b>											
<b>Noise Barrier Works</b>											
NB00190	NB42A (Ch5750-5810) - Footing & Wall Structure	0%	30	30	13-Sep-14	20-Oct-14	84				
<b>DSD Southern Trunk Sewer, Water Main Fire Main Works</b>											
TSZ10150	Sheet Piling & Excavation(-5m below ground) (along NB42A)	0%	18	18	22-Aug-14	12-Sep-14	84				
<b>ZONE 2 (Ch. 5880 to 6930)</b>											
<b>Noise Barrier Along TWSR-West and Laying New Utilities</b>											
<b>Site Clearance &amp; Demolition of Existing Structure</b>											
<b>Demolition Work</b>											
Z2.P2N.1242	Pending for design brief from Villager/ Engineer	40%	18	30	01-Jan-14 A	09-Aug-14	-131				
Z2.P2N.1245	Method statement submission/ approval	0%	60	60	11-Aug-14	22-Oct-14	-131				
<b>NB48 (Ch.5995-6120)-TWSR West Side</b>											
<b>Noise Barrier Works</b>											
NB00360	NB48 (NB48/1-5 up to THFB) piling (0.19m -54no)	38.27%	50	81	14-Jun-14 A	17-Sep-14	-20				
<b>DSD Southern Trunk Sewer, Water Main Fire Main Works</b>											
TSZ10400	Sheet Piling & Excavation(-5m below ground) (along NB48, 0-60m)	0%	21	21	18-Sep-14	14-Oct-14	-20				
TSZ10410	DSD Trunk Sewer laying (along NB48, 0-60m)	0%	18	18	15-Oct-14	04-Nov-14	-20				
<b>NB49B (Ch.6215-6235)-TWSR West Side</b>											
<b>Noise Barrier Works</b>											
NB00545	NB49B - Pre-drilling	0%	22	22	21-Jul-14	14-Aug-14	-54				
NB00550	NB49B piling (0.19m -22no)	0%	33	33	15-Aug-14	23-Sep-14	-54				
<b>NB54 (Ch.6240-6280)-TWSR West Side</b>											
<b>Noise Barrier Works</b>											
NB00605	NB54 - ID2-1 Pre-drilling (Deleted notified on 14-5, VO issued accordingly)	0%	0	0	15-Aug-14	15-Aug-14	-45				
<b>NB57 (Ch.6365-6445)-TWSR West Side</b>											
<b>Noise Barrier Works</b>											
NB00800	NB57 -Pre-drilling	25%	30	40	19-Jun-14 A	23-Aug-14	-132				
NB00810	NB57 piling (0.19m -82no)	0%	123	123	25-Aug-14	21-Jan-15	-132				
<b>NB63 (Ch.6610-6700)-TWSR West Side</b>											
<b>Noise Barrier Works</b>											
NB4560	NB63 - ID3-1 Footing & Wall Structure	45%	33	60	14-Jun-14 A	27-Aug-14	-8				
<b>DSD Southern Trunk Sewer, Water Main Fire Main Works</b>											
TSZ10300	Sheet Piling & Excavation(-7m below ground) (along NB63)	0%	12	12	01-Sep-14	15-Sep-14	-135				
TSZ10310	DSD Trunk Sewer laying (along NB63)	0%	18	18	16-Sep-14	08-Oct-14	-135				

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	Layout: 3 Month Rolling Program			22-Jan-14	IWP Rev 4	
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Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2014				
								Jul	Aug	Sep	Oct	
TSZ10320	Backfill up to NB63 footing level	0%	34	34	09-Oct-14	17-Nov-14	-135					
<b>DSD Southern Trunk Sewer - Trenchless Construction</b>												
TSZ10950	Construct Pipe jacking pits	0%	60	60	16-Sep-14	26-Nov-14	61					
<b>Bridge Construction</b>												
<b>New Tai Hang Footbridge</b>												
<b>General</b>												
THBF0330	Structure steel Shop drawing submission (THFB)	0%	60	60	21-Jul-14	29-Sep-14	647					
THBF0335	Structure steel Shop drawing approval (THFB)	0%	30	30	12-Sep-14	18-Oct-14	647					
THBF0340	Structure steel procurement (THFB)	0%	150	150	18-Oct-14	17-Mar-15	808					
<b>TWSR-West/ FL Highway N/B Side Section</b>												
THBF0120	THP5 - Pre-bored H pile (8 nos)	0%	24	24	04-Aug-14	30-Aug-14	-53					
THBF0130	THP5 - Pile Test	0%	28	28	30-Aug-14	27-Sep-14	1047					
THBF0140	THP5 - Pile cap, Pier and Pier Head	0%	45	45	15-Sep-14	07-Nov-14	835					
THBF0160	THP8, THP9 - Pre-bored H pile (8 nos)	0%	24	24	01-Sep-14	29-Sep-14	-53					
THBF0170	THP8, THP9 - Pile Test	0%	28	28	30-Sep-14	27-Oct-14	1143					
THBF0180	THP8, THP9 - Pile cap, Pier and Pier Head	0%	30	30	14-Oct-14	17-Nov-14	917					
THBF0200	THAB3 - Pre-bored H pile (4 nos)	0%	12	12	21-Jul-14	02-Aug-14	-53					
THBF0210	THAB3 - Pile Test	0%	28	28	02-Aug-14	30-Aug-14	1170					
THBF0220	THAB3 - pile cap & abutment wall	0%	30	30	18-Aug-14	22-Sep-14	936					
THBF0230	THAB3 - Backfilling (~4m)	0%	27	27	23-Sep-14	25-Oct-14	936					
THBF0240	THP6, THP7 - Predrilling	37.5%	15	24	10-Jun-14 A	06-Aug-14	727					
THBF0290	THAB2 - Pre-bored H pile (18 nos)	0%	54	54	30-Sep-14	03-Dec-14	-53					
<b>TWSR-East FL Highway S/B Side Section</b>												
THBF0436	Trial pit for locating C350 watermain (2nd trial)	40%	9	15	10-Jul-14 A	30-Jul-14	763					
THBF0440	THAB1 - Predrilling	0%	12	12	07-Aug-14	20-Aug-14	757					
THBF0490	THP2 - Predrilling	0%	12	12	21-Aug-14	03-Sep-14	757					
THBF0700	THP3 - Predrilling	0%	6	6	04-Sep-14	11-Sep-14	775					
THBF0740	THP4 - Predrilling	0%	6	6	12-Sep-14	18-Sep-14	785					
<b>New Tai Wo Footbridge</b>												
<b>General</b>												
TWFB1010	Site Clearance	0%	30	30	21-Jul-14	23-Aug-14	-45					
TWFB1020	Structure steel Shop drawing submission (TWFB)	0%	90	90	21-Jul-14	05-Nov-14	868					
<b>TWSR-West/ FL Highway N/B Side Section</b>												
TWFB1130	TWP1 - Predrilling	0%	12	12	08-Sep-14	22-Sep-14	163					
TWFB1210	TWAB2 - Predrilling	0%	12	12	25-Aug-14	06-Sep-14	163					
TWFB1310	TWAB1 - Predrilling	0%	27	27	27-Jun-14 A	20-Aug-14	-42					
TWFB1320	TWAB1 - Pre-bored H pile (18 nos)	0%	54	54	25-Aug-14	29-Oct-14	-45					
<b>Temporary Tai Wo Footbridge</b>												
<b>Design Works</b>												
TWFB-T1010	Design preparation	0%	90	90	21-Jul-14	05-Nov-14	299					
<b>Demolition of Existing Tai Wo Footbridge</b>												
<b>TWSR-West/ FL Highway N/B Side Section</b>												
TWFB-DE0900	Site Clearance	0%	30	30	21-Jul-14	23-Aug-14	686					
<b>Noise Barrier Along Fanling Highway S/B</b>												
<b>NB51 (Ch.5935-6055)-FH S/B Side</b>												
<b>Noise Barrier Works</b>												
NB02270	NB51 ID1-3 (0-25m) - Sheet piling & Excavation	0%	21	21	21-Jul-14	13-Aug-14	434					
NB02280	NB51 ID1-3 (0-25m) - Footing & Wall Structure	0%	90	90	14-Aug-14	29-Nov-14	434					
<b>NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&amp;P Area)</b>												
<b>Noise Barrier Works</b>												
NB03020	NB61A (75-190m) - Footing & Wall Structure	0%	79	70	02-Jun-14 A	23-Oct-14	-190					
<b>Other Works</b>												
<b>Site Clearance &amp; Demolition of Existing Structure</b>												
<b>Contract Condition</b>												
Z2.P2N.1280	Re-provision of Man Ching Lung Tong	0%	150	150	21-Jul-14	17-Jan-15	0					
<b>General</b>												

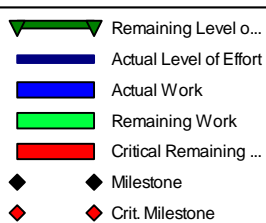
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								Jul	Aug	Sep	Oct	
Z2.P2N.1000	Liaison with relevant villages houses's owner and related parties	0%	30	30	10-Oct-14	13-Nov-14	-277					
<b>South Buffer Zone 1 (SBZ1) (within Zone 2)(Ch.6740 to 6930)</b>												
<b>General</b>												
<b>General</b>												
<b>General</b>												
POSSA328a	Tree Felling/Transplant	0%	30	30	21-Jul-14	23-Aug-14	-76					
POSSA328a10	Site Clearance/ Trip Pit etc	0%	30	30	25-Aug-14	29-Sep-14	-76					
POSSA329a	Tree Felling/Transplant	0%	30	30	21-Jul-14	23-Aug-14	-59					
POSSA329a10	Site Clearance/ Trip Pit etc	0%	30	30	25-Aug-14	29-Sep-14	-59					
<b>Noise Barrier Along TWSR-West and Laying New Utilities</b>												
<b>NB64 &amp; NB64A (Ch.6860-6920)-TWSR West Side</b>												
<b>Noise Barrier Works</b>												
NB001000	NB64 & NB64A - Pre-drilling	60%	14	35	15-May-14 A	05-Aug-14	-194					
NB001010	NB64 & NB64A - piling (0.19m - 78no)	0%	90	90	06-Aug-14	21-Nov-14	-194					
<b>Bridge Construction</b>												
<b>Kau Lung Hang Vehicular Bridge</b>												
<b>General</b>												
Z2.KLH.1070	Consent from Engineer	10.71%	25	28	28-Nov-13 A	18-Aug-14	-41					
<b>KLH Bridge - West Ramp</b>												
Z2.KLH.0900	West Abutment - Pre-drilling work	0%	20	20	30-Sep-14	24-Oct-14	-76					
<b>KLH Bridge - Ramp R1</b>												
Z2.KLH.1430	Ramp R1 - Pre-drilling work (R1P1-P3)	0%	27	27	15-May-14 A	20-Aug-14	75					
<b>KLH Bridge - Deck 3</b>												
Z2.KLH.1325	Construct Temp Road - For diversion of existing TWR east	0%	20	20	30-Sep-14	24-Oct-14	-59					
Z2.KLH.1800	East Abutment - Pile testing	0%	30	30	21-Jul-14	23-Aug-14	-18					
Z2.KLH.1810	East Abutment - Pile caps, abutment wall construction	0%	75	75	25-Aug-14	22-Nov-14	-18					
Z2.KLH.1840	VBP7 - Pile testing	0%	30	30	21-Jul-14	23-Aug-14	147					
Z2.KLH.1880	VBP8 - Pile testing	0%	30	30	21-Jul-14	23-Aug-14	57					
<b>KLH Bridge - Deck 2</b>												
Z2.KLH.1190	Temp road diversion at TWSR-W for TTA for VBP5 works	0%	45	45	30-Sep-14	22-Nov-14	-32					
<b>KLH Bridge - Ramp R2</b>												
Z2.KLH.1510	Ramp R2 - Pre-drilling work	0%	28	28	06-Feb-14 A	20-Oct-14	114					
Z2.KLH.1520	Ramp R2 - Pre-bored H-pile piling works (18 Nos.)	0%	54	54	27-Jun-14 A	29-Nov-14	114					
Z2.KLH.1590	Land Possession for House 190B	0%	0	0		30-Sep-14*	0					30-Sep-14* ◆ Land Posses
<b>Demolition of Existing Nam Wa Po Footbridge</b>												
<b>General</b>												
Z2.NWP.0500	Site Clearance	0%	20	20	21-Jul-14	12-Aug-14	-166					
Z2.NWP.1000	Modification of Existing Planter for Pier of Temporary Footbridge	0%	25	25	13-Aug-14	11-Sep-14	-166					
Z2.NWP.1010	Removal of Existing Staircase Portion	0%	26	26	12-Sep-14	14-Oct-14	-166					
Z2.NWP.1020	Temp. Steel Ramp, Pier, Deck Construction	0%	45	45	15-Oct-14	05-Dec-14	-166					
<b>North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100)</b>												
<b>Site Formation</b>												
<b>Site Formation Works</b>												
<b>Site Formation Work</b>												
Z4SF1065	Drainage Work	23.33%	23	30	10-May-14 A	15-Aug-14	-62					
Z4SF1070	Backfilling (~20000m3)	28.89%	128	180	10-May-14 A	19-Dec-14	-107					
<b>Retaining Wall W76</b>												
<b>Structure Works</b>												
RW761080	Base slab - W76 (~7m high)	0%	28	28	21-Jul-14	21-Aug-14	-107					
RW761085	Wall construction - W76 (~7m high)	0%	40	40	22-Aug-14	10-Oct-14	-107					
<b>Bridge Construction</b>												
<b>New Ho Ka Yuen Footbridge</b>												
<b>General</b>												
HKY1030	Structure steel Shop drawing submission (HKYB)	41.67%	35	60	20-Jun-14 A	29-Aug-14	-107					
HKY1040	Structure steel Shop drawing approval (HKYB)	0%	30	30	13-Aug-14	17-Sep-14	-107					
HKY1050	Structure steel procurement (HKYB)	0%	150	150	18-Sep-14	14-Feb-15	-128					
<b>TWSR-West/ FL Highway NB Side Section</b>												

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Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2014			
								Jul	Aug	Sep	Oct
HKY1135	Soil nail works	0%	50	50	05-Sep-14	05-Nov-14	-108				
<b>TWSR-East FL Highway S/B Side Section</b>											
HKY1510	HKYAB1 - Pre-bored H pile (4 nos)	0%	12	12	01-Sep-14	15-Sep-14	-42				
HKY1520	HKYAB1 - Pile Test	0%	28	28	16-Sep-14	13-Oct-14	-4				
HKY1530	HKYAB1 - pile cap & abutment wall	0%	30	30	30-Sep-14	05-Nov-14	-3				
HKY1560	HKYP3 - Pre-bored H pile (8 nos)	4.17%	23	24	04-Jul-14 A	15-Aug-14	-29				
HKY1570	HKYP3 - Pile Test	0%	28	28	16-Aug-14	12-Sep-14	35				
HKY1580	HKYP3 - Pile cap, Pier and Pier Head	0%	45	45	30-Aug-14	24-Oct-14	27				
HKY1740	HKYP4 - Pre-bored H pile (6 nos)	0%	18	18	16-Sep-14	08-Oct-14	-42				
HKY1750	HKYP4 - Pile Test	0%	28	28	09-Oct-14	05-Nov-14	-52				
HKY1780	HKYP5 - Pre-bored H pile (8 nos)	0%	24	24	09-Oct-14	05-Nov-14	-10				
HKY1820	HKYAB2 - Pre-bored H pile (22 nos)	45.45%	36	66	10-Jun-14 A	30-Aug-14	-42				
HKY1830	HKYAB2 - Pile Test	0%	28	28	30-Aug-14	27-Sep-14	-10				
HKY1840	HKYAB2 - pile cap & abutment wall	0%	60	60	29-Sep-14	09-Dec-14	-9				
<b>Demolition of Existing Ho Ka Yuen Footbridge</b>											
<b>TWSR-West/ FL Highway N/B Side Section</b>											
HKY1880	Construct Temp Ramp for existing HKY footbridge	55.56%	40	90	11-Jun-14 A	04-Sep-14	-108				
HKY1890	Pedestrian diversion	0%	1	1	05-Sep-14	05-Sep-14	-63				
HKY1900	Erect temp platform for demolishing Ramp & staircase at TWSR-W	0%	45	45	21-Jul-14	11-Sep-14	-67				
HKY1910	Demolish existing ramp & staircase at TWSR-W	0%	40	40	12-Sep-14	30-Oct-14	-67				
<b>ZONE 4 (Ch. 7925 to 8700)</b>											
<b>Bridge Construction</b>											
<b>New Wo Hop Shek Pedstrian &amp; Cycle Bridge</b>											
<b>General</b>											
WHS1020	Structure steel Shop drawing submission (WHSB)	0%	35	35	21-Jul-14	29-Aug-14	345				
WHS1030	Structure steel Shop drawing approval (WHSB)	0%	30	30	13-Aug-14	17-Sep-14	345				
WHS1040	Structure steel procurement (WHSB)	0%	150	150	18-Sep-14	14-Feb-15	428				
<b>TWSR-West/ FL Highway N/B Side Section</b>											
WHS1160	WHSP2 - Pre-bored H pile (8 nos)	0%	24	24	04-Aug-14	30-Aug-14	375				
WHS1170	WHSP2 - Pile Test	0%	28	28	30-Aug-14	27-Sep-14	465				
WHS1180	WHSP2 - Pile cap, Pier and Pier Head	0%	45	45	15-Sep-14	07-Nov-14	376				
WHS1200	WHSP6 - Pre-bored H pile (6 nos)	0%	18	18	01-Sep-14	22-Sep-14	406				
WHS1210	WHSP6 - Pile Test	0%	28	28	23-Sep-14	20-Oct-14	507				
WHS1224	WHSP7 - Pre-bored H pile (6 nos)	0%	18	18	23-Sep-14	15-Oct-14	429				
WHS1226	WHSP7 - Pile Test	0%	28	28	16-Oct-14	12-Nov-14	541				
WHS1240	WHSAB1 - Pre-bored H pile (4 nos)	0%	12	12	21-Jul-14	02-Aug-14	375				
WHS1250	WHSAB1 - Pile Test	0%	28	28	02-Aug-14	30-Aug-14	1070				
WHS1260	WHSAB1 - pile cap & abutment wall	0%	30	30	18-Aug-14	22-Sep-14	854				
WHS1270	WHSAB1 - Backfilling (~4m)	0%	27	27	23-Sep-14	25-Oct-14	854				
WHS1894	WHSP3 - Pre-bored H pile (6 nos)	0%	18	18	21-Jul-14	09-Aug-14	434				
WHS1896	WHSP3 - Pile Test	0%	28	28	09-Aug-14	06-Sep-14	537				
WHS1898	WHSP3 - Pile cap, Pier and Pier Head	0%	30	30	08-Sep-14	15-Oct-14	426				
WHS1910	WHSP4 - Pre-bored H pile (6 nos)	0%	18	18	11-Aug-14	30-Aug-14	454				
WHS1920	WHSP4 - Pile Test	0%	28	28	30-Aug-14	27-Sep-14	570				
WHS1930	WHSP4 - Pile cap, Pier and Pier Head	0%	30	30	16-Oct-14	19-Nov-14	426				
WHS1950	WHSP5 - Pre-bored H pile (6 nos)	0%	18	18	01-Sep-14	22-Sep-14	463				
WHS1960	WHSP5 - Pile Test	0%	28	28	23-Sep-14	20-Oct-14	583				
<b>Crossing Fanling Highway Section</b>											
WHS1470	WHSP1 - Pile cap, Pier and Pier Head	0%	52	52	18-Jun-14 A	19-Sep-14	793				
<b>TWSR-East FL Highway S/B Side Section</b>											
WHS2060	North Abutment Wall (AW1) - Pre-bored H pile (4 nos)	0%	16	16	21-Jul-14	07-Aug-14	349				
WHS2070	North Abutment Wall (AW1) - Pile Test	0%	28	28	08-Aug-14	04-Sep-14	802				
WHS2075	North Abutment Wall (AW1) - Temp Shoring	0%	45	45	08-Aug-14	30-Sep-14	349				



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								Jul	Aug	Sep	Oct
WHS2080	North Abutment Wall (AW1) -pile cap & abutment wall	0%	60	60	03-Oct-14	11-Dec-14	609				
<b>Slip Road Y Construction</b>											
Underground Utility Works											
DN600 and DN900 Watermain											
DN0910	Design Information available for construction - DN600 Stage 1 (Vertical Alignment)	0%	0	0	21-Jul-14		-399				◆ Design Information available for construction - DN600 Stage 1 (Vertical Alignment)
DN1000	DN600 & DN900 watermain laying (Ch8250-8370)(SA340) (near Z4 TTA-Stage 1)	0%	70	70	30-Jul-14	22-Oct-14	-407				
<b>VO - Wall 76A Construction</b>											
Retaining Wall W76A											
TWSR-East FL Highway S/B Side Section											
W76A1015	Temp. road work for TTA for DN600	69.23%	8	26	11-Jun-14 A	29-Jul-14	-407				
W76A1032	W76A construction (bay 1-2 & 11-13)	61.33%	29	75	19-May-14 A	22-Aug-14	-212				
W76A1035	W76A backfilling work (bay 1-2 & 11-13)	0%	26	26	23-Aug-14	23-Sep-14	-212				
<b>Fanling Highway Construction</b>											
Drainage & Road Works											
TWSR-East FL Highway S/B Side Section											
RDZ41004	Site Clearance & Tree Felling	85%	9	60	20-May-14 A	30-Jul-14	-166				
<b>Other Works</b>											
Retaining Wall W77A											
TWSR-East FL Highway S/B Side Section											
RWZ4.1060	Base slab & Wall (0-3m high)- RW77A (Ch.50-130)	0%	60	60	21-Jul-14	29-Sep-14	395				
RWZ4.1070	Backfilling (0-3m) - RW77A(Ch.50-130)	0%	30	30	30-Sep-14	05-Nov-14	650				
RWZ4.1075	Temp Shoring & Excavation	0%	45	45	03-Oct-14	24-Nov-14	349				
Retaining Wall W77B											
TWSR-East FL Highway S/B Side Section											
RWZ4.1092	Site Clearance	0%	30	30	21-Jul-14	23-Aug-14	500				
RWZ4.1100	Base slab & Wall (0-3m high)- RW77B (Ch0-40)	0%	60	60	30-Sep-14	10-Dec-14	470				
Retaining Wall W78											
TWSR-East FL Highway S/B Side Section											
RWZ4.0900	Site Clearance	0%	30	30	25-Aug-14	29-Sep-14	530				
TCSS Works											
TCSS Pre-Construction Works											
TCSS0100	Acquire Design Criteria from Drawing & procurement	0%	180	180	21-Jul-14	02-Mar-15	461				

	Project ID: DWP Rev 01 (1407)	<p align="center"><b>Contract No. HY/2012/06</b></p> <p align="center"><b>Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange</b></p> <p align="center"><b>3 Month Rolling Program(20-Jul-14)</b></p>		Date	Revision	C..
	Layout: 3 Month Rolling Program			22-Jan-14	IWP Rev 4	
	Page 5 of 5			26-Feb-14	IWP Rev 5	
				13-May-14	WP Rev 1	
				30-Jun-14	WP Rev 1A	

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

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

### **Air Quality – Schedule of Recommended Mitigation Measures**

Impact	Mitigation Measures	Timing	Implementation Status		
			May 14	Jun 14	Jul 14
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 <sup>3</sup> 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	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	V	V

### Noise – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			Feb 14	Mar 14	Apr 14
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		
			Feb 14	Mar 14	Apr 14
Water quality during construction	Demolition and reconstruction of bridges <ul style="list-style-type: none"> <li>- Prevent off-site migration through use of sheet piles.</li> <li>- Minimise duration of works as far as practical.</li> <li>- All sewer and drainage connections should be sealed to prevent debris, soil, sand, etc, from entering public sewers/drains.</li> <li>- Site surface runoff should be settled to remove sand/silt before it is discharged into the existing storm drains.</li> </ul>	During construction	#	#	#
	Road Widening Works, Earthworks and Culvert Extension Works <ul style="list-style-type: none"> <li>- 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.</li> <li>- Sand traps, oil interceptors and other pollution prevention installations should be provided, properly cleaned and maintained.</li> <li>- 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.</li> <li>- Regular inspections of stilling basins and/or silt traps is required to ensure that sediment is not conveyed into the existing drainage system.</li> <li>- Open stockpiles should be covered with a tarpaulin cover.</li> <li>- During the wet season, any exposed top soils should be covered with a tarpaulin, shotcreted or hydroseeded.</li> <li>- Sand and silt from wash-water from vehicle washing should be settled out before discharging into storm drains.</li> <li>- Fuels should be stored in bunded areas such that spillage can be easily collected.</li> </ul>		@	V	V

### Waste – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			Feb 14	Mar 14	Apr 14
Waste management during construction	<b>General Waste</b> <ul style="list-style-type: none"> <li>- Transport of wastes off site as soon as possible.</li> <li>- Maintenance of accurate waste records.</li> <li>- Minimisation of waste generation for disposal (via reduction/recycling/re-use).</li> <li>- No on-site burning will be permitted.</li> <li>- Use of re-useable metal hoardings/signboards.</li> </ul>	During construction	V	@	V
	<b>Vegetation from site clearance</b> <ul style="list-style-type: none"> <li>- Segregation of materials to facilitate disposal.</li> <li>- Mulching to reduce bulk and where possible review opportunities for the possible beneficial use within landscaping areas.</li> </ul>		V	V	V
	<b>Demolition Wastes</b> <ul style="list-style-type: none"> <li>- Segregation of materials to facilitate disposal.</li> <li>- Appropriate stockpile management.</li> </ul>		V	V	V
	<b>Excavated Materials</b> <ul style="list-style-type: none"> <li>- Segregation of materials to facilitate disposal / reuse.</li> <li>- Appropriate stockpile management.</li> <li>- Re-use of excavated material on or off site (where possible).</li> <li>- Special handling and disposal procedures in the event that contaminated materials are excavated.</li> </ul>		V	V	V
	<b>Construction Wastes</b> <ul style="list-style-type: none"> <li>- Segregation of materials to facilitate recycling/reuse (within designated area in appropriate containers/stockpiles).</li> <li>- Appropriate stockpile management.</li> <li>- Planning to reduce over ordering and waste generation.</li> <li>- Recycling and re-use of materials where possible (e.g. metal, wood from formwork)</li> <li>- For material which cannot be re-used/recycled, collection should be carried out by an approved waste contractor for landfill disposal.</li> </ul>		V	V	V
	<b>Bentonite Slurries</b> <ul style="list-style-type: none"> <li>- Bentonite slurries should be reused as far as possible.</li> <li>- Disposal in accordance with Practice Note For Professional Persons ProPECC PN 1/94.</li> </ul>		#	#	#

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

**Ecology – Schedule of Recommended Mitigation Measures**

Impact	Mitigation Measures	Timing	Implementation Status		
			Feb 14	Mar 14	Apr 14
Ecology during construction	<p>Accurate Delineation of Works Area</p> <ul style="list-style-type: none"> <li>- Boundaries of proposed works areas shall be clearly identified and separated from external areas by a physical barrier to prevent encroachment of adjacent habitats.</li> <li>- 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.</li> </ul>	During construction	V	V	V
	<p>Vegetation Clearance</p> <ul style="list-style-type: none"> <li>- No fires shall be lit within the works area for the purpose of burning cleared vegetation.</li> <li>- The Contractor shall give consideration to mulching the cleared vegetation for recycling within the works area / adjacent land.</li> </ul>		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"> <li>- Vehicle washing facilities to be provided at every discernible or designated vehicle exit point;</li> <li>- All temporary site access roads shall be sprayed with water to suppress dust as necessary;</li> <li>- All dusty materials should be sprayed with water immediately prior to any handling; and</li> <li>- All debris should be covered entirely by impervious sheeting or stored in a sheltered debris collection area.</li> </ul>		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"> <li>- Bund and cover stock piles to avoid run-off;</li> <li>- Channel any run-off through a system of oil, grease and sediment / silt traps and reuse water on site where ever practical;</li> <li>- All vehicle maintenance to be undertaken within a bunded area; and</li> <li>- Maximise vegetation retention on-site to maximise absorption (minimise transport).</li> </ul>		V	V	V

### Landscape and Visual Impact – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Responsibility		
			Feb 14	Mar 14	Apr 14
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;

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

# = to be implemented.

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

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## 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 <sup>3</sup>	500 µg/m <sup>3</sup>

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

Location	Action Level	Limit Level
AM2	200.7 µg/m <sup>3</sup>	260 µg/m <sup>3</sup>

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

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

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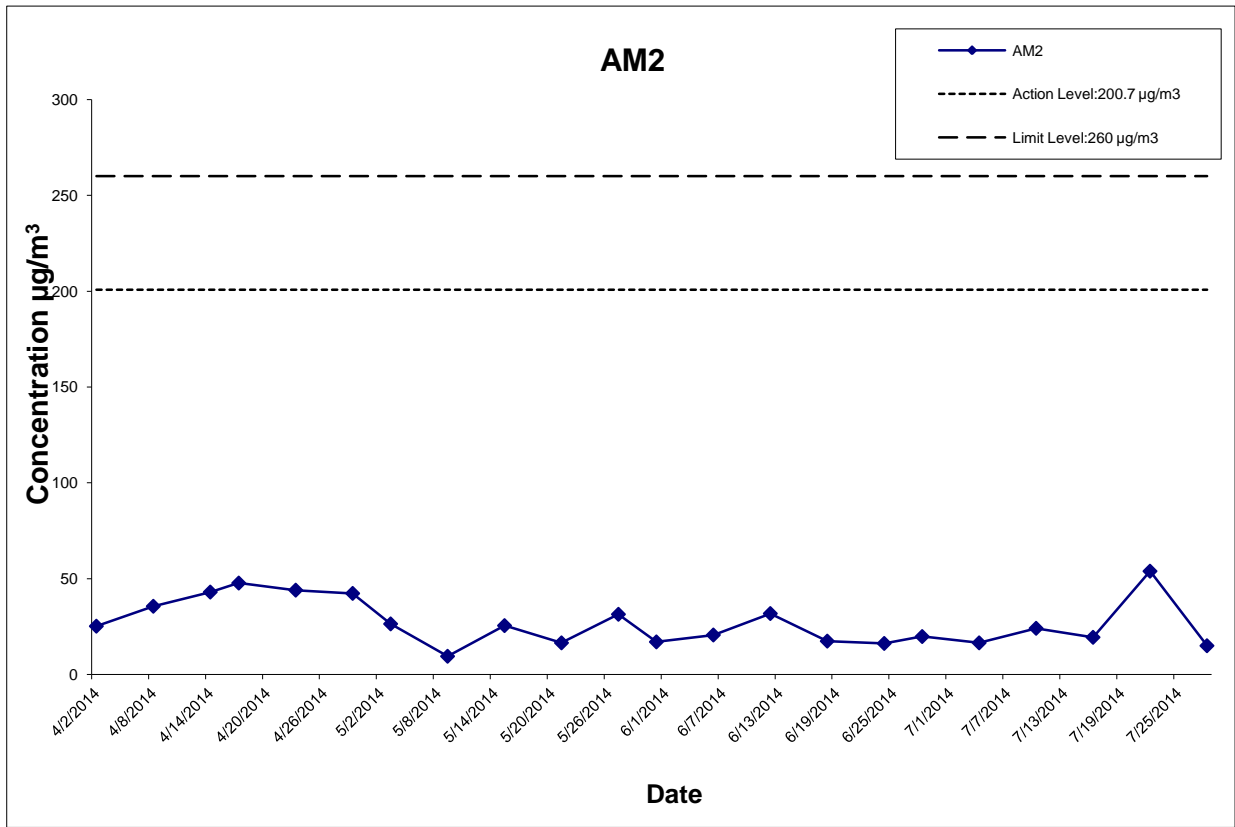
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## Impact Air Quality Monitoring Results

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

Date	Weather Condition	Air Temp. (°C)	Atmospheric Pressure(hPa)	Flow Rate (m <sup>3</sup> /min.)		Av. flow (m <sup>3</sup> /min)	Total vol. (m <sup>3</sup> )	Filter Weight (g)		Particulate weight(g)	Elapse Time		Sampling Time(hrs.)	Conc. (µg/m <sup>3</sup> )	Actino Level (µg/m <sup>3</sup> )	Limit Level (µg/m <sup>3</sup> )
				Initial	Final			Initial	Final		Initial	Final				
2-Apr-14	Rainy	19.4	1011.9	1.314	1.314	1.314	1892.2	2.7261	2.7737	0.0476	3753.02	3777.02	24.00	25.2	200.7	260
8-Apr-14	Fine	19.9	1014.6	1.314	1.314	1.314	1892.2	2.7022	2.7696	0.0674	3777.02	3801.02	24.00	35.6	200.7	260
14-Apr-14	Sunny	22.8	1014.7	1.314	1.314	1.314	1892.2	2.6934	2.7748	0.0814	3801.02	3825.02	24.00	43.0	200.7	260
17-Apr-14	Fine	24.1	1012.0	1.314	1.314	1.314	1892.2	2.7491	2.8394	0.0903	3825.02	3849.02	24.00	47.7	200.7	260
23-Apr-14	Cloudy	22.4	1012.3	1.314	1.314	1.314	1892.2	2.7202	2.8035	0.0833	3849.02	3873.02	24.00	44.0	200.7	260
29-Apr-14	Sunny	23.9	1013.1	1.314	1.314	1.314	1892.2	2.7230	2.8031	0.0801	3873.02	3897.02	24.00	42.3	200.7	260
3-May-14	Fine	24.6	1014.5	1.314	1.314	1.314	1892.2	2.7160	2.7659	0.0499	3897.02	3921.02	24.00	26.4	200.7	260
9-May-14	Rainy	21.7	1009.1	1.314	1.314	1.314	1892.2	2.7576	2.7756	0.0180	3921.02	3945.02	24.00	9.5	200.7	260
15-May-14	Cloudy	28.9	1005.1	1.314	1.314	1.314	1892.2	2.7400	2.7882	0.0482	3945.02	3969.02	24.00	25.5	200.7	260
21-May-14	Rainy	27.1	1006.9	1.314	1.314	1.314	1892.2	2.7175	2.7487	0.0312	3969.02	3993.02	24.00	16.5	200.7	260
27-May-14	Sunny	29.7	1007.9	1.314	1.314	1.314	1892.2	2.7417	2.8011	0.0594	3993.02	4017.02	24.00	31.4	200.7	260
31-May-14	Sunny	30.1	1008.0	1.314	1.314	1.314	1892.2	2.7477	2.7798	0.0321	4017.02	4041.02	24.00	17.0	200.7	260
6-Jun-14	Fine	28.0	1003.1	1.314	1.314	1.314	1892.2	2.6844	2.7234	0.0390	4041.02	4065.02	24.00	20.6	200.7	260
12-Jun-14	Fine	28.8	1002.1	1.314	1.314	1.314	1892.2	2.6640	2.7242	0.0602	4065.02	4089.02	24.00	31.8	200.7	260
18-Jun-14	Fine	30.1	1004.6	1.314	1.314	1.314	1892.2	2.6580	2.6909	0.0329	4089.02	4113.02	24.00	17.4	200.7	260
24-Jun-14	Fine	27.8	1004.3	1.314	1.314	1.314	1892.2	2.6555	2.6862	0.0307	4113.02	4137.02	24.00	16.2	200.7	260
28-Jun-14	Fine	30.8	1004.3	1.314	1.314	1.314	1892.2	2.7331	2.7706	0.0375	4137.02	4161.02	24.00	19.8	200.7	260
4-Jul-14	Sunny	30.9	1004.0	1.314	1.314	1.314	1892.2	2.7084	2.7397	0.0313	4161.02	4185.02	24.00	16.5	200.7	260
10-Jul-14	Fine	30.1	1003.9	1.314	1.314	1.314	1892.2	2.7170	2.7626	0.0456	4185.02	4209.02	24.00	24.1	200.7	260
16-Jul-14	Sunny	30.2	1007.9	1.314	1.314	1.314	1892.2	2.6473	2.6840	0.0367	4209.02	4233.02	24.00	19.4	200.7	260
22-Jul-14	Sunny	29.4	1002.6	1.314	1.314	1.314	1892.2	2.6721	2.7741	0.1020	4233.02	4257.02	24.00	53.9	200.7	260
28-Jul-14	Sunny	29.6	1006.3	1.314	1.314	1.314	1892.2	2.7296	2.7580	0.0284	4257.02	4281.02	24.00	15.0	200.7	260

Average for the reporting quarter (May 14 to Jul 14)	22.6
Minimum for the reporting quarter (May 14 to Jul 14)	9.5
Maximum for the reporting quarter (May 14 to Jul 14)	53.9



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



Graphical Presentation of Impact 24-hour TSP Monitoring Results

Project No.: 60307376

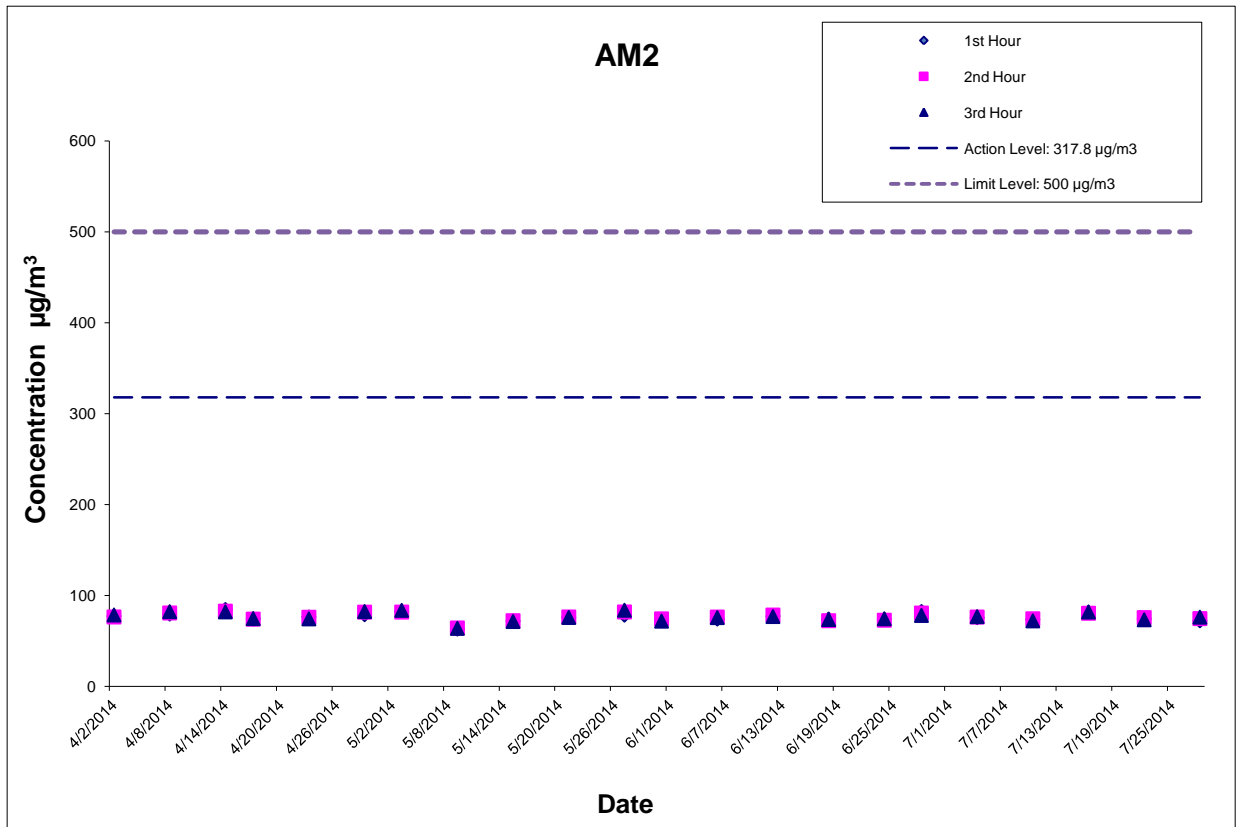
Date: Aug-14

Appendix G

## 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-14	13:31	77.2	76.2	78.4
8-Apr-14	11:30	79.4	80.6	82.1
14-Apr-14	12:15	84.4	82.6	81.8
17-Apr-14	12:16	74.1	73.8	74.4
23-Apr-14	12:20	76.2	75.9	74.1
29-Apr-14	13:35	78.7	81.5	82.2
3-May-14	13:33	82.2	81.6	83.5
9-May-14	13:30	62.9	64.1	63.7
15-May-14	14:07	71.7	72.1	71.2
21-May-14	14:00	75.8	76.2	75.7
27-May-14	14:00	78.2	81.7	83.6
31-May-14	10:10	72.7	74.1	71.6
6-Jun-14	10:21	73.9	76.1	75.5
12-Jun-14	10:05	77.2	78.3	76.7
18-Jun-14	13:20	73.9	72.1	73.4
24-Jun-14	10:20	73.7	72.6	74.2
28-Jun-14	10:09	82.2	80.5	77.9
4-Jul-14	10:47	75.4	76.1	76.6
10-Jul-14	10:18	73.5	74.2	71.9
16-Jul-14	9:49	81.4	80.3	81.7
22-Jul-14	10:13	74.2	75.5	73.1
28-Jul-14	10:00	72.0	74.4	76.0
Average for the reporting quarter (May 14 to Jul 14)				75.4
Minimum for the reporting quarter (May 14 to Jul 14)				62.9
Maximum for the reporting quarter (May 14 to Jul 14)				83.6



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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

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**APPENDIX F  
METEROLOGICAL DATA**

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**Extract of Meteorological Observations for Tai Po Automatic Weather Station,  
May 2014**

Date	Mean Pressure at M.S.L. (hPa)	Air Temperature			Mean Dew Point Temperature (deg C)	Relative Humidity		
		Max. (deg C)	Mean (deg C)	Min. (deg C)		Max. (%)	Mean (%)	Min. (%)
1-May	1012.5	24	22.3	21.2	20.1	94	87	79
2-May	1014.7	27.1	24.1	22.1	20.1	89	79	67
3-May	1014.3	27.4	24.5	22.7	19.4	87	74	53
4-May	1011.9	23.2	22.4	21.6	20.7	95	90	76
5-May	1014.4	23.6	20.6	18.7	19.1	98	92	73
6-May	1016.4	20	19.1	18.3	17.6	97	91	82
7-May	1013.6	21.1	20	19.3	18.8	98	93	87
8-May	1010.6	22.8	21.8	20.8	21.2	98	96	91
9-May	1009	22.1	21.4	20.6	20.9	99	97	95
10-May	1007.8	25.4	23.5	21.7	21.8	98	90	80
11-May	1007.5	25.1	22.8	21.7	22.3	99	97	84
12-May	1008.2	27.6	24.5	22.2	23.5	99	94	83
13-May	1006.6	29.2	25.9	24.3	24.5	99	92	79
14-May	1004.6	29.7	27.7	26.3	25.1	95	86	74
15-May	1004.5	30.3	28.2	26.4	25.4	95	85	74
16-May	1007.1	30.1	26.7	25.2	25.6	99	94	77
17-May	1008.3	30.9	27.1	24.6	25.5	99	91	73
18-May	1008.4	29.7	27.4	24.6	25.2	98	88	76
19-May	1008.3	31	27.2	23.8	25.1	97	88	72
20-May	1007.2	30.7	25.5	22.7	24.1	98	92	69
21-May	1006.3	29.6	26.2	23.2	24	98	88	74
22-May	1005	28.6	27.5	25.7	24.8	96	85	76
23-May	1008.2	27.1	25.6	24.4	24.8	98	96	89
24-May	1010.8	30	27	25	24.8	95	89	75
25-May	1010.8	31.8	28.1	24.4	25.2	98	85	66
26-May	1009.1	33.1	29.2	26.1	24.9	93	79	60
27-May	1007	34.2	29.8	26.9	25.3	90	77	58
28-May	1006.6	32.7	29.6	26.9	24.2	86	74	59
29-May	1006.3	32.1	29.1	26.9	24.9	91	78	63
30-May	1006.7	32.8	29.5	27	24.8	93	76	61
31-May	1007.4	34.1	29.7	26.4	24.9	95	76	51
<b>Mean</b>	1009	28.3	25.6	23.6	23.2	96	87	73
<b>Maximum</b>	1016.4	34.2	29.8	27	25.6	99	97	95
<b>Minimum</b>	1004.5	20	19.1	18.3	17.6	86	74	51



**Extract of Meteorological Observations for Tai Po Automatic Weather Station,  
May 2014**

<b>Date</b>	<b>Total Rainfall (mm)</b>	<b>Prevailing Wind Direction (degrees)</b>	<b>Mean Wind Speed (km/h)</b>
1-May	*****	***	*****
2-May	*****	***	*****
3-May	*****	***	*****
4-May	*****	***	*****
5-May	*****	***	*****
6-May	*****	***	*****
7-May	*****	***	*****
8-May	*****	***	*****
9-May	*****	***	*****
10-May	*****	***	*****
11-May	*****	***	*****
12-May	*****	***	*****
13-May	*****	***	*****
14-May	*****	***	*****
15-May	*****	***	*****
16-May	*****	***	*****
17-May	*****	***	*****
18-May	*****	***	*****
19-May	*****	***	*****
20-May	*****	***	*****
21-May	*****	***	*****
22-May	*****	***	*****
23-May	*****	***	*****
24-May	*****	***	*****
25-May	*****	***	*****
26-May	*****	***	*****
27-May	*****	***	*****
28-May	*****	***	*****
29-May	*****	***	*****
30-May	*****	***	*****
31-May	*****	***	*****
<b>Mean</b>	-----	***	*****
<b>Total</b>	*****	---	-----
<b>Maximum</b>	*****	---	*****
<b>Minimum</b>	*****	---	*****

\*\*\* unavailable

# missing (less than 24 hourly observations a day)

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

**Extract of Meteorological Observations for Tai Mei Tuk Automatic Weather Station,  
May 2014**

Date	Mean Pressure at M.S.L. (hPa)	Air Temperature			Mean Dew Point Temperature (deg C)	Relative Humidity		
		Max. (deg C)	Mean (deg C)	Min. (deg C)		Max. (%)	Mean (%)	Min. (%)
1-May	*****	26.6	22.6	21	****	***	***	***
2-May	*****	29.4	24.4	22	****	***	***	***
3-May	*****	28.9	24.6	22.7	****	***	***	***
4-May	*****	23.1	22.3	21.5	****	***	***	***
5-May	*****	24.3	20.9	19	****	***	***	***
6-May	*****	19.8	19.1	18.5	****	***	***	***
7-May	*****	21.2	20.1	19.2	****	***	***	***
8-May	*****	23.5	22.2	21.1	****	***	***	***
9-May	*****	22.3	21.6	20.7	****	***	***	***
10-May	*****	25.2	23.4	21.6	****	***	***	***
11-May	*****	24.7	23.2	22.1	****	***	***	***
12-May	*****	29.7	25.4	22.7	****	***	***	***
13-May	*****	28.3	26.3	24.5	****	***	***	***
14-May	*****	30.3	28.2	26.5	****	***	***	***
15-May	*****	30.7	28.5	27.2	****	***	***	***
16-May	*****	31	27.3	25.1	****	***	***	***
17-May	*****	31.4	27.7	24.9	****	***	***	***
18-May	*****	30.8	27.8	25	****	***	***	***
19-May	*****	30.9	27.7	24.2	****	***	***	***
20-May	*****	30.9	26	23.1	****	***	***	***
21-May	*****	30.2	26.8	23.7	****	***	***	***
22-May	*****	29.7	27.8	25.8	****	***	***	***
23-May	*****	27.7	25.9	24.6	****	***	***	***
24-May	*****	32.2	27.5	24.9	****	***	***	***
25-May	*****	33.2	29	25	****	***	***	***
26-May	*****	33.4	29.8	26.7	****	***	***	***
27-May	*****	34.5	30.3	27.5	****	***	***	***
28-May	*****	33.2	29.8	27.2	****	***	***	***
29-May	*****	32.8	29.6	27.6	****	***	***	***
30-May	*****	33.6	30	27.4	****	***	***	***
31-May	*****	35.6	30.7	27	****	***	***	***
<b>Mean</b>	*****	29	26	23.9	****	***	***	***
<b>Maximum</b>	*****	35.6	30.7	27.6	****	***	***	***
<b>Minimum</b>	*****	19.8	19.1	18.5	****	***	***	***

**Extract of Meteorological Observations for Tai Mei Tuk Automatic Weather Station,  
May 2014**

<b>Date</b>	<b>Total Rainfall (mm)</b>	<b>Prevailing Wind Direction (degrees)</b>	<b>Mean Wind Speed (km/h)</b>
1-May	0.0	50	12.0
2-May	0.0	80	14.2
3-May	0.0	90	20.6
4-May	4.5	80	16.0
5-May	31.5	40	13.7
6-May	5.0	40	13.5
7-May	1.0	40	13.7
8-May	93.5	50	10.9
9-May	71.5	70	15.2
10-May	4.0	140	10.9
11-May	223.5	50	9.6
12-May	4.5	50	7.4
13-May	50.5	50	13.7
14-May	6.0	240	23.4
15-May	1.0	230	10.5
16-May	32.0	50	5.4
17-May	42.5	270	9.1
18-May	3.0	250	10.0
19-May	12.5	270	13.8
20-May	19.5	60	7.6
21-May	8.0	260	9.7
22-May	29.0	250	17.1
23-May	124.5	50	8.8
24-May	0.0	50	7.7
25-May	9.5	50	8.1
26-May	0.0	260	10.1
27-May	0.0	260	12.4
28-May	0.0	220	13.4
29-May	0.0	240	10.8
30-May	0.0	230	9.8
31-May	0.0	140	6.1
<b>Mean</b>	-----	50	11.8
<b>Total</b>	777	---	-----
<b>Maximum</b>	223.5	---	23.4
<b>Minimum</b>	0.0	---	5.4

\*\*\* unavailable

# missing (less than 24 hourly observations a day)

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

**Extract of Meteorological Observations for Tai Po Automatic Weather Station,  
June 2014**

Date	Mean Pressure at M.S.L. (hPa)	Air Temperature			Mean Dew Point Temperature (deg C)	Relative Humidity		
		Max. (deg C)	Mean (deg C)	Min. (deg C)		Max. (%)	Mean (%)	Min. (%)
1-Jun	1006.7	33.2	29.7	27.3	25.2	94	77	61
2-Jun	1004.6	33.4	30	27.8	24.5	85	73	57
3-Jun	1003.5	32.1	28.8	26.6	24.6	90	79	64
4-Jun	1003.5	33.1	29.2	25.6	24.8	94	78	57
5-Jun	1002.9	33	28.7	26.8	25.9	95	85	62
6-Jun	1002.6	29.7	26.7	24.6	24.6	98	89	79
7-Jun	1001.7	27.8	26.1	24.8	24.6	97	91	85
8-Jun	1000.6	30.8	28	26.5	25.4	97	86	66
9-Jun	1001.3	29.6	27.5	25.7	23.8	91	81	70
10-Jun	1001.1	30.5	27.6	26.5	24	90	81	69
11-Jun	1001.4	28.3	27.4	25.4	24	97	82	73
12-Jun	1001.7	30.7	27.7	26.1	22.2	87	73	48
13-Jun	1002.2	31.3	27.7	23.8	20	84	64	43
14-Jun	1002.6	32.1	29.1	26.2	21.4	84	64	47
15-Jun	1001.1	30.7	27.9	24.9	24.2	97	81	61
16-Jun	1001.5	32.7	29.5	26.8	25.5	94	80	66
17-Jun	1004	31.3	28.9	26.2	26.2	98	86	73
18-Jun	1003.9	32.1	28.4	26.1	26.1	99	88	66
19-Jun	1002.6	32.8	29	25.5	26	98	85	62
20-Jun	1002	29.7	28.4	26.2	26.2	98	88	76
21-Jun	1002.5	30	27.8	25.3	26	98	91	81
22-Jun	1003.4	27.6	26.1	25	25.5	99	97	89
23-Jun	1003.6	28.3	26.5	25.5	25.7	99	95	86
24-Jun	1003.8	28.8	26.6	25.2	25.7	99	94	83
25-Jun	1005.2	28.5	26.8	25.1	25.7	99	94	83
26-Jun	1005.7	34	29.6	26.4	25.4	97	79	59
27-Jun	1004.9	33.4	29.9	26.9	25.9	93	80	54
28-Jun	1003.6	33.1	29.6	27	25.4	91	79	62
29-Jun	1004.3	31	28.8	26.5	25.5	97	83	64
30-Jun	1006.9	29.9	27.9	26.4	26	97	89	76
<b>Mean</b>	1003.2	31	28.2	26	24.9	95	83	67
<b>Maximum</b>	1006.9	34	30	27.8	26.2	99	97	89
<b>Minimum</b>	1000.6	27.6	26.1	23.8	20	84	64	43

**Extract of Meteorological Observations for Tai Po Automatic Weather Station,  
June 2014**

<b>Date</b>	<b>Total Rainfall (mm)</b>	<b>Prevailing Wind Direction (degrees)</b>	<b>Mean Wind Speed (km/h)</b>
1-Jun	*****	***	*****
2-Jun	*****	***	*****
3-Jun	*****	***	*****
4-Jun	*****	***	*****
5-Jun	*****	***	*****
6-Jun	*****	***	*****
7-Jun	*****	***	*****
8-Jun	*****	***	*****
9-Jun	*****	***	*****
10-Jun	*****	***	*****
11-Jun	*****	***	*****
12-Jun	*****	***	*****
13-Jun	*****	***	*****
14-Jun	*****	***	*****
15-Jun	*****	***	*****
16-Jun	*****	***	*****
17-Jun	*****	***	*****
18-Jun	*****	***	*****
19-Jun	*****	***	*****
20-Jun	*****	***	*****
21-Jun	*****	***	*****
22-Jun	*****	***	*****
23-Jun	*****	***	*****
24-Jun	*****	***	*****
25-Jun	*****	***	*****
26-Jun	*****	***	*****
27-Jun	*****	***	*****
28-Jun	*****	***	*****
29-Jun	*****	***	*****
30-Jun	*****	***	*****
<b>Mean</b>	-----	***	*****
<b>Total</b>	*****	---	-----
<b>Maximum</b>	*****	---	*****
<b>Minimum</b>	*****	---	*****

\*\*\* unavailable

# missing (less than 24 hourly observations a day)

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

**Extract of Meteorological Observations for Tai Mei Tuk Automatic Weather Station,  
June 2014**

Date	Mean Pressure at M.S.L. (hPa)	Air Temperature			Mean Dew Point Temperature (deg C)	Relative Humidity		
		Max. (deg C)	Mean (deg C)	Min. (deg C)		Max. (%)	Mean (%)	Min. (%)
1-Jun	*****	34.3	30.3	28	****	***	***	***
2-Jun	*****	33.8	30.2	28	****	***	***	***
3-Jun	*****	32.2	29.1	27	****	***	***	***
4-Jun	*****	34.4	30	26.4	****	***	***	***
5-Jun	*****	34.1	29.7	27	****	***	***	***
6-Jun	*****	33.9	27.5	25.1	****	***	***	***
7-Jun	*****	29.3	26.6	25.2	****	***	***	***
8-Jun	*****	33.2	29.1	26.2	****	***	***	***
9-Jun	*****	31.8	28	26.1	****	***	***	***
10-Jun	*****	30.9	28	26.1	****	***	***	***
11-Jun	*****	29.4	27.7	25.8	****	***	***	***
12-Jun	*****	31	28.2	26.1	****	***	***	***
13-Jun	*****	34.2	28.5	24.8	****	***	***	***
14-Jun	*****	35.2	30.4	26.8	****	***	***	***
15-Jun	*****	31.3	28.3	25.1	****	***	***	***
16-Jun	*****	32.5	29.6	26.6	****	***	***	***
17-Jun	*****	32.2	29.5	26.6	****	***	***	***
18-Jun	*****	32.2	29	26.5	****	***	***	***
19-Jun	*****	33.4	29.9	26.3	****	***	***	***
20-Jun	*****	30.9	28.8	26.1	****	***	***	***
21-Jun	*****	30.4	28.2	25.4	****	***	***	***
22-Jun	*****	28.7	26.8	25.4	****	***	***	***
23-Jun	*****	29.5	27.4	25.6	****	***	***	***
24-Jun	*****	31.2	27.5	25.5	****	***	***	***
25-Jun	*****	28.7	27.6	25.6	****	***	***	***
26-Jun	*****	34.2	29.9	27.2	****	***	***	***
27-Jun	*****	35.2	30.5	27.8	****	***	***	***
28-Jun	*****	34.9	30.5	28	****	***	***	***
29-Jun	*****	33.6	29.6	26.3	****	***	***	***
30-Jun	*****	31.9	28.5	26.5	****	***	***	***
<b>Mean</b>	*****	32.3	28.8	26.3	****	***	***	***
<b>Maximum</b>	*****	35.2	30.5	28	****	***	***	***
<b>Minimum</b>	*****	28.7	26.6	24.8	****	***	***	***

**Extract of Meteorological Observations for Tai Mei Tuk Automatic Weather Station,  
June 2014**

<b>Date</b>	<b>Total Rainfall (mm)</b>	<b>Prevailing Wind Direction (degrees)</b>	<b>Mean Wind Speed (km/h)</b>
1-Jun	0.0	220	9.2
2-Jun	0.0	270	15.2
3-Jun	0.0	270	9.5
4-Jun	0.0	230	8.4
5-Jun	3.5	270	9.0
6-Jun	27.5	60	5.7
7-Jun	5.0	260	5.3
8-Jun	0.0	90	8.6
9-Jun	0.0	90	16.7
10-Jun	0.0	60	13.8
11-Jun	1.0	80	14.5
12-Jun	0.0	90	12.5
13-Jun	0.0	60	10.0
14-Jun	0.0	40	10.0
15-Jun	6.5	270	10.5
16-Jun	2.0	240	16.3
17-Jun	28.5	240	12.7
18-Jun	50.5	240	12.4
19-Jun	7.5	150	6.1
20-Jun	5.0	270	6.8
21-Jun	41.5	70	7.8
22-Jun	74.5	60	6.7
23-Jun	42.5	40	6.1
24-Jun	16.0	50	6.1
25-Jun	32.5	50	6.4
26-Jun	0.0	150	6.5
27-Jun	0.0	140	6.5
28-Jun	0.0	150	6.1
29-Jun	14.0	70	13.8
30-Jun	20.0	140	9.6
<b>Mean</b>	-----	270	9.6
<b>Total</b>	378	---	-----
<b>Maximum</b>	74.5	---	16.7
<b>Minimum</b>	0.0	---	5.3

\*\*\* unavailable

# missing (less than 24 hourly observations a day)

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

**Extract of Meteorological Observations for Tai Po Automatic Weather Station,  
July 2014**

Date	Mean Pressure at M.S.L. (hPa)	Air Temperature			Mean Dew Point Temperature (deg C)	Relative Humidity		
		Max. (deg C)	Mean (deg C)	Min. (deg C)		Max. (%)	Mean (%)	Min. (%)
1-Jul	1008.2	30.2	27.5	25.6	26	98	92	77
2-Jul	1006.3	33	29.4	26.3	25.4	97	80	56
3-Jul	1003.5	32.9	29.6	26.9	25.7	98	80	62
4-Jul	1003.2	34.4	30.4	27.2	24.6	91	72	51
5-Jul	1003.6	33	29.8	27.4	26	89	80	68
6-Jul	1003.2	34.5	30.6	27.8	25.1	89	74	48
7-Jul	1001.1#	31.6	27.8#	25.5	25.2#	98	86#	70
8-Jul	999.7	31.4	28.8	26.1	25.9	94	85	76
9-Jul	1001.6	32.4	29.2	26.6	26	95	83	73
10-Jul	1003.2	31.6	29	26	26.1	96	85	70
11-Jul	1004.6	29.7	27.6	26.5	26.3	98	93	84
12-Jul	1006	32.2	28.3	26.7	26.5	98	90	69
13-Jul	1007.7	32.3	29	26.8	26.2	98	85	62
14-Jul	1008.7	32.9	29.8	27.5	25.6	90	79	60
15-Jul	1009	34.1	30.1	27.4	25	92	75	50
16-Jul	1007.3	31.9	29.4	26.8	25.1	92	78	61
17-Jul	1004.4	31.6	29.3	26.6	25.4	95	80	65
18-Jul	1003.5	29.5	27.8	25.6	25.3	96	87	74
19-Jul	1006.6	30.3	28.4	26.5	25.3	96	84	68
20-Jul	1007.3	30.6	28.1	25.5	25.4	98	86	66
21-Jul	1004.8	32.1	29.1	26.6	24.9	95	79	60
22-Jul	1001.7	33.8	28.7	25.9	25.5	95	83	60
23-Jul	998.5	34.3	31.3	27.4	26.1	92	74	60
24-Jul	1000.2	31.6	30.1	26.7	26	84	79	71
25-Jul	1005	31.1	28.3	25.8	25.1	95	83	72
26-Jul	1008.3	28.9	27.2	25.1	25.4	98	90	78
27-Jul	1008	30.8	28.1	25.9	25.4	98	86	69
28-Jul	1005.6	32.5	28.9	25.9	24.1	94	76	56
29-Jul	1004.6	32.8	29.2	25.9	23.4	85	71	48
30-Jul	1004.4	33.6	30	26.6	24.9	89	75	54
31-Jul	1002.1	34.9	31.1	27.2	24.8	88	70	49
<b>Mean</b>	1004.6#	32.1	29.1#	26.5	25.4#	94	81#	64
<b>Maximum</b>	1009.0#	34.9	31.3#	27.8	26.5#	98	93#	84
<b>Minimum</b>	998.5#	28.9	27.2#	25.1	23.4#	84	70#	48



**Extract of Meteorological Observations for Tai Po Automatic Weather Station,  
July 2014**

<b>Date</b>	<b>Total Rainfall (mm)</b>	<b>Prevailing Wind Direction (degrees)</b>	<b>Mean Wind Speed (km/h)</b>
1-Jul	*****	***	*****
2-Jul	*****	***	*****
3-Jul	*****	***	*****
4-Jul	*****	***	*****
5-Jul	*****	***	*****
6-Jul	*****	***	*****
7-Jul	*****	***	*****
8-Jul	*****	***	*****
9-Jul	*****	***	*****
10-Jul	*****	***	*****
11-Jul	*****	***	*****
12-Jul	*****	***	*****
13-Jul	*****	***	*****
14-Jul	*****	***	*****
15-Jul	*****	***	*****
16-Jul	*****	***	*****
17-Jul	*****	***	*****
18-Jul	*****	***	*****
19-Jul	*****	***	*****
20-Jul	*****	***	*****
21-Jul	*****	***	*****
22-Jul	*****	***	*****
23-Jul	*****	***	*****
24-Jul	*****	***	*****
25-Jul	*****	***	*****
26-Jul	*****	***	*****
27-Jul	*****	***	*****
28-Jul	*****	***	*****
29-Jul	*****	***	*****
30-Jul	*****	***	*****
31-Jul	*****	***	*****
<b>Mean</b>	-----	***	*****
<b>Total</b>	*****	---	-----
<b>Maximum</b>	*****	---	*****
<b>Minimum</b>	*****	---	*****

\*\*\* unavailable

# missing (less than 24 hourly observations a day)

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

**Extract of Meteorological Observations for Tai Mei Tuk Automatic Weather Station,  
July 2014**

Date	Mean Pressure at M.S.L. (hPa)	Air Temperature			Mean Dew Point Temperature (deg C)	Relative Humidity		
		Max. (deg C)	Mean (deg C)	Min. (deg C)		Max. (%)	Mean (%)	Min. (%)
1-Jul	*****	30.9	28.1	25.6	****	***	***	***
2-Jul	*****	34	30	27	****	***	***	***
3-Jul	*****	34.4	30.3	27.6	****	***	***	***
4-Jul	*****	34.5	30.8	28.2	****	***	***	***
5-Jul	*****	34.5	30.5	28.3	****	***	***	***
6-Jul	*****	34.8	31.1	28.3	****	***	***	***
7-Jul	*****	34.5	28.9	24.9	****	***	***	***
8-Jul	*****	34.5	30.1	27.1	****	***	***	***
9-Jul	*****	36.4	30.1	26.8	****	***	***	***
10-Jul	*****	35.1	30	27.4	****	***	***	***
11-Jul	*****	31.7	28.7	27	****	***	***	***
12-Jul	*****	31.8	29.3	27.8	****	***	***	***
13-Jul	*****	33.8	29.9	27.9	****	***	***	***
14-Jul	*****	33.7	30.1	28	****	***	***	***
15-Jul	*****	35.2	30.7	28.2	****	***	***	***
16-Jul	*****	34.7	30.3	27.6	****	***	***	***
17-Jul	*****	32.8	29.6	26.3	****	***	***	***
18-Jul	*****	28.7	27.1	25.5	****	***	***	***
19-Jul	*****	32	28.7	26.4	****	***	***	***
20-Jul	*****	32.1	28.7	25.6	****	***	***	***
21-Jul	*****	33.9	29.7	27.2	****	***	***	***
22-Jul	*****	34.6	29.4	27	****	***	***	***
23-Jul	*****	34.8	31.6	28.4	****	***	***	***
24-Jul	*****	31.6	29.8	26	****	***	***	***
25-Jul	*****	33.4	29.2	25.9	****	***	***	***
26-Jul	*****	32.9	27.8	25.4	****	***	***	***
27-Jul	*****	31.3	28.3	26.3	****	***	***	***
28-Jul	*****	34	29.9	26.5	****	***	***	***
29-Jul	*****	34.6	29.9	26.8	****	***	***	***
30-Jul	*****	35.3	30.9	27.7	****	***	***	***
31-Jul	*****	35.2	31.3	27.8	****	***	***	***
<b>Mean</b>	*****	33.6	29.7	27	****	***	***	***
<b>Maximum</b>	*****	36.4	31.6	28.4	****	***	***	***
<b>Minimum</b>	*****	28.7	27.1	24.9	****	***	***	***

**Extract of Meteorological Observations for Tai Mei Tuk Automatic Weather Station,  
July 2014**

<b>Date</b>	<b>Total Rainfall (mm)</b>	<b>Prevailing Wind Direction (degrees)</b>	<b>Mean Wind Speed (km/h)</b>
1-Jul	28.5	40	7.4
2-Jul	0.0	150	4.7
3-Jul	3.5	270	10.0
4-Jul	0.0	270	7.0
5-Jul	1.0	60	5.3
6-Jul	0.0	40	8.4
7-Jul	39.0	270	5.3
8-Jul	0.0	270	4.6
9-Jul	27.5	140	6.4
10-Jul	2.0	040#	5.9#
11-Jul	15.0	60	4.8
12-Jul	12.5	50	6.0
13-Jul	2.0	50	6.6
14-Jul	4.5	270	8.4
15-Jul	0.0	150	4.4
16-Jul	0.0	50	7.5
17-Jul	8.0	80	32.0
18-Jul	46.0	90	36.9
19-Jul	6.0	140	15.8
20-Jul	8.0	70	8.9
21-Jul	0.0	50	3.4
22-Jul	2.0	260	9.2
23-Jul	0.0	260	23.7
24-Jul	4.0	230	16.6
25-Jul	0.0	80	6.5
26-Jul	31.5	50	13.0
27-Jul	4.5	80	15.8
28-Jul	0.0	70	5.1
29-Jul	0.0	150	4.9
30-Jul	0.0	150	4.6
31-Jul	0.0	270	11.6
<b>Mean</b>	-----	050#	10.0#
<b>Total</b>	245.5	---	-----
<b>Maximum</b>	46.0	---	36.9#
<b>Minimum</b>	0.0	---	3.4#

\*\*\* unavailable

# missing (less than 24 hourly observations a day)

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

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

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**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-14	14:01	66.8	69.5	62.2	75	N
8-Apr-14	10:40	69.6	71.9	66.8	75	N
14-Apr-14	13:15	68.8	71.2	66.9	75	N
17-Apr-14	15:27	68.7	70.3	66.2	75	N
23-Apr-14	15:37	69.3	71.6	67.2	75	N
29-Apr-14	14:22	68.1	69.8	65.8	75	N
9-May-14	15:00	67.1	68.5	65.0	75	N
15-May-14	15:08	67.8	69.3	65.4	75	N
21-Mar-14	14:00	67.9	69.6	64.3	75	N
27-Mar-14	14:30	67.2	69.6	64.5	75	N
6-Jun-14	11:20	71.8	73.3	68.5	75	N
12-Jun-14	11:04	69.2	70.8	66.3	75	N
18-Jun-14	13:40	68.5	69.7	66.7	75	N
24-Jun-14	11:25	67.3	69.0	65.1	75	N
4-Jul-14	10:25	65.5	67.6	61.8	75	N
10-Jul-14	11:12	66.9	68.5	63.5	75	N
16-Jul-14	10:38	67.1	70.0	62.5	75	N
22-Jul-14	13:00	67.2	69.0	65.0	75	N
28-Jul-14	10:50	66.9	68.5	65.0	75	N
Minimum for May 14 to Jul 14		65.5	67.6	61.8		
Maximum for May 14 to Jul 14		71.8	73.3	68.5		
Average for May 14 to Jul 14		68.0	69.7	65.2		

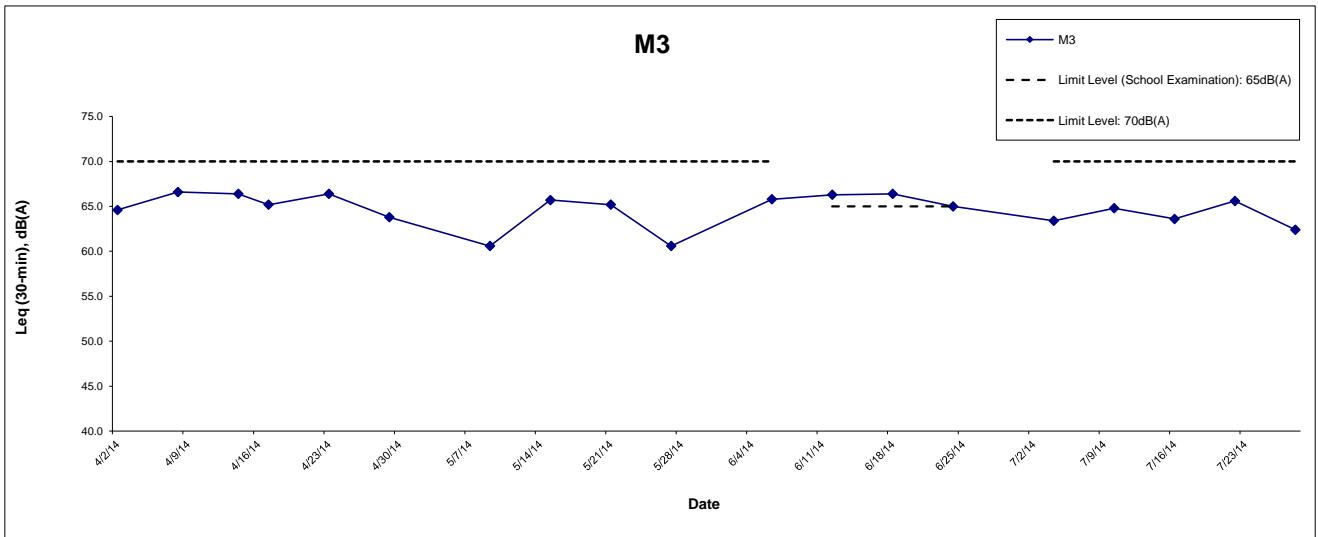
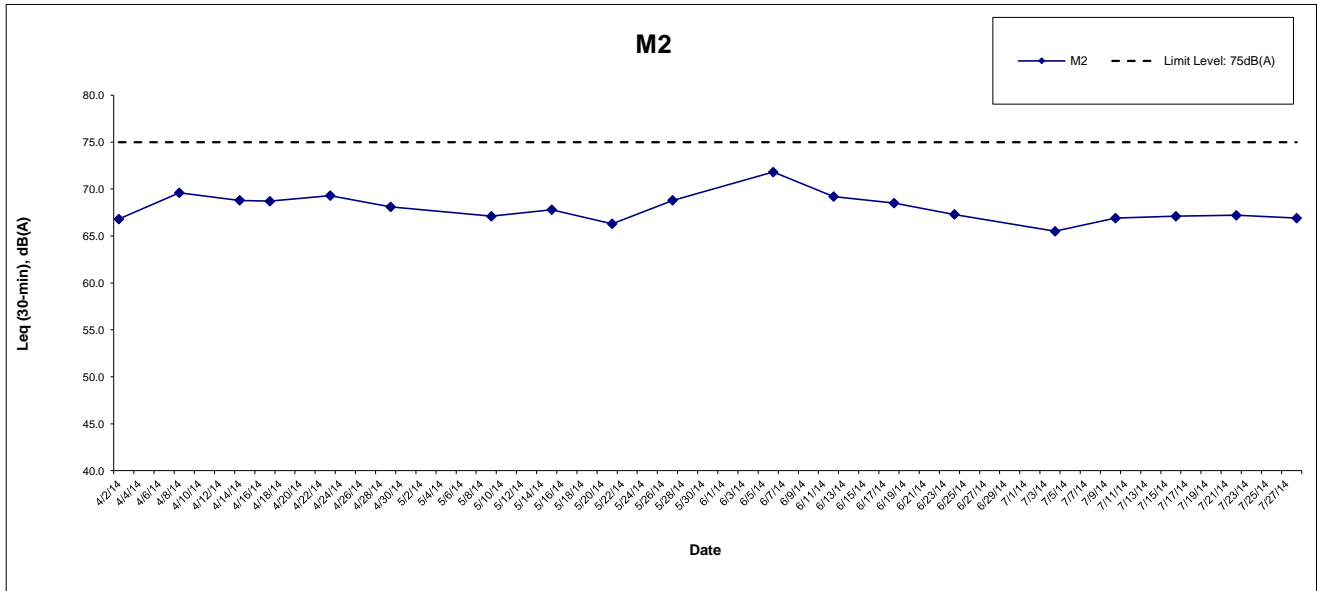
**Location : M3 (Fanling Government Secondary School- Façade)**

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-14	14:01	66.8	69.5	62.2	75	N
8-Apr-14	10:40	69.6	71.9	66.8	75	N
14-Apr-14	13:15	68.8	71.2	66.9	75	N
17-Apr-14	15:27	68.7	70.3	66.2	75	N
23-Apr-14	15:37	69.3	71.6	67.2	75	N
29-Apr-14	14:22	68.1	69.8	65.8	75	N
9-May-14	14:15	60.6	62.0	57.5	70	N
15-May-14	14:12	65.7	67.8	62.4	70	N
21-May-14	14:10	65.2	66.9	63.7	70	N
27-May-14	14:00	60.6	62.0	57.5	70	N
6-Jun-14	10:26	65.8	67.3	63.3	70	N
12-Jun-14	10:11	66.3	67.9	64.1	65	Y
18-Jun-14	14:09	66.4	68.1	65.2	65	Y
24-Jun-14	10:18	65.0	66.5	62.4	65	N
4-Jul-14	10:45	63.4	65.4	61.3	70	N
10-Jul-14	10:20	64.8	66.5	62.5	70	N
16-Jul-14	9:52	63.6	65.0	58.5	70	N
22-Jul-14	13:46	65.6	67.2	63.1	70	N
28-Jul-14	10:00	62.4	63.0	59.9	70	N
Minimum for May 14 to Jul 14		60.6	62.0	57.5		
Maximum for May 14 to Jul 14		66.4	68.1	65.2		
Average for May 14 to Jul 14		64.6	66.3	62.2		

\* +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-14

Appendix G

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

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## Appendix H

### Statistics on Complaints, Notifications of Summons and Successful Prosecutions

	Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
<b>Environmental complaints</b>	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	1	2
	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		
<b>Notification of summons</b>	-	-	-	0	0
<b>Successful Prosecutions</b>	-	-	-	0	0