# AECOM

# **Environmental Protection Department**

Contract No. HY/2012/06

# Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange

Monthly EM&A Report For August 2017

[9/2017]

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Rev. 0

Date: 14 September 2017

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T +852 2828 5757 F +852 2827 1823 mottmac.hk Environmental Monitoring and Audit (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/E Condition 3.3 – Submission of Monthly EM&A Report – August 2017 for the portion of Stage 2 works under Contract No. HY/2012/06

14 September 2017 By Fax (2805 5028) & Hand

We refer to the revised Monthly EM&A Report – August 2017 received on 13 September 2017 submitted by the Environmental Team via email. Pursuant to Environmental Permit Condition 3.3, I hereby verify the Monthly EM&A Report – August 2017 (Rev. 0) for the portion of works under Stage 2 of the captioned Project which is managed under Contract No. HY/2012/06.

Yours faithfully for MOTT MACDONALD HONG KONG LIMITED

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Steven Tang Independent Environmental Checker

c.c. HyD AECOM

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## TABLE OF CONTENTS

		Page
EXEC	CUTIVE SUMMARY	3
1 I	INTRODUCTION	5
	<ul> <li>1.1 Background</li> <li>1.2 Scope of Report</li> <li>1.3 Project Organization</li> <li>1.4 Summary of Construction Works</li> <li>1.5 Summary of EM&amp;A Programme Requirements</li> </ul>	5 6 7 7
2 A	AIR QUALITY MONITORING	8
	<ul> <li>2.1 Monitoring Requirements</li> <li>2.2 Monitoring Equipment</li> <li>2.3 Monitoring Locations</li> <li>2.4 Monitoring Parameters and Frequency</li> <li>2.5 Monitoring Methodology</li> <li>2.6 Monitoring Schedule for the Reporting period</li> <li>2.7 Results and Observations</li> </ul>	8 8 8 9 10 11
3 1	NOISE MONITORING	12
	<ul> <li>Monitoring Requirements</li> <li>Monitoring Equipment</li> <li>Monitoring Locations</li> <li>Monitoring Parameters and Frequency</li> <li>Monitoring Methodology</li> <li>Monitoring Schedule for the Reporting period</li> <li>Monitoring Results</li> </ul>	12 12 12 13 13 13
4 E	ENVIRONMENTAL SITE INSPECTION AND AUDIT	15
2	<ul> <li>4.1 Site Inspection</li> <li>4.2 Advice on the Solid and Liquid Waste Management Status</li> <li>4.3 Environmental Licenses and Permits</li> <li>4.4 Implementation Status of Environmental Mitigation Measures</li> <li>4.5 Summary of Exceedances of the Environmental Quality Performance Limit</li> <li>4.6 Summary of Complaints, Notification of Summons and Successful Prosecutions</li> </ul>	15 17 18 19 20 20
5 F	FUTURE KEY ISSUES	21
	<ul><li>5.1 Construction Programme for the Coming Months</li><li>5.2 Key Issues for the Coming Month</li></ul>	21 21

5.2 Key Issues for the Coming Month Monitoring Schedule for the Coming Month 53

6	CONCLUSIONS AND RECOMMENDATIONS
	6.1 Conclusions 6.2 Recommendations

21 22

22

22

## List of Tables

- Table 1.1Contact Information of Key Personnel
- Table 2.1
   Air Quality Monitoring Equipment
- Table 2.2 Locations of Impact Air Quality Monitoring Station
- Table 2.3 Air Quality Monitoring Parameters and Frequency
- Table 2.4
   Summary of 1-hour TSP Monitoring Results in the Reporting Period
- Table 2.5 Summary of 24-hour TSP Monitoring Results in the Reporting Period
- Table 3.1
   Noise Monitoring Equipment
- Table 3.2
   Locations of Impact Noise Monitoring Stations
- Table 3.3
   Noise Monitoring Parameters, Frequency and Duration
- Table 3.4
   Summary of Construction Noise Monitoring Results in the Reporting Period
- Table 4.1
   Summary of Waste Flow Table for Contract No. HY/2012/06
- Table 4.2 Summary of Waste Flow Table for Contract No. 02/HY/2015 (Works Order Nos. CB128520-5 and CB128519-0)
- Table 4.3
   Summary of Environmental Licensing and Permit Status

## Figures

Figure 1.1	General Project Layout Plan of Contract No. HY/2012/06
Figure 1.2	General Project Layout Plan of Contract No. 02/HY/2015 (Works Order Nos. CB128520-5 and CB128519-0)
Figure 1.3a-b	Locations of Monitoring Station Environmental Complaint Handling Procedures

## **List of Appendices**

- Appendix A Project Organization Structure
- Appendix B Construction Programme
- Appendix C Implementation Schedule of Environmental Mitigation Measures (EMIS)
- Appendix D Summary of Action and Limit Levels
- Appendix E Calibration Certificates of Monitoring Equipments
- Appendix F EM&A Monitoring Schedules
- Appendix G Impact Air Quality Monitoring Results and their Graphical Presentation
- Appendix H Meteorological Data for the Reporting period
- Appendix I Impact Daytime Construction Noise Monitoring Results and their Graphical Presentation
- Appendix J Event Action Plan
- Appendix K Site Inspection Summaries
- Appendix L Statistics on Complaints, Notifications of Summons and Successful Prosecutions
- Appendix M Complaint Investigation Report

# 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 Project is a designated project and governed by an Environmental Permit (EP-324/2008) issued by the EPD on 23 December 2008. Subsequently, the EPD issued Variation of Environmental Permits of EP-324/2008/A, EP-324/2008/B, EP-324/2008/C and EP-324/2008/D on 31 January 2012, 17 March 2014, 27 March 2015 and 27 August 2015 respectively. The current valid VEP was applied on 29 December 2016 and the VEP (EP-324/2008/E) was subsequently granted on 26 January 2017.

The construction works for this Project are 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 three works contracts. Contract No. HY/2012/06 "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". In addition, Contract No. "Provision of Bus-Bus Interchange on Fanling Highway Kowloon Bound" was carried out within the site boundary of Contract No. 02/HY/2015. This report focuses on Contract No. HY/2012/06 "Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange" in Stage 2 of the Project and "Provision of Bus-Bus Interchange on Fanling Highway Kowloon Bound" under Works Order Nos. CB128520-5 and CB128519-0 in Contract No. 02/HY/2015 "Highway Department Term Contract (Management and Maintenance of Roads in Tai Po and North District excluding High Speed Roads 2016-2022)".

Pursuant to the EP (EP-324/2008/E) 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 and 31 August 2017. As informed by the Contractor, construction activities of Contract No. HY/2012/06 in the reporting period were:

- Site clearance
- Ground investigation
- Pipe laying
- Retaining wall construction
- Noise Barrier
- Excavation
- Backfilling
- Drainage
- Foot Bridge demolition
- Bridge construction
- Piling

As informed by the Contractor, construction activities of Works Order Nos. CB128520-5 and CB128519-0

under Contract No. 02/HY/2015 in the reporting period were:

- Construction of type A footing with posts P01 and P02
- Construction of type F manhole
- Backfilling to Bay 3 to Bay 7

## **Reporting Change**

There was no reporting change required in the reporting period.

## Breaches of Action and Limit Levels for Air Quality

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

## **Breaches of Action and Limit Levels for Noise**

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

## Complaint, Notification of Summons and Successful Prosecution

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

## Future Key Issues

Key issues to be considered in the coming month include:

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

# 1 INTRODUCTION

## 1.1 Background

- 1.1.1. Tolo Highway and Fanling Highway are the expressways in the North East New Territories (NENT) connecting Sha Tin, Tai Po and Fanling. These highways form a vital part of the strategic Route 9, which links Hong Kong Island to the boundary at Shenzhen. At present, this section of Route 9 is a dual 3-lane carriageway. However, at several major interchanges along this section of Route 9, the highway is a dual-2 lane carriageway only. Severe congestion is a frequent occurrence during the peak periods, particularly in the Kowloon-bound direction.
- 1.1.2. 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.
- 1.1.3. The Project is a designated project and governed by an Environmental Permit (EP-324/2008) issued by the EPD on 23 December 2008. Subsequently, the EPD issued Variation of Environmental Permits of EP-324/2008/A, EP-324/2008/B, EP-324/2008/C and EP-324/2008/D on 31 January 2012, 17 March 2014, 27 March 2015 and 27 August 2015 respectively. The current valid VEP was applied on 29 December 2016 and the VEP (EP-324/2008/E) was subsequently granted on 26 January 2017.
- 1.1.4. The scope of the Project comprises mainly:-
  - (i) Widening of a 5.7 km section of Tolo Highway and 3.0 km section of Fanling Highway between Island House Interchange and Wo Hop Shek Interchange from the existing dual 3-lane to dual 4-lane, including construction of new vehicular bridges;
  - Widening of interchange sections at Island House Interchange, Tai Po North Interchange, and Lam Kam Road Interchange from dual 2-lane to dual 3-lane, except Sha Tin bound carriageway at Tai Po North Interchange, which is widened from 3-lane to 4-lane, including realignment of various slip roads;
  - (iii) Modification and reconstruction of highways, vehicular bridges, underpasses and footbridges.
- 1.1.5. 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. HY/2012/06 "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". In addition, Contract No. "Provision of Bus-Bus Interchange on Fanling Highway Kowloon Bound" was carried out within the site boundary of Contract No. 02/HY/2015. This report focuses on Contract No. HY/2012/06 "Widening of Fanling Highway Tai Hang to Wo Hop Shek Interchange" in Stage 2 of the Project and "Provision of Bus-Bus Interchange on Fanling Highway Kowloon Bound" under Works Order Nos. CB128520-5 and CB128519-0 in Contract No. 02/HY/2015 "Highway Department Term Contract (Management and Maintenance of Roads in Tai Po and North District excluding High Speed Roads 2016-2022)".
- 1.1.6. Hyder-Arup-Black and Veatch Joint Venture (HABVJV) are appointed by Highways Department (HyD) as the consultants for the design and construction assignment for the Tolo project under Agreement No. CE 58/2000 Supplementary Agreement No. 3 (SA3) (i.e. the Engineer for Contract No. HY/2012/06).
- 1.1.7. China State Construction Engineering (Hong Kong) Ltd. (CSHK) was commissioned as the Contractor of Contract No. HY/2012/06. Chiu Hing Construction & Transportation Company Limited (Chiu Hing) was commissioned as the Contractor of Contract No. 02/HY/2015.
- 1.1.8. AECOM Asia Co. Ltd. was commissioned by China State Construction Engineering (Hong Kong) Limited as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit

(EM&A) works for the Contract and Mott MacDonald Hong Kong Ltd. acts as the Independent Environmental Checker (IEC) for the Contract.

- 1.1.9. The construction phase of the Contract under the EP commenced on 21 November 2013.
- 1.1.10. According to the updated EM&A Manual of Stage 2 of the Project, there is a need of an EM&A programme including air quality and noise monitoring. The EM&A programme for Stage 2 of the Project commenced on 21 November 2013.

## 1.2 Scope of Report

1.2.1 This is the forty-sixth monthly EM&A Report under the Contract No. HY/2012/06 "Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange. This report presents a summary of the environmental monitoring and audit works, list of activities and mitigation measures proposed by the ET for the Contract in August 2017.

## 1.3 **Project Organization**

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

Party	Position	Name	Telephone	Fax
ER (Hyder-Arup-Black & Veatch Joint Venture)	Chief Resident Engineer	Edwin Chung	6115 0818	2638 0950
IEC (Mott MacDonald Hong Kong Limited)	Independent Environmental Checker	Steven Tang	2828 5920	2827 1823
Contractor of [HY/2012/06]		Michael Tsang	9277 4956	2672 2501
(China State Construction Engineering (Hong Kong) Limited)	Environmental Officer	C C Chow	9679 6315	2672 2501
Contractor of [02/HY/2015] (Chiu Hing Construction & Transportation Company Limited)	Safety Officer	Marty Tai	9106 5318	-
<b>ET</b> (AECOM Asia Company Limited)	ET Leader	Y W Fung	3922 9393	3922 9797

 Table 1.1
 Contact Information of Key Personnel

## 1.4 Summary of Construction Works

- 1.4.1 The construction phase for the Contract under the EP commenced on 21 November 2013.
- 1.4.2 Details of the construction works of Contract No. HY/2012/06 carried out by the Contractor in this reporting period are listed below:
  - Site clearance
  - Ground investigation
  - Pipe laying
  - Retaining wall construction
  - Noise Barrier
  - Excavation
  - Backfilling
  - Drainage
  - Foot Bridge demolition
  - Bridge construction
  - Piling

Details of the construction works of Works Order Nos. CB128520-5 and CB128519-0 under Contract No. 02/HY/2015 carried out by the Contractor in this reporting period are listed below:

- Construction of type A footing with posts P01 and P02
- Construction of type F manhole
- Backfilling to Bay 3 to Bay 7
- 1.4.3 The Construction Programme is shown in Appendix B.
- 1.4.4 The general layout plan of the Project site of Contract No. HY/2012/06 and Works Order Nos. CB128520-5 and CB128519-0 under 02/HY/2015 showing the contract areas are shown in Figure 1.1 and Figure 1.2 respectively.
- 1.4.5 The environmental mitigation measures implementation schedule are presented in Appendix C.

#### 1.5 Summary of EM&A Programme Requirements

- 1.5.1 The EM&A programme required environmental monitoring for air quality, noise and environmental site inspections for air quality, water quality, noise, waste management, ecology, and landscape and visual impact. The EM&A requirements for each parameter described in the following sections include:-
  - All monitoring parameters;
  - Monitoring schedules for the reporting period and forthcoming months;
  - Action and Limit levels for all environmental parameters;
  - Event / Action Plan;
  - Environmental mitigation measures, as recommended in the Project EIA study final report; and
  - Environmental requirement in contract documents.

# 2 AIR QUALITY MONITORING

#### 2.1 Monitoring Requirements

2.1.1 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. The Action and Limit level of the air quality monitoring is provided in Appendix D.

## 2.2 Monitoring Equipment

2.2.1 24-hour TSP air quality monitoring was performed using High Volume Sampler (HVS) located at each designated monitoring station. The HVS meets all the requirements of the updated EM&A Manual. Portable direct reading dust meters were used to carry out the 1-hour TSP monitoring. Brand and model of the equipment is given in Table 2.1.

 Table 2.1
 Air Quality Monitoring Equipment

Equipment	Brand and Model
Portable direct reading dust meter (1-hour TSP)	Sibata Digital Dust Monitor (Model No. LD-3)
High Volume Sampler (24-hour TSP)	Tisch Total Suspended Particulate Mass Flow Controlled High Volume Air Sampler (Model No. TE-5170)

#### 2.3 Monitoring Locations

2.3.1 The monitoring station was set up at the proposed location in accordance with updated EM&A Manual. Table 2.2 describes details of the monitoring station. The locations are shown in Figure 1.3a.

#### Table 2.2 Locations of Impact Air Quality Monitoring Station

Location	Monitoring Station
AM2 (SR2)	Fanling Government Secondary School

## 2.4 Monitoring Parameters and Frequency

2.4.1 Table 2.3 summarizes the monitoring parameters, frequency and duration of impact TSP monitoring.

## Table 2.3 Air Quality Monitoring Parameters and Frequency

Parameter	Frequency	
24-hour TSP	Once every 6 days	
1-hour TSP	3 times every 6 days while the highest dust impact was expected	

## 2.5 Monitoring Methodology

- 2.5.1 24-hour TSP Monitoring
  - (a) The HVS was installed in the vicinity of the air sensitive receivers. The following criteria were considered in the installation of the HVS.
    - (i) A horizontal platform with appropriate support to secure the sampler against gusty wind was provided.
    - (ii) The distance between the HVS and any obstacles, such as buildings, was at least twice the height that the obstacle protrudes above the HVS.
    - (iii) A minimum of 2 meters separation from walls, parapets and penthouse for rooftop sampler.
    - (iv) A minimum of 2 meters separation from any supporting structure, measured horizontally.
    - (v) No furnace or incinerator flues nearby.
    - (vi) Airflow around the sampler was unrestricted.
    - (vii) Permission was obtained to set up the samplers and access to the monitoring stations.
    - (viii) A secured supply of electricity was obtained to operate the samplers.
    - (ix) The sampler was located more than 20 meters from any dripline.
    - (x) Any wire fence and gate, required to protect the sampler, did not obstruct the monitoring process.
    - (xi) Flow control accuracy was kept within ±2.5% deviation over 24-hour sampling period.
  - (b) Preparation of Filter Papers
    - (i) Glass fibre filters, G810 were labelled and sufficient filters that were clean and without pinholes were selected.
    - (ii) All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than ±3 °C; the relative humidity (RH) was < 50% and not variable by more than ±5%. A convenient working RH was 40%.
    - (iii) All filter papers were prepared and analysed by ALS Technichem (HK) Pty Ltd., which is a HOKLAS accredited laboratory and has comprehensive quality assurance and quality control programmes.
  - (c) Field Monitoring
    - (i) The power supply was checked to ensure the HVS works properly.
    - (ii) The filter holder and the area surrounding the filter were cleaned.
    - (iii) The filter holder was removed by loosening the four bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully.
    - (iv) The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter.
    - (v) The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied was sufficient to avoid air leakage at the edges.
    - (vi) Then the shelter lid was closed and was secured with the aluminum strip.
    - (vii) The HVS was warmed-up for about 5 minutes to establish run-temperature conditions.
    - (viii) A new flow rate record sheet was set into the flow recorder.
    - (ix) On site temperature and atmospheric pressure readings were taken and the flow rate of the HVS was checked and adjusted at around 1.1 m<sup>3</sup>/min, and complied with the range specified in the updated EM&A Manual (i.e. 0.6-1.7 m<sup>3</sup>/min).
    - (x) The programmable digital timer was set for a sampling period of 24 hrs, and the starting time, weather condition and the filter number were recorded.
    - (xi) The initial elapsed time was recorded.
    - (xii) At the end of sampling, on site temperature and atmospheric pressure readings were taken and the final flow rate of the HVS was checked and recorded.
    - (xiii) The final elapsed time was recorded.

- (xiv) The sampled filter was removed carefully and folded in half length so that only surfaces with collected particulate matter were in contact.
- (xv) It was then placed in a clean plastic envelope and sealed.
- (xvi) All monitoring information was recorded on a standard data sheet.
- (xvii) Filters were then sent to ALS Technichem (HK) Pty Ltd. for analysis.
- (d) Maintenance and Calibration
  - (i) The HVS and its accessories were maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.
  - (ii) 5-point calibration of the HVS was conducted using TE-5025A Calibration Kit prior to the commencement of baseline monitoring. Bi-monthly 5-point calibration of the HVS will be carried out during impact monitoring.
  - (iii) Calibration certificate of the HVSs are provided in Appendix E.
- 2.5.2 1-hour TSP Monitoring
  - (a) Measuring Procedures

The measuring procedures of the 1-hour dust meter were in accordance with the Manufacturer's Instruction Manual as follows:-

- (i) Turn the power on.
- (ii) Close the air collecting opening cover.
- (iii) Push the "TIME SETTING" switch to [BG].
- (iv) Push "START/STOP" switch to perform background measurement for 6 seconds.
- (v) Turn the knob at SENSI ADJ position to insert the light scattering plate.
- (vi) Leave the equipment for 1 minute upon "SPAN CHECK" is indicated in the display.
- (vii) Push "START/STOP" switch to perform automatic sensitivity adjustment. This measurement takes 1 minute.
- (viii) Pull out the knob and return it to MEASURE position.
- (ix) Push the "TIME SETTING" switch the time set in the display to 3 hours.
- (x) Lower down the air collection opening cover.
- (xi) Push "START/STOP" switch to start measurement.
- (b) Maintenance and Calibration
  - (i) The 1-hour TSP meter was calibrated at 1-year intervals against a continuous particulate TEOM Monitor, Series 1400ab. Calibration certificates of the Laser Dust Monitors are provided in Appendix E.
  - (ii) 1-hour validation checking of the TSP meter against HVS is carried out yearly at the air quality monitoring locations.

## 2.6 Monitoring Schedule for the Reporting period

2.6.1 The schedule for environmental monitoring in August 2017 is provided in Appendix F.

#### 2.7 Results and Observations

2.7.1 The monitoring results for 1-hour TSP and 24-hour TSP are summarized in Table 2.4 and 2.5 respectively. Detailed impact air quality monitoring results are presented in Appendix G.

Table 2.4	Summary of 1-hour TSP	Monitoring Results in th	ne Reporting Period
	2	5	

Location	Average (μg/m³)	Range (µg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
AM2 (Fanling Government Secondary School)	70.1	62.1 – 76.6	317.8	500

#### Table 2.5 Summary of 24-hour TSP Monitoring Results in the Reporting Period

Location	Average (μg/m³)	Range (µg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
AM2 (Fanling Government Secondary School)	28.4	14.2 – 56.0	200.7	260

- 2.7.2 The major dust source during the monitoring was mainly from nearby traffic emission.
- 2.7.3 All 1-hour and 24-hour TSP results were below the Action and Limit Level at all monitoring locations in the reporting period.
- 2.7.4 The event action plan is annexed in Appendix J.
- 2.7.5 Weather information including wind speed and wind direction is annexed in Appendix H. The information was obtained from the Hong Kong Observatory Tai Po and Tai Mei Tuk Automatic Weather Stations.

## **3 NOISE MONITORING**

#### 3.1 Monitoring Requirements

3.1.1 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. The Action and Limit level of the noise monitoring is provided in Appendix D.

## 3.2 Monitoring Equipment

3.2.1 Noise monitoring was performed using sound level meter at each designated monitoring station. The sound level meters deployed comply with the International Electrotechnical Commission Publications (IEC) 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator was deployed to check the sound level meters at a known sound pressure level. Brand and model of the equipment is given in Table 3.1.

Equipment	Brand and Model
Integrated Sound Level Meter	B&K 2238
Acoustic Calibrator	Rion NC-73

#### 3.3 Monitoring Locations

3.3.1 Monitoring stations M2 and M3 were set up at the proposed locations in accordance with updated EM&A Manual. Figure 1.3a-b shows the locations of the monitoring stations. Table 3.2 describes the details of the monitoring stations.

#### Table 3.2 Locations of Impact Noise Monitoring Stations

Monitoring Station	Location	Location Description					
M2	West Tai Wo	1.2m from the ground floor free-field of the Residential					
М3	Fanling Government Secondary School	1m from the exterior of the roof top façade of the school					

## 3.4 Monitoring Parameters and Frequency

3.4.1 Table 3.3 summarizes the monitoring parameters, frequency and duration of impact noise monitoring.

## Table 3.3 Noise Monitoring Parameters, Frequency and Duration

Parameter	Frequency
30-mins measurement at each monitoring station between 0700 and 1900 on normal weekdays. $L_{eq}$ , $L_{10}$ and $L_{90}$ would be recorded.	At least once per week

## 3.5 Monitoring Methodology

- 3.5.1 Monitoring Procedure
  - (a) Façade measurement was made at monitoring station M3, while free-field measurement was made at monitoring station M2.
  - (b) The sound level meter was set on a tripod at a height of 1.2 m above the ground for free-field measurements at monitoring station M2.
  - (c) The battery condition was checked to ensure the correct functioning of the meter.
  - (d) Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:-
    - (i) frequency weighting: A
    - (ii) time weighting: Fast
    - (iii) time measurement: L<sub>eq(30-minutes)</sub> during non-restricted hours i.e. 07:00 1900 on normal weekdays; L<sub>eq(5-minutes)</sub> during restricted hours i.e. 19:00 – 23:00 and 23:00 – 07:00 of normal weekdays, whole day of Sundays and Public Holidays
  - (e) Prior to and after each noise measurement, the meter was calibrated using the acoustic calibrator for 94dB(A) at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1 dB(A), the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
  - (f) During the monitoring period, the L<sub>eq</sub>, L<sub>10</sub> and L<sub>90</sub> were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
  - (g) Noise measurement was paused during periods of high intrusive noise (e.g. dog barking, helicopter noise) if possible. Observations were recorded when intrusive noise was unavoidable.
  - (h) Noise monitoring was cancelled in the presence of fog, rain, wind with a steady speed exceeding 5m/s, or wind with gusts exceeding 10m/s.
- 3.5.2 Maintenance and Calibration
  - (a) The microphone head of the sound level meter was cleaned with soft cloth at regular intervals.
  - (b) The meter and calibrator were sent to the supplier or HOKLAS laboratory to check and calibrate at yearly intervals.
  - (c) Calibration certificates of the sound level meters and acoustic calibrators are provided in Appendix E.

#### 3.6 Monitoring Schedule for the Reporting period

3.6.1 The schedule for environmental monitoring in August 2017 is provided in Appendix F.

#### 3.7 Monitoring Results

3.7.1 The monitoring results for construction noise are summarized in Table 3.4 and the monitoring data is provided in Appendix I.

Table 3.4	Summary	of Construction	<b>Noise Monitoring</b>	g Results in the R	eporting Period
-----------	---------	-----------------	-------------------------	--------------------	-----------------

Location	Average, dB(A),	Range, dB(A),	Limit Level, dB(A),
	L <sub>eq (30 mins)</sub>	L <sub>eq</sub> (30 mins)	L <sub>eq</sub> (30 mins)
<b>M2*</b> (West Tai Wo)	69.3	66.5 – 70.0	75
<b>M3</b> <sup>#</sup> (Fanling Government Secondary School)	63.8	63.2 – 64.3	65/70

<sup>\*+3</sup>dB(A) Façade correction included

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

- 3.7.2 No Action or Limit Level exceedance of construction noise was recorded in the reporting month. No noise complaints related to 0700 1900 hours on normal weekdays was received and followed by Environmental Team in the reporting month.
- 3.7.3 Major noise sources during noise monitoring in the reporting period were mainly road traffic noise.
- 3.7.4 The event action plan is annexed in Appendix J.

# 4 ENVIRONMENTAL SITE INSPECTION AND AUDIT

#### 4.1 Site Inspection

- 4.1.1 Site Inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Contract. In the reporting period, 5 site inspections were carried out respectively on 2, 8, 17, 22 and 29 August 2017 for the Contract. While no specific observation was recorded, recommendations on remedial actions were given to the Contractor for precautionary purpose.
- 4.1.2 The environmental site inspections summaries are provided in Appendix K.
- 4.1.3 Particular observations during the site inspections are described below:

#### Contract No. HY/2012/06

#### Air Quality

- 4.1.4 Mud trail was observed at SA325. The Contractor should remove the mud trail and ensure vehicles are wheel-washed properly before leaving the site.
- 4.1.5 Improper and colour-faded NRMM label was found at NB50, NB64 and NB42A. The Contractor was advised to provide valid labels to all equipment before operation.
- 4.1.6 Open site area with dusty materials was observed at SA328. The Contractor was advised to water the area regularly to prevent windblown dust emission.
- 4.1.7 Exposed stockpiles of dusty materials without proper cover were observed at SA346, SA340 and W77B. The Contractor should cover the stockpiles with impervious sheeting to prevent windblown dust emission.

#### Noise

4.1.8 No adverse observation was identified in the reporting period.

## Water Quality

- 4.1.9 Debris and general refuse were found in drainage at NB44 and NB42A. The Contractor should remove the materials and ensure the flow of water without obstruction.
- 4.1.10 Surface runoff of muddy water was observed at NB51. The Contractor should remove the muddy water and implement measures to prevent sand from being flushed to public road.

#### Chemical and Waste Management

- 4.1.11 General refuse was found scattered on ground at SA329. The Contractor should remove the general refuse and keep the site clean and tidy.
- 4.1.12 Chemical container without drip tray was observed at SA320 and NB43A. The Contractor should provide a secondary containment for the chemical container to avoid potential leakage.

#### Landscape and Visual Impact

4.1.13 No adverse observation was identified in the reporting period.

#### Miscellaneous

4.1.14 Stagnant water was observed at SA320. The Contractor should remove the stagnant water or apply larvicidal oil to prevent mosquito breeding.

#### Contract No. 02/HY/2015 (Works Order Nos. CB128520-5 and CB128519-0)

#### Air Quality

- 4.1.15 Mud trail was observed. The Contractor should remove the mud trail and ensure vehicles are wheelwashed properly before leaving the site.
- 4.1.16 Colour-faded NRMM label was observed. The Contractor should ensure valid labels are provided to all NRMM before operation.

#### Noise

4.1.17 No adverse observation was identified in the reporting period.

#### Water Quality

4.1.18 Silts were found near the entrance of drainage system. The Contractor should remove the dusty materials and implement sufficient measures to prevent silt from entering the drainage system.

#### Chemical and Waste Management

4.1.19 No adverse observation was identified in the reporting period.

#### Landscape and Visual Impact

4.1.20 No adverse observation was identified in the reporting period.

#### Miscellaneous

4.1.21 No adverse observation was identified in the reporting period.

## 4.2 Advice on the Solid and Liquid Waste Management Status

- 4.2.1 Contract No. HY/2012/06 has registered as chemical waste producers for the Contract. C&D material sorting was carried out on site. Sufficient numbers of receptacles were available for general refuse collection.
- 4.2.2 As advised by the Contractor of Contract No. HY/2012/06, 4,722 m<sup>3</sup> of inert C&D material was generated in the reporting month (2,980 m<sup>3</sup> disposed of as public fill to Tuen Mun 38, 1,742 m<sup>3</sup> of inert C&D materials was reused on site, 0 m<sup>3</sup> of inert C&D materials was reused in other projects and 0 m<sup>3</sup> was broken concrete). For C&D wastes, 100 m<sup>3</sup> of general refuse was disposed of at NENT landfill, 83 kg of paper/cardboard packaging, 0 kg of plastics and 0 kg of metals were collected by recycling Contractors, and 0 kg of chemical wastes was collected by licensed Contractors in the reporting period.
- 4.2.3 The actual amounts of different types of waste generated by the activities of the Project in the reporting period are shown in Table 4.1.

Waste Type	Actual Amount	Disposal/Reuse Locations
Inert C&D materials disposed as public fill	2,980 m <sup>3</sup>	Tuen Mun 38
Broken concrete	0 m <sup>3</sup>	Tuen Mun 38
C&D wastes disposed as general refuse	100 m <sup>3</sup>	NENT Landfill
Paper/cardboard packaging	83 kg	Recycling Facilities
Plastics	0 kg	Recycling Facilities
Metals	0 kg	Recycling Facilities
C&D materials reused on site	1,742 m <sup>3</sup>	Site Area
C&D materials reused in other projects	0 m <sup>3</sup>	Other projects
Chemical wastes	0 kg	Licensed Contractors

## Table 4.1 Summary of Waste Flow Table for Contract No. HY/2012/06

- 4.2.4 As advised by the Contractor of Works Order Nos. CB128520-5 and CB128519-0 under Contract No. 02/HY/2015, 1 m<sup>3</sup> of inert C&D material was generated in the reporting month (0 m<sup>3</sup> disposed of as public fill to Tuen Mun 38, 0 m<sup>3</sup> of inert C&D materials was reused on site, 0 m<sup>3</sup> of inert C&D materials was reused in other projects and 1 m<sup>3</sup> was broken concrete). For C&D wastes, 0 m<sup>3</sup> of general refuse was disposed of at NENT landfill, 1 kg of paper/cardboard packaging, 1 kg of plastics and 0 kg of metals were collected by recycling Contractors in the reporting period.
- 4.2.5 The actual amounts of different types of waste generated by the activities of the Project in the reporting period are shown in Table 4.2.

# Table 4.2 Summary of Waste Flow Table for Contract No. 02/HY/2015 (Works Order Nos.CB128520-5 and CB128519-0)

Waste Type	Actual Amount	Disposal/Reuse Locations
Inert C&D materials disposed as public fill	0 m <sup>3</sup>	Tuen Mun 38
Broken concrete	1 m <sup>3</sup>	Tuen Mun 38
C&D wastes disposed as general refuse	0 m <sup>3</sup>	NENT Landfill
Paper/cardboard packaging	1 kg	Recycling Facilities
Plastics	1 kg	Recycling Facilities

Waste Type	Actual Amount	Disposal/Reuse Locations		
Metals	0 kg	Recycling Facilities		
C&D materials reused on site	0 m <sup>3</sup>	Site Area		
C&D materials reused in other projects	0 m <sup>3</sup>	Other projects		

4.2.6 The Contractors were advised to maintain on-site waste sorting and recording system and maximize reuse / recycle of C&D wastes.

#### 4.3 Environmental Licenses and Permits

4.3.1 The environmental licenses and permits for Stage 2 of the Project and valid in the reporting period is summarized in Table 4.3.

Statutory	License/	License or	Valid	Period	License / Permit	Remarks
Reference	Permit	Permit No.	o. From To		Holder	Remarks
EIAO	Environmental Permit	EP-324/2008/E	26/01/2017	N/A	HyD	
WPCO	Discharge	WT00017159- 2013	18/09/2013	30/09/2018	CSHK	
WFC0	License (Site)	WT00027968- 2017	22/5/2017	31/5/2022	Chiu Hing	
WDO	Chemical Waste Producer Registration	5213-722-C3822- 01	05/09/2013	N/A	CSHK	Chemical waste produced in Contract HY/2012/06
WDO	Billing Account for Disposal of	7017860	N/A	N/A	CSHK	Waste disposal in Contract HY/2012/06
WDO	Construction Waste	7024392	N/A	N/A	Chiu Hing	Waste disposal in Contract 02/HY/2015
	Notification Under Air Pollution	361991	15/07/2013	N/A	Chiu Hing	
APCO	Control (Construction Dust) Regulation	414360	08/03/2017	N/A	Chiu Hing	
		GW-RN0348-17	01/06/2017	16/09/2017	СЅҤҜ	Demolition of Noise Barrier near Tai Hang Zone 2a
NCO	NCO Construction	GW-RN0349-17	23/05/2017	21/11/2017	CSHK	Watermain Diversion Zone 4
	Noise Permit	GW-RN0362-17	07/06/2017	02/12/2017	CSHK	Erection of metal scaffold Zone 2B
		GW-RN0380-17	15/06/2017	14/12/2017	CSHK	Zone 4 Grouting for Piling Works

 Table 4.3
 Summary of Environmental Licensing and Permit Status

Statutory	License/	License or	Valid	Period	License / Permit	Remarks
Reference	Permit	Permit No.	From	То	Holder	Remarks
						near Wo Hop Shek Village
		GW-RN0390-17	14/06/2017	23/09/2017	СЅНК	Zone 4 Installation of Railing on KLHVB
		GW-RN0459-17	17/07/2017	20/10/2017	CSHK	Zone 2 Road Marking Alternation at TWSR near KLHVB
		GW-RN0463-17	23/07/2017	22/10/2017	CSHK	Zone 2 Concreting Works_SB_nea r Tai Hang Footbridge
		GW-RN0469-17	25/07/2017	30/12/2017	СЅНК	Zone 4 Diversion of Watermain at Tai Wo Service Road West near Wo Hop Shek
		GW-RN0486-17	02/08/2017	10/10/2017	CSHK	Zone 2 Erection of temporary bridge at Tai Wo
		GW-RN0495-17	08/08/2017	17/11/2017	СЅНК	Zone 2 Road Marking Alternation at Northbound of Fanling Highway between CH21.3 and CH22.5
		GW-RN0543-17	29/08/2017	26/10/2017	СЅНК	Zone 1 Removal of Fire Hydrant and Road Pavement between CH21.1 and CH21.4

## 4.4 Implementation Status of Environmental Mitigation Measures

4.4.1 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in Appendix C.

## 4.5 Summary of Exceedances of the Environmental Quality Performance Limit

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

## 4.6 Summary of Complaints, Notification of Summons and Successful Prosecutions

- 4.6.1 The Environmental Complaint Handling Procedure is annexed in Figure 4.1.
- 4.6.2 No complaint, notification of summons and successful prosecution was received in the reporting period.
- 4.6.3 Statistics on complaints, notifications of summons and successful prosecutions are summarized in Appendix L.

# 5 FUTURE KEY ISSUES

## 5.1 Construction Programme for the Coming Months

- 5.1.1 The major construction works for Contract No. HY/2012/06 in September 2017 will be:-
  - Site clearance
  - Ground investigation
  - Pipe laying
  - Retaining wall construction
  - Noise Barrier
  - Excavation
  - Backfilling
  - Drainage
  - Foot Bridge demolition
  - Bridge construction
  - Piling
- 5.1.2 The major construction works for Works Order Nos. CB128520-5 and CB128519-0 under Contract No. 02/HY/2015 in September 2017 will be:-
  - Construction of NB74 Bay 1 to Bay 2, Footing A, Bay 8A to Bay 8B and post P03 to P09
  - Backfilling at NB74 Bay 3 to Bay 7

## 5.2 Key Issues for the Coming Month

- 5.2.1 Key issues to be considered in September 2017:-
  - Properly store and label oils and chemicals on site;
  - Chemical, chemical waste and waste management;
  - Collection of construction waste should be carried out regularly;
  - Properly maintain all drainage facilities and wheel washing facilities on site;
  - Exposed slopes should be covered up properly if no temporary work will be conducted;
  - Quieter powered mechanical equipment should be used;
  - Suppress dust generated from excavation activities and haul road traffic; and
  - Tree protective measures for all retained trees should be well maintained.

## 5.3 Monitoring Schedule for the Coming Month

5.3.1 The tentative schedule for environmental monitoring in September 2017 is provided in Appendix F.

# 6 CONCLUSIONS AND RECOMMENDATIONS

#### 6.1 Conclusions

- 6.1.1 The construction phase and EM&A programme of the Contract commenced on 21 November 2013.
- 6.1.2 All 1-hour and 24-hour TSP monitoring results complied with the Action / Limit Levels in the reporting period.
- 6.1.3 No Action or Limit Level exceedance of construction noise was recorded in the reporting month. No noise complaints related to 0700 1900 hours on normal weekdays was received and followed by Environmental Team in the reporting month.
- 6.1.4 5 environmental site inspections were carried out in August 2017. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site audits.
- 6.1.5 No complaint, notification of summons and successful prosecution was received in the reporting period.

#### 6.2 Recommendations

6.2.1 According to the environmental site inspections performed in the reporting period, the following recommendations on remedial actions were provided to the Contractor for precautionary purpose:

#### Contract No. HY/2012/06

#### Air Quality Impact

- The Contractor should remove the mud trail and ensure vehicles are wheel-washed properly before leaving the site.
- The Contractor was advised to provide valid NRMM labels to all equipment before operation.
- The Contractor was advised to water the open site area regularly to prevent windblown dust emission.
- The Contractor should cover the exposed stockpiles with impervious sheeting to prevent windblown dust emission

#### Noise Impact

• No adverse observation was identified in the reporting period.

## Water Quality Impact

- The Contractor should remove the debris and general refuse found in drainage and ensure the flow of water without obstruction.
- The Contractor should remove the muddy water and implement measures to prevent sand from being flushed to public road.

## Chemical and Waste Management

- The Contractor should remove the general refuse and keep the site clean and tidy.
- The Contractor should provide a secondary containment for the chemical container to avoid potential leakage.

## Landscape and Visual Impact.

No adverse observation was identified in the reporting period.

#### Miscellaneous

• The Contractor should remove the stagnant water or apply larvicidal oil to prevent mosquito breeding

## Contract No. 02/HY/2015 (Works Order Nos. CB128520-5 and CB128519-0)

## Air Quality Impact

- The Contractor should remove the mud trail and ensure vehicles are wheel-washed properly before leaving the site.
- The Contractor should ensure valid NRMM labels are provided to all NRMM before operation.

## Noise Impact

• No adverse observation was identified in the reporting period.

#### Water Quality Impact

• The Contractor should remove the dusty materials and implement sufficient measures to prevent silt from entering the drainage system.

#### Chemical and Waste Management

• No adverse observation was identified in the reporting period.

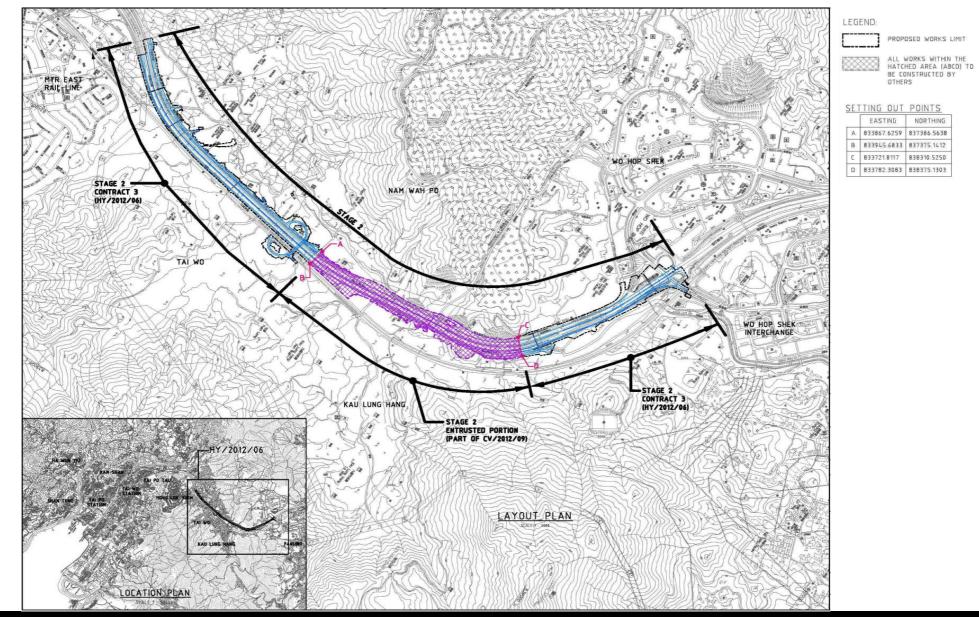
#### Landscape and Visual Impact.

• No adverse observation was identified in the reporting period.

#### Miscellaneous

• No adverse observation was identified in the reporting period.

FIGURES

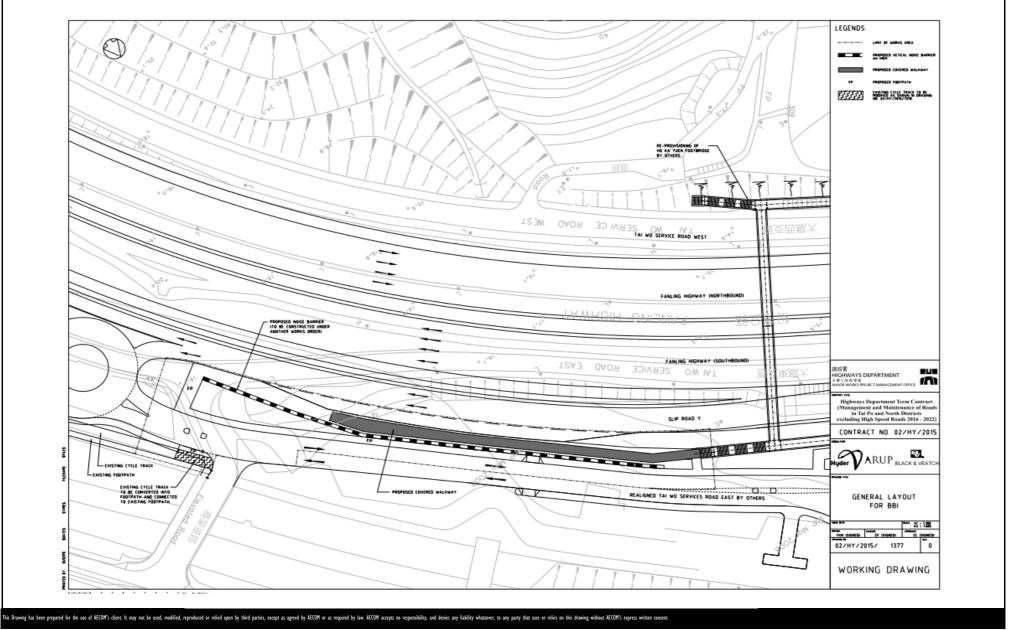


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CONTRACT NO. HY/2012/06 WIDENING OF FANLING HIGHWAY - TAI HANG TO WO HOP SHEK INTERCHANGE



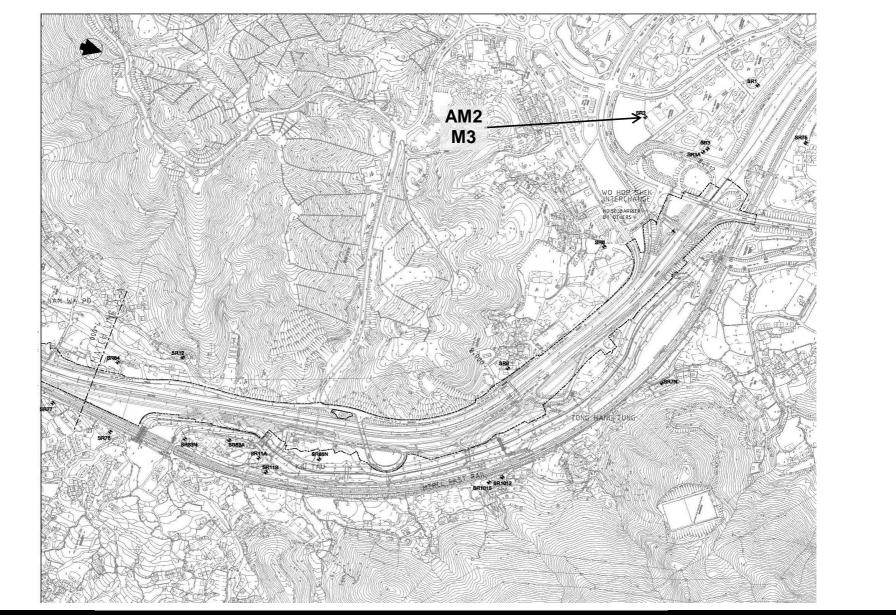
Layout Plan



CONTRACT NO. 02/HY/2015

PROVISION OF BUS-BUS INTERCHANGE ON FANLING HIGHWAY KOWLOON BOUND



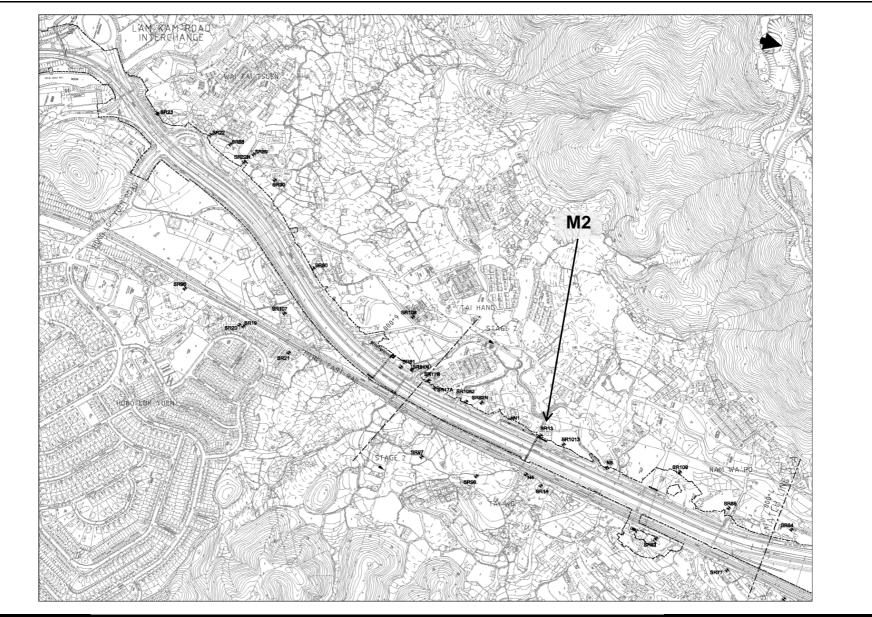


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CONTRACT NO. HY/2012/06 WIDENING OF FANLING HIGHWAY - TAI HANG TO WO HOP SHEK INTERCHANGE



Locations of Monitoring Station

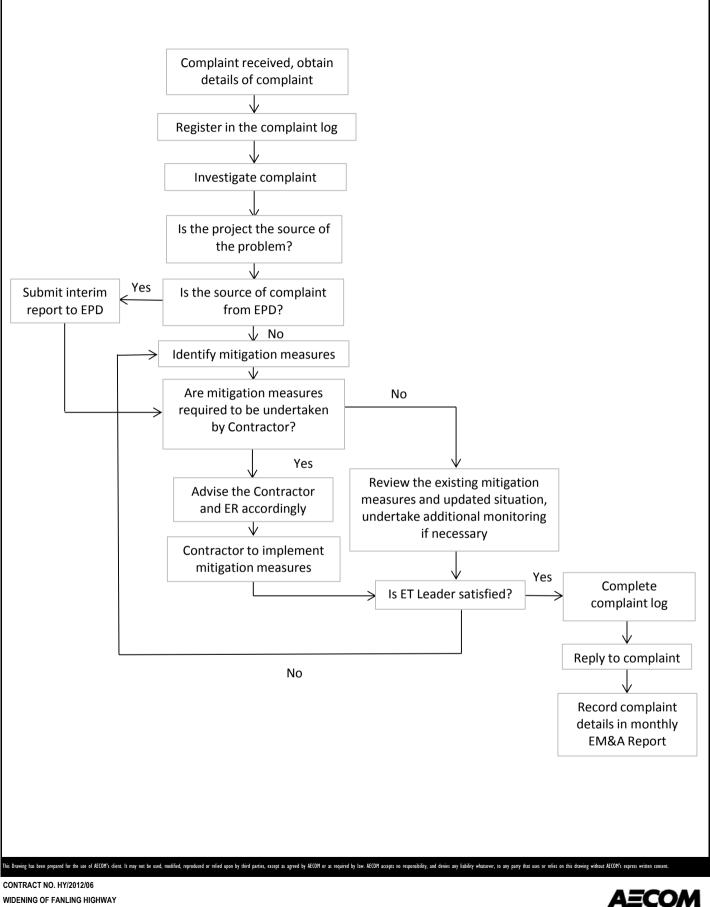


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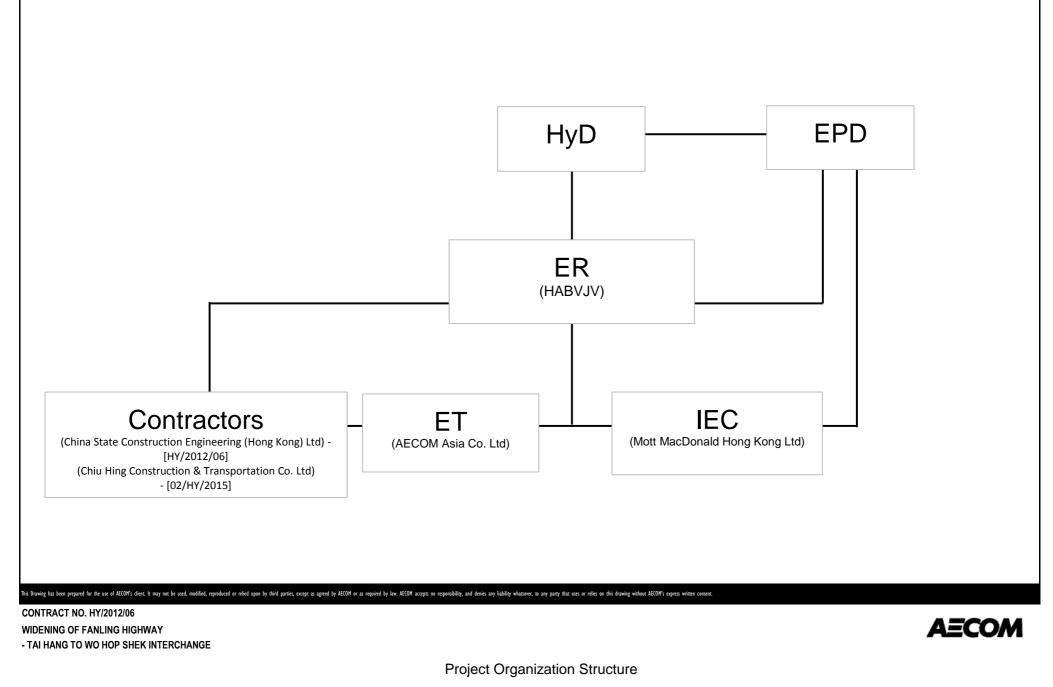


Locations of Monitoring Station



- TAI HANG TO WO HOP SHEK INTERCHANGE

APPENDIX A PROJECT ORGANIZATION STRUCTURE



APPENDIX B CONSTRUCTION PROGRAMMES

	s Update)(20-Aug-17)	·				lonth Rolling		am			Page	1 of 5 (24-Aug
vity ID	Activity Name	Dur. % Complete	Rem. ( Duration D	Original Ouration	Start	Finish	Total Float			2017		
Contract Co	ondition								Aug	Sep	Oct	Nov
General												
Contract Cor												
Contract Co KD13	KD-13 (1309d) -S3: Connection of	0%	0	0		04-Sep-17	0		04-Sep-1	* 🔶 KD-13 (1309d) -S3: C	onnection of realigned Tai	Wo Service Ro
POSSA323A	realigned Tai Wo Service Road Site Area SA323A (360d) (not	0%	0	0	20-Aug-17		1054		<ul> <li>Site Area</li> </ul>	SA323A (360d) (not requi	red)	
POSSA327	required) Site Area SA327 (180d)	0%	0	0	20-Aug-17*		-962		Site Area	SA327 (180d)		
POSSA327A	Site Area SA327A (730d)	0%	0	0	20-Aug-17*		-764		Site Area	SA327A (730d)		
POSSA345	Site Area SA345 (0d)	0%	0	0	20-Aug-17*		-629		Site Area	SA345 (0d)		
	n. 5640 to 5880)											
Noise Barrie	er Along Fanling Highway											
	ce & Demolition of Existing S nd Utility Works	Structure										
	Additional Utilitly cable changeover period (PCCW, HCG)	85.29%	35	238	20-Dec-16 A	23-Sep-17	121					
NB43B (Ch.5	5640-5880)-FH N/B Side											
Noise Barri NB01210	er Works NB43B-1 (0-100m) - Sheet piling &	0%	18	18	19-Jul-17 A	09-Sep-17	102					
NB01220	Excavation NB43B-1 - Footing & Wall Structure	0%	40	40	25-Sep-17	13-Nov-17						
NB01220	NB43B-1 - backfilling	0%	12	12	14-Nov-17	27-Nov-17						
NB01240	NB43B-1 - NB production	0%	45	45	14-Nov-17	28-Dec-17						
NB01260	NB43B-2 (100-200m) - Sheet piling	0%	18	18	23-Oct-17	13-Nov-17						
NB01270	& Excavation NB43B-2 - Footing & Wall Structure	0%	40	40	14-Nov-17	02-Jan-18						
NB01310	NB43B-3 (200-260m) - Sheet piling	95.96%	12	297	03-Jul-17 A							
	& Excavation											
Drainage & F											·	
Ch 5640-588 RDZ11040	<b>80</b> Z1 (Ch5640-5880) : Fanling	0%	20	20	06-Nov-17	28-Nov-17	10					
	Highway N/B - D&R works (lane 4)	0 %	20	20	00-1100-17	20-1100-17	-10					
CONE 2 (Ch General	n. 5880 to 6930)											
DRM Propos	al											
DRM Propo ADVZ20200	<b>Sal</b> Utility cable changeover period (All	87.72%	35	285	20-Oct-16 A	22 Sop 17	0					
ADVZ20200	Utility Companies)(9 months) Construct Temp Road at NB at North		10	99	08-Apr-17 A	· ·						
ADVZ20230	bound (0.5 HS+Lane 1 & 2) Remove Existing Central Barrier at	0%	75	75	01-Sep-17	30-Nov-17						
	FLHY & Temp Road FLHY N/B Lane 4 ready to Start	0%	0	0	28-Sep-17	50 1107 17	-10			•	FLHY N/B Lane 4 ready to	Start
				-	20 000 11		10			-		
	er Along TWSR-West and 6290-6350)-TWSR West Side			lles								
Noise Barri			-	_	01.0 17	05 4 47	407					
	· · ·	0%	5	5	21-Aug-17	25-Aug-17	497					
Bridge Cons New Tai Han												
General												
THBF0370	Steel Staircase & Bridge prefabrication (THFB-TWSR-E side)	84.88%	52	344	20-Jul-16 A	21-Oct-17						04-1
THBF0380	Steel Staircase & Bridge available on site (THFB-TWSR-E side)	0%	0	0	23-Oct-17		179				◆ Stee	el Staircase & I
TWSR-West THBF0620	t/ FL Highway N/B Side Se Finishes Work	ction 56.65%	88	203	27-Feb-17 A	04-Dec-17	233					
Crossing E	anling Highway Section											
THBF0560	THP1 - Pile cap, Pier and Pier Head	30%	63	90	29-Jul-17 A	04-Nov-17	190					
THBF0575	Erect Temp Tower at central divider	0%	18	18	28-Sep-17	20-Oct-17	202				<u>.</u>	
THBF0580	Erect THFB across fanling highway	0%	30	30	06-Nov-17	09-Dec-17	190					
	FL Highway S/B Side Sect			oc :	04 N	00.0	0.0.7					
THBF0470	THAB1 - pile cap & abutment wall	84.38%	35	224	21-Nov-16 A							
THBF0480	THAB1 - Backfilling (~3m)	0%	20	20	30-Sep-17	25-Oct-17						
THBF0570	Erect Stairecase (THFB-TWSR-E side)	0%	30	30		11-Dec-17						
THBF0780	Modified existing column head of existing footbridge	0%	76	76	21-Aug-17	20-Nov-17	125					
Lift at TWS	R-W Side Lift shaft & roof	97.58%	8	330	16-Jul-16 A	29-Aug-17	133					
L1530	Structural Laminated glass wall	0%	30	30	30-Aug-17	04-Oct-17	175		E		<u>.</u>	
L1540	installation RC Platform connect to bridge	0%	30	30	30-Aug-17	04-Oct-17	133		E		; 	-
L1550	Metal cover on RC platform	0%	30	30	06-Oct-17	10-Nov-17	133					
L1555	Glass canopy on ground level	0%	30	30	11-Nov-17	15-Dec-17	223					
L1560	Lift installation (NF115)	0%	70	70	11-Nov-17	03-Feb-18	145					
L1590	E&M and Finishes work	0%	120	120	11-Nov-17	11-Apr-18	133				·	
L1600	CLP Power available (by CLP)	93.19%	31	455	21-Jun-16 A	19-Sep-17	320					
Lift at FLHY											• • •	
L1370	Lift shaft & roof	88.7%	34	301	20-Sep-16 A	-						
L1380	Structural Laminated glass wall installation	0%	30	30	29-Sep-17	06-Nov-17				••••••		
L1390	RC Platform connect to bridge (THSC-2 & TH-P2)	0%	30	30	29-Sep-17	06-Nov-17	121				   	
	el of Effort Project ID:WP Rev 05 (1	1708)			C	Contract	No. H	Y/2012/06			Date	Revision
Remaining Leve					-		-				30-Jun-14 V	VP Rev 1A
Actual Level of E	Layout: 3 Month Rolling	Program	Widonin	a ~t r	anlina U:	abway	Tail	and to Wal	Ion Shak Inte	rchange	28-Aug-15	VP Rov 2
Actual Level of E Actual Work Remaining Wor	rk Bage 1 of 5	Program	Widenin	g of F	-			-	lop Shek Inte	erchange	07-Apr-16	VP Rev 2 VP Rev 3
Actual Level of E Actual Work	rk Bage 1 of 5	Program	Widenin	g of F	-			ang to Wo H gram(20-Au	-	erchange	07-Apr-16 V 08-Nov-16 V	

y ID	Activity Name	Dur. %		Original	Start	Finish	Total		0047		
1.4.(22		Complete	Duration I		07.1	44.5	Float	Aug	2017 Sep	Oct	Nov
L1400	Roof cover for RC Platform	0%	30	30	07-Nov-17	11-Dec-17				       	
L1450	CLP Power available (by CLP)	80.9%	93	487	21-Jun-16 A	20-Nov-17	260				
	f Existing Tai Hang Footbridg	e									
	anling Highway Section Erect Temp platform for bridge	0%	60	60	06-Nov-17	17-Jan-18	199			1 	
lew Tai Wo I	demolition									1 1 1 1	     
General	Footbridge									1 1 1	
TWFB1090	Steel Bridge prefabrication (TWFB)	88.92%	37	334	15-Aug-16 A	03-Oct-17	330				
TWFB1100	Steel Bridge available on site	0%	0	0	04-Oct-17		330			<ul> <li>Steel Bridge available</li> </ul>	on site (TV
TWSR-West	(TWFB) t/ FL Highway N/B Side See	ction								1 1 1 1	
TWFB1390	Finishes Work	71.25%	23	80	20-May-17 A	15-Sep-17	465				
TWFB1400	Bridge Structure complete (TWFB-TWSR-W side)	0%	0	0		15-Sep-17	465		15-Sep-17 ♦ Bridge Stru	ture complete (TWFB-TWS	R-W side)
Lift at TWS	R-W Side										
L1670	Lift shaft & roof	83.29%	59	353	21-Jun-16 A	31-Oct-17	249			1 1 1	3
L1680	Structural Laminated glass wall installation	0%	30	30	01-Nov-17	05-Dec-17	292				
L1690	RC Link slab connect to bridge	0%	30	30	01-Nov-17	05-Dec-17	249				
L1730	Lift submission & ordering period	83.42%	61	368	02-Jul-16 A	02-Nov-17	320			· · · · · · · · · · · · · · · · · · ·	 
L1780	CLP Power available (by CLP)	75.1%	121	486	20-Aug-16 A	18-Dec-17	435			· · · · · · · · · · · · · · · · · · ·	
emporary Ta	ai Wo Footbridge					I					
Constructio	on Works										
TWFB-T1070	TWFB across TWSR-W available	0%	0	0		11-Sep-17	-7	11	-Sep-17 🔶 TWFB across T	WSR-W available	
TWFB-T1074	Erect Temp tower at TWSR-W	0%	15	15	24-Aug-17*	09-Sep-17	-10				
TWFB-T1076	Connect Temp Bridge to new TW bridge at TWSR-W	0%	3	3	12-Sep-17	14-Sep-17	-10		•		
TWFB-T1078	Temp footing at NB60 bay 1	0%	4	2	16-Aug-17 A	24-Aug-17	0			<u>.</u>	
TWFB-T1079	Erect Temp tower at NB 60 bay 1	0%	4	4	25-Aug-17	29-Aug-17	0		+		
TWFB-T1080	Erect Temp bridge from TWP1 to P2	0%	1	1	11-Sep-17	11-Sep-17	-10		l		
TWFB-T1090	to Existing Bridge Diverse Pedestrain to TWFB ramp	0%	1	1	15-Sep-17	15-Sep-17					
TWFB-T1100	Demolish Temp Ramp & laying temp	0%	10	10	16-Sep-17	27-Sep-17					
TWFB-T1190	road for TTA TTA for temp column at new FLHY	0%	0	0	28-Sep-17	2. 000	-10			TTA for temp column at new	FL HV cent
	central divider				· ·	07.0.1.47				TAIOI temp column at new	
TWFB-T1195	G54 footing at central divider	0%	24	24	28-Sep-17	27-Oct-17	38			<b>v</b>	
TWFB-T1200	Erect temp column at new FLHY central divider	0%	24	24	30-Oct-17	25-Nov-17	38				]
TWFB-T1205	Erect Temp Column & link bridge at FLHY N/B (besides TW-P2 & NB60	0%	75	75	21-Aug-17	18-Nov-17	44				
TWFB-T1208	Erect Temp Column & link bridge to existing bridge at FLHY S/B	0%	60	60	18-Oct-17	29-Dec-17	11				
oise Barrie	er Along Fanling Highway	/ S/B								1 1 1 1 1	
	5880-5935)-FH S/B Side										
Noise Barri NB02200	er Works NB46A - Sheet piling & Excavation	65%	21	60	03-Jun-17 A	13-900 47	834				
						· · · · ·					<u>.</u>
NB02210	NB46A - Footing & Wall Structure	31.03%	60	87	17-Jun-17 A					· · · · · · · · · · · · · · · · · · ·	
NB02220	NB46A- backfilling	0%	50	50	02-Nov-17	02-Jan-18	387				
NB02230	NB46A - NB production	0%	45	45	02-Nov-17	16-Dec-17	495				
	35-6055)-FH S/B Side									1 1 1 1	
Noise Barri NB02300	er Works NB51 ID1-3 (0-25m) - NB production	81.33%	14	75	20-May-17 A	02-Sep-17	600				
NB02310	NB51 ID1-3 (0-25m) - NB post &	0%	5	5		08-Sep-17					
	panel installation	87.87%	45	371	13-Mar-17 A						
NB02330	NB51(25-118m) - Footing & Wall Structure			371	13-Mai-17 A	14-Jun-16	206				
	55-6125) -FH S/B Side (MTF	RC I&P Are	ea)								     
Noise Barri NB02380	er Works NB52 - Footing & Wall Structure	88.43%	25	216	18-Nov-16 A	18-Sep-17	465		.	 	
NB02390	NB52- backfilling	50.98%	50	102	18-May-17 A	· · ·					
NB02400	NB52 - NB production	58.33%	45	102	18-May-17 A						
NB02400	•	94.44%	45	90	16-Jun-17 A						
	NB52 - NB post & panel installation			90	10-Jun-17 A	03-1100-17	440				
IB53 (Ch.61 Noise Barri	25-6300) -FH S/B Side (MTF	KC I&P Are	a)								1
NOISE BAFFI NB02430	Precautionary Measure installation	0%	26	26	21-Aug-17	19-Sep-17	303				
NB02440	NB53 (0-100m) - Sheet piling &	0%	26	26	20-Sep-17	21-Oct-17	350				
NB02450	Excavation NB53 (0-100m) - Footing & Wall	0%	60	60	23-Oct-17	04-Jan-18					
NB02490	Structure								<b>.</b>		
	NB53 ID2-3 (100-125m), 18nos Predrilling	0%	10	10	04-Oct-17	16-Oct-17			<b>.</b>		
NB02500	NB53 ID2-3 (100-125m) 18nos Piling- 1 rigs	0%	27	27	17-Oct-17	17-Nov-17			<b>.</b>		
NB02510	NB53 ID2-3 (100-125m) - Sheet piling & Excavation	0%	21	21	18-Nov-17	12-Dec-17					
NB02590	NB53 (125-180m) - NB production	96.82%	14	440	20-May-16 A	· ·					
NB02600	NB53 (125-180m) - NB post & panel installation	0%	5	5	04-Sep-17	08-Sep-17	485				
	00-6360)-FH S/B Side (MTR	C I&P Area	a)								     
Noise Barri		07.000	<u></u>	000	07 Nov 444	16 80= 1=	200		<u> </u>		
NB02640	NB55 - Footing & Wall Structure	97.03%	24	809	07-Nov-14 A	· · ·					
NB02650	NB55- backfilling	0%	50	50	18-Sep-17	17-Nov-17					
NB02660	NB55 - NB production	93.24%	40	592	15-Jan-16 A	28-Sep-17	574				
NB02670	NB55 - NB post & panel installation	0%	5	5	18-Nov-17	23-Nov-17	423		T		
	60-6400)-FH S/B Side (MTR	C I&P Area	a)		·						
Noise Barri	er Works			500	20 51 15 1	00.0	0000		<u> </u>		
NB02730	NB56 - NB production	97.36%	14	530	20-Feb-16 A	· ·			<b></b> T		
NB02740	NB56 - NB post & panel installation	0%	5	5	04-Sep-17	08-Sep-17	485				

ity ID	Activity Name	Dur. %		Original	Start		otal					
		Complete	Duration	Duration			oat	Aug	Se	2017 ep	Oct	Nov
NB02770	NB61 (0-50m) - Sheet piling & Excavation	0%	18	18	21-Aug-17	09-Sep-17 1	11					
NB02780	NB61 (0-50m) - Footing & Wall	0%	30	30	11-Sep-17	17-Oct-17 1	11	J       			1 1	
NB02790	Structure NB61 (0-50m)- backfilling	0%	50	50	18-Oct-17	15-Dec-17 4	04					
NB02800	NB61 (0-50m) - NB production	0%	45	45	18-Oct-17	01-Dec-17 5	10	 				
NB02850	NB61 (50-160m) - NB production	0%	45	45	20-Aug-17	03-Oct-17 5	69					
					-							
NB02860	NB61 (50-160m) - NB post & panel installation	0%	5	5	04-Oct-17	10-Oct-17 4	60					
	6560-6745)-FH S/B Side (MT	RC I&P Are	ea)					     			1 1 1 1	
Noise Barri NB02920	NB61A (0-50m) - NB production	91.98%	45	561	20-Feb-16 A	02 Oct 17 E	69					
			45					, , , , ,				
NB02930	NB61A (0-50m) - NB post & panel installation	0%	5	5	04-Oct-17	10-Oct-17 4	60	1 1 1 1				
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	92.17%	57	728	01-Apr-15 A	27-Oct-17 4	05					
NB02980	NB61A ID2-3 (50-75m)- backfilling	0%	20	20	30-Oct-17	21-Nov-17 4	20	,				
NB02990	NB61A ID2-3 (50-75m) - NB	0%	45	45	28-Oct-17	11-Dec-17 5	00					
NB03040	production NB61A (75-190m) - NB production	97.18%	15	531	20-Feb-16 A	03-Sep-17 5	99				       	
						· ·					· · · · · · · · · · · · · · · · · · · ·	
NB03050	NB61A (75-190m) - NB post & panel installation	0%	5	5	04-Sep-17	08-Sep-17 4	85					
Box Culvert								1 1 1 1 1	_		     	
VO58 Exter ID30140	Nision of ID3 Wing Wall Construction	0%	75	75	03-Oct-17*	03-Jan-18 3	32	, , , ,				
		0%	10	10	00-00-17	30-3an-10 3	~~	   	_			
	hway Construction											
Drainage & F <mark>Ch 5880-67</mark>	Road Works										1 1 1	
Ch 5880-67 RDZ41190	Z2 (CH5880-6740) : Fanling	0%	0	0	28-Sep-17	-	10			•	22 (CH5880-6740) : Fan	ling Highway F
RDZ41230	Highway Road works Start Z2 (CH5880-6740) : Fanling	0%	30	30		04-Nov-17 -′	10	, , , ,				
	Highway N/B - D&R works (lane 4)	0 /0	50	50				1 1 1 1				
ther Work		Structure							_			
Site Clearan Contract C	ce & Demolition of Existing S	Structure							_		- 	
	New MCLT - finishes works	82.61%	72	414	20-May-16 A	15-Nov-17 4	30	· ·	····		· • •	
MCLT1100	New MCLT completion	0%	0	0		15-Nov-17 4						15-Nov-17
		070	U	v								
CSS Works <mark>G54</mark>	3							1 1 1 1			1 1 1 1	
G54 TCSS1500	Slow lane footing - G54 (NB61)	0%	0	0		17-Oct-17 4	24	, ,			17-Oct-17 ♦ Slow la	ne footing - G5
TCSS2080	Sheeting & excavation (4m)	0%	6	6	28-Sep-17	06-Oct-17 3	8	, , ,				
			-					; ; ;				
TCSS2090	Fast lane footing - G54 (CH6470, S/B)	0%	18	18	07-Oct-17	27-Oct-17 3	38					
outh Buff	er Zone 1 (SBZ1) (with	in Zone	2)(Ch 6	740 f	0 6930)	JJ		1 1 1			1 1 1	
	er Along TWSR-West and							     			     	
	4A (Ch.6860-6920)-TWSR V			nico				 			1 1 1	
Noise Barri								1 1 1 1				
NB003060	NB64A -Footing & Wall Structure - 1 bays	0%	35	35	19-Aug-17 A	29-Sep-17 4	27					
NB003350	Bus Shelter footing & shelter near	0%	40									
ridge Con	NB64 - VO86		40	40	30-Sep-17	18-Nov-17 4	27			[	T	
rinne t.on	struction		40	40	30-Sep-17	18-Nov-17 4	27			[		
	struction ang Vehicular Bridge		40	40	30-Sep-17	18-Nov-17 4	27			[		
Kau Lung Ha KLH Bridge	ang Vehicular Bridge - West Ramp		40	40	30-Sep-17	18-Nov-17 4	27					
Kau Lung Ha KLH Bridge	ang Vehicular Bridge	0%	21	40 21	30-Sep-17 21-Aug-17	18-Nov-17 4. 13-Sep-17 4.						
Kau Lung Ha KLH Bridge KLH.1290	ang Vehicular Bridge - West Ramp West Ramp - Planting Installation of Traffic Signal Poles at	0%			21-Aug-17	13-Sep-17 4						
Kau Lung Ha KLH Bridge KLH.1290 Z2.KLH.1032	Ang Vehicular Bridge - West Ramp West Ramp - Planting Installation of Traffic Signal Poles at TWSR-W N/B (KLHVB)		21	21	21-Aug-17	13-Sep-17 4	81					
Kau Lung Ha KLH Bridge KLH.1290 Z2.KLH.1032	Ang Vehicular Bridge - West Ramp West Ramp - Planting Installation of Traffic Signal Poles at TWSR-W N/B (KLHVB)		21	21	21-Aug-17	13-Sep-17 4	81 48					
Kau Lung Ha KLH Bridge KLH.1290 Z2.KLH.1032 KLH Bridge KLH.3430	Ang Vehicular Bridge - West Ramp West Ramp - Planting Installation of Traffic Signal Poles at TWSR-W N/B (KLHVB) - Deck 1 Deck 1 - Planting	0%	21 21	21 21	21-Aug-17 28-Sep-17	13-Sep-17 4 24-Oct-17 4	81 48					
Kau Lung Ha KLH Bridge KLH.1290 Z2.KLH.1032 KLH Bridge KLH.3430 KLH Bridge	Ang Vehicular Bridge - West Ramp West Ramp - Planting Installation of Traffic Signal Poles at TWSR-W N/B (KLHVB) - Deck 1 Deck 1 - Planting	0%	21 21	21 21	21-Aug-17 28-Sep-17	13-Sep-17 4 24-Oct-17 4	81 81 81 81					
Kau Lung Ha KLH Bridge KLH.1290 Z2.KLH.1032 KLH Bridge KLH.3430 KLH Bridge KLH.3500	ang Vehicular Bridge	0%	21 21 21	21 21 21	21-Aug-17 28-Sep-17 21-Aug-17	13-Sep-17 4 24-Oct-17 4 13-Sep-17 4	81 81 81 81					
Kau Lung Ha KLH Bridge KLH.1290 Z2.KLH.1032 KLH Bridge KLH.3430 KLH Bridge KLH.3500	Ang Vehicular Bridge - West Ramp West Ramp - Planting Installation of Traffic Signal Poles at TWSR-W N/B (KLHVB) - Deck 1 Deck 1 - Planting - Deck 3	0%	21 21 21	21 21 21	21-Aug-17 28-Sep-17 21-Aug-17	13-Sep-17 4 24-Oct-17 4 13-Sep-17 4	81 81 81 81 81 81 13					
Kau Lung Ha KLH Bridge KLH.1290 Z2.KLH.1032 KLH Bridge KLH.3430 KLH Bridge KLH.3500 KLH Bridge KLH.3590	ang Vehicular Bridge - West Ramp West Ramp - Planting Installation of Traffic Signal Poles at TWSR-W N/B (KLHVB) - Deck 1 Deck 1 - Planting - Deck 3 Deck 3 - Planting - East Ramp East Ramp - Planting	0%	21 21 21 21 21	21 21 21 21 21	21-Aug-17 28-Sep-17 21-Aug-17 21-Aug-17	13-Sep-17 4 24-Oct-17 4 13-Sep-17 4 13-Sep-17 5	81 81 81 81 81 81 13					
Kau Lung Ha KLH Bridge KLH.1290 Z2.KLH.1032 KLH Bridge KLH.3430 KLH Bridge KLH.3590 KLH Bridge KLH Bridge	ang Vehicular Bridge	0%	21 21 21 21 21	21 21 21 21 21 34	21-Aug-17 28-Sep-17 21-Aug-17 21-Aug-17 21-Aug-17	13-Sep-17 4 24-Oct-17 4 13-Sep-17 4 13-Sep-17 5	81 81 48 81 13 21					
Kau Lung Ha KLH Bridge KLH.1290 Z2.KLH.1032 KLH Bridge KLH Bridge KLH Bridge KLH Bridge KLH Bridge Z2.KLH.3610	Ang Vehicular Bridge	0% 0% 0%	21 21 21 21 21 21 34	21 21 21 21 21 34	21-Aug-17 28-Sep-17 21-Aug-17 21-Aug-17 21-Aug-17	13-Sep-17 4 24-Oct-17 4 13-Sep-17 4 13-Sep-17 5 28-Sep-17 8	81 81 48 81 13 21					
Kau Lung Ha KLH Bridge KLH.1290 Z2.KLH.1032 KLH Bridge KLH Bridge KLH Bridge KLH Bridge Z2.KLH.3610 KLH Bridge	ang Vehicular Bridge - West Ramp West Ramp - Planting Installation of Traffic Signal Poles at TWSR-W N/B (KLHVB) - Deck 1 Deck 1 - Planting - Deck 3 Deck 3 - Planting - East Ramp East Ramp East Ramp - Planting - Ramp R1 Ramp R1 - Steel roof - Ramp R2	0% 0% 0%	21 21 21 21 21 21 34	21 21 21 21 21 34	21-Aug-17 28-Sep-17 21-Aug-17 21-Aug-17 21-Aug-17 19-Jan-17 A	13-Sep-17 4 24-Oct-17 4 13-Sep-17 4 13-Sep-17 5 28-Sep-17 8 01-Sep-17 4	81 48 81 13 21 91					
Kau Lung Ha KLH Bridge KLH.1290 Z2.KLH.1032 KLH Bridge KLH.3430 KLH Bridge KLH.3590 KLH Bridge Z2.KLH.3610 KLH Bridge Z2.KLH.3610	Ang Vehicular Bridge	0% 0% 0% 92.76%	21 21 21 21 21 34	21 21 21 21 21 34 152	21-Aug-17 28-Sep-17 21-Aug-17 21-Aug-17 21-Aug-17 19-Jan-17 A	13-Sep-17 4 24-Oct-17 4 13-Sep-17 4 13-Sep-17 5 28-Sep-17 8	81 48 81 13 21 91					
Kau Lung Ha KLH Bridge KLH.1290 Z2.KLH.1032 KLH Bridge KLH.3430 KLH Bridge KLH.3590 KLH Bridge Z2.KLH.3610 KLH Bridge Z2.KLH.1550 Bridge Roa	ang Vehicular Bridge - West Ramp West Ramp - Planting Installation of Traffic Signal Poles at TWSR-W N/B (KLHVB) - Deck 1 Deck 1 - Planting - Deck 3 Deck 3 - Planting - East Ramp East Ramp East Ramp R1 Ramp R1 - Steel roof - Ramp R2 Ramp R2 - Steel roof M Work	0% 0% 0% 92.76% 86.44%	21 21 21 21 34 11	21 21 21 21 21 34 152 118	21-Aug-17 28-Sep-17 21-Aug-17 21-Aug-17 21-Aug-17 19-Jan-17 A 14-Mar-17 A	13-Sep-17 4 24-Oct-17 4 13-Sep-17 4 13-Sep-17 5 28-Sep-17 8 01-Sep-17 4 01-Sep-17 4	81 48 81 48 81 13 21 91 86					
Kau Lung Ha KLH Bridge KLH.1290 Z2.KLH.1032 KLH Bridge KLH Bridge KLH Bridge KLH Bridge Z2.KLH.3610 KLH Bridge Z2.KLH.1550 Bridge Roa Z2.KLH.2040	ang Vehicular Bridge - West Ramp West Ramp - Planting Installation of Traffic Signal Poles at TWSR-W N/B (KLHVB) - Deck 1 Deck 1 - Planting - Deck 3 Deck 3 - Planting - East Ramp East Ramp - Planting - Ramp R1 Ramp R1 - Steel roof - Ramp R2 Ramp R2 - Steel roof - Mork Landscape work of KLHVB	0% 0% 0% 92.76%	21 21 21 21 21 34	21 21 21 21 21 34 152	21-Aug-17 28-Sep-17 21-Aug-17 21-Aug-17 21-Aug-17 19-Jan-17 A 14-Mar-17 A	13-Sep-17 4 24-Oct-17 4 13-Sep-17 4 13-Sep-17 5 28-Sep-17 8 01-Sep-17 4	81 48 81 48 81 13 21 91 86					
Kau Lung Ha KLH Bridge KLH.1290 Z2.KLH.1032 KLH Bridge KLH Bridge KLH Bridge KLH Bridge Z2.KLH.3610 KLH Bridge Z2.KLH.3610 KLH Bridge Z2.KLH.2040 Bridge Roa Z2.KLH.2040	ang Vehicular Bridge	0% 0% 0% 92.76% 86.44%	21 21 21 21 21 34 11 16 120	21 21 21 21 34 152 118 120	21-Aug-17 28-Sep-17 21-Aug-17 21-Aug-17 21-Aug-17 19-Jan-17 A 14-Mar-17 A 21-Aug-17	13-Sep-17 4 24-Oct-17 4 13-Sep-17 4 13-Sep-17 5 28-Sep-17 8 01-Sep-17 4 07-Sep-17 4	81         81         48         81         13         21         91         86         82         82					
Kau Lung Ha KLH Bridge KLH.1290 Z2.KLH.1032 KLH Bridge KLH.3430 KLH Bridge KLH.3590 KLH Bridge Z2.KLH.3610 KLH Bridge Z2.KLH.1550 Bridge Roa Z2.KLH.2040 Lift at TWS L01060	ang Vehicular Bridge - West Ramp West Ramp - Planting Installation of Traffic Signal Poles at TWSR-W N/B (KLHVB) - Deck 1 Deck 1 - Planting - Deck 3 Deck 3 - Planting - East Ramp East Ramp - Planting - Ramp R1 Ramp R1 - Steel roof - Ramp R2 Ramp R2 - Steel roof - Ramp R2 Ramp R2 - Steel roof - Ramp R2 Ramp R4 - Steel roof - Ramp R2 Ramp R4 - Steel roof - Ramp R2 - Steel roof - Ramp R2 - Steel roof - Ramp R2 - Steel roof - Ramp R2 - Steel roof - Ramp R4 - Steel roof - S	0% 0% 0% 92.76% 86.44% 0%	21 21 21 21 21 34 11 16 120 52	21 21 21 21 34 152 118 120 52	21-Aug-17 28-Sep-17 21-Aug-17 21-Aug-17 21-Aug-17 19-Jan-17 A 14-Mar-17 A 21-Aug-17	13-Sep-17 4 24-Oct-17 4 13-Sep-17 4 13-Sep-17 5 28-Sep-17 8 01-Sep-17 4 07-Sep-17 4 13-Jan-18 3 21-Oct-17 3	81         81         48         81         13         21         91         886         82         31					
Kau Lung Ha KLH Bridge KLH.1290 Z2.KLH.1032 KLH Bridge KLH.3430 KLH Bridge KLH.3590 KLH Bridge Z2.KLH.3610 KLH Bridge Z2.KLH.1550 Bridge Roa Z2.KLH.2040 Lift at TWS L01060	ang Vehicular Bridge	0% 0% 0% 92.76% 86.44%	21 21 21 21 21 34 11 16 120	21 21 21 21 34 152 118 120	21-Aug-17 28-Sep-17 21-Aug-17 21-Aug-17 21-Aug-17 19-Jan-17 A 14-Mar-17 A 21-Aug-17	13-Sep-17 4 24-Oct-17 4 13-Sep-17 4 13-Sep-17 5 28-Sep-17 8 01-Sep-17 4 07-Sep-17 4	81         81         48         81         13         21         91         886         82         31					
Kau Lung Ha KLH Bridge KLH.1290 ZZ.KLH.1032 KLH Bridge KLH.3430 KLH Bridge KLH.3500 KLH Bridge ZZ.KLH.3610 KLH Bridge ZZ.KLH.3610 KLH Bridge ZZ.KLH.1550 Bridge Roa ZZ.KLH.2040 Lift at TWS L01060 L01070	ang Vehicular Bridge	0% 0% 0% 92.76% 86.44% 0%	21 21 21 21 21 34 11 16 120 52	21 21 21 21 34 152 118 120 52	21-Aug-17 28-Sep-17 21-Aug-17 21-Aug-17 21-Aug-17 19-Jan-17 A 14-Mar-17 A 21-Aug-17	13-Sep-17 4 24-Oct-17 4 13-Sep-17 4 13-Sep-17 5 28-Sep-17 8 01-Sep-17 4 07-Sep-17 4 13-Jan-18 3 21-Oct-17 3	81         81         48         81         13         21         91         86         82         31         31					
Kau Lung Ha KLH Bridge KLH.1290 Z2.KLH.1032 KLH Bridge KLH.3430 KLH Bridge KLH.3590 KLH Bridge Z2.KLH.3610 KLH Bridge Z2.KLH.3610 KLH Bridge Z2.KLH.1550 Bridge Roa Z2.KLH.1550 Bridge Roa Z2.KLH.1550 Bridge Roa Lift at TWS L01060 L01070 L01080	ang Vehicular Bridge	0% 0% 0% 92.76% 886.44% 0% 0%	21 21 21 21 21 34 11 16 120 52 30	21 21 21 21 34 152 118 120 52 30	21-Aug-17 28-Sep-17 21-Aug-17 21-Aug-17 21-Aug-17 21-Aug-17 19-Jan-17 A 14-Mar-17 A 21-Aug-17 03-Aug-17 A 23-Oct-17 23-Oct-17	13-Sep-17       4         24-Oct-17       4         13-Sep-17       4         13-Sep-17       4         13-Sep-17       5         28-Sep-17       8         01-Sep-17       4         13-Jan-18       3         21-Oct-17       3         27-Nov-17       3	81         81         48         81         48         81         13         21         91         86         82         31         31         31					
Kau Lung Ha KLH Bridge KLH.1290 ZZ.KLH.1032 KLH Bridge KLH.3430 KLH Bridge KLH.3500 KLH Bridge ZZ.KLH.3610 KLH Bridge ZZ.KLH.3610 KLH Bridge ZZ.KLH.3610 KLH Bridge ZZ.KLH.3610 L01060 L01070 L01080 L01094	ang Vehicular Bridge	0% 0% 0% 92.76% 92.76% 86.44% 0% 0%	21 21 21 21 34 11 16 120 52 30 30 80	21 21 21 21 34 152 118 120 52 30 30	21-Aug-17 28-Sep-17 21-Aug-17 21-Aug-17 21-Aug-17 21-Aug-17 19-Jan-17 A 14-Mar-17 A 21-Aug-17 03-Aug-17 A 23-Oct-17 23-Oct-17 23-Oct-17 01-Aug-16 A	13-Sep-17       4         24-Oct-17       4         13-Sep-17       4         13-Sep-17       4         13-Sep-17       4         13-Sep-17       5         28-Sep-17       8         01-Sep-17       4         13-Jan-18       3         21-Oct-17       3         27-Nov-17       3         24-Nov-17       3	81         81         48         81         48         81         13         21         91         91         86         82         31         31         31         33					
Kau Lung Ha KLH Bridge KLH.1290 Z2.KLH.1032 KLH Bridge KLH Bridge KLH Bridge KLH Bridge Z2.KLH.3610 KLH Bridge Z2.KLH.3610 KLH Bridge Z2.KLH.1550 Bridge Roa Z2.KLH.2040 L01060 L01070 L01080 L01094 L01140	ang Vehicular Bridge	0% 0% 0% 0% 92.76% 886.44% 0% 0% 0% 0% 0%	21 21 21 21 21 34 11 16 120 52 30 30	21 21 21 21 34 152 118 120 52 30 30 389	21-Aug-17 28-Sep-17 21-Aug-17 21-Aug-17 21-Aug-17 21-Aug-17 19-Jan-17 A 14-Mar-17 A 21-Aug-17 03-Aug-17 A 23-Oct-17 23-Oct-17 23-Oct-17 01-Aug-16 A	13-Sep-17       4         24-Oct-17       4         13-Sep-17       4         13-Sep-17       4         13-Sep-17       5         28-Sep-17       8         01-Sep-17       4         13-Jan-18       3         21-Oct-17       3         27-Nov-17       3	81         81         48         81         48         81         13         21         91         91         86         82         31         31         31         33					
Kau Lung Ha KLH Bridge KLH.1290 Z2.KLH.1032 KLH Bridge KLH Bridge KLH Bridge KLH Bridge KLH Bridge Z2.KLH.3610 KLH Bridge Z2.KLH.3610 KLH Bridge Z2.KLH.3610 KLH Bridge Z2.KLH.2040 L01070 L01070 L01070 L01080 L01094 L01140 L01140	ang Vehicular Bridge	0% 0% 0% 92.76% 92.76% 0% 0% 0% 79.43% 93.47%	21 21 21 21 34 11 16 120 52 30 30 30 80 33	21 21 21 21 34 152 118 120 52 30 30 389 505	21-Aug-17 28-Sep-17 21-Aug-17 21-Aug-17 21-Aug-17 21-Aug-17 19-Jan-17 A 14-Mar-17 A 21-Aug-17 3-Aug-17 23-Oct-17 23-Oct-17 01-Aug-16 A 04-Apr-16 A	13-Sep-17       4         24-Oct-17       4         13-Sep-17       4         13-Sep-17       5         28-Sep-17       8         01-Sep-17       4         07-Sep-17       4         13-Jan-18       3         21-Oct-17       3         27-Nov-17       3         24-Nov-17       3         21-Sep-17       5	81         81         48         81         48         13         13         21         91         91         86         82         31         31         31         33         61					
Kau Lung Ha KLH Bridge KLH Bridge KLH Bridge KLH Bridge KLH Bridge KLH Bridge KLH Bridge KLH Bridge Z2.KLH.3610 KLH Bridge Z2.KLH.3610 KLH Bridge Z2.KLH.3610 KLH Bridge Z2.KLH.1550 Bridge Roa Z2.KLH.1550 Bridge Roa L01060 L01070 L01080 L01094 L01140 L01140	ang Vehicular Bridge	0%           0%           0%           0%           0%           0%           0%           0%           0%           92.76%           0%           92.76%           0%	21 21 21 21 21 34 11 16 120 52 30 30 30 30 33	21 21 21 34 152 118 120 52 30 300 389 505	21-Aug-17 28-Sep-17 21-Aug-17 21-Aug-17 21-Aug-17 21-Aug-17 21-Aug-17 19-Jan-17 A 21-Aug-17 32-Oct-17 23-Oct-17 23-Oct-17 01-Aug-16 A 04-Apr-16 A	13-Sep-17       4         24-Oct-17       4         13-Sep-17       4         13-Sep-17       4         13-Sep-17       5         28-Sep-17       8         01-Sep-17       4         01-Sep-17       4         13-Jan-18       3         21-Oct-17       3         27-Nov-17       3         21-Sep-17       5         03-Sep-17       3         21-Oct-17       3         21-Sep-17       5         06-Oct-17       3	81         81         48         81         48         81         13         21         91         91         91         31         31         31         33         61         73					
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Kau Lung Ha KLH Bridge KLH Bridge KLH Bridge KLH Bridge KLH Bridge KLH Bridge KLH Bridge KLH Bridge Z2.KLH.3610 KLH Bridge Z2.KLH.3610 KLH Bridge Z2.KLH.3610 KLH Bridge Z2.KLH.1550 Bridge Roa Z2.KLH.1550 Bridge Roa L01060 L01070 L01080 L01094 L01140 L01140	ang Vehicular Bridge - West Ramp West Ramp - Planting Installation of Traffic Signal Poles at TWSR-W N/B (KLHVB) - Deck 1 Deck 1 - Planting - Deck 3 Deck 3 - Planting - East Ramp East Ramp - Planting - Ramp R1 Ramp R1 - Steel roof - Ramp R2 Ramp R2 - Steel roof - Ramp R2 Ramp R2 - Steel roof - Ramp R2 Lift shaft & roof Structural Laminated glass wall installation RC Platform connect to bridge Lift submission & ordering period CLP Power available (by CLP) - S/B Lift shaft & roof Structural Laminated glass wall	0%           0%           0%           0%           0%           0%           0%           0%           0%           92.76%           0%           92.76%           0%	21 21 21 21 21 34 11 16 120 52 30 30 30 30 33	21 21 21 34 152 118 120 52 30 300 389 505	21-Aug-17 28-Sep-17 21-Aug-17 21-Aug-17 21-Aug-17 21-Aug-17 21-Aug-17 19-Jan-17 A 21-Aug-17 32-Oct-17 23-Oct-17 23-Oct-17 01-Aug-16 A 04-Apr-16 A	13-Sep-17       4         24-Oct-17       4         13-Sep-17       4         13-Sep-17       4         13-Sep-17       5         28-Sep-17       8         01-Sep-17       4         01-Sep-17       4         13-Jan-18       3         21-Oct-17       3         27-Nov-17       3         21-Sep-17       5         03-Sep-17       3         21-Oct-17       3         21-Sep-17       5         06-Oct-17       3	81         81         48         81         13         21         13         21         91         91         86         82         31         31         31         33         61         73         74					
Kau Lung Ha KLH Bridge KLH.1290 Z2.KLH.1032 KLH Bridge KLH.3430 KLH Bridge KLH.3590 KLH Bridge Z2.KLH.3610 KLH Bridge Z2.KLH.3610 KLH Bridge Z2.KLH.1550 Bridge Roa Z2.KLH.2040 L01070 L01080 L01070 L01080 L01094 L01140 L01140 L01220 L01230 L01240	ang Vehicular Bridge	0%           0%           0%           0%           0%           0%           0%           0%           0%           92.76%           0%	21 21 21 21 21 34 11 16 120 52 30 30 30 30 33 39 30	21 21 21 21 34 152 118 120 52 30 300 389 505 85 85 30	21-Aug-17 28-Sep-17 21-Aug-17 21-Aug-17 21-Aug-17 21-Aug-17 19-Jan-17 A 14-Mar-17 A 21-Aug-17 23-Oct-17 03-Aug-17 A 23-Oct-17 01-Aug-16 A 04-Apr-16 A 15-Jul-17 A 07-Oct-17	13-Sep-17       4         24-Oct-17       4         13-Sep-17       4         13-Sep-17       4         13-Sep-17       5         28-Sep-17       8         01-Sep-17       4         01-Sep-17       4         13-Jan-18       3         21-Oct-17       3         27-Nov-17       3         24-Nov-17       3         21-Sep-17       5         06-Oct-17       3         11-Nov-17       3	81         81         48         81         48         81         13         21         13         21         91         91         31         31         31         33         61         73         73					
Kung Ha           KLH Bridge           Z.KLH.3610           KLH Bridge           KLH Bridge           Z.KLH.3610           KLH Bridge           Z.KLH.2040           L01060           L01070           L01080           L01120           L01220           L01230           L01250	ang Vehicular Bridge	0%           0%           0%           0%           0%           0%           0%           0%           92.76%           0%           92.76%           0%	21 21 21 21 34 34 11 16 120 52 30 30 30 30 33 33 30 33 30 30 30	21 21 21 21 34 152 118 120 52 30 30 389 505 85 30 30 30	21-Aug-17 28-Sep-17 21-Aug-17 21-Aug-17 21-Aug-17 21-Aug-17 19-Jan-17 A 19-Jan-17 A 21-Aug-17 21-Aug-17 23-Oct-17 23-Oct-17 01-Aug-16 A 04-Apr-16 A 04-Apr-16 A	13-Sep-17       4         24-Oct-17       4         13-Sep-17       4         13-Sep-17       4         13-Sep-17       4         13-Sep-17       5         28-Sep-17       8         01-Sep-17       4         13-Jan-18       3         21-Oct-17       3         27-Nov-17       3         21-Sep-17       5         06-Oct-17       3         11-Nov-17       3         11-Nov-17       3         13-Nov-17       3	81         81         48         81         48         81         13         21         13         21         91         91         31         31         31         33         61         73         73					
Kau Lung Ha           KLH Bridge           ZZ.KLH.3500           KLH Bridge           ZZ.KLH.3610           KLH Bridge           ZZ.KLH.3610           KLH Bridge           ZZ.KLH.3610           KLH Bridge           ZZ.KLH.3610           KLH Bridge           Z2.KLH.3610           KLH Bridge           Z2.KLH.3040           L01080           L01070           L01080           L01094           L01120           L01230           L01240           L01250           L01290	ang Vehicular Bridge	0%       0%       0%       0%       0%       0%       92.76%       92.76%       0%	21 21 21 21 21 34 11 16 120 52 30 30 30 30 30 30 30 30 30 30 30 30 30	21 21 21 21 34 152 118 120 52 30 30 389 505 30 389 505 30 300 300 300 300 0 0	21-Aug-17 28-Sep-17 21-Aug-17 21-Aug-17 21-Aug-17 21-Aug-17 19-Jan-17 A 14-Mar-17 A 21-Aug-17 23-Oct-17 03-Aug-17 A 23-Oct-17 01-Aug-16 A 04-Apr-16 A 04-Apr-16 A 07-Oct-17 13-Nov-17	13-Sep-17       4         24-Oct-17       4         13-Sep-17       4         13-Sep-17       4         13-Sep-17       5         28-Sep-17       8         01-Sep-17       4         07-Sep-17       4         13-Jan-18       3         21-Oct-17       3         21-Oct-17       3         21-Nov-17       3         21-Sep-17       5         06-Oct-17       3         11-Nov-17       3         11-Nov-17       3         13-Nov-17       3	81         81         48         81         48         81         13         13         21         13         21         91         91         86         82         31         31         31         33         61         73         73         73					
Kung Ha           KLH Bridge           Z2.KLH.3610           L01094           L01070           L01094           L01120           L01230           L01240           L01250           L01290           L01300	ang Vehicular Bridge	0%       0%       0%       0%       0%       0%       92.76%       86.44%       0%	21 21 21 21 34 34 11 16 120 52 30 30 30 30 30 33 30 30 30 30 30 30 30	21 21 21 21 34 152 118 120 52 30 30 389 505 85 30 30 30 30 30 0	21-Aug-17 28-Sep-17 21-Aug-17 21-Aug-17 21-Aug-17 21-Aug-17 19-Jan-17 A 14-Mar-17 A 21-Aug-17 23-Oct-17 03-Aug-17 A 23-Oct-17 01-Aug-16 A 04-Apr-16 A 04-Apr-16 A 07-Oct-17 13-Nov-17	13-Sep-17       4         24-Oct-17       4         13-Sep-17       4         13-Sep-17       4         13-Sep-17       4         13-Sep-17       8         01-Sep-17       4         01-Sep-17       4         13-Jan-18       3         21-Oct-17       3         21-Oct-17       3         21-Nov-17       3         21-Nov-17       3         21-Nov-17       3         21-Nov-17       3         11-Nov-17       3         11-Nov-17       3         13-Nov-17       3	81         81         48         81         48         81         13         13         21         13         21         91         91         86         82         31         31         31         33         61         73         73         73					
Kung Ha           KLH Bridge           Z2.KLH.3610           L01060           L01070           L01080           L01020           L01230           L01250           L01290           L01300	ang Vehicular Bridge - West Ramp West Ramp - Planting Installation of Traffic Signal Poles at TWSR-W N/B (KLHVB) - Deck 1 Deck 1 - Planting - Deck 3 Deck 3 - Planting - East Ramp East Ramp - Planting - Ramp R1 Ramp R1 - Steel roof - Ramp R2 Ramp R2 - Steel roof - Ramp R2 Ramp R4 Landscape work of KLHVB R-W Side Lift shaft & roof Structural Laminated glass wall installation RC Platform connect to bridge Lift submission & ordering period CLP Power available (by CLP) Y S/B Lift shaft & roof Structural Laminated glass wall installation RC Platform connect to bridge Lift shaft & roof Structural Laminated glass wall installation RC Platform connect to bridge Glass canopy (As Confirmed by ER, No glass canopy is required) Finishes work CLP Power available (by CLP)	0%       0%       0%       0%       0%       0%       92.76%       92.76%       0%	21 21 21 21 21 34 11 16 120 52 30 30 30 30 30 30 30 30 30 30 30 30 30	21 21 21 21 34 152 118 120 52 30 30 389 505 30 389 505 30 300 300 300 300 0 0	21-Aug-17 28-Sep-17 21-Aug-17 21-Aug-17 21-Aug-17 21-Aug-17 19-Jan-17 A 14-Mar-17 A 21-Aug-17 23-Oct-17 03-Aug-17 A 23-Oct-17 01-Aug-16 A 04-Apr-16 A 04-Apr-16 A 07-Oct-17 13-Nov-17	13-Sep-17       4         24-Oct-17       4         13-Sep-17       4         13-Sep-17       4         13-Sep-17       5         28-Sep-17       8         01-Sep-17       4         07-Sep-17       4         13-Jan-18       3         21-Oct-17       3         21-Oct-17       3         21-Nov-17       3         21-Sep-17       5         06-Oct-17       3         11-Nov-17       3         11-Nov-17       3         13-Nov-17       3	81         81         48         81         48         81         13         13         21         13         21         91         91         86         82         31         31         31         33         61         73         73         73					
Kau Lung Ha           KLH Bridge           Z2.KLH.3590           KLH Bridge           Z2.KLH.3610           KLH Bridge           Z2.KLH.3610           KLH Bridge           Z2.KLH.3610           KLH Bridge           Z2.KLH.3610           KLH Bridge           Z2.KLH.3040           L01060           L01070           L01080           L01094           L01120           L01230           L01240           L01250           L01300	ang Vehicular Bridge	0%       0%       0%       0%       0%       0%       92.76%       92.76%       0%	21 21 21 21 21 34 11 16 120 52 30 30 30 30 30 30 30 30 30 30 30 30 30	21 21 21 21 34 152 118 120 52 30 30 389 505 30 389 505 30 300 300 300 300 0 0	21-Aug-17 28-Sep-17 21-Aug-17 21-Aug-17 21-Aug-17 21-Aug-17 19-Jan-17 A 14-Mar-17 A 21-Aug-17 23-Oct-17 03-Aug-17 A 23-Oct-17 01-Aug-16 A 04-Apr-16 A 04-Apr-16 A 07-Oct-17 13-Nov-17	13-Sep-17       4         24-Oct-17       4         13-Sep-17       4         13-Sep-17       4         13-Sep-17       5         28-Sep-17       8         01-Sep-17       4         07-Sep-17       4         13-Jan-18       3         21-Oct-17       3         21-Oct-17       3         21-Nov-17       3         21-Sep-17       5         06-Oct-17       3         11-Nov-17       3         11-Nov-17       3         13-Nov-17       3	81         81         48         81         48         81         13         13         21         13         21         91         91         86         82         31         31         31         33         61         73         73         73					
Kau Lung Ha           KLH Bridge           Z2.KLH.3500           KLH Bridge           Z2.KLH.3610           KLH Bridge           Z2.KLH.3610           KLH Bridge           Z2.KLH.3610           KLH Bridge           Z2.KLH.2040           L01060           L01070           L01080           L01094           L01120           L01220           L01230           L01240           L01250           L01300           WSR-Wess           Drainage & F           General	Ang Vehicular Bridge	0%       0%       0%       0%       0%       0%       92.76%       92.76%       0% <td>21 21 21 21 34 11 16 120 52 30 30 30 30 30 30 30 30 30 30 30 30 30</td> <td>21 21 21 21 34 152 118 120 52 30 30 30 389 505 85 30 30 309 505 85 30 30 300 300 60 60 60 60</td> <td>21-Aug-17 28-Sep-17 21-Aug-17 21-Aug-17 21-Aug-17 21-Aug-17 19-Jan-17 A 14-Mar-17 A 21-Aug-17 23-Oct-17 03-Aug-17 A 23-Oct-17 01-Aug-16 A 04-Apr-16 A 07-Oct-17 13-Nov-17 13-Nov-17 13-Nov-17</td> <td>13-Sep-17       4         24-Oct-17       4         13-Sep-17       4         13-Sep-17       4         13-Sep-17       5         28-Sep-17       8         01-Sep-17       4         01-Sep-17       4         13-Jan-18       3         21-Oct-17       3         21-Oct-17       3         21-Nov-17       3         21-Sep-17       5         06-Oct-17       3         11-Nov-17       3         11-Nov-17       3         21-Nov-17       5</td> <td>81         81         81         48         81         13         21         13         21         13         21         13         21         13         21         13         21         13         21         13         21         13         21         13         21         13         21         13         13         13         13         131         311         313         311         313         311         313         311         313         313         314         315         316         317         318         319         321         332         333         34         35         361         373</td> <td></td> <td></td> <td></td> <td></td> <td></td>	21 21 21 21 34 11 16 120 52 30 30 30 30 30 30 30 30 30 30 30 30 30	21 21 21 21 34 152 118 120 52 30 30 30 389 505 85 30 30 309 505 85 30 30 300 300 60 60 60 60	21-Aug-17 28-Sep-17 21-Aug-17 21-Aug-17 21-Aug-17 21-Aug-17 19-Jan-17 A 14-Mar-17 A 21-Aug-17 23-Oct-17 03-Aug-17 A 23-Oct-17 01-Aug-16 A 04-Apr-16 A 07-Oct-17 13-Nov-17 13-Nov-17 13-Nov-17	13-Sep-17       4         24-Oct-17       4         13-Sep-17       4         13-Sep-17       4         13-Sep-17       5         28-Sep-17       8         01-Sep-17       4         01-Sep-17       4         13-Jan-18       3         21-Oct-17       3         21-Oct-17       3         21-Nov-17       3         21-Sep-17       5         06-Oct-17       3         11-Nov-17       3         11-Nov-17       3         21-Nov-17       5	81         81         81         48         81         13         21         13         21         13         21         13         21         13         21         13         21         13         21         13         21         13         21         13         21         13         21         13         13         13         13         131         311         313         311         313         311         313         311         313         313         314         315         316         317         318         319         321         332         333         34         35         361         373					
Kuhng Ha           KLH Bridge           Z2.KLH.3610           L0109           L01070           L01080           L01094           L01200           L01230           L01240           L01250           L01290           L01300           WSR-Wesp           Calinage & F           General           RD220130	ang Vehicular Bridge - West Ramp West Ramp - Planting Installation of Traffic Signal Poles at TWSR-W N/B (KLHVB) - Deck 1 Deck 1 - Planting - Deck 3 Deck 3 - Planting - East Ramp East Ramp - Planting - Ramp R1 Ramp R1 - Steel roof - Ramp R2 Ramp R2 - Steel roof - Ramp R2 Ramp R4 Landscape work of KLHVB R-W Side Lift shaft & roof Structural Laminated glass wall installation RC Platform connect to bridge Lift submission & ordering period CLP Power available (by CLP) Y S/B Lift shaft & roof Structural Laminated glass wall installation RC Platform connect to bridge Lift shaft & roof Structural Laminated glass wall installation RC Platform connect to bridge Glass canopy (As Confirmed by ER, No glass canopy is required) Finishes work CLP Power available (by CLP)	0%       0%       0%       0%       0%       0%       0%       92.76%       92.76%       0% <td>21 21 21 21 21 34 11 16 120 52 30 30 30 30 30 30 30 30 30 30 30 30 30</td> <td>21 21 21 21 34 152 118 120 52 30 30 389 505 30 389 505 30 300 300 300 300 0 0</td> <td>21-Aug-17 28-Sep-17 21-Aug-17 21-Aug-17 21-Aug-17 21-Aug-17 19-Jan-17 A 14-Mar-17 A 21-Aug-17 23-Oct-17 03-Aug-17 A 23-Oct-17 01-Aug-16 A 04-Apr-16 A 04-Apr-16 A 07-Oct-17 13-Nov-17</td> <td>13-Sep-17       4         24-Oct-17       4         13-Sep-17       4         13-Sep-17       4         13-Sep-17       5         28-Sep-17       8         01-Sep-17       4         01-Sep-17       4         13-Jan-18       3         21-Oct-17       3         21-Oct-17       3         21-Nov-17       3         21-Sep-17       5         06-Oct-17       3         11-Nov-17       3         11-Nov-17       3         21-Nov-17       5</td> <td>81         81         48         81         48         81         13         13         21         13         21         91         91         86         82         31         31         31         33         61         73         73         73</td> <td></td> <td></td> <td></td> <td></td> <td></td>	21 21 21 21 21 34 11 16 120 52 30 30 30 30 30 30 30 30 30 30 30 30 30	21 21 21 21 34 152 118 120 52 30 30 389 505 30 389 505 30 300 300 300 300 0 0	21-Aug-17 28-Sep-17 21-Aug-17 21-Aug-17 21-Aug-17 21-Aug-17 19-Jan-17 A 14-Mar-17 A 21-Aug-17 23-Oct-17 03-Aug-17 A 23-Oct-17 01-Aug-16 A 04-Apr-16 A 04-Apr-16 A 07-Oct-17 13-Nov-17	13-Sep-17       4         24-Oct-17       4         13-Sep-17       4         13-Sep-17       4         13-Sep-17       5         28-Sep-17       8         01-Sep-17       4         01-Sep-17       4         13-Jan-18       3         21-Oct-17       3         21-Oct-17       3         21-Nov-17       3         21-Sep-17       5         06-Oct-17       3         11-Nov-17       3         11-Nov-17       3         21-Nov-17       5	81         81         48         81         48         81         13         13         21         13         21         91         91         86         82         31         31         31         33         61         73         73         73					

y ID	Activity Name	Dur. %	Rem.	Original	Start	Finish	Total					
		Complete	Duration I	Duration			Float	Aug		2017 Sep	Oct	Nov
Noise Barr												
NB03090	NB62 (0-80m) - Footing & Wall Structure	74.35%	59	230	12-Dec-16 A	31-Oct-17	403					
NB03100	NB62 (0-80m) - backfilling	57.23%	68	159	27-Mar-17 A	10-Nov-17	429					
NB03110	NB62 (0-80m) - NB production	0%	45	45	01-Nov-17	15-Dec-17	496					
NB03130	NB62 (80-110m) Under bridge -	0%	12	12	21-Aug-17*	02-Sep-17	372	[				
NB03140	Sheet piling & Excavation NB62 (80-110m) Under bridge -	0%	25	25	04-Sep-17	03-Oct-17	425				¦	
NB03150	Footing & Wall Structure NB62 (80-110m) Under bridge -	0%	14	14	04-Oct-17	20-Oct-17	446					
NB03160	backfilling NB62 (80-110m) Under bridge - NB	0%	45	45	04-Oct-17	17-Nov-17	524					
	production		5	5	18-Nov-17	23-Nov-17						
NB03170	NB62 (80-110m) Under bridge - NB post & panel installation	0%		-								
NB03180	NB62 (110-170m) - Sheet piling & Excavation	0%	18	18	04-Sep-17	23-Sep-17	372				· · ·	
NB03190	NB62 (110-170m) - Footing & Wall Structure	0%	60	60	25-Sep-17	06-Dec-17	372				1 1 1	1
	910-6930)-FH S/B Side											     
Noise Barr NB03290	ier Works NB70- NB post & panel installation	0%	5	5	21-Aug-17	25-Aug-17	497					
		0,0	0	U	217/03/17	20 / 10g 11	101					
	hway Construction Road Works											
Ch 6740-69												
RDZ20470	Z2 (CH6740-6930) : Fanling Highway N/B - D&R works (lane 4)	0%	24	24	28-Sep-17	27-Oct-17	40					
orth Buff	er Zone 2 (NBZ2) (with	in Zone	4) (Ch.	7925	to 8100							
ridge Con												
lew Ho Ka	Yuen Footbridge											
	st/ FL Highway N/B Side Se		67	070	21 Nov 16 A	27 Oct 17	422					
HKY1440	Remaining Finishes works of HKYFB	79.04%	57	272	21-Nov-16 A							
HKY1520	VO11 - slope improvement work	0%	45	45	30-Oct-17	20-Dec-17	432					
	t FL Highway S/B Side Sect		<b>•</b> ••	050	12 0 1 15 1	00.0	50.1					
HKY1870	Steel Ramp finishes work (HKYFB-TWSR-E side)	88.1%	30	252	13-Oct-16 A	∠3-Sep-17	504					
ther Work												
Slope Works	े t FL Highway S/B Side Sect	ion										
S1000	Slope S51-Fill ~3m	64.91%	40	114	20-Apr-17 A	07-Oct-17	458					
	h. 7925 to 8700)											
	er Along TWSR-West and	Laying N	lew Util	ities								
	d Utility Works <mark>Vatermain "A" (Ch 1989-25</mark> 2	20)										
DI0100	DN450 DI watermain laying (0-50m)	40%	18	30	07-Aug-17 A	09-Sep-17	135					
DI0110	DN450 DI watermain laying	0%	30	30	11-Sep-17	17-Oct-17	135					
DI0120	(50-100m) DN450 DI watermain laying	0%	30	30	18-Oct-17	22-Nov-17						
	(100-150m)		50	50	10-000-17	22-1100-17	100					
	er Along Fanling Highway	y N/B										
NB/5 (Ch./S Noise Barr	930-8090)-FH N/B Side											
NB4070	NB75 - backfilling (Ch7930-7990)	0%	20	20	05-Sep-17	27-Sep-17	50					
NB4080	NB75 - NB production	0%	45	45	20-Aug-17	03-Oct-17	352				· 	
NB4090	(Ch7930-7990) NB75 - NB post & panel installation	0%	5	5	04-Oct-17	10-Oct-17						
	(Ch7930-7990)			-								
NB4130	NB75 - backfilling (Ch7990-8000)	0%	12	12	28-Sep-17	13-Oct-17	78					
NB4140	NB75 - NB production (Ch7990-8000)	0%	45	45	20-Aug-17	03-Oct-17	359					
NB4150	NB75 - NB post & panel installation (Ch7990-8000)	0%	5	5	14-Oct-17	19-Oct-17	283					
NB4190	NB75 - backfilling (Ch8000-8050)	0%	20	20	18-Oct-17	10-Nov-17	35					
NB4200	NB75 - NB production	0%	45	45	20-Aug-17	03-Oct-17	359				÷	
	(Ch8000-8050)		1		1		1				1	
NB4210	NB75 - NB post & panel installation	0%	5	5	11-Nov-17	16-Nov-17	260				±	
	(Ch8000-8050)			-							1 	•••••
NB4250	(Ch8000-8050) NB75 - backfilling (Ch8050-8090)	0%	20	20	17-Nov-17	09-Dec-17	30					•••••
NB4250	(Ch8000-8050)			-			30					
NB4250 NB4260	(Ch8000-8050) NB75 - backfilling (Ch8050-8090) NB75 - NB production	0%	20	20	17-Nov-17	09-Dec-17	30 359	21-Aug-17 ♦	NB75 st	ructure complete		
NB4250 NB4260 NB4600	(Ch8000-8050) NB75 - backfilling (Ch8050-8090) NB75 - NB production (Ch8050-8090)	0% 0%	20 45	20 45	17-Nov-17	09-Dec-17 03-Oct-17 21-Aug-17	30 359 855	21-Aug-17 ♦	NB75 st	ructure complete		
NB4250 NB4260 NB4600 NB4610	(Ch8000-8050) NB75 - backfilling (Ch8050-8090) NB75 - NB production (Ch8050-8090) NB75 structure complete NB75 Drainage Works	0% 0% 0%	20 45 0	20 45 0	17-Nov-17 20-Aug-17	09-Dec-17 03-Oct-17 21-Aug-17	30 359 855	21-Aug-17 ♦	NB75 st	ructure complete		
NB4250 NB4260 NB4600 NB4610	(Ch8000-8050) NB75 - backfilling (Ch8050-8090) NB75 - NB production (Ch8050-8090) NB75 structure complete NB75 Drainage Works D90-8450)-FH N/B Side ier Works	0% 0% 0%	20 45 0	20 45 0	17-Nov-17 20-Aug-17 20-Jul-17 A	09-Dec-17 03-Oct-17 21-Aug-17 09-Dec-17	30 359 855	21-Aug-17 ◀	NB75 st	ructure complete		
NB4250 NB4260 NB4600 NB4610 IB77 (Ch.80 Noise Barr	(Ch8000-8050) NB75 - backfilling (Ch8050-8090) NB75 - NB production (Ch8050-8090) NB75 structure complete NB75 Drainage Works O90-8450)-FH N/B Side ier Works NB77 - Footing & Wall Structure	0% 0% 0%	20 45 0	20 45 0	17-Nov-17 20-Aug-17	09-Dec-17 03-Oct-17 21-Aug-17 09-Dec-17	30 359 855	21-Aug-17 ♦	NB75 st	ructure complete		
NB4250 NB4260 NB4600 NB4610 <b>IB77 (Ch.80</b> <b>Noise Barr</b> NB4310	(Ch8000-8050) NB75 - backfilling (Ch8050-8090) NB75 - NB production (Ch8050-8090) NB75 structure complete NB75 Drainage Works <b>D90-8450)-FH N/B Side</b> ier Works NB77 - Footing & Wall Structure (Ch8090-8190) NB77 - NB production	0% 0% 22.5%	20 45 0 93	20 45 0 120	17-Nov-17 20-Aug-17 20-Jul-17 A 20-Jul-17 A	09-Dec-17 03-Oct-17 21-Aug-17 09-Dec-17	30 359 855 30 4	21-Aug-17 ♦	▶ NB75 st	ructure complete		
NB4250 NB4260 NB4600 NB4610 IB77 (Ch.80 NB4310 NB4330	(Ch8000-8050)           NB75 - backfilling (Ch8050-8090)           NB75 - NB production (Ch8050-8090)           NB75 structure complete           NB75 Drainage Works <b>090-8450)-FH N/B Side ier Works</b> NB77 - Footing & Wall Structure (Ch8090-8190)           NB77 - Footing & Wall Structure (Ch8090-8190)           NB77 - Footing & Wall Structure	0% 0% 22.5% 33.75%	20 45 0 93 53	20 45 0 120 80	17-Nov-17 20-Aug-17 20-Jul-17 A 20-Jul-17 A	09-Dec-17 03-Oct-17 21-Aug-17 09-Dec-17 23-Oct-17	30 359 855 30 4 281	21-Aug-17 ♦	▶ NB75 st	ructure complete		
NB4250 NB4260 NB4600 NB4610 IB77 (Ch.80 NB4310 NB4330 NB4370	(Ch8000-8050)           NB75 - backfilling (Ch8050-8090)           NB75 - NB production (Ch8050-8090)           NB75 structure complete           NB75 Drainage Works <b>090-8450)-FH N/B Side ier Works</b> NB77 - Footing & Wall Structure (Ch8090-8190)           NB77 - Footing & Wall Structure (Ch8190-8290)	0% 0% 22.5% 333.75% 0% 0%	20 45 0 93 53 45 80	20 45 0 120 80 45 80	17-Nov-17 20-Aug-17 20-Jul-17 A 20-Jul-17 A 24-Oct-17 30-Aug-17	09-Dec-17 03-Oct-17 21-Aug-17 09-Dec-17 23-Oct-17 07-Dec-17 04-Dec-17	30 359 855 30 4 281 34	21-Aug-17 ♦	▶ NB75 st	ructure complete		
NB4250 NB4260 NB4600 IB77 (Ch.80 Noise Barr NB4310 NB4330 NB4370 NB4430	(Ch8000-8050) NB75 - backfilling (Ch8050-8090) NB75 - NB production (Ch8050-8090) NB75 structure complete NB75 Drainage Works <b>D90-8450)-FH N/B Side</b> <b>ier Works</b> NB77 - Footing & Wall Structure (Ch8090-8190) NB77 - NB production (Ch8090-8190) NB77 - Footing & Wall Structure (Ch8190-8290) NB77 - Footing & Wall Structure (Ch8290-8390)	0% 0% 22.5% 33.75% 0% 0%	20 45 0 93 53 45 80 80	20 45 0 120 80 45 80 80	17-Nov-17 20-Aug-17 20-Jul-17 A 20-Jul-17 A 20-Jul-17 A 24-Oct-17 30-Aug-17 12-Oct-17	09-Dec-17 03-Oct-17 21-Aug-17 09-Dec-17 23-Oct-17 07-Dec-17 04-Dec-17 17-Jan-18	30 359 855 30 4 281 34 34	21-Aug-17 ♦	NB75 st	ructure complete		
NB4250 NB4260 NB4600 NB4610 JB77 (Ch.80 NB4310 NB4330 NB4330 NB4330 NB4430 NB4480	(Ch8000-8050) NB75 - backfilling (Ch8050-8090) NB75 - NB production (Ch8050-8090) NB75 structure complete NB75 Drainage Works <b>D90-8450)-FH N/B Side</b> <b>ier Works</b> NB77 - Footing & Wall Structure (Ch8090-8190) NB77 - NB production (Ch8090-8190) NB77 - Footing & Wall Structure (Ch8190-8290) NB77 - Footing & Wall Structure (Ch8290-8390) NB77 - piling (NB77/N1-N2, 0.19m -24no) (confirming design by	0% 0% 22.5% 33.75% 0% 0% 0% 30%	20 45 0 93 53 45 80 80 80	20 45 0 120 80 45 80 80 80 24	17-Nov-17 20-Aug-17 20-Jul-17 A 20-Jul-17 A 24-Oct-17 30-Aug-17 12-Oct-17 26-Jul-17 A	09-Dec-17 03-Oct-17 21-Aug-17 09-Dec-17 23-Oct-17 07-Dec-17 04-Dec-17 17-Jan-18 08-Sep-17	30 359 855 30 4 281 34 34 34 28	21-Aug-17	▶ NB75 st	ructure complete		
NB4250 NB4260 NB4600 NB4610 JB77 (Ch.80 NB4310 NB4330 NB4330 NB4330 NB4430 NB4480	(Ch8000-8050) NB75 - backfilling (Ch8050-8090) NB75 - NB production (Ch8050-8090) NB75 structure complete NB75 Drainage Works <b>D90-8450)-FH N/B Side</b> <b>ier Works</b> NB77 - Footing & Wall Structure (Ch8090-8190) NB77 - Footing & Wall Structure (Ch8190-8290) NB77 - Footing & Wall Structure (Ch8290-8390) NB77 - piling (NB77/N1-N2, 0.19m	0% 0% 22.5% 33.75% 0% 0%	20 45 0 93 53 45 80 80	20 45 0 120 80 45 80 80	17-Nov-17 20-Aug-17 20-Jul-17 A 20-Jul-17 A 20-Jul-17 A 24-Oct-17 30-Aug-17 12-Oct-17	09-Dec-17 03-Oct-17 21-Aug-17 09-Dec-17 23-Oct-17 07-Dec-17 04-Dec-17 17-Jan-18	30 359 855 30 4 281 34 34 34 28	21-Aug-17 ♦	▶ NB75 st	ructure complete		
NB4250 NB4260 NB4610 <b>IB77 (Ch.80</b> <b>N64310</b> NB4330 NB4370 NB4430 NB4480 NB4482	(Ch8000-8050) NB75 - backfilling (Ch8050-8090) NB75 - NB production (Ch8050-8090) NB75 structure complete NB75 Drainage Works <b>D90-8450)-FH N/B Side</b> <b>ier Works</b> NB77 - Footing & Wall Structure (Ch8090-8190) NB77 - NB production (Ch8090-8190) NB77 - Footing & Wall Structure (Ch8190-8290) NB77 - Footing & Wall Structure (Ch8290-8390) NB77 - piling (NB77/N1 - N2, 0.19m -24no) (confirming design by NB77 - Footing & Wall Structure (NB77 - 28, N1-N2) NB77 - piling (NB77/32, S2- 32,	0% 0% 22.5% 33.75% 0% 0% 0% 30%	20 45 0 93 53 45 80 80 80	20 45 0 120 80 45 80 80 80 24	17-Nov-17 20-Aug-17 20-Jul-17 A 20-Jul-17 A 24-Oct-17 30-Aug-17 12-Oct-17 26-Jul-17 A	09-Dec-17 03-Oct-17 21-Aug-17 09-Dec-17 23-Oct-17 07-Dec-17 04-Dec-17 17-Jan-18 08-Sep-17 08-Dec-17	30 359 855 30 4 281 34 34 28 23	21-Aug-17 ♦	• NB75 st	ructure complete		
NB4250 NB4260 NB4600 <b>JB77 (Ch.80</b> <b>NB4310</b> NB4330 NB4330 NB4430 NB4480 NB4482 NB4485	(Ch8000-8050) NB75 - backfilling (Ch8050-8090) NB75 - NB production (Ch8050-8090) NB75 structure complete NB75 Drainage Works <b>D90-8450)-FH N/B Side</b> <b>ier Works</b> NB77 - Footing & Wall Structure (Ch8090-8190) NB77 - NB production (Ch8090-8190) NB77 - Footing & Wall Structure (Ch8190-8290) NB77 - Footing & Wall Structure (Ch8290-8390) NB77 - Footing & Wall Structure (NB77/27 - 28, N1-N2)	0% 0% 22.5% 33.75% 0% 0% 0% 30%	20 45 0 93 53 45 80 80 17 70	20 45 0 120 80 45 80 80 80 24 70	17-Nov-17 20-Aug-17 20-Jul-17 A 20-Jul-17 A 20-Jul-17 A 24-Oct-17 30-Aug-17 12-Oct-17 26-Jul-17 A 15-Sep-17	09-Dec-17 03-Oct-17 21-Aug-17 09-Dec-17 23-Oct-17 07-Dec-17 04-Dec-17 17-Jan-18 08-Sep-17 08-Dec-17	30 359 855 30 4 281 34 34 28 23 23		▶ NB75 st	ructure complete		
NB4250 NB4260 NB4600 NB4610 <b>JB77 (Ch.80</b> <b>N0ise Barr</b> NB4310 NB4330 NB4330 NB4430 NB4480 NB4482 NB4485 NB4485	(Ch8000-8050) NB75 - backfilling (Ch8050-8090) NB75 - NB production (Ch8050-8090) NB75 structure complete NB75 Drainage Works <b>D90-8450)-FH N/B Side</b> <b>ier Works</b> NB77 - Footing & Wall Structure (Ch8090-8190) NB77 - NB production (Ch8090-8190) NB77 - Footing & Wall Structure (Ch8190-8290) NB77 - Footing & Wall Structure (Ch8290-8390) NB77 - piling (NB77/N1-N2, 0.19m -24no) (confirming design by NB77 - piling (NB77/N1-N2, 0.19m -24no) (confirming design by NB77 - piling (NB77/N1-N2, 0.19m -24no) (confirming design by NB77 - piling (NB77/32, S2- 32, 0.19m -14no) & G35 (8nos) NB77 Drainage Works	0% 0% 22.5% 33.75% 0% 0% 0% 30% 0%	20 45 0 93 53 45 80 80 17 70 22	20 45 0 120 80 45 80 80 24 70 22	17-Nov-17 20-Aug-17 20-Jul-17 A 20-Jul-17 A 24-Oct-17 30-Aug-17 12-Oct-17 26-Jul-17 A 15-Sep-17 19-Aug-17 A	09-Dec-17 03-Oct-17 21-Aug-17 09-Dec-17 23-Oct-17 07-Dec-17 04-Dec-17 17-Jan-18 08-Sep-17 08-Dec-17 14-Sep-17	30 359 855 30 4 281 34 34 28 23 23		▶ NB75 st	ructure complete		
NB4250 NB4260 NB4600 NB4610 JB77 (Ch.80 NB4310 NB4330 NB4330 NB4430 NB4480 NB4482 NB4485 NB4485 NB4620 ridge Con	(Ch8000-8050)         NB75 - backfilling (Ch8050-8090)         NB75 - NB production (Ch8050-8090)         NB75 structure complete         NB75 brainage Works <b>D90-8450)-FH N/B Side ier Works</b> NB77 - Footing & Wall Structure (Ch8090-8190)         NB77 - Footing & Wall Structure (Ch8090-8190)         NB77 - Footing & Wall Structure (Ch8190-8290)         NB77 - Footing & Wall Structure (Ch8290-8390)         NB77 - piling (NB77/N1 - N2, 0.19m -24no) (confirming design by         NB77 - Footing & Wall Structure (NB77/27 - 28, N1-N2)         NB77 - piling (NB77/32, S2- 32, 0.19m -14n0) & G35 (8nos)         NB77 Drainage Works	0% 0% 22.5% 33.75% 0% 0% 30% 30% 0%	20 45 0 93 53 45 80 80 17 70 22	20 45 0 120 80 45 80 80 24 70 22	17-Nov-17 20-Aug-17 20-Jul-17 A 20-Jul-17 A 24-Oct-17 30-Aug-17 12-Oct-17 26-Jul-17 A 15-Sep-17 19-Aug-17 A	09-Dec-17 03-Oct-17 21-Aug-17 09-Dec-17 23-Oct-17 07-Dec-17 04-Dec-17 17-Jan-18 08-Sep-17 08-Dec-17 14-Sep-17	30 359 855 30 4 281 34 34 28 23 23		• NB75 st	ructure complete		
NB4250 NB4260 NB4600 NB4610 <b>JB77 (Ch.80</b> <b>N0ise Barr</b> NB4310 NB4330 NB4330 NB4430 NB4480 NB4482 NB4485 NB4620 <b>ridge Con</b> <b>Jew Wo Ho</b>	(Ch8000-8050) NB75 - backfilling (Ch8050-8090) NB75 - NB production (Ch8050-8090) NB75 structure complete NB75 Drainage Works <b>D90-8450)-FH N/B Side</b> <b>ier Works</b> NB77 - Footing & Wall Structure (Ch8090-8190) NB77 - NB production (Ch8090-8190) NB77 - Footing & Wall Structure (Ch8190-8290) NB77 - Footing & Wall Structure (Ch8290-8390) NB77 - piling (NB77/N1-N2, 0.19m -24no) (confirming design by NB77 - piling (NB77/N1-N2, 0.19m -24no) (confirming design by NB77 - piling (NB77/N1-N2, 0.19m -24no) (confirming design by NB77 - piling (NB77/32, S2- 32, 0.19m -14no) & G35 (8nos) NB77 Drainage Works	0% 0% 22.5% 33.75% 0% 0% 30% 30% 0%	20 45 0 93 53 45 80 80 17 70 22	20 45 0 120 80 45 80 80 24 70 22	17-Nov-17 20-Aug-17 20-Jul-17 A 20-Jul-17 A 24-Oct-17 30-Aug-17 12-Oct-17 26-Jul-17 A 15-Sep-17 19-Aug-17 A	09-Dec-17 03-Oct-17 21-Aug-17 09-Dec-17 23-Oct-17 07-Dec-17 04-Dec-17 17-Jan-18 08-Sep-17 08-Dec-17 14-Sep-17	30 359 855 30 4 281 34 34 28 23 23		▶ NB75 st	ructure complete		
NB4250 NB4260 NB4600 NB4610 JB77 (Ch.80 Noise Barr NB4310 NB4330 NB4330 NB4430 NB4480 NB4482 NB4485 NB4485 NB4620 ridge Con Jew Wo Ho General	(Ch8000-8050) NB75 - backfilling (Ch8050-8090) NB75 - NB production (Ch8050-8090) NB75 structure complete NB75 Drainage Works <b>D90-8450)-FH N/B Side</b> <b>ier Works</b> NB77 - Footing & Wall Structure (Ch8090-8190) NB77 - NB production (Ch8090-8190) NB77 - Footing & Wall Structure (Ch8190-8290) NB77 - Footing & Wall Structure (Ch8290-8390) NB77 - piling (NB77/N1 - N2, 0.19m -24no) (confirming design by NB77 - piling (NB77/32, S2- 32, 0.19m -14no) & G35 (8nos) NB77 Drainage Works <b>Struction</b> <b>p Shek Pedstrian &amp; Cycle Briter</b>	0% 0% 22.5% 33.75% 0% 0% 30% 30% 0%	20 45 0 93 53 45 80 80 17 70 22	20 45 0 120 80 45 80 80 24 70 22	17-Nov-17 20-Aug-17 20-Jul-17 A 20-Jul-17 A 24-Oct-17 30-Aug-17 12-Oct-17 26-Jul-17 A 15-Sep-17 19-Aug-17 A	09-Dec-17 03-Oct-17 21-Aug-17 09-Dec-17 23-Oct-17 07-Dec-17 04-Dec-17 17-Jan-18 08-Sep-17 08-Dec-17 14-Sep-17	30 359 855 30 4 281 34 281 34 34 28 23 23 4		• NB75 st	ructure complete	23-Oct-17 ♦ W	77A & W77B 2
NB4250 NB4260 NB4600 NB4610 <b>JB77 (Ch.80</b> <b>NB4310</b> NB4330 NB4330 NB4430 NB4480 NB4482 NB4482 NB4485 NB4620 <b>ridge Con</b> <b>Jew Wo Ho</b> <b>General</b> WHS1105	(Ch8000-8050) NB75 - backfilling (Ch8050-8090) NB75 - NB production (Ch8050-8090) NB75 structure complete NB75 Drainage Works <b>D90-8450)-FH N/B Side</b> <b>ier Works</b> NB77 - Footing & Wall Structure (Ch8090-8190) NB77 - NB production (Ch8090-8190) NB77 - Footing & Wall Structure (Ch8190-8290) NB77 - Footing & Wall Structure (Ch8290-8390) NB77 - Footing & Wall Structure (Ch8290-8390) NB77 - Footing & Wall Structure (Ch8290-8390) NB77 - Footing & Wall Structure (NB77/27 - 28, N1-N2) NB77 - piling (NB77/32, S2- 32, 0.19m -14n0) & G35 (8nos) NB77 Drainage Works <b>Struction</b> <b>p Shek Pedstrian &amp; Cycle Brite</b> W77A & W77B & backfilling work complete Existing Wo Hop Shek Bridge	0%       0%       0%       22.5%       33.75%       0%	20 45 0 93 53 45 80 80 17 70 22 120	20 45 0 120 80 45 80 80 24 70 22 120	17-Nov-17 20-Aug-17 20-Jul-17 A 20-Jul-17 A 24-Oct-17 30-Aug-17 12-Oct-17 26-Jul-17 A 15-Sep-17 19-Aug-17 A	09-Dec-17 03-Oct-17 21-Aug-17 09-Dec-17 23-Oct-17 07-Dec-17 04-Dec-17 17-Jan-18 08-Sep-17 08-Dec-17 14-Sep-17 20-Mar-18	30 359 855 30 4 281 34 28 23 23 23 4 481			ructure complete	•	
NB4250 NB4260 NB4600 NB4610 <b>JB77 (Ch.80</b> <b>Noise Barr</b> NB4310 NB4330 NB4370 NB4430 NB4480 NB4482 NB4485 NB4620 <b>ridge Con</b> <b>Jew Wo Hoj</b> <b>General</b> WHS1105 WHS1140	(Ch8000-8050) NB75 - backfilling (Ch8050-8090) NB75 - NB production (Ch8050-8090) NB75 structure complete NB75 Drainage Works <b>D90-8450)-FH N/B Side</b> <b>ier Works</b> NB77 - Footing & Wall Structure (Ch8090-8190) NB77 - NB production (Ch8090-8190) NB77 - Footing & Wall Structure (Ch8190-8290) NB77 - Footing & Wall Structure (Ch8290-8390) NB77 - Footing & Wall Structure (Ch8290-8390) NB77 - Footing & Wall Structure (Ch8290-8390) NB77 - Footing & Wall Structure (NB77/27 - 28, N1-N2) NB77 - piling (NB77/32, S2- 32, 0.19m -14n0) & G35 (8nos) NB77 Drainage Works <b>struction</b> <b>p Shek Pedstrian &amp; Cycle Bri</b> W77A & W77B & backfilling work complete Existing Wo Hop Shek Bridge Demolished	0%       0%       0%       22.5%       33.75%       0%	20 45 0 93 53 45 80 80 17 70 22 120	20 45 0 120 80 45 80 80 24 70 22 120	17-Nov-17 20-Aug-17 20-Jul-17 A 20-Jul-17 A 24-Oct-17 30-Aug-17 12-Oct-17 26-Jul-17 A 15-Sep-17 19-Aug-17 A	09-Dec-17 03-Oct-17 21-Aug-17 09-Dec-17 23-Oct-17 07-Dec-17 07-Dec-17 17-Jan-18 08-Sep-17 08-Dec-17 14-Sep-17 20-Mar-18	30 359 855 30 4 281 34 28 23 23 23 4 481				•	
NB4250 NB4260 NB4600 NB4610 <b>JB77 (Ch.80</b> <b>Noise Barr</b> NB4310 NB4330 NB4330 NB4430 NB4480 NB4482 NB4485 NB4485 NB4620 <b>ridge Con</b> Jew Wo Ho <b>General</b> WHS1105 WHS1140	(Ch8000-8050) NB75 - backfilling (Ch8050-8090) NB75 - NB production (Ch8050-8090) NB75 structure complete NB75 Drainage Works <b>D90-8450)-FH N/B Side</b> <b>ier Works</b> NB77 - Footing & Wall Structure (Ch8090-8190) NB77 - NB production (Ch8090-8190) NB77 - Footing & Wall Structure (Ch8190-8290) NB77 - Footing & Wall Structure (Ch8290-8390) NB77 - Footing & Wall Structure (Ch8290-8390) NB77 - Footing & Wall Structure (Ch8290-8390) NB77 - Footing & Wall Structure (NB77/27 - 28, N1-N2) NB77 - piling (NB77/32, S2- 32, 0.19m -14n0) & G35 (8nos) NB77 Drainage Works <b>Struction</b> <b>p Shek Pedstrian &amp; Cycle Bri</b> W77A & W77B & backfilling work complete Existing Wo Hop Shek Bridge Demolished <b>St/ FL Highway N/B Side Se</b> WHSAB2, P8, P9 - pile cap &	0%       0%       0%       22.5%       33.75%       0%	20 45 0 93 53 45 80 80 17 70 22 120	20 45 0 120 80 45 80 80 24 70 22 120	17-Nov-17 20-Aug-17 20-Jul-17 A 20-Jul-17 A 24-Oct-17 30-Aug-17 12-Oct-17 26-Jul-17 A 15-Sep-17 19-Aug-17 A	09-Dec-17 03-Oct-17 21-Aug-17 09-Dec-17 23-Oct-17 04-Dec-17 04-Dec-17 17-Jan-18 08-Sep-17 08-Dec-17 14-Sep-17 20-Mar-18 23-Oct-17 12-Sep-17	30 359 855 30 4 281 34 281 34 28 23 23 4 23 4 19				•	
NB4250 NB4260 NB4600 NB4610 JB77 (Ch.80 Noise Barr NB4310 NB4330 NB4330 NB4430 NB4480 NB4482 NB4485 NB4620 ridge Con Jew Wo Ho General WHS1105 WHS1140 TWSR-Wes WHS1380	(Ch8000-8050) NB75 - backfilling (Ch8050-8090) NB75 - NB production (Ch8050-8090) NB75 structure complete NB75 Drainage Works <b>D90-8450)-FH N/B Side</b> <b>ier Works</b> NB77 - Footing & Wall Structure (Ch8090-8190) NB77 - NB production (Ch8090-8190) NB77 - Footing & Wall Structure (Ch8190-8290) NB77 - Footing & Wall Structure (Ch8190-8290) NB77 - Footing & Wall Structure (Ch8290-8390) NB77 - piling (NB77/N1 - N2, 0.19m -24no) (confirming design by NB77 - piling (NB77/32, S2- 32, 0.19m -14no) & G35 (8nos) NB77 - piling (NB77/32, S2- 32, 0.19m -14no) & G35 (8nos) NB77 Drainage Works <b>struction</b> <b>p Shek Pedstrian &amp; Cycle Bri</b> W77A & W77B & backfilling work complete Existing Wo Hop Shek Bridge Demolished <b>st/ FL Highway N/B Side Se</b> WHSAB2, P8, P9 - pile cap & abutment wall	0%        0%        0%        22.5%        33.75%        0%        0%        0%        0%        0%        0%        0%        0%        0%        0%        0%        0%        0%        0%        45.45%	20 45 0 93 53 45 80 80 17 70 22 120 120	20 45 0 120 80 45 80 45 80 24 70 22 120 120	17-Nov-17 20-Aug-17 20-Jul-17 A 20-Jul-17 A 24-Oct-17 30-Aug-17 A 12-Oct-17 19-Aug-17 A 24-Oct-17	09-Dec-17 03-Oct-17 21-Aug-17 09-Dec-17 23-Oct-17 07-Dec-17 04-Dec-17 17-Jan-18 08-Sep-17 08-Dec-17 14-Sep-17 20-Mar-18 23-Oct-17 12-Sep-17	30 359 855 30 4 281 34 281 34 28 23 23 4 23 4 19 262				•	
Noise Barr           NB4310           NB4330           NB4330           NB4370           NB4430           NB4430           NB4480           NB4482           NB4485           NB4485           NB4620           ridge Con           www.Wo Hoj           General           wHS1105           wHS1140           TWSR-Wes           wHS1380           wHS1390	(Ch8000-8050) NB75 - backfilling (Ch8050-8090) NB75 - NB production (Ch8050-8090) NB75 structure complete NB75 Drainage Works <b>D90-8450)-FH N/B Side</b> <b>ier Works</b> NB77 - Footing & Wall Structure (Ch8090-8190) NB77 - Footing & Wall Structure (Ch8090-8190) NB77 - Footing & Wall Structure (Ch8290-8390) NB77 - Footing & Wall Structure (NB77/27 - 28, N1-N2) NB77 - piling (NB77/N1 - N2, 0.19m -24n0) (confirming design by NB77 - Footing & Wall Structure (NB77/27 - 28, N1-N2) NB77 - piling (NB77/32, S2- 32, 0.19m -14n0) & G35 (8nos) NB77 Drainage Works <b>struction</b> <b>p Shek Pedstrian &amp; Cycle Bri</b> W77A & W77B & backfilling work complete Existing Wo Hop Shek Bridge Demolished <b>st/ FL Highway N/B Side Ser</b> WHSAB2, P8, P9 - pile cap & abutment wall WHSAB2, P8, P9 - Backfilling (~3m)	0%       0%       0%       22.5%       33.75%       0%	20 45 0 93 53 45 80 80 17 70 22 120 22 120	20 45 0 120 80 45 80 45 80 24 70 22 120 22 120	17-Nov-17 20-Aug-17 20-Jul-17 A 20-Jul-17 A 20-Jul-17 A 24-Oct-17 30-Aug-17 12-Oct-17 15-Sep-17 19-Aug-17 A 24-Oct-17	09-Dec-17 03-Oct-17 21-Aug-17 09-Dec-17 23-Oct-17 07-Dec-17 04-Dec-17 17-Jan-18 08-Sep-17 08-Dec-17 14-Sep-17 20-Mar-18 23-Oct-17 12-Sep-17 13-Oct-17	30 359 855 30 4 281 34 28 23 23 4 23 23 4 23 4 19 262 262				φp Shek Bridge Demolish	ied
NB4250 NB4260 NB4600 NB4610 <b>NB77 (Ch.80</b> <b>NB77 (Ch.80</b> <b>NB4310</b> NB4330 NB4330 NB4330 NB4480 NB4482 NB4482 NB4485 NB4620 <b>ridge Con</b> <b>Sev Wo Ho</b> <b>General</b> WHS1105 WHS1140 <b>TWSR-Wes</b> WHS1380	(Ch8000-8050) NB75 - backfilling (Ch8050-8090) NB75 - NB production (Ch8050-8090) NB75 structure complete NB75 Drainage Works <b>D90-8450)-FH N/B Side</b> <b>ier Works</b> NB77 - Footing & Wall Structure (Ch8090-8190) NB77 - NB production (Ch8090-8190) NB77 - Footing & Wall Structure (Ch8190-8290) NB77 - Footing & Wall Structure (Ch8190-8290) NB77 - Footing & Wall Structure (Ch8290-8390) NB77 - piling (NB77/N1 - N2, 0.19m -24no) (confirming design by NB77 - piling (NB77/32, S2- 32, 0.19m -14no) & G35 (8nos) NB77 - piling (NB77/32, S2- 32, 0.19m -14no) & G35 (8nos) NB77 Drainage Works <b>struction</b> <b>p Shek Pedstrian &amp; Cycle Bri</b> W77A & W77B & backfilling work complete Existing Wo Hop Shek Bridge Demolished <b>st/ FL Highway N/B Side Se</b> WHSAB2, P8, P9 - pile cap & abutment wall	0%        0%        0%        22.5%        33.75%        0%        0%        0%        0%        0%        0%        0%        0%        0%        0%        0%        0%        0%        0%        45.45%	20 45 0 93 53 45 80 80 17 70 22 120 120	20 45 0 120 80 45 80 45 80 24 70 22 120 120	17-Nov-17 20-Aug-17 20-Jul-17 A 20-Jul-17 A 24-Oct-17 30-Aug-17 A 12-Oct-17 19-Aug-17 A 24-Oct-17	09-Dec-17 03-Oct-17 21-Aug-17 09-Dec-17 23-Oct-17 07-Dec-17 04-Dec-17 17-Jan-18 08-Sep-17 08-Dec-17 14-Sep-17 20-Mar-18 23-Oct-17 12-Sep-17	30 359 855 30 4 281 34 28 23 23 4 23 23 4 23 4 19 262 262				φp Shek Bridge Demolish	ied

	Activity Name	Dur. %		Original	Start	Finish Tota			
		Complete	Duration			Floa	at Aug	2017 Sep	Oct N
WHS2100	Shop Drawing preparation, submission & approval	0%	90	90	21-Aug-17	06-Dec-17 15	0		
WHS2110	Material procurement & testing	0%	60	60	25-Sep-17	06-Dec-17 15	0		
	anling Highway Section								
WHS1510	TTA for new WHS bridge submission & approval	0%	60	60	21-Aug-17	01-Nov-17 43	8		
WHS1520	Remove railing	0%	12	12	02-Nov-17	15-Nov-17 43	8		
WHS1530	Bridge floor marking	0%	6	6	16-Nov-17	22-Nov-17 43	8		
Demolition o	f Existing Wo Hop Shek Ped	strian & C	vcle Brid	ae		<u> </u>			
TWSR-East	FL Highway S/B Side Sect	ion							
WHS1840	Demolish existing WHS Footbridge abutment wall at W77A (Instructed	0%	20	20	21-Aug-17	12-Sep-17 19			
	Construction								
	Road Works								
RDZ41060	t FL Highway S/B Side Sect Construct Slip Rd Y - 1st Lane	10N 30%	63	90	20-Jul-17 A	04-Nov-17 6			
RDZ41070	(Ch8370-8650)(SA340) (Z4 Traffic diversion to slip rd Y - half	0%	4	4	06-Nov-17	09-Nov-17 6			
	lane(Z4 TTA-Stage 4)	070			00110717	00110111			
	d Utility Works DN900 Watermain								
DN1070	DN600 watermain laying (Ch8400 -	67.27%	36	110	14-Aug-17 A	30-Sep-17 49	8		
/O - Wall 76	8600) (W77A to								
Retaining Wall									
	FL Highway S/B Side Sect	ion							
W76A1050	Drainage work for Caltex access road	18%	123	150	20-Jul-17 A	17-Jan-18 26			
anling Hig	hway Construction	· · · · ·							
	Road Works								
TWSR-East RDZ41121	FL Highway S/B Side Sect Drainage work at central divider (at	ion 89.39%	19	179	01 Eob 17 A	11-Sep-17 22			
	NBZ2)			-					
RDZ41122	Construct FH S/B Lane 3 (at NBZ2)	0%	30	30	19-Oct-17	23-Nov-17 52			
RDZ41124	Construct FHS/B Lane 4 (at NBZ2)	0%	30	30	12-Sep-17	18-Oct-17 52			
RDZ41131	Drainage work at central divider (Ch8100-8600)	0%	150	150	12-Sep-17	15-Mar-18 22	2		
Other Work		·	,			· · · · · ·			
Retaining Wa									
	FL Highway S/B Side Sect		50	50	04.4 47				
RWZ4.1090	Backfilling (3-7m high) - RW77A (Ch.0-20)	0%	50	50		23-Oct-17 16			
RWZ4.1150	Backfilling (0-3m) - RW77A (Ch.92-120)	98.16%	3	163	01-Feb-17 A	23-Aug-17 16			
Retaining Wa									
TWSR-East RWZ4,1110	<b>FL Highway S/B Side Sect</b> Backfilling (0-3m) - RW77B (Ch		10	30	07 Aug 17 A	09-Sep-17 16			
	0-23)	40%	18		, , , , , , , , , , , , , , , , , , ,	·			
RWZ4.1130	Backfilling (3-4m high) - RW77B (Ch.23-75)	0%	35	35	11-Sep-17	23-Oct-17 16	j		
Retaining Wa		_							
	FL Highway S/B Side Sect Site Clearance			10					
RW74 0900		0%	12	12	10-Nov-17	23-Nov-17 6			
RWZ4.0900		0%	12	12	10-Nov-17	23-Nov-17 6			
Slope Works	3		12	12	10-Nov-17	23-Nov-17 6			
Slope Works			12 40	12 40	10-Nov-17 24-Oct-17	23-Nov-17 6 09-Dec-17 40			
Slope Works	s FL Highway S/B Side Sect	ion					5		
Slope Works TWSR-East S1040 S1050	S <b>FL Highway S/B Side Sect</b> Slope S54A-Cut ~4m Slope S54B-Cut ~5m	ion 0%	40	40	24-Oct-17	09-Dec-17 40	5		
Slope Works TWSR-East S1040 S1050 TCSS Works	S <b>FL Highway S/B Side Sect</b> Slope S54A-Cut ~4m Slope S54B-Cut ~5m	ion 0%	40	40	24-Oct-17	09-Dec-17 40	5		
Slope Works TWSR-East S1040 S1050 TCSS Works	S <b>FL Highway S/B Side Sect</b> Slope S54A-Cut ~4m Slope S54B-Cut ~5m	ion 0%	40	40	24-Oct-17	09-Dec-17 40	5 5		
Slope Works TWSR-East S1040 S1050 TCSS Works TCSS Pre-0	S <b>FL Highway S/B Side Sect</b> Slope S54A-Cut ~4m Slope S54B-Cut ~5m S Construction Works	ion 0% 0%	40 40	40 40	24-Oct-17 24-Oct-17	09-Dec-17 403 09-Dec-17 403	5		
Slope Works TWSR-East S1040 S1050 TCSS Works TCSS Pre-C TCSS0120	FL Highway S/B Side Sect         Slope S54A-Cut ~4m         Slope S54B-Cut ~5m         Some Source         Onstruction Works         Prepare Shop Drawing-TCSS         Shop Drawing Comment & Approval	ion	40 40 45	40 40 45	24-Oct-17 24-Oct-17 21-Aug-17	09-Dec-17 40: 09-Dec-17 40: 13-Oct-17 10			
Slope Works TWSR-East S1040 S1050 TCSS Works TCSS Pre-C TCSS0120 TCSS0130 TCSS0140	Siope S54A-Cut ~4m Slope S54A-Cut ~5m Sope S54B-Cut ~5m Sope S54B-Cut ~5m Prepare Shop Drawing-TCSS	ion 0% 0%	40 40 45 21	40 40 45 21	24-Oct-17 24-Oct-17 21-Aug-17 14-Oct-17	09-Dec-17 403 09-Dec-17 403 09-Dec-17 403 13-Oct-17 10 03-Nov-17 12		Image: second	
Slope Works TWSR-East S1040 S1050 TCSS Works TCSS Pre-( TCSS0120 TCSS0130	FL Highway S/B Side Sect         Slope S54A-Cut ~4m         Slope S54B-Cut ~5m         Some Star (Star (Sta	ion	40 40 45 21	40 40 45 21	24-Oct-17 24-Oct-17 21-Aug-17 14-Oct-17	09-Dec-17 403 09-Dec-17 403 13-Oct-17 10 03-Nov-17 12 24-Nov-17 10		27-Sep-17 ◆ Slow lane	footing - G34 (NB75)
Slope Works TWSR-East S1040 S1050 TCSS Works TCSS Pre-( TCSS0120 TCSS0130 TCSS0140 G34 TCSS1520	FL Highway S/B Side Sect         Slope S54A-Cut ~4m         Slope S54B-Cut ~5m         Some Struction Works         Prepare Shop Drawing-TCSS         Shop Drawing Comment & Approval         Revised & Re-submission TCSS         Shop Drawing         Slow lane footing - G34 (NB75)	ion 0% 0% 0% 0% 0%	40 40 45 21 18 0	40 40 45 21 18 0	24-Oct-17 24-Oct-17 21-Aug-17 14-Oct-17 04-Nov-17	09-Dec-17 403 09-Dec-17 403 13-Oct-17 10 03-Nov-17 12 24-Nov-17 10 27-Sep-17 223		27-Sep-17 ◆ Slow lane	footing - G34 (NB75)
Slope Works TWSR-East S1040 S1050 TCSS Works TCSS Pre-C TCSS0120 TCSS0130 TCSS0140 G34 TCSS1520 TCSS1520	FL Highway S/B Side Sect         Slope S54A-Cut ~4m         Slope S54B-Cut ~5m         Some Star (Star (Sta	ion 0% 0% 0% 0%	40 40 45 21 18	40 40 45 21 18	24-Oct-17 24-Oct-17 21-Aug-17 14-Oct-17	09-Dec-17 403 09-Dec-17 403 13-Oct-17 10 03-Nov-17 12 24-Nov-17 10		27-Sep-17 ◆ Slow lane	footing - G34 (NB75)
Slope Works TWSR-East S1040 S1050 TCSS Works TCSS Pre-C TCSS0120 TCSS0130 TCSS0140 G34 TCSS1520 TCSS1520 TCSS1530 G35	FL Highway S/B Side Sect         Slope S54A-Cut ~4m         Slope S54B-Cut ~5m         Sonstruction Works         Prepare Shop Drawing-TCSS         Shop Drawing Comment & Approval         Revised & Re-submission TCSS         shop Drawing         Slow lane footing - G34 (NB75)         Fast lane footing - G34 (CH7990, N/B)	ion 0% 0% 0% 0% 0% 0% 0%	40 40 45 21 18 0 30	40 40 45 21 18 0 30	24-Oct-17 24-Oct-17 21-Aug-17 14-Oct-17 04-Nov-17 19-Oct-17	09-Dec-17 403 09-Dec-17 403 09-Dec-17 403 13-Oct-17 10 03-Nov-17 12 24-Nov-17 10 27-Sep-17 223 23-Nov-17 183		27-Sep-17 ◆ Slow lane	footing - G34 (NB75)
Slope Works TWSR-East S1040 S1050 TCSS Works TCSS Pre-C TCSS0120 TCSS0130 TCSS0140 G34 TCSS1520 TCSS1520 TCSS1560	FL Highway S/B Side Sect         Slope S54A-Cut ~4m         Slope S54B-Cut ~5m         Sonstruction Works         Prepare Shop Drawing-TCSS         Shop Drawing Comment & Approval         Revised & Re-submission TCSS         shop Drawing         Slow lane footing - G34 (NB75)         Fast lane footing - G34 (CH7990,	ion 0% 0% 0% 0% 0%	40 40 45 21 18 0	40 40 45 21 18 0	24-Oct-17 24-Oct-17 21-Aug-17 14-Oct-17 04-Nov-17	09-Dec-17 403 09-Dec-17 403 13-Oct-17 10 03-Nov-17 12 24-Nov-17 10 27-Sep-17 223		27-Sep-17 ◆ \$low lane	footing - G34 (NB75)
Slope Works TWSR-East S1040 S1050 TCSS Works TCSS Pre-C TCSS0120 TCSS0130 TCSS0140 G34 TCSS1520 TCSS1520 TCSS1560 DS50	FL Highway S/B Side Sect         Slope S54A-Cut ~4m         Slope S54B-Cut ~5m         Sonstruction Works         Prepare Shop Drawing-TCSS         Shop Drawing Comment & Approval         Revised & Re-submission TCSS         shop Drawing         Slow lane footing - G34 (NB75)         Fast lane footing - G34 (CH7990, N/B)	ion 0% 0% 0% 0% 0%	40 40 45 21 18 0 30 5	40 40 45 21 18 0 30 5	24-Oct-17 24-Oct-17 21-Aug-17 14-Oct-17 04-Nov-17 19-Oct-17 21-Aug-17	09-Dec-17 403 09-Dec-17 403 09-Dec-17 403 13-Oct-17 10 03-Nov-17 12 24-Nov-17 10 27-Sep-17 223 23-Nov-17 183 25-Aug-17 40		27-Sep-17 ◆ \$low lane	footing - G34 (NB75)
Slope Works TWSR-East S1040 S1050 TCSS Works TCSS Pre-( TCSS0120 TCSS0130 TCSS0140 G34 TCSS1520 TCSS1520 G35 TCSS1560 DS50 TCSS1600	FL Highway S/B Side Sect         Slope S54A-Cut ~4m         Slope S54B-Cut ~5m         Somstruction Works         Prepare Shop Drawing-TCSS         Shop Drawing Comment & Approval         Revised & Re-submission TCSS         shop Drawing         Slow lane footing - G34 (NB75)         Fast lane footing - G34 (CH7990, N/B)         Fast lane footing - G35 (CH8410, N/B)         Slip road island footing - DS50 (CH7940, S/B)	ion 0% 0% 0% 0% 0% 0% 0%	40 40 45 21 18 0 30 5 30	40 40 45 21 18 0 30 5 30	24-Oct-17 24-Oct-17 21-Aug-17 14-Oct-17 04-Nov-17 19-Oct-17 21-Aug-17	09-Dec-17 403 09-Dec-17 403 09-Dec-17 403 13-Oct-17 10 03-Nov-17 12 24-Nov-17 10 27-Sep-17 223 23-Nov-17 183 25-Aug-17 40 23-Sep-17 293		27-Sep-17 ◆ Slow lane	footing - G34 (NB75)
Slope Works TWSR-East S1040 S1050 TCSS Works TCSS Pre-C TCSS0120 TCSS0130 TCSS0140 G34 TCSS1520 TCSS1520 TCSS1560 DS50	FL Highway S/B Side Sect         Slope S54A-Cut ~4m         Slope S54B-Cut ~5m         Sonstruction Works         Prepare Shop Drawing-TCSS         Shop Drawing Comment & Approval         Revised & Re-submission TCSS         Slow lane footing - G34 (NB75)         Fast lane footing - G34 (CH7990, N/B)         Fast lane footing - G35 (CH8410, N/B)         Slip road island footing - DS50	ion 0% 0% 0% 0% 0%	40 40 45 21 18 0 30 5	40 40 45 21 18 0 30 5	24-Oct-17 24-Oct-17 21-Aug-17 14-Oct-17 04-Nov-17 19-Oct-17 21-Aug-17	09-Dec-17 403 09-Dec-17 403 09-Dec-17 403 13-Oct-17 10 03-Nov-17 12 24-Nov-17 10 27-Sep-17 223 23-Nov-17 183 25-Aug-17 40		27-Sep-17 ◆ \$low lane	footing - G34 (NB75)
Slope Works TWSR-East S1040 S1050 TCSS Works TCSS Pre-( TCSS0120 TCSS0130 TCSS0140 G34 TCSS1520 TCSS1520 G35 TCSS1560 DS50 TCSS1600 TCSS1610 FVMS2 (De	FL Highway S/B Side Sect         Slope S54A-Cut ~4m         Slope S54B-Cut ~5m         Sonstruction Works         Prepare Shop Drawing-TCSS         Shop Drawing Comment & Approval         Revised & Re-submission TCSS         shop Drawing         Slow lane footing - G34 (NB75)         Fast lane footing - G34 (CH7990, N/B)         Fast lane footing - G35 (CH8410, N/B)         Slip road island footing - DS50 (CH7940, S/B)         Fast lane footing - DS50 (CH7940, S/B)         Ieted by RFI-138, Pending f	ion 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	40 40 45 21 18 0 30 5 30 5	40 40 45 21 18 0 30 5 30 5	24-Oct-17 24-Oct-17 21-Aug-17 14-Oct-17 04-Nov-17 19-Oct-17 21-Aug-17 21-Aug-17 12-Sep-17	09-Dec-17 403 09-Dec-17 403 09-Dec-17 403 13-Oct-17 10 03-Nov-17 12 24-Nov-17 10 27-Sep-17 223 23-Nov-17 183 25-Aug-17 407 23-Sep-17 293		27-Sep-17 ♦ Slow lane	footing - G34 (NB75)
Slope Works TWSR-East S1040 S1050 TCSS Works TCSS Pre-C TCSS0120 TCSS0130 TCSS0140 G34 TCSS1520 TCSS1520 G35 TCSS1560 DS50 TCSS1600 TCSS1610	FL Highway S/B Side Sect         Slope S54A-Cut ~4m         Slope S54B-Cut ~5m         Sonstruction Works         Prepare Shop Drawing-TCSS         Shop Drawing Comment & Approval         Revised & Re-submission TCSS         shop Drawing         Slow lane footing - G34 (NB75)         Fast lane footing - G34 (CH7990, N/B)         Slip road island footing - DS50 (CH7940, S/B)         Fast lane footing - DS50 (CH7940, S/B)	ion 0% 0% 0% 0% 0% 0% 0% 0% 0%	40 40 45 21 18 0 30 5 30	40 40 45 21 18 0 30 5 30 5 30	24-Oct-17 24-Oct-17 21-Aug-17 14-Oct-17 04-Nov-17 19-Oct-17 21-Aug-17 21-Aug-17 12-Sep-17	09-Dec-17 403 09-Dec-17 403 09-Dec-17 403 13-Oct-17 10 03-Nov-17 12 24-Nov-17 10 27-Sep-17 223 23-Nov-17 183 25-Aug-17 40 23-Sep-17 293		27-Sep-17 ◆ Slow lane	footing - G34 (NB7/5)

CHIU	U HING CONSTRUCTION AND TRANSPORTATION CO. LTD.			Rev	Dat	te
		med Duratio	on	00	28/02	
	rks Order Nos: CB128519-0 & CB128520-5			01	29/03	2.000
Proga		Path Activit		02	22/5/	17 ac
	3 months Rolling Program Early Sta Float = 3	art & Early weeks	rmsm		L	
	Week No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49		53 54 55	56 57	58 5	9 60
Act. No	Week Ending 225 34 3/1 3/8 3/25 4/ 4/8 4/15 4/2 4/29 5/6 5/1 5/10 5/10 5/10 5/10 5/10 5/10 5/10	2/3 2/10 2/17 2	24 3/3 3/10	3/17 3/24	3/31 4/7	4/14
	WO No. CB128520-5			_	$\square$	$\square$
1	Setting out and UU detection					$\square$
2						
	Construction of Footings ( 6 stages): (Assume 2 sections in one stage, 6 weeks cycle per					
	standard section)				$\square$	$\square$
3					$\square$	$\square$
4						$\square$
5						$\square$
6	Stage 4: NB74-1, Footing A (1 wk allowed for plate load test)				$\square$	
7	Stage 5: NB/4-8, & Footing B (1 wk allowed for plate load test)				$\square$	$\square$
8					$\square$	$\square$
	Submit workshop drawings for steelworks of					
9		ays				
10		Holidays				+
		Year		_	++-	+
11	Site installation of NB ( include steel posts and panels)	New Y				
	WO No. CB128519-0	Cunar ]				
12	Site installation of Covered Walkway					
13	Electrical Installation					
14	Allow for Works by Bus Companies					
15	Drainage Works					I
16	Footpath Construction     Image: Constru					
17	Cycle Track Modification nr Tai Hang				E	
18	Road surfacing					
19	Allow for UU laying ducts					Π
20	Allow for fixing street furnitures by C3/ LT				-	

### Cycle time for standard section :

Item	Activity	Approx Qty	Days for Construction ( Calendar Days)
1	Sheet-piling with struts	24 x 7 = 168M2	10 days
2	Excavation	12 x 6 x 6 =432 M	7 days
3	Rock Fill ( assumed)	12 x 2 = 24 M3	2 days
4	Blinding Layer		l day
5	Fwk-Rebar- Concreting	110 M 3	10 days **
6	Posts for Covered Walkway		7 days ##
7	Backfilling	290M 3	5 days
			Total = 42 days

### \*\* Breakdown of Item 5

	Base Slab calendar days	Stem calendar days
Fwk	1	2
Re-bar	1	3
Concreting	1	1
Remove Fwl		1
Total :	10 c	lays

### ## Breakdown of Item 6

	Posts calendar days	
Fwk	2	
Re-bar	3	
Concreting	1	
Kemove Fwk	1	
Total :	7	days

Appendix A

	De	escr	inti	on	
-					-
		nitial			
re	fer I	RE's	com	men	ts
dd -	aloto	load	tac	pro	mar
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APPENDIX C IMPLEMENTATION SCHEDULE OF ENVIRONMENTAL MITIGATION MEASURES (EMIS)

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

### Air Quality – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementat	tion Status
			HY/2012/06	02/HY/2015
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
	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
	Effective water sprays shall be used to control potential dust emission sources such as unpaved haul roads and active construction areas.		@	V
	All spraying of materials and surfaces shall avoid excessive water usage.		V	V
	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
	Materials shall be dampened, if necessary, before transportation.		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
	Vehicle washing facilities shall be provided to minimize the quantity of material deposited on public roads.		@	@

### Noise – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementat	ion Status
-			HY/2012/06	02/HY2015
Noise during construction	Use of silenced plant or plant equipped with mufflers or dampers in substitute of ordinary plant.	During construction	V	V
	Reduce the number of equipment and their percentage on-time.		V	V
	3.5 m and 5.5 m high temporary noise barrier at culvert construction work area (Figure 2a of the Environmental Permit).		V V V	N.A.
	3 m high temporary noise barrier along the northern edge of Bridge 12 at ground level (Figure 2b of the Environmental Permit).	-		N.A.
	2 m high temporary noise barrier along the northern edge of Bridge 12 at bridge level (Figure 2b of the Environmental Permit).			N.A.
	2.5 m high temporary noise barrier along Tai Wo Service Road West (Figure 2c of the Environmental Permit).		V	N.A.
	3.5m and 7m high temporary noise barrier along Tai Wo Services Road West near Tai Hang (Figure 2c of the Environmental Permit).		V	N.A.
	7 m high temporary noise barrier along Tai Wo Service Road West near Tai Wo Footbridge work area (Figure 2d of the Environmental Permit).		V	N.A.
	7 m high temporary noise barrier near Kiu Tau Footbridge work area (Figure 2d of the Environmental Permit).		V	N.A.
	2.5 m high temporary noise barrier near river diversion work area (Figure 2e of the Environmental Permit).		N.A.	N.A.

### Water Quality – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementat	ion Status
			HY/2012/06	02/HY/2015
Water quality during construction	<ul> <li>Demolition and reconstruction of bridges</li> <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	V	N.A.
	<ul> <li>Road Widening Works, Earthworks and Culvert Extension Works</li> <li>Wastewater generated from any concrete batching washdown of equipment or similar activities should be discharged into foul sewers, after the removal of settable 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 are 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 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>		©.	Q

### Waste – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementat	ion Status
			HY/2012/06	02/HY/2015
Waste management during construction	<ul> <li>General Waste</li> <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
	<ul> <li>Vegetation from site clearance</li> <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
	Demolition Wastes - Segregation of materials to facilitate disposal Appropriate stockpile management.		V	V
	<ul> <li>Excavated Materials</li> <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
	<ul> <li>Construction Wastes</li> <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
	<ul> <li>Bentonite Slurries</li> <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>		#	N.A.

<ul> <li>Chemical Wastes</li> <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 shall be collected by a licensed chemical waste collector.</li> </ul>	0	N.A.
<ul> <li>Municipal Wastes</li> <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

### Ecology – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementat	ion Status
			HY/2012/06	02/HY/2015
Ecology during construction	<ul> <li>Accurate Delineation of Works Area</li> <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
	<ul> <li>Vegetation Clearance</li> <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
	<ul> <li>Dust generation</li> <li>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:</li> <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>		@	Q
	<ul> <li>Surface Run-off</li> <li>In general, mitigation measures shall be in accordance with ProPECC PN1/94 on 'Construction Site Drainage'. Key measures include: <ul> <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> </li> </ul>		@	Q

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

Impact	Mitigation Measures	Timing	Responsibili	ty
			HY/2012/06	02/HY/2015
Landscape & Visual during construction	<ul> <li>Preservation of Existing Vegetation</li> <li>Trees identified for retention within the project limit would be protected during the works;</li> <li>The tree transplanting and planting works shall be implemented by approved Landscape Contractors.</li> </ul>	During construction		V
	<ul> <li>Temporary Works Areas</li> <li>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.</li> </ul>		V	V
	<ul> <li>Hoarding</li> <li>A hoarding would be erected where practicable in the most visually sensitive locations to screen the temporary construction works from the local VSRs.</li> </ul>		V	N.A.
worthy of retention engineering works.	<ul> <li>Top Soils</li> <li>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.</li> </ul>		#	N.A.
	<ul> <li>Protection of Important Landscape Features</li> <li>Important features such as temples, Island House and kilns within the study area, although remote from the proposed works retained and adequately protected.</li> </ul>		#	N.A.

Legend:

V = implemented;

x = not implemented;

@ = partially implemented;

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

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

# = to be implemented.

APPENDIX D SUMMARY OF ACTION AND LIMIT LEVELS

### Appendix D - Summary of Action and Limit Levels

Table 1 – Act	ion and I	imit Levels	for 1-hc	
	ion anu i			

Location	Action Level	Limit Level
AM2	317.8 μg/m3	500 μg/m3

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

Location	Action Level	Limit Level	
AM2	200.7 μg/m3	260 μg/m3	

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

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

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

APPENDIX E CALIBRATION CERTIFICATES OF MONITORING EQUIPMENTS



TISCH ENVIRONMENTAL, INC. 145 SOUTH MIAMI AVE VILLAGE OF CLEVES, OH 45002 513.467.9000 877.263.7610 TOLL FREE 513.467.9009 FAX

# ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Ma Operator		7 Rootsmeter Orifice I.I		438320 0988	Ta (K) - Pa (mm) -	295 - 754.38
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA	NA NA NA NA	1.00 1.00 1.00 1.00 1.00	1.3910 0.9810 0.8750 0.8330 0.6890	3.2 6.4 7.9 8.8 12.7	2.00 4.00 5.00 5.50 8.00

### DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9984 0.9942 0.9921 0.9910 0.9858	0.7178 1.0135 1.1338 1.1897 1.4307	1.4161 2.0027 2.2391 2.3484 2.8322		0.9957 0.9915 0.9894 0.9883 0.9831	0.7158 1.0107 1.1308 1.1865 1.4269	0.8844 1.2507 1.3983 1.4666 1.7687
Qstd slop intercept coefficie y axis =	(b) = ent (r) =	1.98425 -0.00930 0.99998 Pa/760) (298/2	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Qa slope intercept coefficie v axis =	z (b) =	1.24250 -0.00581 0.99998

#### CALCULATIONS

Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta)
Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa] Qa = Va/Time

For subsequent flow rate calculations:

Qstd =  $1/m\{ [SQRT(H2O(Pa/760)(298/Ta))] - b \}$ Qa =  $1/m\{ [SQRT H2O(Ta/Pa)] - b \}$ 

# AECOM

# <u>Total Suspended Particulates (TSP) Sampler</u> <u>Field Calibration Report</u>

Station F	Fanling Government Secondary School (AM2)	Operator:	Shum Kam Yuen
Date:	17-Jul-17	Next Due Date:	17-Sep-17
Model No:	TE-5170	Verified Against:	O.T.S 988
Equipment No.:	A-001-74T	Expiration Date:	22-May-2018

Ambient Condition						
Temperature, Ta	301.0	Kelvin	Pressure, Pa	755.4	mmHg	

Orifice Transfer Standard Information						
Equipment No .:	988	Slope, mc	1.98425	Intercept, bc	-0.0093	
Last Calibration Date:	22-May-17	mc x Qstd + bc = $[H x (Pa/760) x (298/Ta)]^{1/2}$				
Next Calibration Date:	22-May-18	1	$\operatorname{mc} x \operatorname{Qsta} + \operatorname{bc} = [\operatorname{H} x (\operatorname{Pa})]$	00) x (298/1a)]		

		Calibration of	<b>TSP Sampler</b>		
Calibration Point	H in. of water	[H x (Pa/760) x (298/Ta)] <sup>1/2</sup>	Qstd (m <sup>3</sup> /min) X - axis	W in. of oil	$\begin{bmatrix} \Delta W \times (Pa/760) \times (298/Ta) \end{bmatrix}^{1/2}$ <b>Y-axis</b>
1	7.1	2.64	1.34	5.1	2.24
2	5.9	2.41	1.22	4.3	2.06
3	4.5	2.10	1.07	3.3	1.80
4	3.3	1.80	0.91	2.4	1.54
5	2.4	1.54	0.78	1.6	1.25
By Linear Regr	ession of Y on X	<u> </u>			
Slope, mw =	1.7482	_	Intercept, bw =	:	-0.0821
Correlation Coefficient* =		0.9979			

Set Point Calculation
From the TSP Field Calibration Curve, take $Qstd = 1.21 \text{ m}^3/\text{min}$ (43 CFM)
From the Regression Equation, the "Y" value according to
$m x Qstd + b = [W x (Pa/760) x (298/Ta)]^{1/2}$ Therefore, Set Point W = (m x Qstd + b) <sup>2</sup> x (760 / Pa) x (Ta / 298) = 4.20
*If Correlation Coefficient < 0.990, check and recalibrate again.

QC Reviewer:	WS	CHAN	Signature:	RI	Date: _1	7/7/17

Remarks:

### EQUIPMENT CALIBRATION RECORD

Type:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3
Equipment No.:	A.005.07a
Sensitivity Adjustment Scale Setting:	557 CPM

Operator:

Mike Shek (MSKM)

### Standard Equipment

Equipment:	Rupprecht	& Patashnick TEOM®				
Venue: Cyberport (Pui Ying Secondary School)						
Model No.:	Series 1400					
Serial No:	Control:	140AB219899803				
	Sensor:	1200C143659803	Ko:	12500		
Last Calibration Date*:	6 May 2017					

\*Remarks: Recommended interval for hardware calibration is 1 year

#### **Calibration Result**

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration):

557 CPM 557 CPM

Hour	our Date Time (dd-mm-yy)		е	Ambient Condition		Concentration <sup>1</sup> (mg/m <sup>3</sup> )	Total Count <sup>2</sup>	Count/ Minute <sup>3</sup>
				Temp (°C)	R.H. (%)	Y-axis		X-axis
1	06-05-17	12:30 -	13:30	27.5	78	0.04741	1894	31.57
2	06-05-17	13:30 -	14:30	27.6	78	0.04823	1933	32.22
3	06-05-17	14:30 -	15:30	27.6	79	0.04968	1987	33.12
4	06-05-17	15:30 -	16:30	27.6	79	0.04785	1915	31.92

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X	
Slope (K-factor):	0.0015
Correlation coefficient:	0.9957
Validity of Calibration Record:	6 May 2018

Remarks:

			/		
QC Reviewer:	YW Fung	Signature:	1	Date:	08 May 2017

### EQUIPMENT CALIBRATION RECORD

Type:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3
Equipment No.:	A.005.09a
Sensitivity Adjustment Scale Setting:	797 CPM

Operator:

Mike Shek (MSKM)

### Standard Equipment

Equipment:	Rupprecht	& Patashnick TEOM®					
Venue:	Cyberport (Pui Ying Secondary School)						
Model No.:	Series 140						
Serial No:	Control: 140AB219899803						
	Sensor:	1200C143659803	Ko:	12500			
Last Calibration Date*:	6 May 201	7					

\*Remarks: Recommended interval for hardware calibration is 1 year

#### **Calibration Result**

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration):

797 CPM 797 CPM

Hour	Date (dd-mm-yy)	Time		Ambient Condition		Concentration <sup>1</sup> (mg/m <sup>3</sup> )	Total Count <sup>2</sup>	Count/ Minute <sup>3</sup>	
					Temp (°C)	R.H. (%)	Y-axis		X-axis
1	06-05-17	12:00	-	13:00	27.5	78	0.04715	1881	31.35
2	06-05-17	13:00	-	14:00	27.6	78	0.04843	1939	32.32
3	06-05-17	14:00	-	15:00	27.6	79	0.04987	1992	33.20
4	06-05-17	15:00	-	16:00	27.6	79	0.04794	1916	31.93

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X		
Slope (K-factor):	0.0015	
Correlation coefficient:	0.9961	
Validity of Calibration Record:	6 May 2018	

Remarks:	marks:				
QC Reviewer:	YW Fung	Signature:	Y/	Date:	08 May 2017



### 綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

香港黄竹坑道37號利達中心12樓 12/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. E-mail: smec@cigismec.com Website: www.cigismec.com Tel: (852) 2873 6860 Fax: (852) 2555 7533



N.009.04

## CERTIFICATE OF CALIBRATION

Certificate No.: 17CA0407 01 2 Page of 1 Item tested Description: Sound Level Meter (Type 1) Microphone Manufacturer: **B** & K B&K Type/Model No .: 2238 4188 Serial/Equipment No .: 2285692 2250455 Adaptors used: Item submitted by Customer Name: AECOM ASIA CO., LTD. Address of Customer: Request No .: Date of receipt: 07-Apr-2017 Date of test: 10-Apr-2017 Reference equipment used in the calibration Expiry Date: Description: Model: Serial No. Traceable to: Multi function sound calibrator B&K 4226 2288444 18-Jun-2017 CIGISMEC Signal generator DS 360 33873 18-Apr-2017 CEPREL Signal generator DS 360 61227 18-Apr-2017 CEPREI Ambient conditions Temperature: 22 ± 1 °C Relative humidity: 50 ± 10 % Air pressure: 1010 ± 5 hPa

#### **Test specifications**

- 1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- 2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.
- 3, The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

#### **Test results**

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory: Date: Huang Jian Min/Feng Jun Qi

Souther Contracting Contracti

**Comments:** The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

11-Apr-2017

© Soils & Materials Engineering Co., Ltd.

Form No.CARP152-1/Issue 1/Rev.C/01/02/2007

Company Chop:



### 綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

香港黄竹坑道37號利達中心12樓 12/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. E-mail: smec@cigismec.com Website: www.cigismec.com

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2

### **CERTIFICATE OF CALIBRATION**

(Continuation Page)

Certificate No.: 17CA0407 01

2 of

Page

#### 1 **Electrical Tests**

The electrical tests were perfomed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

<b>T</b> = 4			Expanded	Coverage
Test:	Subtest:	Status:	Uncertanity (dB)	Factor
Self-generated noise	А	Pass	0.3	
	С	Pass	1.0	2.1
	Lin	Pass	2.0	2.2
Linearity range for Leq	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
Frequency weightings	A	Pass	0.3	
	С	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 <sup>3</sup> at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/10 <sup>4</sup> at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

#### 2, Acoustic tests

The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

Test:	Subtest	Status	Expanded Uncertanity (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
	Weighting A at 8000 Hz	Pass	0.5	

#### 3, Response to associated sound calibrator

#### N/A

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

	7	- End -	i	
Calibrated by:	4	Checked by:	L	
	Lai Sheng Jie		Lam Tze Wai	
Date:	10-Apr-2017	Date:	11-Apr-2017	

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

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Form No.CARP152-2/Issue 1/Rev.C/01/02/2007



#### 综合試驗 有限公司 SOILS & MATERIALS ENGINEERING CO., LTD. 香港黄竹坑道37號利達中心12樓 12/E Leader Centre 37 Wong Chuk Hang Road Aberdeen Hang

12/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. E-mail: smec@cigismec.com Website: www.cigismec.com Tel: (852) 2873 6860 Fax: (852) 2555 7533



## CERTIFICATE OF CALIBRATION

Certificate No.:	16CA1201 01		Page:	1	of	2
Item tested						
Description: Manufacturer: Type/Model No.: Serial/Equipment No.: Adaptors used:	Acoustical Calibra Rion Co., Ltd. NC-73 10307223 -	(Class 1) $(N.004.08)$				
Item submitted by						
Curstomer: Address of Customer: Request No.: Date of receipt:	AECOM ASIA CC - - 01-Dec-2016	). LTD.				
Date of test:	05-Dec-2016					
Reference equipment	used in the calib	oration				
Description: Lab standard microphone Preamplifier Measuring amplifier Signal generator Digital multi-meter Audio analyzer Universal counter	Model: B&K 4180 B&K 2673 B&K 2610 DS 360 34401A 8903B 53132A	Serial No. 2412857 2239857 2346941 61227 US36087050 GB41300350 MY40003662	Expiry Date: 14-Apr-2017 28-Apr-2017 26-Apr-2017 18-Apr-2017 18-Apr-2017 19-Apr-2017 19-Apr-2017		raceabl CL EPREI EPREI EPREI EPREI EPREI EPREI	e to:
Ambient conditions						
Temperature: Relative humidity: Air pressure:	22 ± 1 °C 55 ± 10 % 1005 ± 5 hPa					

#### **Test specifications**

- 1, The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.
- 2, The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

#### **Test results**

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942: 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

Details of the performed measurements are presented on page 2 of this certificate.

**Comments:** The results reported in this certificate refer to the conditon of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

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Form No CARP156-1/Issue 1/Rev.D/01/03/2007



### 綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

香港黃竹坑道3'7號利達中心12樓 12/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. E-mail: smec@cigismec.com Website: www.cigismec.com Tel: (852) 2873 6860 Fax: (852) 2555 7533



## **CERTIFICATE OF CALIBRATION**

(Continuation Page)

Certificate No.:

16CA1201 01

Page: 2 of 2

01 2

#### 1, Measured Sound Pressure Level

The output Sound Pressure Level in the calibrator head was measured at the setting and frequency shown using a calibrated laboratory standard microphone and insert voltage technique. The results are given in below with the estimated uncertainties.

Frequency Shown Hz	Output Sound Pressure Level Setting dB	Measured Output Sound Pressure Level	Estimated Expanded Uncertainty
1000	94.00	dB 94.22	dB 0.10

#### 2, Sound Pressure Level Stability - Short Term Fluctuations

The Short Term Fluctuations was determined by measuring the maximum and minimum of the fast weighted DC output of the B&K 2610 measuring amplifier over a 20 second time interval as required in the standard. The Short Term Fluctuation was found to be:

At 1000 Hz	STF = 0.002 dB
Estimated expanded uncertainty	0 005 dB

#### 3, Actual Output Frequency

The determination of actual output frequency was made using a B&K 4180 microphone together with a B&K 2673 preamplifier connected to a B&K 2610 measuring amplifier. The AC output of the B&K 2610 was taken to an universal counter which was used to determine the frequency averaged over 20 second of operation as required by the standard. The actual output frequency at 1 KHz was:

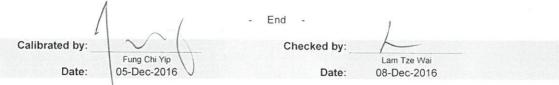
At 1000 Hz	Actual Frequency = 986.6 Hz	
Estimated expanded uncertainty	0.1 Hz	Coverage factor k = 2.2

#### 4, Total Noise and Distortion

For the Total Noise and Distortion measurement, the unfiltered AC output of the B&K 2610 measuring amplifier was connected to an Agilent Type 8903 B distortion analyser. The TND result at 1 KHz was:

At 1000 Hz	TND = 0.5 %
Estimated expanded uncertainty	0.7 %

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.



The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

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APPENDIX F EM&A MONITORING SCHEDULES

### Contract No. HY/2012/06 Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange Impact Monitoring and Audit Schedule for August 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Aug	2-Aug	3-Aug	4-Aug	5-Aug
			1-hr TSP			
			24-hr TSP			
			Noise			
			Site Audit			
6-Aug	7-Aug	8-Aug	9-Aug	10-Aug	11-Aug	12-Aug
		1-hr TSP				
		24-hr TSP				
		Noise				
		Site Audit				
13-Aug	14-Aug	15-Aug	16-Aug	17-Aug	18-Aug	19-Aug
	1-hr TSP					1-hr TSP
	24-hr TSP					24-hr TSP
	Noise					
				Site Audit		
20-Aug	21-Aug	22-Aug	23-Aug	24-Aug	25-Aug	26-Aug
					1-hr TSP	
					24-hr TSP	
					Noise	
		Site Audit				
27-Aug	28-Aug	29-Aug	30-Aug	31-Aug		
				1-hr TSP		
				24-hr TSP		
				Noise		
		Site Audit				

### Contract No. HY/2012/06 Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange Tentative Impact Monitoring and Audit Schedule for September 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1-Sep	2-Sep
3-Sep	4-Sep	5-Sep	6-Sep	7-Sep	8-Sep	9-Sep
			1-hr TSP			
			24-hr TSP			
			Noise			
		Site Audit				
10-Sep	11-Sep	12-Sep	13-Sep	14-Sep	15-Sep	16-Sep
		1-hr TSP				
		24-hr TSP				
		Noise				
				Site Audit		
17-Sep	18-Sep	19-Sep	20-Sep	21-Sep	22-Sep	23-Sep
	1-hr TSP					1-hr TSP
	24-hr TSP					24-hr TSP
	Noise					
		Site Audit				
24-Sep	25-Sep	26-Sep	27-Sep	28-Sep	29-Sep	30-Sep
					1-hr TSP	
					24-hr TSP	
					Noise	
		Site Audit				

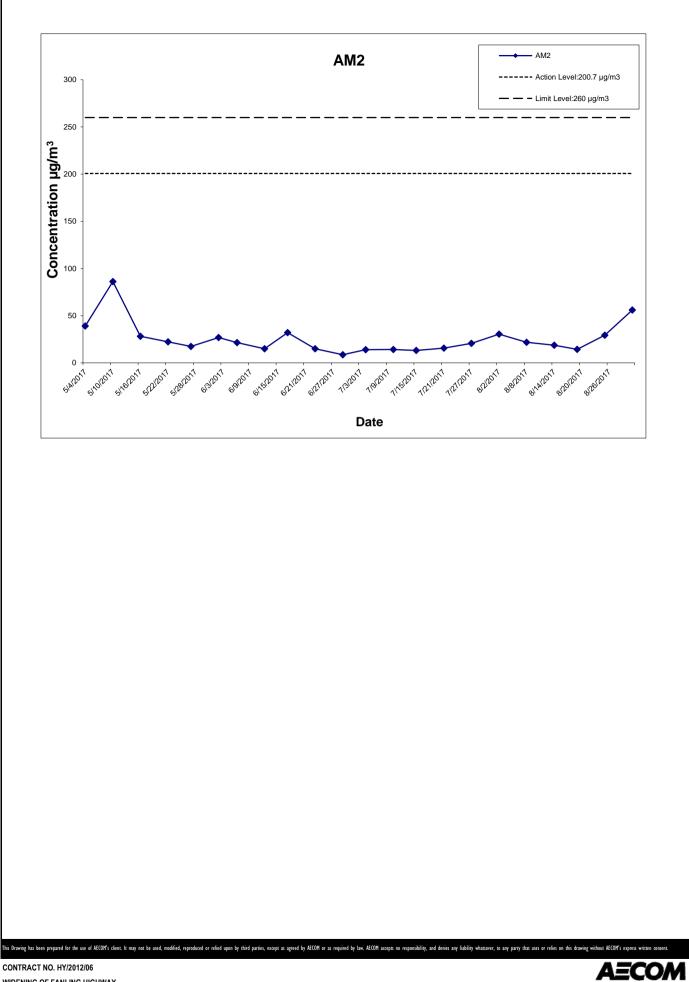
The schedule is subject to change due to unforeseeable circumstances (e.g. adverse weather, etc)

APPENDIX G IMPACT AIR QUALITY MONITORING RESULTS AND THEIR GRAPHICAL PRESENTATION

### Appendix G Impact Air Quality Monitoring Results

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

Date	Weather	Air	Atmospheric	Flow Rate	e (m <sup>3</sup> /min.)	Av. flow	Total vol.	Filter W	/eight (g)	Particulate	Elaps	e Time	Sampling	Conc.	Action Level	Limit Level
	Condition	Temp. (°C	Pressure(hPa)	Initial	Final	(m³/min)	(m <sup>3</sup> )	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µg/m³)	(µq/m <sup>3</sup> )	(µg/m <sup>3</sup> )
2-Aug-17	Sunny	29.3	1002.2	1.314	1.314	1.314	1892.2	2.5647	2.6223	0.0576	9042.02	9066.02	24.00	30.4	200.7	260
8-Aug-17	Sunny	30.4	1006.6	1.314	1.314	1.314	1892.2	2.7971	2.8382	0.0411	9066.02	9090.02	24.00	21.7	200.7	260
14-Aug-17	Rainy	29.9	1008.8	1.314	1.314	1.314	1892.2	2.7728	2.8080	0.0352	9090.02	9114.02	24.00	18.6	200.7	260
19-Aug-17	Cloudy	30.6	1009.8	1.314	1.314	1.314	1892.2	2.7815	2.8083	0.0268	9114.02	9138.02	24.00	14.2	200.7	260
25-Aug-17	Sunny	29.2	1008.3	1.314	1.314	1.314	1892.2	2.8625	2.9178	0.0553	9138.02	9162.02	24.00	29.2	200.7	260
31-Aug-17	Rainy	28.9	1007.3	1.314	1.314	1.314	1892.2	2.8290	2.9349	0.1059	9162.02	9186.02	24.00	56.0	200.7	260
													Average	28.4		
													Min	14.2		
													Max	56.0		



WIDENING OF FANLING HIGHWAY

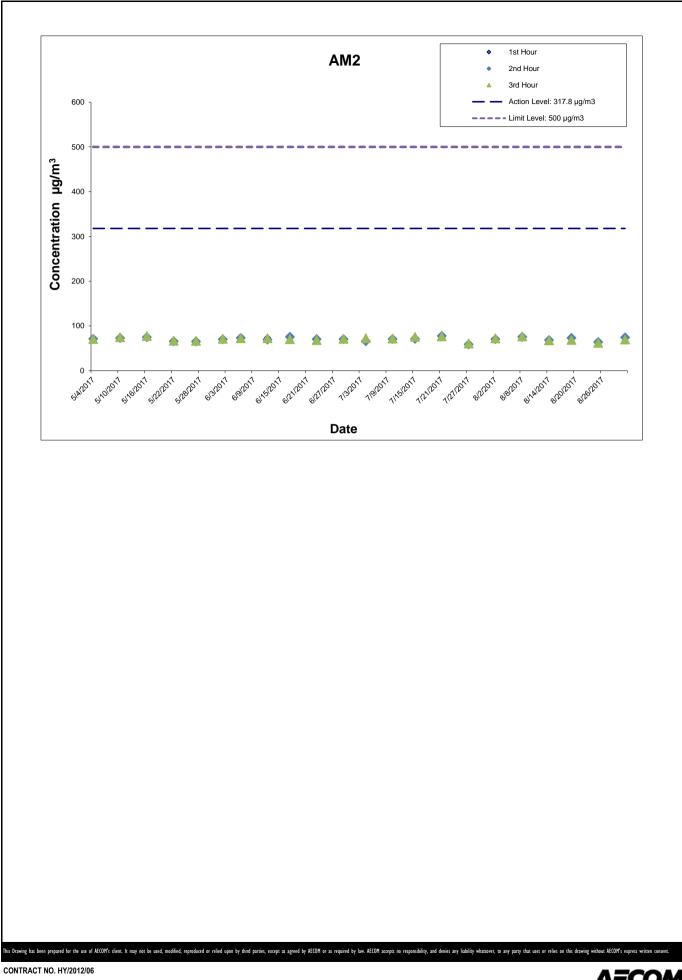
- TAI HANG TO WO HOP SHEK INTERCHANGE

Date: Sep-17

### Appendix G Impact Air Quality Monitoring Results

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

	Start	1st Hour	2nd Hour	3rd Hour	
	Time	Conc.	Conc.	Conc.	
Date	(hh:mm)	(µg/m <sup>3</sup> )	(µg/m³)	(µg/m³)	
2-Aug-17	13:45	72.6	70.4	72.2	
8-Aug-17	13:30	72.7	75.6	76.6	
14-Aug-17	13:03	67.1	68.2	67.8	
19-Aug-17	13:30	71.5	73.2	68.5	
25-Aug-17	13:08	62.1	63.7	62.2	
31-Aug-17	14:05	73.6	74.2	69.7	
			Average	70.1	
			Min	62.1	
			Max	76.6	



WIDENING OF FANLING HIGHWAY

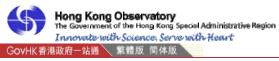
- TAI HANG TO WO HOP SHEK INTERCHANGE

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Graphical Presentation of Impact 1-hour TSP Monitoring Results

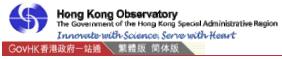
Sep-17

APPENDIX H METEOROLOGICAL DATA FOR THE REPORTING MONTH





Home	_	Daily	<b>Extrac</b>	t of N	<b>leteoro</b>	ogical	Observa	tions . A	August 2	017 -
What's new	Back					Tai P		,		-
About us				Zoor 201	Month		0			
HKO Side Lights										
Our Services		Mean		Tempera	r	Mean	Mean	Total	Prevailing	Mean
Visitors Figures	Day	Pressure	Absolute Daily	Mean	Absolute Daily	Dew Point	Relative Humidity	Rainfall	Wind Direction	Wind Speed
Press releases		(hPa)	Max	(deg. C)	Min	(deg. C)	(%)	(mm)	(degrees)	(km/h)
Weather Note (Chinese)	01	1001 0	(deg. C)	20.4	(deg. C)	27.0	0.0	* * *	* * *	***
Today's Weather	01	1001.2	33.5 29.9	30.4	28.9 25.9	27.0 26.6	82 93	***	***	***
Warnings	02	1002.3	29.9	27.8	25.9	26.0	93	***	***	***
Local Weather	03	1001.9	29.3	27.4	25.9	25.8	91	***	***	***
Observations	05	1005.7	31.6	29.1	26.9	26.7	87	***	***	***
Weather Forecast	06	1006.3	34.2	30.1	27.0	26.0	79	* * *	***	***
Weather Monitoring	07	1006.1	34.0#	30.3	27.8#	26.0	78	* * *	***	***
Imagery	08	1006.5	32.9	30.5	28.6	26.2	78	* * *	***	***
Computer Forecast	09	1006.0	32.0	29.5	27.7	26.2	83	* * *	* * *	***
Products	10	1006.1#	29.5#	28.3#	26.4#	26.4#	90#	* * *	***	***
MyObservatory	11	1007.6#	32.2#	30.5#	29.2#	26.1#	77#	* * *	* * *	***
Met on Map	12	1009.3#	32.7#	30.1#	28.6#	25.4#	76#	* * *	***	***
Tropical Cyclones	13	1009.3	32.8#	29.9	27.9#	25.3	77	* * *	* * *	***
Aviation Weather	14	1008.9	32.6#	29.8	27.6#	25.3	77	* * *	* * *	***
Services	15	1008.3	33.3#	29.7	26.6#	24.5	75	***	***	***
Marine Meteorological	16	1008.3	32.0#	29.1	26.5#	25.1	80	* * *	***	***
Services	17	1009.2	32.9#	29.2	26.2#	25.0	79	* * *	* * *	***
Weather Information for	18	1010.5	32.3#	28.9	26.4#	26.1	85	***	* * *	***
Sports	19	1010.1#	32.8#	29.5#	26.4#	25.9#	82#	***	* * *	***
Weather Information for	20	1007.0	35.2 35.5	30.3	26.4 27.0	24.5 25.8	73 74	***	***	***
Communities	21 22	999.9	35.5	31.1 30.2	27.0	25.8	81	***	***	***
China Weather	22	999.9	28.7#	26.8	27.3#	26.5	81 91	***	***	***
World Weather	23	1008.0	30.6#	28.8	27.3#	25.1	87	***	***	***
Climatological Information	25	1008.6#	30.3#	28.2#	26.6#	26.0#	88#	***	***	***
Services	26	1006.8	33.2#	28.9	25.7#	24.7	79	***	* * *	***
> Climate Watch	27	1005.4#	26.8#	25.6#	24.7#	24.8#	96#	***	* * *	***
> Climate Statistics	28	1010.2	27.0#	25.1	24.2#	24.8	98	* * *	* * *	***
> Climate Prediction	29	1010.1	32.6#	28.1	23.7#	24.8	83	***	* * *	***
> Climate Knowledge	30	1008.2	33.0#	29.0	25.5#	25.2	81	* * *	* * *	***
> Need More	31	1007.3	33.4#	28.5	25.3#	24.9	82	***	* * *	***
Information?										
> Global Climate	*** ur	navailable								
Services										
> Other Useful Links	# data	incomplete								
Climate Forecast	Rainfa	all measured	in increment	of 0.5 m	m. Amount c	of < 0.5 mm	cannot be det	ected		
Climate Change			- I Driver version							
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Tsunamis										
Astronomy, Space										
Weather and										
Geomagnetism										
Time and Calendar										
Radiation Monitoring,										
Assessment and										
Protection										
Educational Resources										
Euucalional Resources										





Home What's new		Daily	<b>Extrac</b>	t of N	<b>Ieteoro</b>	logical	Observa	tions .	August 2	017 -
	Back					'ai Mei		,	8	
About us				7			IWI			
HKO Side Lights					7 🗸 Month [					
Our Services		Mean		Tempera		Mean	Mean	Tatal	Prevailing	Mean
Visitors Figures	Day	Pressure	Absolute Daily	Mean	Absolute Daily	Dew Point	Relative Humidity	Total Rainfall	Wind Direction	Wind Speed
Press releases		(hPa)	Max	(deg. C)	Min	(deg. C)	(%)	(mm)	(degrees)	(km/h)
Weather Note (Chinese)	01	* * *	(deg. C)		(deg. C)	***	* * *		0.40	
Today's Weather	01	***	32.2	30.2	28.6	***	***	0.0	240	11.7
Warnings	02	***	32.0 30.4#	28.3 27.5	26.2 25.1#	***	***	11.5	050	5.8
Local Weather	03	***	30.0#	27.5	25.1#	***	***	2.0	040	6.4
Observations	05	***	34.0	29.8	27.2	***	***	0.0	140	4.8
Weather Forecast	06	***	34.4#	30.2	27.5#	***	***	0.0	180	5.3
Weather Monitoring	07	* * *	34.0#	30.3	27.8#	***	***	0.0	260	14.7
Imagery	08	* * *	32.5	30.2	28.2	***	***	2.0	230	16.2
Computer Forecast	09	* * *	30.4	28.9	27.1	***	***	9.5	230	16.4
Products	10	* * *	30.8#	28.7	26.0#	***	***	60.5	250	15.2
MyObservatory	11	* * *	33.0	30.0	28.0	***	* * *	0.0	250	16.1
Met on Map	12	***	32.7#	29.9	28.1#	***	***	0.0	260	16.3
Tropical Cyclones	13	***	33.0	29.7	27.5	***	***	0.0	240	16.3
Aviation Weather	14	***	33.1#	29.7	27.3#	***	* * *	0.0	230	14.1
Services	15	***	33.1#	29.6	26.9#	***	***	0.0	230	10.2
Marine Meteorological	16	***	34.6#	29.1	27.1#	***	***	7.5	270	5.3
Services	17	***	34.8#	29.9	26.7#	***	***	0.0	140	4.3
Weather Information for	18	* * *	34.5#	30.0	27.0#	* * *	* * *	0.0	140	3.7
Sports	19	***	34.7	30.5 30.8	27.4	***	* * *	0.0	080 250	4.5
Weather Information for	20 21	***	35.7	30.8	27.4	***	***	0.0	250	7.2
Communities	21	***	36.4	30.4	27.3	***	***	2.5	050	11.7
China Weather	22	***	29.0#	26.4	20.1	***	***	63.0	030	33.6
World Weather	23	***	32.0	28.4	26.5	***	***	2.5	140	13.3
Climatological Information	25	***	33.0#	28.5	26.5#	***	***	0.0	060	12.4
Services	26	* * *	33.7	28.9	24.7	***	* * *	18.0	050	17.1
> Climate Watch	27	***	26.1#	25.1	24.2#	***	* * *	155.5	150	36.5
> Climate Statistics	28	* * *	26.0	25.0	24.4	***	***	66.0	050	8.5
> Climate Prediction	29	* * *	32.1	27.7	23.7	***	* * *	0.0	270	5.6
> Climate Knowledge	30	* * *	34.1	29.1	26.0	***	* * *	0.0	050	5.2
> Need More	31	* * *	34.0#	28.8	26.3#	***	* * *	1.5	060	3.9
Information?										
> Global Climate	*** ur	navailable								
Services	# data	in a annulata								
> Other Useful Links	# data	incomplete								
Climate Forecast	Rainfa	Ill measured i	n increment	of 0.5 m	m. Amount o	of < 0.5 mm	cannot be de	tected		
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Earthquakes and										
Tsunamis										
Astronomy, Space										
Weather and										
Geomagnetism										
Time and Calendar										
Radiation Monitoring,										
Assessment and										
Protection										
Educational Resources										

APPENDIX I IMPACT DAYTIME CONSTRUCTION NOISE MONITORING RESULTS AND THEIR GRAPHICAL PRESENTATION

#### Appendix I Impact Daytime Construction Noise Monitoring Results

### Location : M2 (West Tai Wo - Free Field)

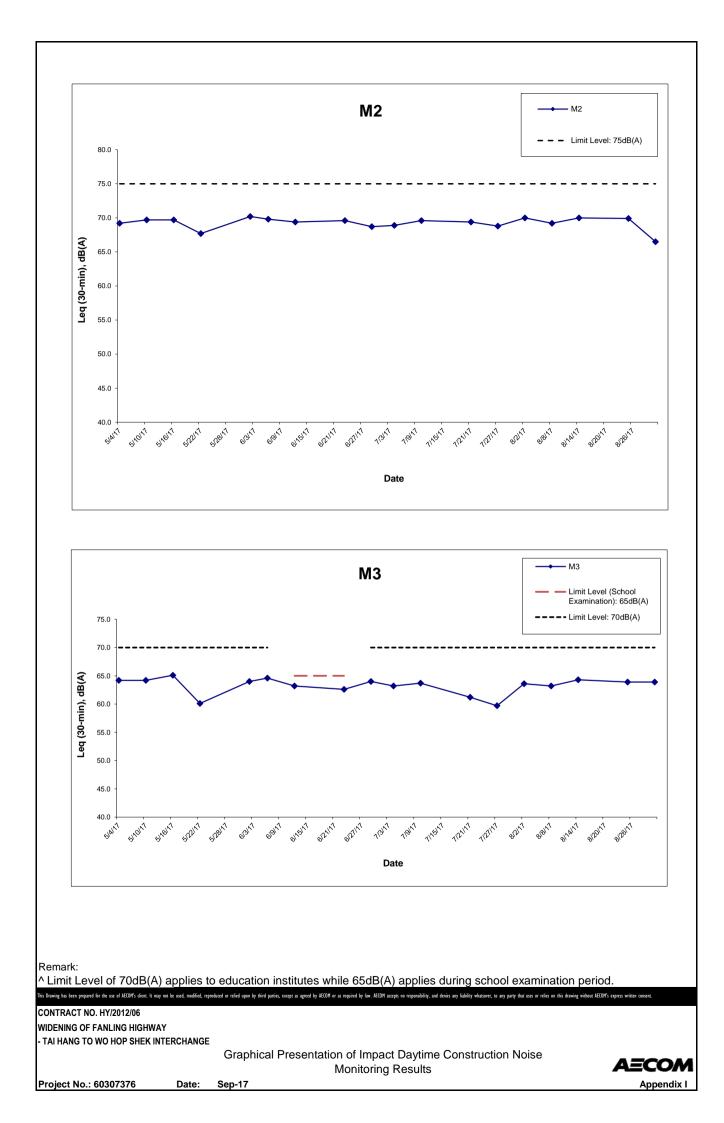
Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

	Meas	sured Noise Lev	Limit Level,	Exceedance		
Date	Start Time	Leq*	L10*	L90*	dB(A)	(Y/N)
2-Aug-17	13:00	70.0	73.6	66.2	75	N
8-Aug-17	14:20	69.2	71.0	66.7	75	N
14-Aug-17	14:17	70.0	72.0	66.0	75	N
25-Aug-17	14:01	69.9	71.0	66.0	75	N
31-Aug-17	15:05	66.5	68.1	63.6	75	N
	Min	66.5	68.1	63.6		
	Max	70.0	73.6	66.7		
	Average	69.3	71.5	65.8		

# Location : M3 (Fanling Government Secondary School- Façade) Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

	Meas	sured Noise Lev	Limit Level,	Exceedance		
Date	Start Time	Leq	L10	L90	dB(A)^	(Y/N)
2-Aug-17	13:45	63.6	67.2	58.7	70	N
8-Aug-17	13:35	63.2	64.8	61.6	70	N
14-Aug-17	13:03	64.3	65.5	61.0	70	N
25-Aug-17	13:08	63.9	65.5	60.5	70	N
31-Aug-17	14:10	63.9	65.4	61.1	70	N
	Min	63.2	64.8	58.7		
	Max	64.3	67.2	61.6		
	Average	63.8	65.8	60.7		

\* +3dB(A) Façade effect correction included
 ^ Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.



APPENDIX J EVENT ACTION PLAN

# Appendix J – Event Action Plan

## Event / Action Plan for Air Quality

Event	Action			
	ET Leader	IEC	ER	Contractor
Action Level	·	•		·
Exceedance for one sample	<ol> <li>Identify source;</li> <li>Inform IEC and ER;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to dailv.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method.</li> </ol>	1. Notify Contractor.	<ol> <li>Rectify any unacceptable practice;</li> <li>Amend working methods if appropriate.</li> </ol>
Exceedance for two or more consecutive samples	<ol> <li>Identify source;</li> <li>Inform IEC and ER;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Discuss with IEC and Contractor on remedial actions required;</li> <li>If exceedance continues, arrange meeting with IEC and ER;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise Implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol>	<ol> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol>

# Event / Action Plan for Air Quality

Event		Actior	ı	
Action Level	ET Leader	IEC	ER	Contractor
Limit Level	·		·	·
Exceedance for one sample	<ol> <li>Identify source;</li> <li>Inform IEC, ER, Contractor and EPD;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol>
Exceedance for two or more consecutive samples	<ol> <li>Notify IEC, ER, Contractor and EPD;</li> <li>Identify source;</li> <li>Repeat measurement to confirm findings;</li> <li>Increase frequency to daily;</li> <li>Analyse Contractor's working procedures to determine possible mitigation to be;</li> <li>Arrange meeting with IEC and ER to discuss the remedial actions to be taken;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise ER accordingly;</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Notify Contractor;</li> <li>In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Ensure remedial measures properly implemented;</li> <li>If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.</li> </ol>	<ul> <li>proposals;</li> <li>4. Resubmit proposals if problem still not under control;</li> <li>5. Stop the relevant portion of works as determined by ER until the exceedance is</li> </ul>

## Event / Action Plan for Noise Impact

Event	Action			
Limit Level	ET Leader	IEC	ER	Contractor
Action Level	<ol> <li>Notify IEC and the Contractor.</li> <li>Carry out investigation.</li> <li>Report the results of investigation to IEC and the Contractor.</li> <li>Discuss with the Contractor and formulate remedial measures.</li> <li>Increase monitoring frequency to check mitigation effectiveness.</li> </ol>	<ol> <li>Review with analysed results submitted by ET.</li> <li>Review the proposed remedial measures by the Contractor and advise ER accordingly.</li> <li>Supervise the implement of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing.</li> <li>Notify the Contractor.</li> <li>Require the Contractor to propose remedial measures for the analysed noise problem.</li> <li>Ensure remedial measures are properly implemented.</li> </ol>	<ol> <li>Submit noise mitigation proposals to IEC.</li> <li>Implement noise mitigation proposals.</li> </ol>
Limit Level	<ol> <li>Notify, IEC, ER, EPD and the Contractor.</li> <li>Identify the source.</li> <li>Repeat measurement to confirm findings.</li> <li>Increase monitoring frequency.</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented.</li> <li>Inform IEC, ER, and EPD the causes &amp; actions taken for the exceedances.</li> <li>Assess effectiveness of the Contractor's remedial actions and keep IEC, EPD and ER informed of the results.</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Discuss amongst ER, ET Leader and the Contractor on the potential remedial actions.</li> <li>Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise ER accordingly.</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing.</li> <li>Notify the Contractor.</li> <li>Require the Contractor to propose remedial measures for the analysed noise problem.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance.</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification.</li> <li>Implement the agreed proposals.</li> <li>Resubmit proposals if problem still not under control.</li> <li>Stop the relevant activity of works as determined by the ER until the exceedance is abated.</li> </ol>

APPENDIX K SITE INSPECTION SUMMARIES

## Site Inspection Summary

#### Inspection Information

Contract No.	HY/2012/06	
Date:	2 August 2017	
Time:	14:00	
Inspection No.:	194	

#### Non-compliance

Nil

#### **Observations**

Follow-up Observation(s) 1. Exposed stockpile without cover observed at SA340 was covered entirely with impervious sheeting to prevent windblown dust emission. (Closed) New Observation(s) 2. Mud trail was observed at SA325. The Contractor should remove the mud trail and ensure vehicles are wheel-washed properly before leaving the site. 3. Improper NRMM label was observed at NB50. The Contractor should ensure valid labels are provided for all NRMM before operations. Reminder (s) Nil. Follow-up Observation(s) - 02/HY/2015 4. Exposed stockpile without proper cover observed was covered entirely with impervious sheeting to prevent windblown dust emission. (Closed) 5. Dusty public access road observed was cleaned up. (Closed) New Observation(s) - 02/HY/2015 Nil. Reminder (s) - 02/HY/2015 Nil.

#### Remarks

	Name	Signature	Date
Prepared by	Sammi Lam	Santon	2 August 2017
Checked by	Y W Fung		2 August 2017





#### Inspection Information

Contract No.	HY/2012/06	
Date:	8 August 2017	
Time:	14:00	
Inspection No.:	195	

## Non-compliance

Nil

Observations

	Follow-up Observation(s)
1.	Mud trail observed at SA325 was removed. (Closed)
2.	Improper NRMM label observed at NB50 was replaced with valid label. (Closed)
	New Observation(s)
3.	General refuse was found scattered on ground at SA329. The Contractor should remove the general refuse and keep the site clean and tidy.
4.	Chemical container without drip tray was observed at SA320. The Contractor should provide a secondary containment for the chemical container to avoid potential leakage.
5.	Stagnant water was observed at SA320. The Contractor should remove the stagnant water or apply larvicidal oil to prevent mosquito breeding.
	Reminder (s)
	Nil.
	Follow-up Observation(s) – 02/HY/2015
	Nil.
	New Observation(s) – 02/HY/2015
	Nil.
	<u>Reminder (s) – 02/HY/2015</u>
	Nil.

## Remarks

	Name	Signature	Date
Prepared by	Sammi Lam	Carlo	8 August 2017
Checked by	Y W Fung	0,	8 August 2017





## Site Inspection Summary

#### Inspection Information

Contract No.	HY/2012/06	
Date:	17 August 2017	
Time:	14:00	
Inspection No.:	196	

## Non-compliance

Nil

#### Observations

	Follow-up Observation(s)
1.	General refuse found scattered on ground at SA329 was removed. (Closed)
2.	Chemical container without drip tray observed at SA320 was removed. (Closed)
3.	Stagnant water observed at SA320 was removed. (Closed)
	New Observation(s)
4.	Colour-faded NRMM label was found on an excavator at NB64. The Contractor was advised to provide valid labels to all equipment before operation.
5.	Open site area with dusty materials was observed at SA328. The Contractor was advised to water the area regularly to prevent windblown dust emission.
	Reminder (s)
	Nil.
	Follow-up Observation(s) – 02/HY/2015
	Nil.
	New Observation(s) – 02/HY/2015
	Nil.
	<u>Reminder (s) – 02/HY/2015</u>
	Nil.

#### Remarks

	Name	Signature	Date
Prepared by	Candy Chung	CD	17 August 2017
Checked by	Y W Fung		17 August 2017

## **Site Inspection Summary**

# Inspection Information HY/2012/06 Contract No. Date: 22 August 2017 14:00 Time: Inspection No.: 197 Non-compliance Nil Observations Follow-up Observation(s) 1. Colour-faded NRMM label found on an excavator at NB64 was replaced with valid label. (Closed) Open site area with dusty materials observed at SA328 was watered regularly to prevent windblown 2. dust emission. (Closed) New Observation(s) 3. Exposed stockpiles of dusty materials without proper cover were observed at SA346, SA340 and W77B. The Contractor should cover the stockpiles with impervious sheeting to prevent windblown dust emission. Reminder (s) Nil. Follow-up Observation(s) - 02/HY/2015 Nil. New Observation(s) - 02/HY/2015 4. Silts were found near the entrance of drainage system. The Contractor should remove the dusty materials and implement sufficient measures to prevent silt from entering the drainage system. 5. Mud trail was observed. The Contractor should remove the mud trail and ensure vehicles are wheelwashed properly before leaving the site. Colour-faded NRMM label was observed. The Contractor should ensure valid labels are provided to all 6. NRMM before operation. Reminder (s) - 02/HY/2015 Nil. Remarks

Nil

NameSignatureDatePrepared bySammi Lam22 August 2017Checked byY W Fung/22 August 2017

#### Inspection Information

Contract No.	HY/2012/06	
Date:	29 August 2017	
Time:	14:00	
Inspection No.:	198	

#### Non-compliance

Nil

#### Observations

Follow-up Observation(s)

1. Exposed stockpiles of dusty materials without proper cover observed at SA346, SA340 and W77B were covered with impervious sheeting to prevent windblown dust emission. (Closed)

#### New Observation(s)

- 2. Debris and general refuse were found in drainage at NB44 and NB42A. The Contractor should remove the materials and ensure the flow of water without obstruction.
- 3. Surface runoff of muddy water was observed at NB51. The Contractor should remove the muddy water and implement measures to prevent sand from being flushed to public road.
- 4. Colour-faded NRMM label was observed at NB42A. The Contractor should ensure valid labels are provided to all NRMM before operations
- 5. Chemical container without drip tray was observed at NB43A. The Contractor should provide a secondary containment for the chemical container to avoid potential leakage

Reminder (s)

Nil.

## Follow-up Observation(s) - 02/HY/2015

- 6. Silts found near the entrance of drainage were removed. (Closed)
- 7. Mud trail observed was removed. (Closed)
- 8. Colour-faded NRMM label observed was replaced with valid label. (Closed)

## New Observation(s) - 02/HY/2015

Nil.

## Reminder (s) - 02/HY/2015

Nil.

#### Remarks

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APPENDIX L STATISTICS ON COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

# Appendix L 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
Environmental complaints	19 December 2013	EPD referred a complaint from Lot no. 116 of Fui Sha Wai at Tai Hang of Tai Po which is concerned about the construction noise and diesel-like smell generated from construction activities nearby which caused nuisance and health problems on 19 December 2013 morning.	Closed	0	7
	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		

# Contract No. HY/2012/06 – Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange

Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
	EPD referred an air complaint on 24 October 2014.			
	A resident complained against the excavation works of Tai Wo			
23 October	Service Road West between Nam Wah Po & Tai Hang Tsuen, which			
2014	have piled up high stockpiles, causing serious dust nuisance to his house.	Closed		
	The resident also complained that the stockpiles have not been			
	covered and watered properly. He now requires the EPD to follow up.			
	The location of complaint is near Lamppost Location EB5717.			
	EPD referred a water complaint on 31 December 2014.			
31	The complainant complained about the muddy river outside Tai Hang			
December	Village Office on 29 December 2014. It was suspected that the muddy	Closed		
2014	water was discharged from the construction works of the Project.			
	He required the EPD to follow up.			
	EPD referred a water complaint on 25 March 2015.			
	The complainant complained about the generation of the smell of	Closed		
25 March	gasoline from the Widening of Fanling Highway construction site on			
2015	Tai Wo Service Road West, causing serious nuisance to nearby			
	houses.			
	The situation has continued for a few weeks and she asked the EPD			
	to follow up as soon as possible.			

Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
5 January 2017 (Referred by the Contractor on 13 January 2017)	A complaint was received by the 1823 enquiry and complaint hotline on 5 January 2017. The complaint was referred to the Environmental Team by the Contractor on 13 January 2017. The complainant complained against the dust emission generated by the Widening of Fanling Highway construction site on Tai Wo Service Road West near Tai Hang Village. The complainant also complained that Highway Department did not conduct road surface cleansing, which affects residents' health. He/she now requires the Highway Department to follow up.	Closed		
22 May 2017 (Referred by the Contractor on 23 May 2017)	A complaint was received by the 1823 enquiry and complaint hotline on 22 May 2017. The complaint was referred to the Environmental Team by the Contractor on 23 May 2017. A complainant complained that construction noise was caused by the erection of noise barrier on Tai Wo Service Road West near Tai Hang Village on Sunday(s). The complainant concerned about if any Construction Noise Permit is issued by the Environmental Protection Department.	Closed		

	Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
Notification of summons	-	-	-	0	0
Successful Prosecutions	-	-	-	0	0

# Contract No. 02/HY/2015 – Provision of Bus-Bus Interchange on Fanling Highway Kowloon Bound

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