

Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling Stage 2

Monthly EM&A Report

September 2017

Submitted to

Prepared By

Environmental Protection Department

Meinhardt Infrastructure and Environment Ltd

Meinhardt Infrastructure and Environment Limited

Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling Stage 2

Monthly EM&A Report

(September 2017)

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Certified by:	Fredrick Leong	۲

Position: <u>Environmental Team Leader</u>

Date: <u>11 October 2017</u>

M MOTT MACDONALD

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Your Reference

Our Reference JFP/EC/ST/pl/T329380/22 .05/L-0186

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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) – Entrusted Works Environmental Permit No. EP-324/2008/E Condition 3.3 – Submission of Monthly EM&A Report – September 2017 for the portion of Stage 2 works entrusted to Civil Engineering and Development Department (CEDD) under Contract No. CV/2012/09

10 October 2017 By Fax (2805 5028) & Hand

We refer to the revised Monthly EM&A Report – September 2017 received on 09 October 2017 submitted by the Environmental Team via email. Pursuant to Environmental Permit Condition 3.3, I hereby verify the Monthly EM&A Report – September 2017 (Rev. 0) for the portion of works under Stage 2 of the captioned Project which is entrusted to CEDD under Contract No. CV/2012/09.

Yours faithfully for MOTT MACDONALD HONG KONG LIMITED

Steven Tang Independent Environmental Checker

c.c. HyD CEDD/BCP AECOM Meinhardt

Mr. Chung Lok Chin Mr. Lu Pei Yu Mr. Alan Lee Mr. Fredrick Leong By Fax (2714 5198) By Fax (3547 1659) By Fax (3922 9797) By Fax (2559 1613)

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EXECUTIVE SUMMARY

The Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling Stage 2 (hereafter called "the Project") covers part of the construction of the widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling which aimed 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 covers construction activities at Yuen Leng along the existing Fanling Highway.

The impact EM&A for the Project includes air quality, noise and water quality monitoring. The EM&A programme commenced on 5 November 2013.

This report documents the findings of EM&A works conducted in September 2017. As informed by the Contractor, the major activities in the reporting month were:

- Cable Detection and Trial Trenches;
- Remaining Works on New Kiu Tau Footbridge;
- Noise Barrier Construction;
- Roadworks;
- Viaduct Segment Erection;
- Water Main Laying Works;
- Installation of Noise Barrier Steel Column & Panel;
- Parapet Installation on Bridge Deck;
- Drainage Work;
- Mini-pile Installation;
- Construction of Profile Barrier & Planter Wall on Bridge Deck;
- Stressing of External Tendon; and
- Construction of Retaining Wall Behind Abutment.

Breach of Action and Limit Levels for Air Quality

No exceedance of Action and Limit Level was recorded for 24-hour TSP monitoring at the monitoring location AM1(SR77) in the reporting month.

No exceedance of Action and Limit Level was recorded for 1-hour TSP monitoring at the monitoring location AM1(SR77) in the reporting month.

Breach of Action and Limit Levels for Noise

No noise complaint was received in the reporting month, so no Action Level exceedance was recorded. Also, no Limit Level exceedance of noise monitoring was recorded in the reporting month.



Breach of Action and Limit Levels for Water Quality

The box culvert works have been completed in the end of March 2017. The 4-week post construction water quality monitoring has been completed in the end of April 2017 in the same manner as the impact monitoring.

Complaint, Notification of Summons and Successful Prosecution

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

Future Key Issues

The major construction works in the coming reporting month are anticipated to include:

- Boundary Wall for Pumping Station;
- Cable detection and Trial Trenches;
- Installation of Noise Barrier Steel and Panel;
- Remaining Works on New Kiu Tau Footbridge;
- Mini-pile Installation Works;
- Noise Barrier Construction ;
- Roadworks;
- Viaduct Segment Erection;
- Water Main Laying Works;
- Parapet Installation on Bridge Deck;
- Construction of Profile Barrier & Planter Wall on Bridge Deck;
- Drainage Work;
- Stressing of External Tendon;
- Construction of Retaining Wall Behind Abutment; and
- Installation of Sign Gantry.

Potential environmental impacts arising from the above construction activities are anticipated to be mainly associated with construction dust, noise, water quality and waste management.



1 INTRODUCTION

1.1.1 Chun Wo Construction & Engineering Co Ltd (Chun Wo) was commissioned by the Civil Engineering and Development Department (CEDD) as the Civil Contractor for the Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling Stage 2. Meinhardt Infrastructure & Environment Ltd (MIEL) has been appointed by Chun Wo as the Environmental Team (ET) to fulfill the corresponding EM&A requirements pursuant to Environmental Permit No. EP-324/2008/E in accordance with the Updated EM&A Manual (dated October 2013) for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling Stage 2. The EM&A programme commenced on 5 November 2013.

1.2 Purpose of the Report

1.2.1 This is the monthly EM&A Report which summaries the impact monitoring results and audit findings for the Project during the reporting month of September 2017.

1.3 Report Structure

1.3.1 This monthly EM&A Report comprises the following sections:

Section 1: Introduction

Section 2: Project Information

Section 3: Status of Environmental Licenses, Notifications and Permits

Section 4: Air Quality Monitoring

Section 5: Noise Monitoring

Section 6: Water Monitoring

- Section 7: Waste Management
- Section 8: Environmental Site Inspection and Audit
- Section 9: Implementation Status of Environmental Mitigation Measures

Section 10: Summary of EP Submission in the Reporting Month

Section 11: Environmental Non-Conformance

Section 12: Future Key Issues

Section 13: Conclusions and Recommendations



2 **PROJECT INFORMATION**

2.1 Background

- 2.1.1 Tolo Highway and Fanling Highway are expressways in the North East New Territories connecting Sha Tin, Tai Po and Fanling. These highways form a vital part of the strategic Route 1, which links Hong Kong Island to Shenzhen. At present, this section of Route 1 is a dual 3-lane carriageway. However, at several major interchanges along this section of Route 1, the highway is only dual-2 lane. Severe congestion is a frequent occurrence during peak periods, particularly in the Kowloon bound direction.
- 2.1.2 The objective of the 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.
- 2.1.3 The construction works for the Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling are to be delivered in 2 stages:

Stage 1 – Construction works between Island House Interchange and Tai Hang; and

Stage 2 – Construction works between Tai Hang and Wo Hop Shek Interchange.

- 2.1.4 The construction works of Stage 1 under the EP commenced in November 2009 and was planned to be completed in December 2013 tentatively. The works of Stage 2 was planned to commence in November 2013 and complete by end of 2016. Hyder-Arup-Black and Veatch Joint Venture (HABVJV) was appointed by the Highways Department (HyD) as the consultants for the design and construction assignment for the Project. Mott MacDonald Hong Kong Ltd is the Independent Environmental Checker (IEC) of both Stage 1 and Stage 2 works.
- 2.1.5 A portion of Stage 2 works of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling (hereafter called "the Project") is entrusted to the contractor of Contract No. CV/2012/09 Liantang / Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works Contract 3, i.e. Chun Wo. AECOM Asia Co Ltd was appointed by the CEDD as the consultant for the design and construction assignment for the Liantang development.
- 2.1.6 The Project is a Designated Project under the Environmental Impact Assessment Ordinance (EIAO) (Cap. 499). An Environmental Impact Assessment (EIA) Report together with an Environmental Monitoring and Audit (EM&A) Manual were approved on 14 July 2000 (Register Number: EIA-043/2000). The Project is governed by an Environmental Permit (EP) (EP-324/2008) which was granted on 23 December 2008. A variation of EP (VEP) was applied and the VEP (EP-324/2008/A) was subsequently granted on 31 January 2012. An additional VEP has been applied on 24 February 2014 and the VEP (EP-324/2008/B) was subsequently granted on 17 March 2014. Furthermore, an additional VEP has been applied on 9 March 2015 and the VEP (EP-324/2008/C) was subsequently granted on 27 March 2015. The previous VEP (EP-324/2008/D) was granted on 27 August 2015. The current VEP (EP-324/2008/E) was granted on 26 January 2017.



2.2 Site Description

2.2.1 The major construction activities under the Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling Stage 2 include:

At-Grade Road Works – Temporary and permanent road formation, pipe laying, road drainage, footpath and noise barrier construction;

Demolition of existing Kiu Tau Footbridge and Footbridge Reprovision; and

Box Culvert Extension – Flow diversion of existing stream, excavation, sub-base and blinding, base, wall and top slab construction.

2.2.2 **Figure 1** shows the works areas for the Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling Stage 2.

2.3 Construction Programme and Activities

- 2.3.1 The major construction activities undertaken in the reporting month are summarized below:
 - Cable Detection and Trial Trenches;
 - Remaining Works on New Kiu Tau Footbridge;
 - Noise Barrier Construction;
 - Roadworks;
 - Viaduct Segment Erection;
 - Water Main Laying Works;
 - Installation of Noise Barrier Steel Column & Panel;
 - Parapet Installation on Bridge Deck;
 - Drainage Work;
 - Mini-pile Installation;
 - Construction of Profile Barrier & Planter Wall on Bridge Deck;
 - Stressing of External Tendon; and
 - Construction of Retaining Wall Behind Abutment.
- 2.3.2 The construction programme is presented in **Appendix A**.

2.4 **Project Organisation**

2.4.1 The project organization structure is shown in **Appendix B**. The key personnel contact names and numbers for the Project are summarised in **Table 2.1**.



Party	Role	Position	Name	Telephone	Fax
AECOM	Engineer's	Senior Resident Engineer	Mr. Alan Lee	2171 3303	2171 3498
AECOM	Representative	Resident Engineer (Environmental)	Mr. Perry Yam	2171 3350	2171 3490
Mott MacDonald	Independent Environmental Checker (IEC)	IEC	Mr. Steven Tang	2828 5920	2827 1823
Chur M/a	Contractor	Site Agent	Mr. Daniel Ho	2638 6144	0000 7077
Chun Wo	Contractor	Environmental Officer	Ms. Tiffany Tsang	2638 6150	2638 7077
Meinhardt	Environmental Team (ET)	ET Leader	Mr. Fredrick Leong	2859 1739	2540 1580

Table 2.1 Contact Information of Key Personnel

3 STATUS OF ENVIRONMENTAL LICENSES, NOTIFICATION AND PERMITS

3.1.1 The relevant environmental licenses, permits and/or notifications on environmental protection for this Project and valid in the reporting month are summarized in **Table 3.1**.

Permit / License No.		_		
/ Notification / Reference No.	From	То	Status	Remarks
Environmental Permi	t	L		
EP-324/2008/E	26 Jan 2017		Granted on 26 Jan 2017	
Construction Noise P	ermit			
GW-RN0161-17	1 Apr 2017	30 Sep 2017	Valid	For segment erection across Fanling Highway
GW-RN0204-17	30 Mar 2017	29 Sep 2017	Valid	For operating Water Pumping in Jacking Pit on Tai Wo Service Road West
GW-RN0219-17	31 Mar 2017	30 Sep 2017	Valid	For segment erection crossing over MTRC's Rail Track of Pier AB11 and AD12 (1900 – 2300)
GW-RN0235-17	11 Apr 2017	7 Oct 2017	Valid	For installation of parapet at AC5 to AC6
GW-RN0236-17	10 Apr 2017	16 Sep 2017	Valid	For demolition of Kiu Tau Footbridge at Fanling Highway both bounds at Tai Wo Service Road East
GW-RN0302-17	30 Apr 2017	29 Oct 2017	Cancelled on 8 Sep 2017	For segment erection and traverser stitch joints crossing above MTRC's East Rail Line
GW-RN0303-17	11 May 2017	10 Oct 2017	Valid	For segment erection crossing over MTRC's Rail Track of Pier AB11 and AD12 (0155-0500)
GW-RN0342-17	28 May 2017	20 Nov 2017	Valid	For road marking works in Fanling Highway bothbounds

Table 3.1	Status of Environmental Licenses, Notifications and Permits
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Permit / License No.	Valid	alid Period		Demerles
/ Notification / Reference No.	From	То	Status	Remarks
GW-RN0376-17	22 Jun 2017	21 Dec 2017	Valid	For dismantling of catch fence within MTR Protection Zone at Tong Hang Tung Chuen
GW-RN0378-17	22 Jun 2017	21 Dec 2017	Cancelled on 4 Sep 2017	For general works at the southward of site office
GW-RN0384-17	12 Jun 2017	9 Sep 2017	Valid	For segment stitches concreting and installation of parapet crossing over Fanling Highway
GW-RN0417-17	20 Jun 2017	16 Dec 2017	Valid	For road diversion and maintenance of Fanling Highway Bothbound
GW-RN0458-17	16 Jul 2017	18 Dec 2017	Valid	For lane shifting work of Fanling Highway bothbound
GW-RN0477-17	28 Jul 2017	5 Jan 2018	Valid	For loading and unloading along Fanling Highway both bounds
GW-RN0500-17	29 Aug 2017	24 Feb 2018	Valid	For concreting of stitch construction between AD12 and pier AB11R
GW-RN0501-17	25 Aug 2017	24 Feb 2018	Valid	For general works at the northward of site office
GW-RN0508-17	16 Aug 2017	15 Feb 2018	Valid	For fuel delivery and tractor with trailer entering the construction site next to MTRC's East Rail Line at Tong Hang Tung



Permit / License No. / Notification /	Valid I	Period	Status	Remarks	
Reference No.	From	То	Status	Remarks	
GW-RN0510-17	10 Aug 2017	18 Nov 2017	Valid	For segment erection, stitches concreting and installation of parapet crossing over Fanling Highway and MTRC's East Rail Line	
GW-RN0549-17	6 Sep 2017	5 Mar 2018	Valid	For general works at the southward of site office	
GW-RN0567-17	10 Sep 2017	21 Feb 2018	Valid	For segment erection and traverse stitch joints over Fanling Highway and MTRC's East Rail Line	
GW-RN0571-17	30 Sep 2017	29 Mar 2018	Valid	For operating water pumping in jacking pit on Tai Wo Service Road West	
Wastewater Discharg	e License				
WT00016832-2013	28 Aug 2013	31 Aug 2018	Valid		
Chemical Waste Prod	Chemical Waste Producer Registration				
5113-634-C3817-01	7 Oct 2013		Valid		
Billing Account for Construction Waste Disposal					
7017914	2 Aug 2013		Account Active		
Notification Under Air	Pollution Cont	rol (Constructio	on Dust) Regulati	on	
	31 Jul 2013	30 Jul 2019	Notified		



4 AIR QUALITY MONITORING

4.1 Monitoring Requirement

4.1.1 In accordance with the Updated EM&A Manual, 1-hr and 24-hr total suspended particulate (TSP) levels at the designated air quality monitoring station are required. Impact 24-hour TSP monitoring should be carried out for at least once every 6 days. For the 1-hr TSP impact monitoring, the sampling frequency of at least three times in every 6 days should be undertaken when the highest dust impact occurs.

4.2 Monitoring Equipment

4.2.1 The 1hr- TSP and 24-hr TSP air quality monitoring were performed using a High Volume Sampler (HVS), of which its location and operation satisfy, as far as practicable, all the requirements as specified in the Updated EM&A Manual. The brand and model of the equipment are given in **Table 4.1**.

 Table 4.1
 Air Quality Monitoring Equipment

Equipment	Brand and Model	Quantity	Serial Number
High Volume	Tisch Total Suspended Particulate		
Sampler	Mass Flow Controlled High Volume	1	2359
(1-hr TSP and	Air Sampler (Model No. TE-5170	I	2009
24-hr TSP)	MFC)		

- 4.2.2 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.
- 4.2.3 Calibration of the HVS (five point calibration) using Calibration Kit was carried out every two months. The HVS calibration orifice will be calibrated annually. Calibration certificate of the TE-5025A Calibration Kit and the HVS are provided in **Appendix C**.

4.3 Monitoring Location

4.3.1 Air quality monitoring was conducted at the location specified in the Updated EM&A Manual. **Table 4.2** describes the details of the air quality monitoring station with its location as shown in **Figure 2**.

 Table 4.2
 Location of Air Quality Monitoring

Air Monitoring Station ID	Monitoring Location	Description
AM1(SR77) *	Yuen Leng 2 *	Residential, Ground floor

Remark:

Location and Station / ASR ID as identified in Updated EM&A Manual / EIA Report for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling

4.4 Monitoring Parameters, Frequency and Duration

4.4.1 **Table 4.3** summarizes the monitoring parameters, frequency and duration of impact TSP monitoring.



Parameter	Frequency and Duration
1-hour TSP	At least three times in every 6 days should be undertaken when the highest dust impact occur
24-hour TSP	Once every 6 days

4.5 Monitoring Methodology

1-hr and 24-hr TSP Monitoring

- 4.5.1 With the consideration of criteria stated in the Updated EM&A Manual, the HVS was installed in the vicinity of the air sensitive receivers.
- 4.5.2 The relevant data including temperature, pressure, weather conditions, elapsed-time meter reading for the start and stop of the sampler, identification and weight of the filter paper, and any special phenomena observed were recorded. The weather information was referenced from Hong Kong Observatory (http://www.weather.gov.hk/wxinfo/pastwx/extractc.htm).
- 4.5.3 A HOKLAS accredited laboratory with constant temperature and humidity control, and equipped with necessary measuring and conditioning instruments, to handle the 24-hr TSP samples, was employed for sample analysis.
- 4.5.4 Filter papers of size 8"x10" were labelled before sampling. They were inspected to be clean with no pin holes and conditioned in a humidity controlled chamber for over 24-hr and were pre-weighed before use for the sampling.
- 4.5.5 The 24-hr TSP levels were measured by following the standard high volume sampling method for TSP as set out in the Title 40 of the United States Code of Federal Regulations, Chapter 1 (Part 50), Appendix B. TSP was sampled by drawing air through a conditioned, pre-weighted filter paper inside the HVS at a controlled air flow rate. After 24-hr sampling, the filter papers loaded with dust were kept in a clean and tightly sealed plastic bag, and then returned to the laboratory for reconditioning in the humidity controlled chamber followed by accurate weighing by an electronic balance with a readout down to 0.1 mg.
- 4.5.6 All the collected samples were kept in a good condition for 6 months before disposal.
- 4.5.7 For 1-hr TSP monitoring, monitoring methodology is the same as 24-hr TSP monitoring which has been presented in **Section 4.5.1** to **Section 4.5.6**, but with sampling period changed to 1 hour.

4.6 Monitoring Schedule for the Reporting month

4.6.1 The schedule for environmental monitoring for the reporting month is provided in **Appendix D**. Meteorological data extracted from Hong Kong Observatory for the reporting month is provided in **Appendix E**.

4.7 Monitoring Results

4.7.1 The monitoring results for 1-hr and 24-hr TSP are summarised in **Table 4.4** and **Table 4.5** respectively. Detailed air quality monitoring results and the graphical presentation



of air quality monitoring data for the current and past three reporting months are presented in **Appendix F**.

Table 4.4 Summary of 1-hr TSP Monitoring Results

ASR ID	Average (μg/m³)	Range (μg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)	
AM1(SR77) *	122.6	100.4 – 139.6	292.7	500	

Remark:

Station / ASR ID as identified in Updated EM&A Manual / EIA Report for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling

Table 4.5 Summary of 24-hr TSP Monitoring Results

ASR ID	Average (μg/m³)	Range (μg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
AM1(SR77) *	79.0	49.1 – 91.2	170.3	260

Remark:

Station / ASR ID as identified in Updated EM&A Manual / EIA Report for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling

- 4.7.2 No exceedance of Action and Limit Level was recorded for 24-hour TSP monitoring at the monitoring location AM1(SR77) in the reporting month.
- 4.7.3 No exceedance of Action and Limit Level was recorded for 1-hour TSP monitoring at the monitoring location AM1(SR77) in the reporting month.
- 4.7.4 The Event and Action Plan for the occurrence of non-compliance of the air quality criteria is annexed in **Appendix G**.



5 NOISE MONITORING

5.1 Monitoring Requirements

5.1.1 In accordance with the Updated EM&A Manual, the impact noise monitoring frequency shall depend on the scale of the construction activities. An initial guide on the regular monitoring frequency should be at least once per week when noise generating activities are underway.

5.2 Monitoring Equipment

5.2.1 Noise monitoring was performed using a sound level meter at the monitoring station. The sound level meter deployed complies with the International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. An acoustic calibrator was deployed to check the sound level meter at a known sound pressure level. The brand and model of the equipment is given in **Table 5.1**.

 Table 5.1
 Noise Monitoring Equipment

Equipment	Brand and Model	Quantity	Serial Number
Sound Level Calibrator	Rion (Model No. NC-74)	1	34857296
Sound Level Meter	Rion (Model No. NL-52)	1	00821072

5.2.2 The sound level calibrator and sound level meter were verified by a certified laboratory every year. Calibration certificates of the sound level meter and acoustic calibrator are provided in **Appendix C**.

5.3 Monitoring Locations

5.3.1 Impact noise monitoring was conducted at the location specified in the Updated EM&A Manual. **Table 5.2** describes the details of the noise monitoring station with its location as shown in **Figure 2**.

NSR ID	Monitoring Location	Description		
M1(SR77) *	Yuen Leng 2 *	Residential, Ground floor		

Remark:

Location and Station / NSR ID as identified in Updated EM&A Manual / EIA Report for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling

5.4 Monitoring Parameters, Frequency and Duration

5.4.1 **Table 5.3** summarizes the monitoring parameters, frequency and duration of impact noise monitoring.



Table 5.3 Noise Monitoring Parameters, Frequency and Duration

I	Parameter and Duration	Frequency
	30-mins measurement at between 0700 and 1900 on normal weekdays. Leq, L10 and L90 would be recorded.	At least once per week

5.5 Monitoring Methodology

- 5.5.1 The monitoring procedures are summarised as follows:
 - 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 SR77;
 - The battery condition was checked to ensure good functioning of the meter;
 - Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - Frequency weighting: A
 - Time weighting: Fast
 - Parameters: Leq, L10 and L90
 - Time measurement: Leq(30-minutes) during non-restricted hours i.e. 07:00 19:00 hrs on normal weekdays
 - 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 1dB(A), the measurement would be considered invalid and repeat of noise measurement would be required after recalibration or repair of the equipment.
 - At the end of the monitoring period, the Leq, L10 and L90 were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
 - A façade correction of +3dB (A) shall be made to the noise parameter obtained by free field measurement.

5.6 Monitoring Schedule for the Reporting Month

5.6.1 The schedule for environmental monitoring for the reporting month is provided in **Appendix D**. Meteorological data extracted from Hong Kong Observatory for the reporting month is provided in **Appendix E**.

5.7 Monitoring Results

5.7.1 The monitoring results for noise are summarized in **Table 5.4** and the monitoring results and the graphical presentation of noise level for the current and past three reporting months are presented in **Appendix H**.



Table 5.4	Summary of Noise	Monitoring Results
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Noise Monitoring Station ID	Average, dB(A), Leq (30min) ⁽²⁾	Range, dB(A), Leq (30min) ⁽²⁾	Action Level	Limit Level, dB(A)
M1(SR77) ⁽¹⁾	66.8	64.5 – 70.0	When one documented valid complaint is received	75

Remark:

(1) Station / NSR ID as identified in Updated EM&A Manual / EIA Report for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling

(2) +3dB(A) façade correction included

- 5.7.2 Major noise sources during the noise monitoring included construction activities of the Project and that along Tai Wo Service Road East, and nearby traffic noise.
- 5.7.3 No noise complaint was received in the reporting month, so no Action Level exceedance was recorded. Also, no Limit Level exceedance of noise monitoring was recorded in the reporting month.
- 5.7.4 The Event and Action Plan for the occurrence of non-compliance of the noise criteria is annexed in **Appendix G**.



6 WATER MONITORING

6.1.1 The box culvert works had been completed in March 2017. The 4-week postconstruction water quality monitoring at I5 was completed in 28 April 2017.



7 WASTE MANAGEMENT

- 7.1.1 The Contractor has registered as a chemical waste producer of the Project. The C&D materials and waste sorting were carried out on-site. Receptacles were provided for general refuse collection.
- 7.1.2 As advised by the Contractor, a total of 2,448m³ of excavated material has been generated. 1,921m³ of inert C&D materials was disposed of at public fill to Tuen Mun Area 38. 90m³ inert C&D materials were reused on site. 115m³ of general refuse was disposed of at North East New Territories (NENT) Landfill. No plastic was collected by recycling contractor in the reporting month. No paper/cardboard packaging was collected by recycling contractor in the reporting month. No metal was collected by recycling contractor in the reporting month. No metal was collected by licensed contractor in the reporting period. Details of the waste management data are presented in **Appendix K**.



8 ENVIRONMENTAL SITE INSPECTION AND AUDIT

8.1 Site Inspection

- 8.1.1 Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. A summary of the site inspection is provided in **Appendix L**.
- 8.1.2 In the reporting month, 4 site inspections were carried out on 7, 14, 20 and 27 September 2017. The one held on 27 September 2017 was a joint inspection with the IEC, ER, ET and Contractor. No site inspection was conducted by the EPD during the reporting month. No non-compliance was recorded during the site inspection. A summary of the reminders and observations recorded during the site inspections are presented in **Table 8.1**.

Parameters	Date	Observations and Recommendations	Follow-up	
Air Quality	N/A	N/A	N/A	
Noise	N/A	N/A	N/A	
Water Quality	N/A	N/A	N/A	
Waste / Chemical Managem- ent	N/A	N/A	N/A	
Landscape & Visual	N/A	N/A	N/A	
Permits / Licenses	N/A	N/A	N/A	

Table 8.1 Observations and Recommendations of Site Audit



9 IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

9.1.1 The Contractor has implemented the relevant environmental mitigation measures as specified in the EIA Reports, EPs and updated EM&A Manual. The implementation status of environmental mitigation measures during the reporting period is summarized in **Appendix L**.



10 SUMMARY OF EP SUBMISSION IN THE REPORTING MONTH

10.1.1 The status of the required submission under the EP during the reporting period is summarized in **Table 10.1**.

Table 10.1 Status of Required Submission under Environmental Permit

EP Condition	Submission	Submission Date		
Condition 3.3	Monthly EM&A Report for August 2017	13 September 2017		



11 ENVIRONMENTAL NON-CONFORMANCE

11.1 Summary of Monitoring Exceedances

- 11.1.1 No exceedance of Action and Limit Level was recorded for 24-hour TSP monitoring at the monitoring location AM1(SR77) in the reporting month.
- 11.1.2 No exceedance of Action and Limit Level was recorded for 1-hour TSP monitoring at the monitoring location AM1(SR77) in the reporting month.
- 11.1.3 No noise complaint was received in the reporting month, so no Action Level exceedance was recorded. Also, no Limit Level exceedance of noise monitoring was recorded in the reporting month.
- 11.1.4 The 4-week post-construction water quality monitoring at I5 was completed in April 2017.

11.2 Summary of Environmental Non-Compliance

11.2.1 No environmental non-compliance was recorded in the reporting month. The cumulative statistics are provided in **Appendix N**.

11.3 Summary of Environmental Complaints

11.3.1 No environmental complaints were received in the reporting month. The cumulative statistics are provided in **Appendix N**.

11.4 Summary of Environmental Summon and Successful Prosecutions

11.4.1 No environmental related prosecution or notification of summons was received in the reporting month. The cumulative statistics are provided in **Appendix N**.



12 FUTURE KEY ISSUES

12.1 Construction Programme for the Next Month

- 12.1.1 The major construction works in the coming reporting month are anticipated to include:
 - Boundary Wall for Pumping Station;
 - Cable detection and Trial Trenches;
 - Installation of Noise Barrier Steel and Panel;
 - Remaining Works on New Kiu Tau Footbridge;
 - Mini-pile Installation Works;
 - Noise Barrier Construction ;
 - Roadworks;
 - Viaduct Segment Erection;
 - Water Main Laying Works;
 - Parapet Installation on Bridge Deck;
 - Construction of Profile Barrier & Planter Wall on Bridge Deck;
 - Drainage Work;
 - Stressing of External Tendon;
 - Construction of Retaining Wall Behind Abutment; and
 - Installation of Sign Gantry.

12.2 Key Issues for the Coming Month

- 12.2.1 Key issues to be considered in the coming month are anticipated to include:
 - Site discharges should be properly collected and treated prior to discharge;
 - Properly maintain all drainage facilities and wheel washing facilities on site;
 - Expose slopes and dusty stockpile should be covered up properly if no work will be conducted;
 - Good housekeeping should be maintained and general refuse should be removed regularly;
 - Chemical waste should be stored, handled and disposed of properly;
 - Properly store and label oils and chemicals on site; and
 - A spill response procedure shall be in place and absorption material available for minor spillages.

12.3 Monitoring Schedule for the Next Month

12.3.1 The tentative schedule for environmental monitoring for the coming month is provided in **Appendix D**.



13 CONCLUSIONS AND RECOMMENDATIONS

13.1 Conclusions

- 13.1.1 The construction phase EM&A programme of the Project commenced on 5 November 2013.
- 13.1.2 The 1-hr TSP, 24-hr TSP, noise and water quality monitoring were carried out in the reporting period.
- 13.1.3 No exceedance of Action and Limit Level was recorded for 24-hour TSP monitoring at the monitoring location AM1(SR77) in the reporting month.
- 13.1.4 No exceedance of Action and Limit Level was recorded for 1-hour TSP monitoring at the monitoring location AM1(SR77) in the reporting month.
- 13.1.5 No noise complaint was received in the reporting month, so no Action Level exceedance was recorded. Also, no Limit Level exceedance of noise monitoring was recorded in the reporting month.
- 13.1.6 The 4-week post-construction water quality monitoring at I5 was completed in April 2017.
- 13.1.7 Four (4) environmental site inspections were carried out in the reporting month. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site audit.

13.2 Recommendations

13.2.1 According to the environmental site inspections performed in the reporting month, the following recommendation was provided:

Air Quality

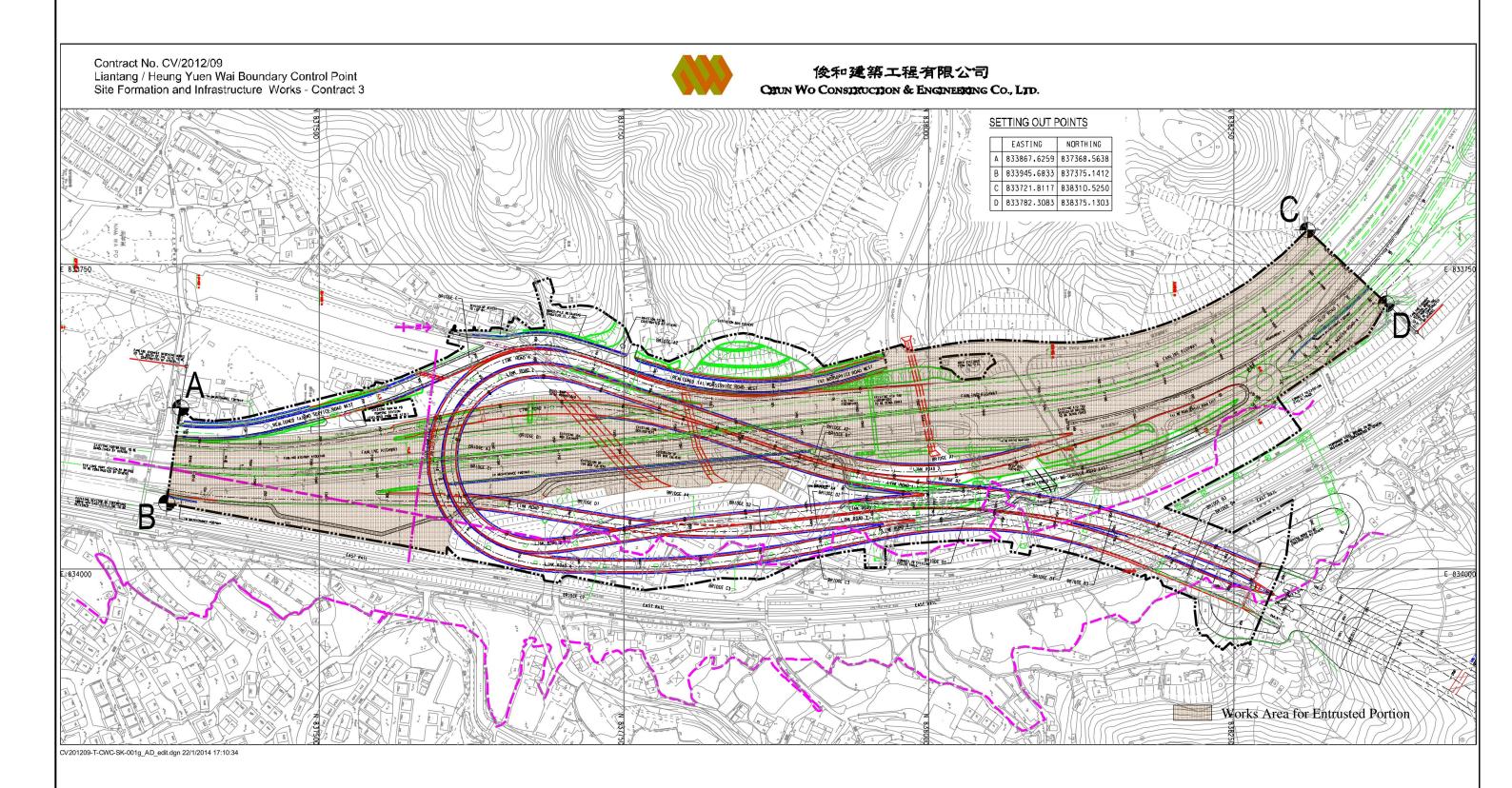
• Stockpiling shall be covered to avoid dust generation

Water Quality

• Implement sufficient mitigation measures to avoid runoff leakage from road works areas and divert site effluent to wastewater treatment facilities



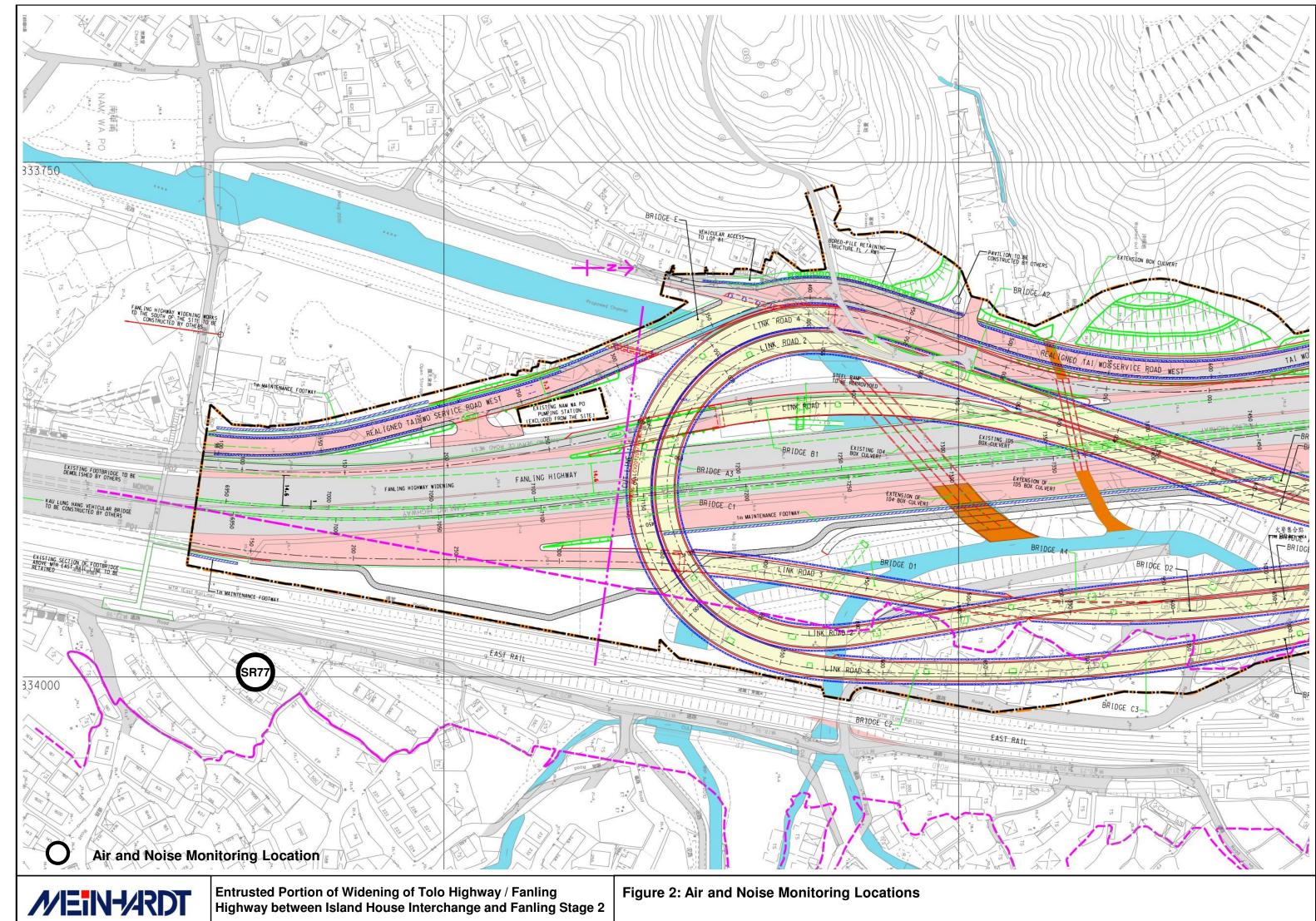
Figure





Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling Stage 2

Figure 1: Demarcation of Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling – Stage 2





Appendix A Construction Programme

ivity ID	Activity Name	OD	RD	Start	Finish	11-	2017	New	Dee	2018
3-Month Rollir	ng Programme 2017-09-21 (Based on UMP05E)						Sep Oct	Nov	Dec	Jan
Key Dates (Co										
-		0			00.0 174		♦ KD9: Stage 1C - Completion of viaduct stru	ictures and associated civil provisio	he for TCSS and allow access fo	r other
KD-1200	KD9: Stage 1C - Completion of viaduct structures and associated civil provisions for TCSS and allow access for other	0	0		20-Sep-17*	-39				
KD-1300	KD10: Stage S4 - Completion of road widening of Fanling Highway within SBZ2 and allow access for HY/2012/06	0	0		20-Sep-17*	-292	 KD10: Stage S4 - Completion of road wide 			
KD-1400	KD11: Stage N4 - Completion of road widening of Fanling Highway within NBZ1 and allow access for HY/2012/06	0	0		20-Sep-17*	-7	 KD11: Stage N4 - Completion of road wide 	ning of Fanling Highway within NB2	21 and allow access for HY/2012	'06
KD-0900	KD6A: Section 6 - All works in Portion FH9 of the Site but excluding works on the deck surfaces	0	0		20-Sep-17*	-60	KD6A: Section 6 - All works in Portion FH9	of the Site but excluding works on	the deck surfaces	
Key Dates (Fo										
KD-0905	KD6A: Section 6 - All works in Portion FH9 of the Ste but excluding works on the	0	0		20-Sep-17	-60	KD6A: Section 6 - All works in Portion FH9	of the Site but excluding works on	the deck surfaces	
KD-1405	deck surfaces KD11: Stage N4 - Completion of road widening of Fanling Highway within NBZ1 and	0	0		20-Sep-17*	-32	KD11: Stage N4 - Completion of road wide	ning of Fanling Highway within NB	1 and allow access for HY/2012	/06
KD-1305	allow access for HY/2012/06 KD10: Stage S4 - Completion of road widening of Fanling Highway within SBZ2 and	0	0		04-Nov-17*	0		KD10: Stage S4 - Complet	ion of road widening of Fanling H	lighway with
KD-1205	allow access for HY/2012/06 KD9: Stage 1C - Completion of viaduct structures and associated civil provisions for	0	0		09-Nov-17	-90		♦ KD9: Stage 1C - Con	pletion of viaduct structures and	associated
	TCSS and allow access for other									
	dover Schedule to TCSS contractor					_			, 	10110
HS-D1	Allow access for TCSS contractor to carry out TCSS installation works on Bridge D (from AD1 to AD10)	0	0		12-Oct-17*	-12		CSS contractor to carry out TCSS		
HS-C	Allow access for TCSS contractor to carry out TCSS installation works on Bridge C	0	0		23-Oct-17*	-33	♦ Allow	access for TCSS contractor to carr	y out TCSS installation works on	Bridge C
HS-B	Allow access for TCSS contractor to carry out TCSS installation works on Bridge B	0	0		13-Nov-17*	-12		 Allow access for 	TCSS contractor to carry out TCS	SS installation
HS-A	Allow access for TCSS contractor to carry out TCSS installation works on Bridge A	0	0		01-Dec-17*	0			 Allow access for TCSS contra 	ctor to carry
Dependent Mi	ilestones from Other Contracts									
Related to No.	rth Buffer Zone									
MS-NBZ140	Shift existing FLHN SB Fast Lane to future FLH 4th Lane by FHW3 Contractor	0	0	30-Sep-17*		0	Shift existing FLHN SB Fast Lar	e to future FLH 4th Lane by FHW	3 Contractor	
MS-NBZ150	Shift existing FLHN SB Middle Lane to future FLH 3rd Lane by FHW3 Contractor	0	0	21-Nov-17*		0		♦ Shift exi	sting FLHN SB Middle Lane to fur	ture FLH 3r
	uth Buffer Zone	Ū		21110711		Ŭ				
								FILLORIAL STATE IN FLIMAD OF STATE		
MS-SBZ130	Shift existing FLHS SB Middle Lane to future FLH 3rd Lane by FHW3 Contractor	0	0	20-Sep-17*		-4	Shift existing FLHS SB Middle Lane to future			
MS-SBZ120	Shift existing FLHS SB Fast Lane to future FLH 4th Lane by FHW3 Contractor	0	0	20-Sep-17*		-40	Shift existing FLHS SB Fast Lane to future	FLH 4th Lane by FHW3 Contracto	ir 	
MS-SBZ150	Shift existing FLHS NB 3 lanes westward by FHW3 Contractor	0	0	20-Sep-17*		-38	Shift existing FLHS NB 3 lanes westward b	y FHW3 Contractor		
MS-SBZ160	Shift existing FLHS NB Fast Lane to future FLH 4th Lane by FHW3 Contractor	0	0	10-Oct-17*		0	♦ Shift existing FLHS N	NB Fast Lane to future FLH 4th Lar	e by FHW3 Contractor	
MS-SBZ170	Shift existing FLHS NB Middle Lane to future FLH 3rd Lane by FHW3 Contractor	0	0	10-Nov-17*		0		♦ Shift existing FLHS N	B Middle Lane to future FLH 3rd	Lane by Fl
MS-SBZ140	Shift existing FLHS SB Slow Lane to future FLH 2nd Lane by FHW3 Contractor	0	0	12-Nov-17*		0		Shift existing FLHS	SB Slow Lane to future FLH 2n	d Lane by F
MS-SBZ180	Shift existing FLHS NB Slow Lane to future FLH 2nd Lane by FHW3 Contractor	0	0	10-Dec-17*		0			Shift existing FLHS	NB Slow Lar
Major Milosto	nes and Events									
major milestor	nes and Events									
	Actual V	Nork				CED	ontract No. CV/2012/09		gramme updated to 2017-0	
	Remain	ning W	/ork	ı			uen Wai BCP - Site Formation &	Date Revisio	on Checked	Approved
	Summa	ary Bar	r	-	-		cture Works, Contract 3			
	□ 建 築 工 程 有 限 公 司 Critical	Remai	ining V	Vork	•					
CHUN	Wo Construction & Engineering Co., Ltd.				=	3-I\	n Rolling Programme			
	Project		ine Ro	r i i	3MPR050		Page 1 of 1220-Sep-17			
	Tibject	-4001	Da	• •				1 1	1	

Activity ID	Activity Name		OD	RD	Start	Finish	TF		2017			2018
								Sep	Oct	Nov	Dec	Jan
MS-1060d	T6d: TTA to shift FLH SB eastward (shift 3 Lanes) (South Portion)		1	1	27-Sep-1	7 27-Sep-17	29		T6d: TTA to shift FLH SB eastward	(shift 3 Lanes) (South Portion)		
MS-1120a	T12a: TTA to shift FLHN SB Fast Lane to the Permanent Alignment (4th lane NBZ	ne), witin	1	1	30-Sep-1	7 30-Sep-17	38		T12a: TTA to shift FLHN SB Fas	t Lane to the Permanent Alignmer	nt (4th lane), witin NBZ	
MS-1070b	T7b: TTA to shift FLH SB F ast Lane to the Permanent Alignment (4th lane), SBZ	, within	1	1	15-Oct-17	7 15-Oct-17	0		T7b: TTA to shi	t FLH SB Fast Lane to the Perma	ent Alignment (4th lane), within	n SBZ
MS-1060c	T6c: TTA to shift FLH SB F ast Lane eastward (North Portion)		1	1	19-Oct-17	7* 19-Oct-17	-16		T6c: TTA t	oshift FLH SB Fast Lane eastward	(North Portion)	
MS-1090b	T9b: TTA to shift FLHS NB Fast Lane to the Permanent Alignment (4th lane) SBZ	e), within	1	1	26-Oct-17	7 26-Oct-17	17		₿ т9	b: TTA to shift FLHS NB Fast Lane	to the Permanent Alignment (4	th lane), within \$
MS-0320	Commissioning of re-aligned TWSRE		0	0	03-Nov-1	7	-17			 Commissioning of re-aligned 	TWSRE	
MS-1090c	T9c: TTA to shift FLHS NB Midde Lane to the Permanent Alignment (3rd lar within SBZ	ine),	1	1	10-Nov-1	7 10-Nov-17	11			I T9c: TTA to shift FLF	SNB Middle Lane to the Perma	anent Alignment
MS-1060c1	T6c1: TTA to shift FLH SB eastward (shift 3 lanes at Zone 5)		1	1	20-Nov-1	7 20-Nov-17	-14			∎ T6c1: TT	A to shift FLH SB eastward (shif	ft 3 lanes at Zon
MS-1120b	T12b: TTA to shift FLHN SB Middle Lane to the Permanent Alignment (3rd k witin NBZ	lane),	1	1	21-Nov-1	7 21-Nov-17	36			🖡 T12b: T	TA to shift FLHN SB Middle Lan	e to the Perman
MS-1070c	T7c: TTA to shift FLH SB Middle Lane to the Permanent Alignment (3rd lane	e), within	1	1	21-Nov-1	7 21-Nov-17	0			∎ т7с: тт	A to shift FLH SB Middle Lane to	o the Permanent
MS-1180d	SBZ T8d: TTA to shift FLH NB Fast Lane to the Permanent Alignment (4th lane)	(North	1	1	23-Nov-1	7 23-Nov-17	-32			I _{T8d:}	TTA to shift FLH NB Fast Lane to	o the Permanen
MS-1090d	Portion) T9d: TTA to shift FLHS NB Slow Lane to the Permanent Alignment (2nd land	ne), within	1	1	10-Dec-1	7 10-Dec-17	0				T9d: TTA to shift F	LHS NB Slow L
MS-0220	SBZ Commissioning of the diverted twin DN1400 Dong Jiang Watermains (Stage	ie 2)	0	0		13-Dec-17	17				Commissioning	g of the diverted
MS-1180e	T8e: TTA to shift FLH NB Middle Lane to the Permanent Alignment (3rd lane	e) (North	1	1	15-Dec-1	7 15-Dec-17	-31				T8e: TTA to s	shift FI H NB Mi
MS-1060e	Portion) T6e: TTA to shift FLH SB F ast Lane to the Permanent Alignment (4th lane) (1	1	16-Dec-1		-16					shift FLH SB F
	Portion)	(Couli			10 200 1						• TOE. TIA 10	
Major Procurer	ment & Delivery											
Lift for New Kiu	ı Tau Footbridge											
MM-4000	Procurement, Fabrication and delivery of Lift		164	112	29-Mar-17	A 09-Jan-18	-62					
Design and Sul	bmissions											
Statutory Appro	oval											
PRE-1060	Submission & approval of CDIA report for temporary works on nullah for co	onstruction	60	60	20-Sep-17	7* 01-Dec-17	338				Submission & approval of Cl	DIA report for te
Design Confirm	of new retaining wall 3SW-D/FR32											
PRE-1590	Confirmation of Noise Barrier Footing Design (NB70) and assoicated water	rmain	0	0		20-Sep-17*	0	Confirm	ation of Noise Barrier Footing Desig	gի (NB70) and assoicated waterm	ain diversion works	
PRE-1600	diversion works Confirmation of construction details of FL/C2 to cater for existing wall		0	0		20-Sep-17*	0	◆ Confirm	ation of construction details of FL/C	2 to cater for existing wall		
			Ū	0		20 000 11	0			U U		
	ent and Design (Major) Approved by AECOM											
PRE-2040	Submission of E&M design for lighting inside viaduct structures of Bridge A,	B, C & D	60	14	01-Apr-16		-59		Submission of E&M des	ign for lighting inside viaduct struct	ures of Bridge A, B, C & D, Subr	mission of E&M
PRE-2030	Submission of E&M design for lighting of Kiu Tau Footbridge		60	14	05-Sep-16	6A 07-Oct-17	-14		Submission of E&M des	ign for lighting of Kiu Tau Footbridg	e, Submission of E&M design fo	or lighting of Kiu
Section IA & IB	- Fanling Highway Widening (KD-1 & KD-2)											
Fanling Highwa	ay South Portion between CH6935 and CH7470											
		A att 10110	/ a							3-Month Rolling Pro	gramme updated to 2017-0	09-20
		Actual W Remaini						DD Contract No. CV/2012		Date Revisio		Approved
			•					Ing Yuen Wai BCP - Site				
	建築工程有限公司	Summar				I	nfra	astructure Works, Contra	ct 3			
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FHW-330 Noise Barrier NB69 - Footing adjacent to NB lane (108m) 77 77 11-Oct-17 12-Jan-18 1 FHW-3240 Road Pavement (Middle Part: FLH SB 4th lanes) 28 28 27 Oct-17 29-Nov-17 0 FHW-3300 Footpath, DSD Access Track adjacent to SB lane 60 60 60 23-Nov-17 03-Feb-18 0 FHW-3300 Footpath, DSD Access Track adjacent to SB lane 60 60 23-Nov-17 03-Feb-18 0 FHW-3300 Road Drainage, Road Formation & Pavement (FLH NB 1st lane & hard shoulder) 39 39 06-Dec-17 23-Jan-18 10 anling Highway North Portion between CH7470 and CH7925 CEDD Contract No. CV/2012/09 3-Month Rolling Programme updated to 2- C & A zeg 茶 工程 有 限 公 司 Summary Bar Critical Remaining Work Summary Bar Infrastructure Works, Contract 3 3-Month Rolling Programme 20-Sep-17 20-Sep-17 3MPR050 Page 3 of 12 20-Sep-17 20-Sep-17 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Actual Work Actual Work Actual Work CEDD Contract No. CV/2012/09 Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3 Summary Bar Critical Remaining Work Milestone Milestone MPR050 Page 3 of 12 20-Sep-17	FHW-330 Noise Barrier NB69 - Footing adjacent to NB lane (108m) 77 77 77 11-Oct-17 12-Jan-18 1 FHW-3240 Road Pavement (Middle Part: FLH SB 4th lanes) 28 28 27-Oct-17 29-Nov-17 0 FHW-3200 Footpath, DSD Access Track adjacent to SB lane 60 60 23-Nov-17 03-Feb-18 0 FHW-3300 Foodpath, DSD Access Track adjacent to SB lane 60 60 23-Nov-17 03-Feb-18 0 FHW-3300 Road Drainage, Road Formation & Pavement (FLH NB 1st lane & hard shoulder) 39 39 06-Dec-17 23-Jan-18 10 anling Highway North Portion between CH7470 and CH7925 Actual Work CEDD Contract No. CV/2012/09 3-Month Rolling Programme updated to 20 ² CH2 PA 建 祭 工 程 有 限 公司 CHUN Wo Construction & Engineer Ch7470 and CH7925 Actual Work CEDD Contract No. CV/2012/09 3-Month Rolling Programme updated to 20 ² CH2 PA 建 祭 工 程 有 限 公司 CHUN Wo Construction & Engineer Ch7470 and CH7925 Actual Work Summary Bar Critical Remaining Work Antial Work Summary Bar Critical Remaining Work 3-Month Rolling Programme 3-Month Rolling Programme 3 MPR050 Page 3 of 12 20-Sep-17 Date Checked <													
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FHW-300 Footpath, DSD Access Track adjacent to SB lane 60 60 23-Nov-17 03-Feb-18 0 FHW-3350 Road Drainage, Road Formation & Pavement (FLH NB 1st lane & hard shoulder) 39 39 06-Dec-17 23-Jan-18 10 aniling Highway North Portion between CH7470 and CH7925 Actual Work Image: CEDD Contract No. CV/2012/09 3-Month Rolling Programme updated to 2-Dec/Month Rolling Programme	60 60 23-Nov-17 03-Feb-18 0 d shoulder) 39 39 06-Dec-17 23-Jan-18 10 Actual Work Remaining Work Summary Bar CEDD Contract No. CV/2012/09 3-Month Rolling Programme updated to 2017-09-20 Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3 3-Month Rolling Programme Date Critical Remaining Work Milestone 3MPR050 Page 3 of 12 20-Sep-17	FHW-300 Footpath, DSD Access Track adjacent to SB lane 60 60 23-Nov-17 03-Feb-18 0 FHW-3350 Road Drainage, Road Formation & Pavement (FLH NB 1st lane & hard shoulder) 39 39 06-Dec-17 23-Jan-18 10 aniling Highway North Portion between CH7470 and CH7925 Actual Work 3-Month Rolling Programme updated to 201 December 2010 Actual Work Remaining Work Summary Bar Sumpry Bar Sumpry Bar	FHW-3340	Noise Barrier NB69 - Footing adjacent to NB lane (108m)	77	77	11-Oct-17	12-Jan-18	1						
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FHW-3350 Road Drainage, Road Formation & Pavement (FLH NB 1st lane & hard shoulder) 39 39 06-Dec-17 23-Jan-18 10 amiling Highway North Portion between CH7470 and CH7925 CEDD Contract No. CV/2012/09 Actual Work Remaining Work Actual Work Remaining Work Summary Bar Critical Remaining Work Actual Remaining	d shoulder) 39 39 06-Dec-17 23-Jan-18 10 Actual Work CEDD Contract No. CV/2012/09 3-Month Rolling Programme updated to 2017-09-20 Actual Work Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3 3-Month Rolling Programme updated to 2017-09-20 Critical Remaining Work Infrastructure Works, Contract 3 10 10 Milestone 3MPR050 Page 3 of 12 20-Sep-17	FHW-3350 Road Drainage, Road Formation & Pavement (FLH NB 1st lane & hard shoulder) 39 39 06-Dec-17 23-Jan-18 10 ianiling Highway North Portion between CH7470 and CH7925 Actual Work CEDD Contract No. CV/2012/09 3-Month Rolling Programme updated to 201 Actual Work Remaining Work Summary Bar Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3 3-Month Rolling Programme (本) ◆ Milestone Milestone 3MPR050 Page 3 of 12 20-Sep-17	FHW-300	Footpath, DSD Access Track adjacent to SB lane	60	60	23-Nov-17	03-Feb-18	0						<u> </u>
後和建築工程有限公司 Critical Remaining Work Milestone Mile	Remaining Work Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3 Date Revision Checked Approx Critical Remaining Work Infrastructure Works, Contract 3 Infrastructure Works, Contract 3 Infrastructure Works, Contract 3 Infrastructure Works, Contract 3 Milestone 3MPR050 Page 3 of 12 20-Sep-17 Infrastructure Works	 	FHW-3350	Road Drainage, Road Formation & Pavement (FLH NB 1st lane & hard shoulder)	39	39	06-Dec-17	7 23-Jan-18	10	1					
徐 和 建	Remaining Work Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3 Date Revision Checked Approx Critical Remaining Work Milestone 3MPR050 Page 3 of 12 20-Sep-17 Date Revision Checked Approx	徐 和 建	anling Highwa	y North Portion between CH7470 and CH7925											
後和建築工程有限公司 Critical Remaining Work CHUN WO CONSTRUCTION & ENGINEERING CO., LTD, CHUN WO CONSTRUCTION & ENGINEERING CO., LTD, CHUN WO CONSTRUCTION & ENGINEERING CO., LTD, CHUN WO CONSTRUCTION & ENGINEERING CO., LTD, Milestone CHUN WO CONSTRUCTION & ENGINEERING CO., LTD, CHUN WO CONSTRUCTION & ENGINE CO., LTD, CHUN WO CONSTRUCTION & C	Remaining Work Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3 Date Revision Checked Approx Critical Remaining Work Milestone 3MPR050 Page 3 of 12 20-Sep-17 Date Revision Checked Approx	後和建築工程有限公司 CHUN WO CONSTRUCTION & ENGINEERING CO., LTD.		T									1		
後和建築工程有限公司 Critical Remaining Work CHUN WO CONSTRUCTION & ENGINEERING CO., LTD.	Remaining Work Liantang / Heung Yuen Wai BCP - Site Formation & Summary Bar Infrastructure Works, Contract 3 Critical Remaining Work 3-Month Rolling Programme ♦ Milestone 3MPR050 Page 3 of 12 20-Sep-17	後和建築工程有限公司 CHUN WO CONSTRUCTION & ENGINEERING CO., LTD. ♦ Milestone Remaining Work Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3 3-Month Rolling Programme 3MPR050 Page 3 of 12 20-Sep-17		Actual	l Work				CE	DD Cont	ract No. CV			-	
後和建築工程有限公司 CHUN WO CONSTRUCTION & ENGINEERING CO., LTD. ● Milestone Infrastructure Works, Contract 3	Summary Bar Infrastructure Works, Contract 3 Critical Remaining Work 3-Month Rolling Programme ♦ Milestone 3MPR050 Page 3 of 12 20-Sep-17	後和建築工程有限公司 CHUN WO CONSTRUCTION & ENGINEERING CO., LTD.		Rema	ining W	/ork		Liantang /	Ηει	una Yuer	Wai BCP	- Site Formation &	Dale Revis		Appro
Critical Remaining Work Critical Remaining Work Milestone Critical Remaini	Critical Remaining Work 3-Month Rolling Programme ♦ Milestone 3MPR050 Page 3 of 12 20-Sep-17	Critical Remaining Work Critical Remaining Work Milestone Critical Remaini	# 10 T-		nary Ba	r		•		•					
◆ ◆ Milestone 3MPR050 Page 3 of 12 20-Sep-17	♦ Milestone 3MPR050 Page 3 of 12 20-Sep-17	◆ ◆ Milestone 3MPR050 Page 3 of 12 20-Sep-17			l Rema	aining V	/ork	-							
3MPR050 Page 3 of 12 20-Sep-17	3MPR050 Page 3 of 12 20-Sep-17	3MPR050 Page 3 of 12 20-Sep-17	CHUN V	VO CONSTRUCTION & ENGINEERING CO., LTD.	one				3-	wonth R					
Project Baseline Bar						line Ro		3MPR050			_Page 3 of 1	220-Sep-17			+

Activity ID	Activity Name	OD	RD	Start	Finish	TF	2017	Next	D	2018
Fanling Highwa	y Zone 4 between CH7380 and CH7470						Sep Oct	Nov	Dec	Jan
At-Grade Road	lworks (90m)									
EHW-4210b	Road Pavement, and Central Barrier (Middle Part: FLH NB 4th lane)	29	0	18-Jul-17 A	20-Sep-17	3	Road Pavement, and Central Barrier (Middle F	Part: ELH NB (th lane) Road Pa	(ement, and Central Barrier ()	Middle Part: F
	Noise Barrier NB68A - Footing at central median (Bay 22 - 23)	50	30	24-Jul-17 A	· · ·	0			·	
							Noise	Barrier NB68A - Footing at cent		
	Noise Barrier NB72 - Footing adjacent to SB lane (90m)	60	60	29-Sep-17		10			Noise Barrier NB	872 - Footing a
FHW-4240	Demolition of existing central divider	7	7	24-Oct-17	01-Nov-17	-26		Demolition of existing central div	ider	
FHW-4220b	Road Pavement, and Central Barrier (Middle Part: FLH SB 4th lanes)	28	28	27-Oct-17	29-Nov-17	0		F	Road Pavement, and Central	Barrier (Middl
FHW-4250	Road Pavement (FLH NB 4th lane) by re-surfacing	18	18	02-Nov-17	22-Nov-17	-26		Road Pa	vement (FLH NB 4th lane) by	y re-surfacing
FHW-400	Footpath, DSD Access Track adjacent to SB lane	60	60	23-Nov-17	03-Feb-18	0				
FHW-4310	Road Pavement (FLH NB 3rd lane) by re-surfacing	18	18	24-Nov-17	14-Dec-17	-27			Road Pavem	ent (FLH NB
FHW-4120A	Road Drainage, Road Formation & Pavement (FLH SB Merging lane)	45	45	29-Nov-17	23-Jan-18	10		Ļ		
FHW-4320	Road Pavement (FLH NB 2nd lane) by re-surfacing	18	18	16-Dec-17	09-Jan-18	-27				
FHW-4130	Road Pavement (FLH SB 3rd lane) by re-surfacing	18	18	18-Dec-17	10-Jan-18	-14				
Fanling Highwa	y Zone 5 between CH7470 and CH7600 (Provision of Kiu Tau Footbridge)									
Kiu Tau Footb	ridge Reprovision (East)									
	Installation of Drainage Pipe	30	30	20-Sep-17*	26-Oct-17	-30	Loothu Loothu	lation of Drainage Pipe		
								ation of Drainage Pipe		
	Installation of Lighting Facilities	45	45	27-Oct-17	19-Dec-17	-30				ion of Lighting
	Installation of Suspended Ceiling	45	45	27-Oct-17	19-Dec-17	-30			Installati	ion of Suspen
Provision of E	3FA Facilities (Lift)									
FHW-L-1000	RC Works for Lift Shaft	38	21	15-Jun-17 A	16-Oct-17	-39	RC Works for Lift	t Shaft, RC Works for Lift Shaft		
FHW-L-1010	Glazing & Louvre Installation	38	38	17-Oct-17	30-Nov-17	-39			Glazing & Louvre Installation	
FHW-L-1050	E&M Works including T&C	60	60	17-Oct-17	28-Dec-17	9				E&M Work
FHW-L-1020	Metal Roof	20	20	01-Dec-17	23-Dec-17	-39			Met	tal Roof
Works at existi	ing TWSRE									
FHW-5480	Noise Barrier NB72 & NB73 (Stage 1) - Footing adjacent to SB lane (97m)	60	58	18-Aug-17 A	A 29-Nov-17	15		,	loise Barrier NB72 & NB73 (S	Stage 1) - Foo
FHW-5480B	Noise Barrier NB73 - Mini-Piling adjacent to SB lane (CSD: 12 nos)	44	44	03-Oct-17*	24-Nov-17	35		Noise	Barrier NB73 - Mini-Piling adja	acent to SB la
FHW-5490	Road Drainage, Road Formation & Pavement (FLH SB Merging lane)	40	40	06-Nov-17	21-Dec-17	15				Drainage, Ro
	Noise Barrier NB72 & NB73 (Stage 2)- Footing adjacent to SB lane (13m)	35	35	11-Nov-17		35				Barrier NB72
	Remaining Road Formation & Pavement (FLH SB Merging lane)	18	18	01-Dec-17		35				
1110-3460D	Tremaning road i officion al avenient (FLFI OD Merging Idne)	10	10	01-060-17	21-Dec-1/	- 35			Rema	aining Road F
	建築工程有限公司 Vo Construction & Engineering Co., Ltd. ◆ ◆ Milesto	ining W hary Bar I Remai	ning W	/ork	Liantang /	Heu nfra	DD Contract No. CV/2012/09 Ing Yuen Wai BCP - Site Formation & Instructure Works, Contract 3 Month Rolling Programme Page 4 of 1220-Sep-17	3-Month Rolling Prog Date Revision	amme updated to 2017- Checked	09-20 Approved

ty ID	Activity Name	OD	RD	Start	Finish	TF	2017 Sep Oct	Nov	Dec	201 Jan
FHW-5480A	Grouting Works for the existing DN1400 watermain and Removal of existing	25	25	14-Dec-17	15-Jan-18	17	Gep Ou	NOV	Dec	Jai
At-Grade Roa	watermain d Works (130m)									
	Demolition of existing central divider	7	7	24-Oct-17	01-Nov-17	-26		Demolition of existing central	lvider	
FHW-5240	Road Pavement (FLH NB 4th lane) by re-surfacing	18	18	02-Nov-17	22-Nov-17	-26				
								<u></u>	Pavement (FLH NB 4th lane) b	
FHW-5100	Road Pavement (FLH SB 1st lane) by re-surfacing	14	14	03-Nov-17	18-Nov-17	-14		Road Pav	ement (FLH SB 1st lane) by re-	surfacing
FHW-5210	Road Formation & Pavement, Central Barrier (South Side) (FLH SB 4th lane)	22	22	21-Nov-17	15-Dec-17	-14			Road Forma	ation & Pav
FHW-5310	Road Pavement (FLH NB 3rd lane) by re-surfacing	18	18	24-Nov-17	14-Dec-17	-27			Road Pavem	nent (FLH
FHW-5320	Road Pavement (FLH NB 2nd lane) by re-surfacing	18	18	16-Dec-17	09-Jan-18	-27				
FHW-5110	Road Pavement (FLH SB 3rd lane) by re-surfacing	18	18	18-Dec-17	10-Jan-18	-14				
Fanling Highwa	ay Zone 6 between CH7600 and CH7660 (Existing Vehicular Bridge)									
At-Grade Roa	dworks (60m)									
FHW-6210	Road Drainage, Road Formation & Pavement and Central Barrier (South Side)	96	1	24-Apr-17 A	20-Sep-17	0		Road Drainag	e, Road Formation & Pavemen	nt and Cer
FHW-6140	(FLH SB 4th lane) Noise Barrier NB73 - Footing adjacent to SB lane (95m)	75	37	03-Jun-17 A	04-Nov-17	15		Noise Barrier NB73 - Foo	ing adjacent to SB lane (95m), I	Noise Bar
FHW-6230b	Construction of Sign Gantry Footing (South) G33	25	0	05-Aug-17 A	25-Aug-17 A			 Construction of Sign Gantry 		
FHW-6230a	Demolition of existing central divider	7	7	24-Oct-17	01-Nov-17*	-26		Demolition of existing central		
FHW-6240	Road Pavement (FLH NB 4th lane) by re-surfacing	18	18	02-Nov-17	22-Nov-17	-26				
								Road	Pavement (FLH NB 4th lane) by	by re-surfa
FHW-6150	Road Formation & Pavement (FLH SB Merging lane)	60	60	06-Nov-17	17-Jan-18	15				
FHW-6310	Road Pavement (FLH NB 3rd lane) by re-surfacing	18	18	24-Nov-17	14-Dec-17	-27			Road Pavem	nent (FLH I
FHW-6320	Road Pavement (FLH NB 2nd lane) by re-surfacing	18	18	16-Dec-17	09-Jan-18	-27				
Fanling Highw	ay Zone 7 between CH7660 and CH7925									
At-Grade Roa	dworks (265m)									
FHW-7130	Road Pavement (FLH SB 3rd lane) by re-surfacing	40	40	03-Oct-17	20-Nov-17	29		Road Pa	wement (FLH SB 3rd lane) by r	re-surfacin
FHW-7140	Road Pavement (FLH SB 2nd lane) by re-surfacing	40	40	22-Nov-17	10-Jan-18	29				
Remaining Wor	ks for Noise Barrier along widened Fanling Highway									
FHW-NB-230	Noise Barrier Steelworks & Panel for NB68A (225m), Fanling Highway central	12	46	02-Mar-17 A	15-Nov-17	66		Noise Barrier	Steelworks & Panel for NB68A ((225m). Fa
FHW-NB-240	median at Zones 2 & 3 Noise Barrier Steelworks & Panel for NB68A (50m), Fanling Highway central media		6	20-Sep-17	26-Sep-17	23	Noise Barrier Steelworks & Panel for N			
FHW-NB-220	at Zones 4 Noise Barrier Steelworks & Panel for NB68 (63m), Fanling Highway central media		13	20-Sep-17	06-Oct-17	7		Panel for NB68 (63m), Fanling		005 1
	A Zones 1 Noise Barrier Steelworks & Panel for NB72 & NB73 (248m), adjacent to Fanling					14		Panel for NB66 (63m), Paniling	ngriway central median at 201	les l
FHW-NB-150	Highway SB lanes at Zones 4, 5 & 6	30	30	12-Dec-17	18-Jan-18	14				
Erection of Sign	n Gantry									
	Actu	al Work				CE	DD Contract No. CV/2012/09	3-Month Rolling Pro	gramme updated to 2017-	-09-20
		naining V						Date Revisi	on Checked	Appro
		nmary Ba			•		Ing Yuen Wai BCP - Site Formation &			
	建築工程有限公司 Critic	cal Rema		Vork	1		istructure Works, Contract 3			
CHUN V	NO CONSTRUCTION & ENGINEERING CO. LTD.		annig i	VOIR		3-	Month Rolling Programme			
	♦ ♦ Mile	SIONE		1	3MPR050		Page 5 of 1220-Sep-17			
		ect Base			3MI 1(050		Fage 5 01 1220-3ep-17			

Activity ID	Activity Name	OD	RD	Start	Finish	TF	2017 2018
							Sep Oct Nov Dec Jan
FHW-SG-1020	Erection of Sign Gantry G53 (i.e. Steel Portal Frame)	7	7	20-Sep-17	27-Sep-17	105	Erection of Sign Gantry G53 (i.e. Steel Portal Frame)
FHW-SG-1000	Erection of Sign Gantry DS1 (i.e. Steel Portal Frame)	7	7	28-Nov-17	05-Dec-17	49	Erection of Sign Gantry DS1 (i.e. Ste
Section II - Rema	ainder of the Works (KD-3)						
At Grade Link Ro	oad at Fanling Highway Interchange						
Link Road 1 (ne	ear Abut ment AB1)						
FHI-LR1-1040a	a Noise Barrier NB66 - Pre-drilling & Mini-Piling (Cap 1-9 with 18 piles)	54	4	07-Apr-17 A	A 23-Sep-17	44	Noise Barrier NB66 - Pre-drilling & Mini-Piling (Cap 1-9 with 18
EHI-L B1-1080	Noise Barrier NB67 - Footing (96m) (Bay 6 - Bay 9)	80	0	30-Jun-17 A	A 20-Sep-17 A		Noise Barrier NB67 - Footing (96m) (Bay 6 - Bay 9)
	Noise Barrier NB66 - Footing adjacent NB lane (24m long, Bay 5 - Bay 7)		14			0	
		40		11-Sep-17 /		0	Noise Barrier NB66 - Footing adjacent NB lane (24m long, Bay 5 -
FHI-LR1-1020	Construction of Retaining Wall beside Abutment AB1 and filling work	115	115	20-Sep-17 /	A 07-Feb-18	-97	
FHI-LR1-1000	Completion of Realigned TWSR West and divert traffic onto the new carriageway (Stage S13)	0	0		20-Sep-17	21	Completion of Realigned TWSR West and divert traffic onto the new carriageway (Stage S13)
FHI-LR1-1320	Construction of Footing of sign gantry DS1	56	56	20-Sep-17	27-Nov-17	49	Construction of Footing of sign gantly DS1
FHI-LR1-1050	Noise Barrier NB67 - Pre-drilling & Mini-Piling (Cap 1-9 for raking piles, 18no.)	28	28	06-Oct-17	08-Nov-17	10	Noise Barrier NB67 - Pre-drilling & Mini-Piling (Cap 1-9 for raking p
FHI-LR1-1310	Installation of Steelwork & Transparent Panel - Noise Barrier 66 (76m)	20	20	09-Oct-17	01-Nov-17	48	Installation of Steelwork & Transparent Panel - Noise Barrier 66 (76m)
EHI-L B1-1120	Road Formation, Road Drainage, TCSS ducting, Kerb and Pavement (CH 80 - CH	45	45	09-Oct-17	30-Nov-17	0	Road Formation, Road Drainage, TCSS d
	240)						
	Noise Barrier NB67 - Footing (37.6m) (Bay 1 - Bay 3)	19	19	14-Oct-17		10	
FHI-LR1-1300	Installation of Steelwork & Transparent Panel - Noise Barrier 67 (132m)	30	30	07-Nov-17	11-Dec-17	44	Installation of Steelwork & Tra
Link Road 2 (ne	ear Abut ment AA1)						
FHI-LR2-2040c	Footing of Sign Gantry DS11	12	12	20-Sep-17*	* 04-Oct-17	-7	Footing of Sign Gantry DS11
FHI-LR2-2040b	Road Formation, Road Drainage, Kerb (SMH1302 - 1303 & MY2.4 - 2.5)	45	45	06-Oct-17	28-Nov-17	532	Road Formation, Road Drainage, Kerb (SM
FHI-LR2-2030	Construction of Retaining Wall (3SW-D/FR32)	55	55	02-Dec-17	* 07-Feb-18	338	
Link Road 4 (ne	ear Abutment AC1)						
	Construction of Retaining Wall beside Abutment AC1	120	38	15-May-17	A 06-Nov-17	-26	
							Construction of Retaining Wallb
FHI-LR4-4030	Road Formation, Road Drainage, TCSS ducting, Kerb and Pavement	55	55	27-Oct-17	03-Jan-18	-26	Roa
WSD Works							
DN450 Fire Main	ins (CHA)						
WA-3010b	Pipe Laying - CHA 705 - 720 (DN450) (saw-cut) along Ext. TWSR West SB, 15m	60	10	14-Jun-17 A	A 30-Sep-17	0	Pipe Laying - CHA 705 - 720 (DN450) (saw-cut) along Ext. TWSR West SB, 15m, Pipe Laying - CHA 705 - 72
WA-1130	Pipe Laying - CHA 315 - 385 (DN450) near Ext. TWSR West, 70m	32	32	24-Jul-17 A	30-Oct-17	32	Pipe Laying - CHA 315 - 385 (DN450) near Ext. TWSR West, 70m, Pipe Lay
WA-1110	Pipe Laying - CHA 155 - 270 (DN450) near Ext. TWSR West, 115m	44	44	24-Aug-17	A 13-Nov-17	4	Pipe Laying
WA-1010c	Pipe Laying - CHA 35 - 55 (DN450) near Ext. TWSR West, 20m	28	28	20-Sep-17		38	
WA-TOTOC	Fipe Laying - CHA 33 - 33 (DIW450) field EAL TWOR West, 2011	20	20	20-3ep-17	24-00-17	30	Pipe Laying - CHA 35 - 55 (DN450) near Ext. TWSR West, 20m
	Actual	Work				CE	DD Contract No. CV/2012/09 3-Month Rolling Programme updated to 2017-09-20
	Remai	ining W	/ork				Ing Yuen Wai BCP - Site Formation & Checked Approved
	Summ	nary Bar	r				
(後 和	建筑工程右阻公司	l Remai		/ork	1		astructure Works, Contract 3
A REAL PROPERTY OF A REAL PROPER	Vo Construction & Engineering Co. Ltd.					3-I	Month Rolling Programme
CHUN W							
CHUN W	♦ ♦ Milesto				3MPR050		Page 6 of 1220-Sep-17
Chun W		t Baseli	ine Bai	r	3MPR050		Page 6 of 1220-Sep-17

Activity ID	Activity Name	OD	RD Sta	art	Finish T	F			2017					2018
							Sep		Oct	No	v	Dec		Jan
WA-2020	Pipe Laying - CHA 508 - 540 (DN450) along Ext. TWSR West SB, 32m	42	42 03-Oc	ct-17	22-Nov-17	0					Pipe L	aying - CHA 508 - 540	(DN450) a	long Ext. TWS
WA-1010a	Pipe Laying - CHA 0 - 20 (DN450) near Ext. TWSR West, 20m	28	28 25-Oc	ct-17	27-Nov-17 3	8						Pipe Laying - CHA 0 - 2	0 (DN450)	near Ext. TW
WA-1020	Pipe Laying - CHA 55 - 155 (DN450) near Ext. TWSR West, 100m	45	45 14-No	ov-17	08-Jan-18	4								— Р
WA-2080	Pipe Laying - CHA 625 - 675 (DN450) along Ext. TWSR West SB, 50m	37	37 23-No	ov-17	08-Jan-18	5								Р
DN600 Water I	Mains (CHB)													
WB-1060B	Pipe Laying - CHB 577 - 585 (DN600) near J-Bridge, 8m	16	16 20-Sep	p-17*	10-Oct-17	7			Pipe Laying - CHB	577 - 585 (DN600)	near J-Bridge,	8m		
WB-1050	Pipe Laying - CHB 455 - 510 (DN600), 55m, from combined valve chamber to Realigned TWSR East	18	18 11-Oc	ct-17	01-Nov-17	7				Pipe Laying - (CHB 455 - 510	(DN600), 55m, from co	mbined va	lve chamber t
WB-1040	Pipe Laying - CHB 430 - 455 (DN600), 25m, from Pier AB7 to combined valve chamber	18	18 02-No	ov-17	22-Nov-17	7					Pipe L	aying - CHB 430 - 455	(DN600), 2	25m, from Pie
WB-1030C	Pipe Laying - CHB 410 - 430 (DN600), 20m, from Pier AA4 to Pier AB7	18	18 23-No	ov-17	13-Dec-17	7						Pipe L	aying - C⊦	HB 410 - 430 (
WB-4000	Pressure Test for CHB (CHB 360 - 570)	14	14 14-De	ec-17	02-Jan-18	7								Pressure
DN1200 Water	Mains (CHC)													
WC-1090C2	Pipe Laying - CHC 625 - 670 (DN1200), 45m, from Pier AB7 to combined valve chamber	30	0 03-Aug	g-17 A	20-Sep-17 A			Pipe Laying -	CHC 625 - 670 (DN1200			valve chamber		
WC-1120B	Pipe Laying - CHC 835 - 850 (DN1200), underneath J-Bridge, 15m	14	14 16-Aug	g-17 A	07-Oct-17 8	6								
WC-1010	Pipe Laying CHC 70 - 100 (DN1200) along existing TWSRW, 20m long & 3m depth	50	50 20-Se	ep-17	20-Nov-17	0					Pipe Lay	ing CHC 70 - 100 (DN	1200) alon	g existing TW៖
WC-1030	Construction of IT inspection tee chamber(s) near the Jacking Pits	50	50 21-No	ov-17	20-Jan-18	0								
WC-1070B	Pipe Laying - CHC 530 - 550 (DN1200), 20m, near FLH S/B (FHW: CH7380-7470) (common trench with NB)	25	25 14-De	ec-17	15-Jan-18	5								<u> </u>
WC-1090E	Pipe Laying - CHC 705 - 730 (DN1200), 25m, near DN1400 connection point	25	25 14-De	ec-17	15-Jan-18	5								
WC-1090C1	Pipe Laying - CHC 625 - 670 (DN1200), 45m, from Pier AA4 to Pier AB7	30	30 14-De	ec-17	20-Jan-18	0								<u> </u>
Twin DN1400 V	Water Mains (CHE & CHG)													
WE-1080	Construction of combined valve chamber with MBV installation	83	33 25-Jan	n-17 A	31-Oct-17	0				Construction of	combined valv	e chamber with MBV ins	stallation, C	onstruction of
WE-1040	Pipe Laying - CHE & CHG 220 - 260 (Twin DN 1400) near Pier AA4	45	16 07-Jun	n-17 A	10-Oct-17 1	3			Pipe Laying - CHE	& CHG 220 - 260 (1		ear Pier AA4, Pipe Layi	-	& CHG 220 - 2
WE-4020	Exposure of watermain connection point near NB71	12	12 20-Se	ep-17	04-Oct-17	0		E	xposure of watermain co	nnlection point near				
WE-3010A	Pipe Cleaning for CHE (Stage 2 Diversion)	4	4 26-Oc	ct-17	31-Oct-17	0				Pipe Cleaning for	or CHE (Stage	2 Diversion)		
WE-3020A	Pressure Test for CHE (Stage 2 Diversion)	6	6 01-No	ov-17	07-Nov-17	0				Pressur	e Test for CHE	(Stage 2 Diversion)		
WE-3010B	Pipe Cleaning for CHG (Stage 2 Diversion)	17	17 08-No	ov-17	27-Nov-17	0						Pipe Cleaning for CHG	(Stage 2 D	viversion)
WE-3040A	CCTV Inspection and Sterilization for CHE (Stage 2 Diversion)	6	6 08-No	ov-17	14-Nov-17	0					CCTV Inspectio	on and Sterilization for 0	CHE (Stage	e 2 Diversion)
WE-3050A	Connection to Existing Mains (CHE) (Stage 2 Diversion)	2	2 15-No	ov-17	16-Nov-17	5				-	Connection t	o Existing Mains (CHE)	(Stage 2 D	Diversion)
WE-3030A	Installation of Connecting Pipe at ID5 (CHG)	4	4 17-No	ov-17	21-Nov-17	5					Installa	tion of Connecting Pipe	at ID5 (C⊦	IG)
WE-3020B	Pressure Test for CHG (Stage 2 Diversion)	6	6 28-No	ov-17	04-Dec-17	0						Pressure Test fo	rCHG(Sta	age 2 Diversic
	Actual	Work			~					3-Mont	n Rolling Pro	gramme updated to	2017-09	9-20
	Remain Remain Summa	ning Wo ary Bar Remain ne	iing Work		iantang / He Infi	ung Yu astruct	ntract No. CV en Wai BCP - ure Works, C Rolling Prog Page 7 of 1:	Site Form ontract 3 ramme	ation & _20-Sep-17	Date	Revisio	<u> </u>		Approved

ty ID	Activity Name	OD	RD	Start	Finish	TF					2017					2018
								Se) 	0	ct		Nov		Dec	Jan
WE-3040B	CCTV Inspection and Sterilization for CHG (Stage 2 Diversion)	6	6	05-Dec-	17 11-Dec-17	0									CCTV Inspection a	nd Sterilizati
WE-3050B	Connection to Existing Mains (CHG) (Stage 2 Diversion)	2	2	12-Dec-	17 13-Dec-17	0									Connection to E>	kisting Mains
DN2200 Water	Mains (CHF)															
WF-1060	Excavation - CHF 73 - 91 (DN2200) across Box Culvert BC01 by Trenchless Method, 18m long	42	5	15-Jul-1	7 A 25-Sep-17	10							Ex	cavation - CH	F 73 - 91 (DN2200)	across Box
WF-1100	Expose existing DN2200 bend block	30	1	16-Sep-1	17 A 20-Sep-17	27		I	<mark></mark> [E>	pose existing DN	12200 bend block	, Expose existi	ng DN2200 bend blo	ick
WF-1020	Pipe Laying - CHF 9 - 54 (DN2200) across ext. TWSRW & associated Grouting Works, 45m long	44	44	20-Sep-	17* 13-Nov-17	0							Pipe Laying - Cł	HF 9 - 54 (DN	2200) across ext. TV	/SRW & as
WF-1110	Trimming existing bend block	25	25	21-Sep-	-17 21-Oct-17	27					Trimmin	g existin g bend b				
WF-1070	Pipe Laying - CHF 73 - 91 (DN2200) across Box Culvert BC01 & associated Grouting Works, 18m long	38	38	26-Sep-	17 11-Nov-17	10						F	Pipe Laying - CHF	73 - 91 (DN2	200) across Box Cu	vert BC01
WF-1080	Trench Excavation from Pit 4 to Connection Point near FLH NB, Section 4	36	36	09-Oct-	17 20-Nov-17	3							Trench	Excavation fro	m Pit 4 to Connection	n Point nea
WF-1120	Fabrication of DN2200 fitting for connection	48	48	23-Oct-	17 18-Dec-17	27									Fabrication	of DN2200
WF-1030	Trench Excavation and Temporary Works to Support 132kV Cables, Section 2	18	18	26-Oct-	17 16-Nov-17	0							Trench Exca	vation and Ter	nporary Works to Su	pport 132k'
WF-1040	Pipe Laying - CHF 54 - 73 (DN2200), Section 2	18	18	17-Nov-	-17 07-Dec-17	0								Pip	e Laying - CHF 54 -	73 (DN220
WF-1090	Pipe Laying - CHF 91 - 105 (DN2200), Section 4	12	12	21-Nov-	-17 04-Dec-17	3								Pipe L	aying - CHF 91 - 10	5 (DN2200)
WF-2000	Pressure Test for CHF	12	12	08-Dec-	-17 21-Dec-17	0									Pressur	e Test for C
DN1400 Water	Mains (CHK & CHKA)															
	Pressure Test for CHK/CHKA	7	7	14-Dec-	-17 21-Dec-17	22									Pressur	e Test for C
WK-2010	Pressure lest for CHIVCHIVA															
	ressure es lo creverica fa Po Trunk Sewage Pumping Station (PST3)															
		80	112	25-Nov-1	16 A 03-Feb-18	0										
Existing Nam W PS-1010	a Po Trunk Sewage Pumping Station (PST3)	80	112	25-Nov-1	16 A 03-Feb-18	0										
Existing Nam W PS-1010 Stage 1A - Real	a Po Tru nk Sewage Pumping Station (PST3) Construction of New Boundary Wall for Pumping Station (PST3)	80	112	25-Nov-1	16 A 03-Feb-18	0										
Existing Nam W PS-1010 Stage 1A - Real TWSRW Zone 5	<i>a Po Tru nk Sewage Pumping Station (PST3)</i> Construction of New Boundary Wall for Pumping Station (PST3) <i>lignment of Tai Wo Service Road West (KD-7)</i>	80	112	25-Nov-1	16 A 03-Feb-18	0										
Existing Nam W PS-1010 Stage 1A - Read TWSRW Zone 5 Construction of	a Po Tru nk Sewage Pumping Station (PST3) Construction of New Boundary Wall for Pumping Station (PST3) lignment of Tai Wo Service Road West (KD-7) betweeen CH376 and CH520	80	112	25-Nov-1								Slope W	orks for FL-C2 ne	ar Retaining \	Wall FL/RW4	
Existing Nam W PS-1010 Stage 1A - Reau TWSRW Zone 5 Construction of TWSRW-5150	la Po Tru nk Sewage Pumping Station (PST3) Construction of New Boundary Wall for Pumping Station (PST3) lignment of Tai Wo Service Road West (KD-7) betweeen CH376 and CH520 of Retaining Structures				17 04-Nov-17	0						Slope W	orks for FL-C2 n	-	Nall FL/RW4	
Existing Nam W PS-1010 Stage 1A - Reau TWSRW Zone 5 Construction of TWSRW-5150	Fa Po Tru nk Sewage Pumping Station (PST3) Construction of New Boundary Wall for Pumping Station (PST3) Ilignment of Tai Wo Service Road West (KD-7) between CH376 and CH520 of Retaining Structures Slope Works for FL-C2 near Retaining Wall FL/RW4 Remaining works incl. railing, u-channel on top of Bored Pile Wall	37	37	20-Sep-	17 04-Nov-17	0						Slope W	orks for FL-C2 n	-		
Existing Nam W PS-1010 Stage 1A - Real TWSRW Zone 5 Construction of TWSRW-5150 TWSRW-5120 At-Grade Road	Fa Po Tru nk Sewage Pumping Station (PST3) Construction of New Boundary Wall for Pumping Station (PST3) Ilignment of Tai Wo Service Road West (KD-7) between CH376 and CH520 of Retaining Structures Slope Works for FL-C2 near Retaining Wall FL/RW4 Remaining works incl. railing, u-channel on top of Bored Pile Wall	37	37	20-Sep- 05-Dec-	17 04-Nov-17 17 03-Feb-18	0				Filling Worl	ks between Ret					V7 and RW.
Existing Nam W PS-1010 Stage 1A - Real TWSRW Zone 5 Construction of TWSRW-5150 TWSRW-5120 At-Grade Road TWSRW-5120	Image: Particle of the second state	37 50	37 50	20-Sep- 05-Dec- 07-Jun-1	17 04-Nov-17 17 03-Feb-18 6 A 04-Oct-17	0				Filling Worl	ks between Reta					V7 and RW
Existing Nam W PS-1010 Stage 1A - Real TWSRW Zone 5 Construction of TWSRW-5150 TWSRW-5120 TWSRW-5120 TWSRW-5120	A Po Tru nk Sewage Pumping Station (PST3) Construction of New Boundary Wall for Pumping Station (PST3) Ilignment of Tai Wo Service Road West (KD-7) betweeen CH376 and CH520 of Retaining Structures Slope Works for FL-C2 near Retaining Wall FL/RW4 Remaining works incl. railing, u-channel on top of Bored Pile Wall Iworks A Filling Works between Retaining Wall RW7 and RW8	37 50 192	37 50 12	20-Sep- 05-Dec- 07-Jun-1	17 04-Nov-17 17 03-Feb-18 6 A 04-Oct-17 6 A 03-Feb-18	0				Filling Work	ks between Reta			Works betwee		
Existing Nam W PS-1010 Stage 1A - Real TWSRW Zone 5 Construction of TWSRW-5150 TWSRW-5120 At-Grade Road TWSRW-5120 TWSRW-5120	Image: Partial provides and provides an	37 50 192 85	37 50 12 112	20-Sep- 05-Dec- 07-Jun-1 27-Oct-1	17 04-Nov-17 17 03-Feb-18 6 A 04-Oct-17 6 A 03-Feb-18 17 04-Dec-17	000000000000000000000000000000000000000					ks between Reta	ning Wall RW7		Works betwee	en Retaining Wall RV	
Existing Nam W PS-1010 Stage 1A - Real TWSRW Zone 5 Construction of TWSRW-5150 TWSRW-5120 At-Grade Road TWSRW-5120 TWSRW-51200 TWSRW-51200	Fa Po Trunk Sewage Pumping Station (PST3) Construction of New Boundary Wall for Pumping Station (PST3) lignment of Tai Wo Service Road West (KD-7) between CH376 and CH520 of Retaining Structures Slope Works for FL-C2 near Retaining Wall FL/RW4 Remaining works incl. railing, u-channel on top of Bored Pile Wall Works A Filling Works between Retaining Wall RW7 and RW8 Construction of Extended Podium near RW7 incl. filling works & slope protection (covered by VO No.100) B Permanent Vehicular Access to Lot 81 (incl. filling works behind retaining wall RW8)	37 50 192 85 50	37 50 12 112 50	20-Sep- 05-Dec- 07-Jun-1 27-Oct-1 06-Oct-	17 04-Nov-17 17 03-Feb-18 6 A 04-Oct-17 6 A 03-Feb-18 17 04-Dec-17	000000000000000000000000000000000000000						ning Wall RW7	and RW8, Filling	Works betwee	en Retaining Wall RV	
Existing Nam W PS-1010 Stage 1A - Real TWSRW Zone 5 Construction of TWSRW-5150 TWSRW-5120 At-Grade Road TWSRW-5120 TWSRW-51200 TWSRW-51200	Fa Po Tru nk Sewage Pumping Station (PST3) Construction of New Boundary Wall for Pumping Station (PST3) Ilignment of Tai Wo Service Road West (KD-7) between CH376 and CH520 of Retaining Structures Slope Works for FL-C2 near Retaining Wall FL/RW4 Remaining works incl. railing, u-channel on top of Bored Pile Wall Works A Filling Works between Retaining Wall RW7 and RW8 Construction of Extended Podium near RW7 incl. filling works & slope protection (covered by VO No.100) B Permanent Vehicular Access to Lot 81 (incl. filling works behind retaining wall RW8) b Construction of Pavilion (covered by VO No.137)	37 50 192 85 50	37 50 12 112 50	20-Sep- 05-Dec- 07-Jun-1 27-Oct-1 06-Oct-	17 04-Nov-17 17 03-Feb-18 6 A 04-Oct-17 6 A 03-Feb-18 17 04-Dec-17	000000000000000000000000000000000000000						ning Wall RW7	and RW8, Filling	Works betwee	en Retaining Wall RV	
Existing Nam W PS-1010 Stage 1A - Real TWSRW Zone 5 Construction of TWSRW-5150 TWSRW-5120 At-Grade Road TWSRW-5120 TWSRW-51200 TWSRW-51200	A Po Tru nk Sewage Pumping Station (PST3) Construction of New Boundary Wall for Pumping Station (PST3) Iignment of Tai Wo Service Road West (KD-7) between CH376 and CH520 of Retaining Structures Slope Works for FL-C2 near Retaining Wall FL/RW4 Remaining works incl. railing, u-channel on top of Bored Pile Wall works A Filling Works between Retaining Wall RW7 and RW8 Construction of Extended Podium near RW7 incl. filling works & slope protection (covered by VO No.100) B Permanent Vehicular Access to Lot 81 (incl. filling works behind retaining wall RW8) b Construction of Pavilion (covered by VO No.137) betweeen CH530 and CH640	37 50 192 85 50	37 50 12 112 50	20-Sep- 05-Dec- 07-Jun-1 27-Oct-1 06-Oct-	17 04-Nov-17 17 03-Feb-18 6 A 04-Oct-17 6 A 03-Feb-18 17 04-Dec-17	0 0 0 0 0 0	DD Con	tract No. (CV/2012/			Jining Wall RW7	and RW8, Filling	Works betwee Perma	en Retaining Wall RV Inent Vehicular Acces Indated to 2017-05	ess to Lot 81
Existing Nam W PS-1010 Stage 1A - Real TWSRW Zone 5 Construction of TWSRW-5150 TWSRW-5120 At-Grade Road TWSRW-5120 TWSRW-51200 TWSRW-51200	A Po Tru nk Sewage Pumping Station (PST3) Construction of New Boundary Wall for Pumping Station (PST3) Iignment of Tai Wo Service Road West (KD-7) between CH376 and CH520 of Retaining Structures Slope Works for FL-C2 near Retaining Wall FL/RW4 Remaining works incl. railing, u-channel on top of Bored Pile Wall works A Filling Works between Retaining Wall RW7 and RW8 Construction of Extended Podium near RW7 incl. filling works & slope protection (covered by VO No.100) B Permanent Vehicular Access to Lot 81 (incl. filling works behind retaining wall RW8) b Construction of Pavilion (covered by VO No.137) betweeen CH530 and CH640 Actual	37 50 192 85 50 75	37 50 12 112 50 75	20-Sep- 05-Dec- 07-Jun-1 27-Oct-1 06-Oct-	17 04-Nov-17 17 03-Feb-18 6 A 04-Oct-17 6 A 03-Feb-18 17 04-Dec-17 17 03-Feb-18	0 0 0 0 0 0 0 0 0 0				/09		ining Wall RW7	and RW8, Filling	Works betwee Perma	en Retaining Wall RV Inent Vehicular Acces Indated to 2017-05	ss to Lot 8 -20
Existing Nam W PS-1010 Stage 1A - Real TWSRW Zone 5 Construction of TWSRW-5150 TWSRW-5120 At-Grade Road TWSRW-5120 TWSRW-51200 TWSRW-51200 TWSRW-51200 TWSRW-51200	A Po Tru nk Sewage Pumping Station (PST3) Construction of New Boundary Wall for Pumping Station (PST3) Ilignment of Tai Wo Service Road West (KD-7) betweeen CH376 and CH520 of Retaining Structures Slope Works for FL-C2 near Retaining Wall FL/RW4 Remaining works incl. railing, u-channel on top of Bored Pile Wall Works A Filling Works between Retaining Wall RW7 and RW8 Construction of Extended Podium near RW7 incl. filling works & slope protection (covered by VO No.100) B Permanent Vehicular Access to Lot 81 (incl. filling works behind retaining wall RW8) b Construction of Pavilion (covered by VO No.137) betweeen CH530 and CH640 Actual Rema	37 50 192 85 50 75 Work	37 50 12 112 50 75 75	20-Sep- 05-Dec- 07-Jun-1 27-Oct-1 06-Oct-	17 04-Nov-17 17 03-Feb-18 6 A 04-Oct-17 6 A 03-Feb-18 17 04-Dec-17	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ing Yue	n Wai BC	P - Site F	09 Formation		aining Wall RW7	and RW8, Filling	Works betwee Perma	en Retaining Wall RV Inent Vehicular Acces Indated to 2017-05	ss to Lot 8
Existing Nam W PS-1010 Stage 1A - Real TWSRW Zone 5 Construction of TWSRW-5150 TWSRW-5120 At-Grade Road TWSRW-5120 TWSRW-5120 TWSRW-5120 TWSRW-5120 TWSRW-5120 TWSRW-5120 TWSRW-5120	A Po Trunk Sewage Pumping Station (PST3) Construction of New Boundary Wall for Pumping Station (PST3) Ingmeent of Tai Wo Service Road West (KD-7) Detweeen CH376 and CH520 of Retaining Structures Slope Works for FL-C2 near Retaining Wall FL/RW4 Remaining works incl. railing, u-channel on top of Bored Pile Wall Works A Filling Works between Retaining Wall RW7 and RW8 Construction of Extended Podium near RW7 incl. filling works & slope protection (covered by VO No.100) Permanent Vehicular Access to Lot 81 (incl. filling works behind retaining wall RW8) o Construction of Pavilion (covered by VO No.137) Detweeen CH530 and CH640	37 50 192 85 50 75 Work ining V work Para	37 50 12 112 50 75 75	20-Sep- 05-Dec- 07-Jun-1 27-Oct-1 06-Oct- 06-Nov-	17 04-Nov-17 17 03-Feb-18 6 A 04-Oct-17 6 A 03-Feb-18 17 04-Dec-17 17 03-Feb-18	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ing Yue astructu	n Wai BC re Works,	P - Site F Contrac	09 Formation		aining Wall RW7	and RW8, Filling	Works betwee Perma	en Retaining Wall RV Inent Vehicular Acces Indated to 2017-05	ss to Lot 8
Existing Nam W PS-1010 Stage 1A - Real TWSRW Zone 5 Construction of TWSRW-5150 TWSRW-5120 At-Grade Road TWSRW-5120 TWSRW-5120 TWSRW-5120 TWSRW-5120 TWSRW-5120 TWSRW-5120 TWSRW-5120	A Po Trunk Sewage Pumping Station (PST3) Construction of New Boundary Wall for Pumping Station (PST3) Ifgmment of Tai Wo Service Road West (KD-7) between CH376 and CH520 of Retaining Structures Slope Works for FL-C2 near Retaining Wall FL/RW4 Remaining works incl. railing, u-channel on top of Bored Pile Wall Works A Filling Works between Retaining Wall RW7 and RW8 Construction of Extended Podium near RW7 incl. filling works & slope protection (covered by VO No.100) B Permanent Vehicular Access to Lot 81 (incl. filling works & slope protection (covered by VO No.100) B Permanent Vehicular Access to Lot 81 (incl. filling works behind retaining wall RW8) Construction of Pavilion (covered by VO No.137) betweeen CH530 and CH640 Category Construction & Encinement Construction of Critica	37 50 192 85 50 75 Work Work U Nork U Remark	37 50 12 112 50 75 75	20-Sep- 05-Dec- 07-Jun-1 27-Oct-1 06-Oct- 06-Nov-	17 04-Nov-17 17 03-Feb-18 6 A 04-Oct-17 6 A 03-Feb-18 17 04-Dec-17 17 03-Feb-18	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ing Yue astructu	n Wai BC	P - Site F Contrac	09 Formation		aining Wall RW7	and RW8, Filling	Works betwee Perma	en Retaining Wall RV Inent Vehicular Acces Indated to 2017-05	ess to Lot 81
Existing Nam W PS-1010 Stage 1A - Real TWSRW Zone 5 Construction of TWSRW-5150 TWSRW-5120 At-Grade Road TWSRW-5120 TWSRW-5120 TWSRW-5120 TWSRW-5120 TWSRW-5120 TWSRW-5120 TWSRW-5120	A Po Trunk Sewage Pumping Station (PST3) Construction of New Boundary Wall for Pumping Station (PST3) Ifgmment of Tai Wo Service Road West (KD-7) between CH376 and CH520 of Retaining Structures Slope Works for FL-C2 near Retaining Wall FL/RW4 Remaining works incl. railing, u-channel on top of Bored Pile Wall Works A Filling Works between Retaining Wall RW7 and RW8 Construction of Extended Podium near RW7 incl. filling works & slope protection (covered by VO No.100) B Permanent Vehicular Access to Lot 81 (incl. filling works & slope protection (covered by VO No.100) B Permanent Vehicular Access to Lot 81 (incl. filling works behind retaining wall RW8) o Construction of Pavilion (covered by VO No.137) betweeen CH530 and CH640 Actual Rema Summ Critica No CONSTRUCTION & ENGINEERING Co., LTD.	37 50 192 85 50 75 VWork Work Work U Rema Dang Ba	37 50 12 112 50 75 75 /ork r ining V	20-Sep- 05-Dec- 07-Jun-1 27-Oct-1 06-Oct- 06-Nov-	17 04-Nov-17 17 03-Feb-18 6 A 04-Oct-17 6 A 03-Feb-18 17 04-Dec-17 17 03-Feb-18	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ing Yue astructu	n Wai BC re Works,	P - Site F Contrac ogramme	09 Formation	1 &	aining Wall RW7	and RW8, Filling	Works betwee Perma	en Retaining Wall RV Inent Vehicular Acces Indated to 2017-05	ss to Lot 81
Existing Nam W PS-1010 Stage 1A - Real TWSRW Zone 5 Construction of TWSRW-5150 TWSRW-5120 At-Grade Road TWSRW-5120 TWSRW-5120 TWSRW-5120 TWSRW-5120 TWSRW-5120 TWSRW-5120 TWSRW-5120	A Po Trunk Sewage Pumping Station (PST3) Construction of New Boundary Wall for Pumping Station (PST3) Ifgmment of Tai Wo Service Road West (KD-7) between CH376 and CH520 of Retaining Structures Slope Works for FL-C2 near Retaining Wall FL/RW4 Remaining works incl. railing, u-channel on top of Bored Pile Wall Works A Filling Works between Retaining Wall RW7 and RW8 Construction of Extended Podium near RW7 incl. filling works & slope protection (covered by VO No.100) B Permanent Vehicular Access to Lot 81 (incl. filling works & slope protection (covered by VO No.100) B Permanent Vehicular Access to Lot 81 (incl. filling works behind retaining wall RW8) o Construction of Pavilion (covered by VO No.137) betweeen CH530 and CH640 Actual Rema Summ Critica No CONSTRUCTION & ENGINEERING Co., LTD.	37 50 192 85 50 75 VWork Work Work U Rema Dang Ba	37 50 12 112 50 75 75	20-Sep- 05-Dec- 07-Jun-1 27-Oct-1 06-Oct- 06-Nov-	17 04-Nov-17 17 03-Feb-18 6 A 04-Oct-17 6 A 03-Feb-18 17 04-Dec-17 17 03-Feb-18 Liantang	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ing Yue astructu	n Wai BC re Works, Colling Pro	P - Site F Contrac ogramme	/09 Formation ct 3 e	1 &	aining Wall RW7	and RW8, Filling	Works betwee Perma	en Retaining Wall RV Inent Vehicular Acces Indated to 2017-05	es to Lot 8

vity ID	Activity Name	OD	RD	Start	Finish	TF			2017					2018
At-Grade Roady	unrks						Sep		Oct		Nov	Dec		Jan
						_								
	Remaining Road Drainage, Road Formation, Road Pavement and Footpath (incl. Zone 6 & Zone 7)	60	60	23-Nov-1	7 03-Feb-18	0								
TWSRW Zone 8 I	betweeen CH640 and CH695													
At-Grade Road	works													
TWSRW-8120B	Remaining Road Drainage, Road Formation, Road Pavement and Footpath	60	60	23-Nov-1	7 03-Feb-18	0								
Remainder of the	e Works													
TWSRW-9020	Filling Works to the abandoned section of TWSRW and modify existing sewerage manhole	48	48	14-Nov-1	7 11-Jan-18	20								
Utilities Laying														
UU-1040A	Utilities Duct Laying in Area 4, Phase 2, Towngas - DN600 & DN400, approx. 50m	121	50	15-Sep-16	A 20-Nov-17*	0					Utilities D	uct Laying in Area 4, F	hase 2, To	owngas - D
UU-1030A	(by their own TTA) Utilities Duct Laying in Area 3, Phase 2, CLP - 132kV(150mVA), approx. 30m	27	27	20-Sep-1	7* 23-Oct-17*	56			Utilitie	s Duct Laving in	Area 3. Phase 2. 0	CLP - 132kV(150mVA)	approx.3	30m
UU-1010A	Utilities Duct Laying in Area 1, Phase 2, CLP - 132kV(150mVA), approx.30m at	16	16	01-Nov-1		21				, g		t Laying in Area 1, Pha		
UU-1010B	Utilities Duct Laying in Area 1, Phase 2, Towngas - DN600, approx.20m at interface	13	13	20-Nov-1		21						Utilities Duct La		
	section											Otilities Duct La	/ing in Are	_
UU-1040B	Utilities Duct Laying in Area 4, Phase 2, CLP - 132kV(150mVA), approx.50m (by their own TTA)	33	33	21-Nov-1	7 30-Dec-17*	0								Utilities
Switch-Over of	Existing Utilitiess													
UU-SO-1010	Cabling Works for telecom utilities	42	42	20-Sep-1	7* 31-Oct-17	22				Cabling Wor	ks for telecom utiliti	es		
UU-SO-2520	Switch-over Works (CLP 11kV)	16	16	20-Sep-1	7* 05-Oct-17	12			Switch-over Works (CLP	11kV)				
UU-SO-1500	Switch-over Works (Telecom)	0	0		31-Oct-17	19				Switch-over	Works (Telecom)			
UU-SO-3500	Switch-over Works (Towngas, DN400)	30	30	21-Nov-1	7* 20-Dec-17	619							Switch-	over Work
UU-SO-3510	Switch-over Works (Towngas, DN600)	30	30	05-Dec-1	7 03-Jan-18*	605								sv
Remaining Work	s for Noise Barrier along realigned TWSR West													
TWSRW-NB-140	Noise Barrier Steelworks & Panel for NB2 at Zone 5	15	15	05-Dec-1	7 21-Dec-17	35							Noise	Barrier Ste
Stage N4A & N4	B - Realignment of Tai Wo Service Road East (KD-13 & KD-14)													
	petween CH100 and CH270													
At-Grade Roadv														
	Remaining Noise Barrier NB3 Stem Wall (a total of 24m long)	25	25	20-Sep-1		-4			Remainir	ng Noise Barrier	NB3 Stem Wall (a	total of 24m long)		
TWSRE-1170	Road Drainage	24	24	20-Sep-1	7 19-Oct-17	-3			Road Dra	inage				
TWSRE-1180	Road Formation, Kerb and Pavement (Incl. FL/F8A, FL/F9)	24	24	21-Sep-1	7 20-Oct-17	-4			Road Fo	rmation, Kerb ar	nd Pavement (Incl.	FL/F8A, FL/F9)		
TWSRE Zone 2 b	etween CH270 and CH380													
At-Grade Roady	works													
						_	· · · · · ·			3-Mc	onth Rolling Proc	gramme updated to	2017-0	09-20
	Actual	i Work ining W	ork				DD Contract No. CV			Date	Revisio	· · · · · · · · · · · · · · · · · · ·		Approve
		nary Bar					ing Yuen Wai BCP							
A th In	建筑工程方限公司	il Remai		Vork	I		astructure Works, C							
	O CONSTRUCTION & ENGINEERING CO., LTD.	a nornal	y v			3-	Month Rolling Prog	ramm	е					
	O CONSTRUCTION & ENGINEERING CO., LTD.	~~~				-								
		one ct Baseli			3MPR050		Page 9 of 1		20-Sep-17					

Activ	ty ID	Activity Name	OD	RD	Start	Finish	TF				2017			2018
	,								Sep		Oct	Nov	Dec	Jan
	TWSRE-2100	Road Formation, Kerb and Pavement	20	20	26-Sep-17	20-Oct-17	-4				Road Fo	hation, Kerb and Pavement		
	740055 0070				00 NJ 17							Commissioning of Realigned	TWSP Fact	
	IWSRE-2070	Commissioning of Realigned TWSR East	0	0	03-Nov-17		-14						ITWOR Last	
	TWSRE Zone 3 b	etween CH380 and CH456												
	At-Grade Roadw	uorko												
	Al-Grade Roadw	VOTKS												
	TWSRE-3040	Road Formation, Kerb and Pavement (Ind. FL/F10)	35	35	20-Sep-17	02-Nov-17	-14					Road Formation, Kerb and F	avement (Incl. FL/F10)	
	Remaining Works	s for Noise Barrier along realigned TWSR East						-						
	nemaning norm	s of Horse Durier along reargined i Hort Last												
	TWSRE-NB-120	Installation of Steelwork & Transparent Panel - Noise Barrier NB3 (254m)	35	35	09-Jun-17 A	02-Nov-17	77					Instal	lation of Steelwork & Transparent I	Panel - Noise I
	Stage 1C - Viadu	ct Structure & TCSS Civil Provisions (KD-9)												
	U													
	Viaduct Bridge S	egement Election												
	Bridge D								{ }					
	ED-1120	Bridge Deck Construction at Pier AD 12 by Special Lifting Frame (50 nos in which 21 nos above MTR Railway)	82	0	09-Mar-17 A	22-Aug-17 A		Bridge D	eck Construction at P	er AD 12 by	Special Lifting Frame (50 nos in w	hich 21 nos above MTR Railway)		
		Bridge Deck Construction at Pier AD 13 by Crane (12 nos)	2	0	03-Aug-17 A	24-Aug-17 A			Bridge Deck Constru	ction at Pier	AD 13 by Crane (12 nos)			
			0.5						-					
		Bridge Deck Construction at Portal AD11 by Special Lifting Frame (54 nos in which 12 nos above MTR Railway)	65	65	11-Sep-17 A	07-Dec-17	-119						Bridge Deck Construction	on at Portal AD
	Key Segment Er	rection and Stitch Casting (Narrow-box Section)												
						00.4 (7.4								
	KS-D-1130A	Stitching Works between AD13W and AD14W End Span	14	0	18-Aug-17 A	22-Aug-17 A			s	itching Worl	s between AD13W and AD14W	Ehd Span		
	KS-D-1130B	Stitching Works between AD13E and AD14E End Span	14	0	26-Aug-17 A	30-Aug-17 A					Stitching Works betwee	AD13E and AD14E End Span		
	KD B 2000	Construction of longitudinal stitch at Bridge P2	40	49	20-Sep-17	19 Nov 17	16					Orantauti	f lag situ dina latitak at Deidas Di	
	KD-B-2000	Construction of longitudinal stitch at Bridge B2	49	49	20-Sep-17	18-Nov-17	10					Constructio	oh of longitudinal stitch at Bridge B	2
	KS-D-1110B	Stitching Works between AD11E and AD12E	24	24	09-Nov-17	06-Dec-17	-118						Stitching Works between	AD11E and A
	KS-D-1100B	Erection AD10E K11 and stitching works	14	14	07-Dec-17	22-Dec-17	-98						Exection	n AD10EK11 a
	NO-D-1100D		14	14	07-060-17	22-060-17	-30						Elecio	
	KS-D-1120B	Stitching Works between AD12E and AD13E	14	14	07-Dec-17	22-Dec-17	-98						Stitchin	g Works betw
	KS-D-1110A	Stitching Works between AD11W and AD12W	24	24	08-Dec-17	08-Jan-18	-119	-						St
		···· · · · · · · · · · · · · · · · · ·												0.
	Major Works on L	Deck Surfaces												
	Permanent Exte	rnal Ten don Stressing Works												
	_							_						
	PP-B-1030	Permanent Prestressing for Bridge B (AB10W-AB12W)	7	0	28-Aug-17 A	06-Sep-17 A			:	— Р	ermanent Prestressing for Bridge	B (AB10W-AB12W)		
	PP-A-1060	Permanent Prestressing for Bridge A (AB10E-AB12E)	7	0	11-Sep-17 A	12-Sep-17 A				— P	ermanent Prestressing for Bridge			
	Demonsteller	4						-						
	Parapet Installat													
	Bridge A													
	PI-A-1040L	Parapet Installation, Profile Barrier & Planter for Bridge A (AA13-AA18), LHS	74	50	21-Jun-17 A	20-Nov-17	0					Doronot	Installation, Profile Barrier & Plante	at for Bridge A
	TITLIGIOL			00	21 0011 11 11	201107 11	Ū					Faiapei		a loi briuge A
	PI-A-1030L	Parapet Installation, Profile Barrier & Planter for Bridge A (AA9-AA13), LHS	83	42	04-Jul-17 A	10-Nov-17	8					Parapet Installation,	Profile Barrier & Planter for Bridge	e A (AA9-AA13
												1		
		Actual	Work				CE	DD Con	ract No. CV	//2012/	09		gramme updated to 2017-09	
		Remai	ning W	ork							Formation &	Date Revisio	on Checked /	Approved
		Summ	•											
A	後 和	建築工程有限公司 Critical			lork	1			re Works, C					
11		O CONSTRUCTION & ENGINEERING CO. LTD.		u iiriy V			3-	Month R	olling Prog	ramme	e			
						3MPR050			_Page 10 of 1	2	20-Sep-17			
		Projec	t Baseli	ine Ba	r				-		·			

Activity ID	Activity Name	OD	RD	Start	Finish	I TF			2017				2018
							Se)	Oct	Nov		Dec	Jan
PI-A-1030R	Parapet Installation, Profile Barrier & Planter for Bridge A (AA9-AA13), RHS	87	46	04-Jul-17 A	A 15-Nov-17	4				Parape	t Installation,	, Profile Barrier & Planter for I	Bridge A (AA9
PI-A-1010L	Parapet Installation, Profile Barrier for Bridge A (AA1-AA5), LHS	66	38	04-Sep-17	A 06-Nov-17	12						Parapet Installation, Pr	ofile Barrier fo
PI-A-1020L	Parapet Installation, Profile Barrier & Planter for Bridge A (AA5-AA9), LHS	60	50	07-Sep-17	A 20-Nov-17	0						Parapet I	nstallation, Pro
PI-A-1040R	Parapet Installation, Profile Barrier & Planter for Bridge A (AA13-AA18), RHS	50	50	11-Sep-17	A 20-Nov-17	0				P	arapet Install	llation, Profile Barrier & Plante	er for Bridge A
PI-A-1050L	Parapet Installation, Profile Barrier for Bridge A (AA18-AB10E), LHS	50	50	20-Sep-17	7 20-Nov-17	0	-			P	arapet Install	llation, Profile Barrier for Bridg	ge A (AA18-AE
PI-A-1060R	Parapet Installation, Profile Barrier & Planter for Bridge A (AB10E-AB12E), RHS	50	50	20-Sep-17	7 20-Nov-17	0				P	arapet Install	llation, Profile Barrier & Plante	er for Bridge A
PI-A-1010R	remaining Parapet Installation, Profile Barrier & Planter for Bridge A (AA1-AA5), RHS	42	42	20-Sep-17	7 10-Nov-17	0	-			Parapet Insta	allation, Profil	le Barrier & Planter for Bridge	e A (AA1-AA5)
PI-A-1050R	Parapet Installation, Profile Barrier for Bridge A (AA18-AB10E), RHS	16	16	20-Sep-17	7 10-Oct-17	34	-		Parapet Installation,	Profile Barrier for Bridge A	(AA18-AB10)E), RHS	
PI-A-1060RM	Parapet Installation for Bridge A (AB10E-AB12E), RHS above MTRC railway	31	31	20-Sep-17	7 27-Oct-17	19			F	Parapet Installation for Bridg	e A (AB10E-	AB12E), RHS above MTRC I	railway
PI-A-1020R	Parapet Installation, Profile Barrier & Planter for Bridge A (AA5-AA9), RHS	34	34	11-Oct-17	20-Nov-17	0				P	arapet Install	llation, Profile Barrier & Plante	er for Bridge A
Bridge B													
PI-B-1010R	Parapet Installation, Profile Barrier & Planter for Bridge B (AB1-AB6), RHS	103	34	01-Aug-17	A 01-Nov-17	0						arapet Installation, Profile Bar	rrier & Planter
PI-B-1010L	Parapet Installation, Profile Barrier for Bridge B (AB1-AB6), LHS	103	34	04-Aug-17	A 01-Nov-17	0						 Parapet Installation, Profile 	
PI-B-1020L	Parapet Installation, Profile Barrier for Bridge B (AB6-AB10W), LHS	44	44	05-Sep-17	A 13-Nov-17	-10				Parapet I	nstallation P	rofile Barrier for Bridge B (AE	
PI-B-1030LM	Parapet Installation for Bridge B (AB10W-AB12W), LHS above MTRC railway	31	31	20-Sep-17		3	_					(-AB12W), LHS above MTRC	
PI-B-1020R	Parapet Installation, Profile Barrier for Bridge B (AB6-AB10W), RHS	16	16	20-Sep-17		18				1		,,	
PI-B-1030L	Parapet Installation, Profile Barrier & Planter for Bridge B (AB10W-AB12W), LHS	34	34	20-Sep-17		0	_		Parapet installation,				M(AB42)A()
Bridge C	remaining	34	34	20-06p-17	01-1100-17	0				Parapet Installation, Ph	one barner o	& Planter for Bridge B (AB10)	VV-AB12VV), L
PI-C-1020L	Parapet Installation, Profile Barrier & Planter for Bridge C (AC5-AC8), LHS	59	15	15-Feb-17	A 09-Oct-17	-62			Parapet Installation,	Profile Barrier & Planter for I	Bridge C (AC	C5-AC8), LHS, Parapet Instal	llation, Profile I
PI-C-1020R	Parapet Installation, Profile Barrier & Planter for Bridge C (AC5-AC8), RHS	110	14	09-Mar-17	A 07-Oct-17	-61			Parapet Installation, Pr	ofile Barrier & Planter for Bri	idge C (AC5-	-AC8), RHS, Parapet Installa	tion, Profile Ba
PI-C-1010L	Parapet Installation, Profile Barrier for Bridge C (AC1-AC5), LHS	54	27	12-Jul-17 /	A 23-Oct-17	-74			Para	pet Installation, Profile Barrie	er for Bridge	C (AC1-AC5), LHS, Parapet	Installation, P
PI-C-1010R	Parapet Installation, Profile Barrier & Planter for Bridge C (AC1-AC5), RHS	84	27	12-Jul-17 /	A 23-Oct-17	-74			F	Parapet Installation, Profile B	Barrier & Plan	nter for Bridge C (AC1-AC5),	RHS, Parape
PI-C-1050RM	1 Other Civil Works on Bridge Deck for TCSS duct laying - Bridge C	14	14	24-Oct-17	09-Nov-17	-74				Other Civil Wo	orks on Bridg	ge Deck for TCSS duct laying	- Bridge C
Bridge D													
PI-D-1020R	Parapet Installation, Profile Barrier & Planter for Bridge D (AD5-AD8W), RHS	78	13	09-May-17	A 06-Oct-17	-3	5					Bridge D (AD5-AD8W), RHS	, Parapet Insta
PI-D-1020L	Parapet Installation, Profile Barrier for Bridge D (AD5-AD8W), LHS	90	13	11-May-17	A 06-Oct-17	-3						ier for Bridge D (AD5-AD8W), LHS, Parap
PI-D-1010R	Parapet Installation, Profile Barrier & Planter for Bridge D (AD1-AD5), RHS	83	18	16-Jun-17	A 12-Oct-17	-8			Pi	arapet Installation, Profile Ba	arrier & Plant	ter for Bridge D (AD1-AD5), F	RHS, Parapet
PI-D-1010L	Parapet Installation, Profile Barrier & Planter for Bridge D (AD1-AD5), LHS	52	18	03-Jul-17 A	A 12-Oct-17	-8			Pa	rapet Installation, Profile Bar	rrier & Plante	er for Bridge D (AD1-AD5), Ll	HS, Parapet Ir
Roadworks, Ro	ad Facilities and Miscellaneous inside Viaduct Internal Voids												
		110/1								: 3-Month Rollin	a Program	nme updated to 2017-09)-20
		l Work					DD Contract No. (Revision		Approved
		aining W			•		ung Yuen Wai BCI						
1 後和	建筑工程有限公司	nary Bar			I	nfra	astructure Works,	Contract 3					
	Vo Construction & Engineering Co. Ltd.	al Remai	ning W	ork		3-	Month Rolling Pro	gramme					
chow r	Milesto	tone			3MPR050		Page 11 o	-	20-Sep-17				
	Projec	ct Baseli	ne Bar				i age i i o	· · -					

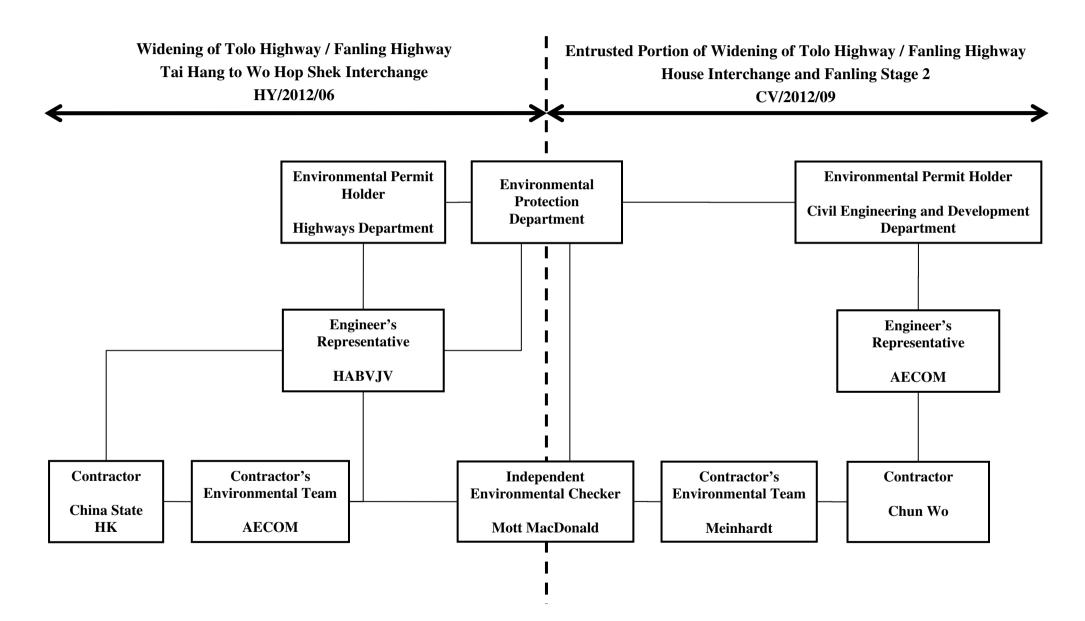
ctivity ID	Activity Name	OD	RD	Start	Finish	TF				2017			2018
							Se	р	Oct		Nov	Dec	Jan
RS-1030	Movement Joints and Road Furniture incl. Deck Drainage, Lightings, Steel Rails,NB, Water Main for Bridge D (AD1 to AD8)	80	80	09-Oct-17	13-Jan-18	-20							
RS-1000	Movement Joints and Road Furniture incl. Deck Drainage, Lightings, Steel Rails,NB, Water Main for Bridge A (AA1 to AB12)	140	140	09-Oct-17	04-Apr-18	-59							
RS-1010	Movement Joints and Road Furniture incl. Deck Drainage, Lightings, Steel Rails,NB, Water Main for Bridge B (AB1 to AB12)	120	120	09-Oct-17	08-Mar-18	-39							
RS-1020	Movement Joints and Road Furniture incl. Deck Drainage, Lightings, Steel Rails,NB, Water Main for Bridge C (AC1 to AD10)	100	100	09-Oct-17	06-Feb-18	-40							
Section VI - W	/orks in Portion FH9 (KD-6A)												
Major Works													
S6-3000	Removal of Temp Road, Facilities and restatement the Portion FH9 to the condition as taking possession	18	0	21-Jul-17 A	18-Sep-17 A			Removal c	f Temp Road, Facilities ar	id restatement	the Portion FH9 to the	condition as taking possession	
S6-5000	Removal of Falsework near Abutment AD14W	6	6	20-Sep-17	26-Sep-17	583		F	Removal of Falsework nea	ar Abutment AD	914W		
S6-5010	Removal of Falsework near Abutment AD14E	6	6	20-Sep-17	26-Sep-17	583		F	Removal of Falsework nea	ar Abutment AD	014E		
Landscaping	& Establishment Works (KD-4, 4A, 5, 5A, 6)												
Secton III - Re	emainder of Landscaping Softworks Not Included in Secton IIIA												
S3-1000	Transplanting along Realigned TWSR West	60	60	06-Oct-17	15-Dec-17	5						Transplan	ting along Reali
S3-1010	Transplanting along Fanling Highway	70	70	27-Oct-17	20-Jan-18	7							
S3-1020	Remaining Drainage Works and Land Formation at FH3, FH4, FH5	50	50	08-Dec-17	07-Feb-18	0							

	Actual Work	CEDD Contract No. CV/2012/09	3-Moi	nth Rolling Programme	updated to 2017	-09-20
	Remaining Work	Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3	Date	Revision	Checked	Approved
後和建築工程有限公司 CHUN Wo CONSTRUCTION & ENGINEERING CO., LTD.	Critical Remaining Work Milestone Project Baseline Bar	3-Month Rolling Programme 3MPR050Page 12 of 1220-Sep-17				



Appendix B Project Organization Structure







Appendix C Calibration Certificates of Monitoring Equipment



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 - Fe Operator		Rootsmeter Orifice I.I		438320 1941	Ta (K) - Pa (mm) -	294 - 750.57
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	======================================	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA NA	NA NA NA NA NA	1.00 1.00 1.00 1.00 1.00	1.4600 1.0410 0.9280 0.8840 0.7290	3.2 6.4 7.9 8.7 12.7	2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Oa	(y axis)
				va	Qa 	
0.9967	0.6827	1.4149		0.9957	0.6820	0.8851
0.9925	0.9534	2.0010 2.2372	CONCEPTION OF	0.9915	0.9524	1.2517
0.9894	1.1192	2.3464		0.9894	1.0661	1.3995
0.9840	1.3499	2.8299		0.9830	1.3485	1.7702
Qstd slop intercept coefficie	t (b) =	2.11965 -0.02696 0.99991	ner	Qa slope intercept coefficie	z (b) =	1.32729 -0.01686 0.99991
y axis =	SQRT [H2O (I	Pa/760) (298/5	 Ta)]	y axis =	SQRT [H2O (7	Га/Ра)]

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

TSP Sampler Calibration

Location: Lian	Tang 3		Date:	September 6, 2017
		# . 2250)		÷
Sampler: TE-5	5170 MFC (Serial	# : 2359)	Tech:	Sam Wong

CONDITIOND						
Barometric Pres	sure (in Hg):	39.68	Corrected Pressure	(mm Hg):	1008	
Tempera	ture (deg F):	92	Temperature	(deg K):	306	
Average Pr	ess. (in Hg):	39.68	Corrected Average	(mm Hg):	1008	
Average I	emp. (deg F):	92	Average Temp.	(deg K):	306	

CALIBRATION ORIFICE							
Make:	Tisch	Qstd Slope:	2.11965				
Model:	TE-5025A	Qstd Intercept:	-0.02696				
Serial#:	1941	Date Certified:	February 28, 2017				

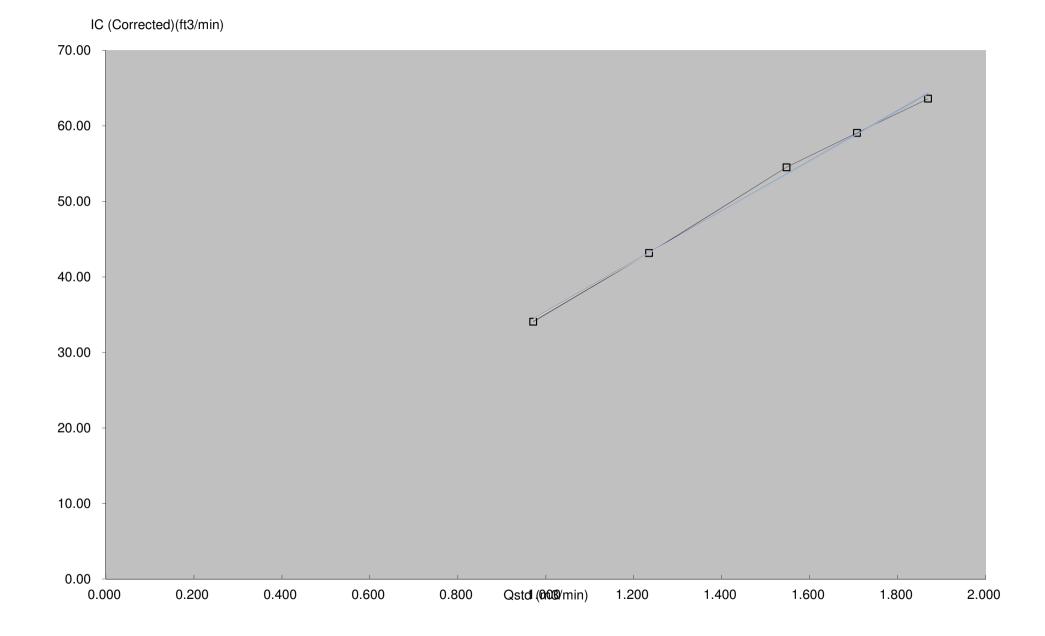
CALIBRATIONS							
Plate or Test #	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	LINEAR REGRESSION		
1	12.00	1.869	56.0	63.61	Slope =	33.3004	
2	10.00	1.707	52.0	59.06	Intercept =	2.0710	
3	8.20	1.547	48.0	54.52	Corr. coeff.=	0.9987	
4	5.20	1.235	38.0	43.16			
5	3.20	0.971	30.0	34.07	<pre># of Observations:</pre>	5	

Calculations

IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]
Qstd = standard flow rate
IC = corrected chart response
I = actual chart response
m = calibrator Qstd slope
b = calibrator Qstd intercept
Ta = actual temperature during calibration (deg K)
Pa = actual pressure during calibration (mm Hg)
Tstd = 298 deg K
Pstd = 760 mm Hg
For subsequent calculation of sampler flow:
1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)

Qstd = 1/m[Sqrt(H2O(Pa/Pstd)(Tstd/Ta))-b]

m = sampler slope b = sampler intercept I = chart response Tav = daily average temperature Pav = daily average pressure





Certificate No.	708774		Page	1 of 2 Pa	ages
Customer :	Enovative Environmental Serv	ice Limited			
Address :	Flat 6, 3/F, Block E, Wah Lok	Industrial Centre, 31-	35 Shan Mei Stree	et, Shatin, N.T.,	Hong Kong.
Order No. :	Q73499		Date of receipt	: 1-	Sep-17
Item Tested					
Description :	Sound Level Calibrator				
Manufacturer :			I.D.	: 215901	
Model :	NC-74		Serial No.	: 34857296	
Test Conditi	ions				
Date of Test :	4-Sep-17		Supply Voltage	:	
Ambient Temp	•		Relative Humid		, 0
Test Specifi	cations			·	
Calibration chee	ck.				
Ref. Document	/Procedure : F21, Z02, IEC 609	42.			
Test Results	3				aja •
All results were	within the IEC 60942 Class 1 s	pecification.			
The results are	shown in the attached page(s).				
Main Test equip	oment used:				
Equipment No.	Description	<u>Cert. No.</u>		Traceable to	
S014	Spectrum Analyzer	707126		NIM-PRC & SC	L-HKSAR
S240	Sound Level Calibrator	703741		NIM-PRC & SC	L-HKSAR
S041	Universal Counter	707135		SCL-HKSAR	
S206	Sound Level Meter	707129		SCL-HKSAR	
will not include allow overloading, mis-ha for any loss or dam The test equipment	this Calibration Certificate only relate wance for the equipment long term drift andling, or the capability of any other la age resulting from the use of the equip t used for calibration are traceable to In oly to the above Unit-Under-Test only	:, variations with environm boratory to repeat the mea ment.	ental changes, vibratio asurement. Hong Kong	n and shock during g Calibration Ltd. sh	transportation, all not be liable
Calibrated by	:	αΑ	proved by :	F	

Elva (Chong
--------	-------

This Certificate is issued by:

Approved by :	
· · · · ·	Alan Chu

Date:	4-Sep-17

Hong Kong Calibration Ltd. Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong. Tel: 2425 8801 Fax: 2425 8646



Certificate No. 708774

Page 2 of 2 Pages

Results :

1. Level Accuracy (at 1 kHz)

UUT Nominal Value	Measured Value	Mfr's Spec.
94 dB	94.1 dB	± 1 dB

Uncertainty : $\pm 0.2 \text{ dB}$

2. Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's Spec.
1 kHz	0.998 kHz	±2 %

Uncertainty : ± 0.1 %

- **3.** Level Stability : 0.0 dB Uncertainty : ± 0.01 dB
- 4. Total Harmonic Distortion : < 1.5% Mfr's Spec. : < 3 % Uncertainty : ± 2.3 % of reading

Remarks: 1. UUT : Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric Pressure : 1 025 hPa

----- END -----



Certificate No	. 708773		Page	1 of 3 Pages
Customer :	Enovative Environmental Ser	vice Limited		
Address :	Flat 6, 3/F, Block E, Wah Lok	Industrial Centre,	31-35 Shan Mei Stre	eet, Shatin, N.T., Hong Kong.
Order No. :	Q73499		Date of receip	t : 1-Sep-17
Item Tested	k			
Description	: Sound Level Meter			
Manufacturer	: Rion		I.D.	:
Model	: NL-52		Serial No.	: 00821072
Test Condi	tions			
Date of Test :	5-Sep-17		Supply Voltag	je :
Ambient Tem	perature : (23 ± 3)°C		Relative Humi	idity:(50 ± 25) %
Test Specif	fications			
Calibration che	⊳ck			
	t/Procedure: Z01, IEC 61672.			
Test Result	ts			
	e within the IEC 61672 Type1 o e shown in the attached page(s)		pecification.	
Main Test equ	ipment used:			
Equipment No	•	Cert. No.		Traceable to
S017	Multi-Function Generator	C170120		SCL-HKSAR
S240	Sound Level Calibrator	703741		NIM-PRC & SCL-HKSAR
will not include all overloading, mis- for any loss or da The test equipme	in this Calibration Certificate only relate owance for the equipment long term dr handling, or the capability of any other l mage resulting from the use of the equi nt used for calibration are traceable to	ift, variations with enviro laboratory to repeat the ipment. International System of	onmental changes, vibra measurement. Hong Ko	tion and shock during transportation, ong Calibration Ltd. shall not be liable
The test results a	pply to the above Unit-Under-Test only			
Calibrated by	· :		Approved by :	

Elva Chong

This Certificate is issued by:

Alan Chu Date: 5-Sep-17

Hong Kong Calibration Ltd. Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street,Kwai Chung, NT,Hong Kong. Tei: 2425 8801 Fax: 2425 8646



Certificate No. 708773

Page 2 of 3 Pages

Results :

1. Self-generated noise: 16.4 dBA (Mfr's Spec \leq 17 dBA)

2. Acoustical signal test

	UUT Se	etting			
	Frequency	Time	Octave	Applied	UUT
Range (dB)	Weighting	Weighting	Filter	Value (dB)	Reading (dB)
20-130	A	F	OFF	94.0	94.1
		S	OFF		94.1
	С	F	OFF		94.1
	Z	F	OFF		94.1
	A	F	OFF	114.0	114.1
		S	OFF		114.1
	С	F	OFF		114.1
	Z	F	OFF		114.1

IEC 61672 Type 1 Spec. : \pm 1.1 dB Uncertainty : \pm 0.1 dB

3 Electrical signal tests of frequency weightings (A weighting)

Frequency	Attenuation (dB)	IEC 61672 Type 1 Spec.
31.5 Hz	-39.7	- 39.4 dB, ± 2 dB
63 Hz	-26.2	- 26.2 dB, ± 1.5 dB
125 Hz	-16.2	- 16.1 dB, ± 1.5 dB
250 Hz	-8.7	- 8.6 dB, ± 1 dB
500 Hz	-3.2	- $3.2 \text{ dB}, \pm 1.4 \text{ dB}$
1 kHz	0.0 (Ref)	$0 \text{ dB}, \pm 1.1 \text{ dB}$
2 kHz	+1.2	$+$ 1.2 dB, \pm 1.6 dB
4 kHz	+1.0	$+$ 1.0 dB, \pm 1.6 dB
8 kHz	-1.1	- 1.1 dB, + 2.1 dB ~ -3.1 dB
16 kHz	-8.0	- 6.6 dB, + 3.5 dB ~ - 17.0 dB

Uncertainty : $\pm 0.1 \text{ dB}$



Certificate No. 708773

Page 3 of 3 Pages

4. Frequency & Time weightings at 1 kHz

4.1	Fraguanov	Weighting	(Fact)
4.1	riequency	weighung	(rasi)

UUT	Applied	UUT	Difference	IEC 61672
Setting	Value (dB)	Reading (dB)	(dB)	Type 1 Spec.
А	94.0	94.0 (Ref.)		± 0.4 dB
С	94.0	94.0	0.0	
Z	94.0	94.0	0.0	

4.2 Time Weighting (A-weighted)

UUT	Applied	UUT	Difference	IEC 61672
Setting	Value (dB)	Reading (dB)	(dB)	Type 1 Spec.
Fast	94.0	94.0 (Ref.)		± 0.3 dB
Slow	94.0	94.0	0.0	
Time-averaging	94.0	94.0	0.0	

Uncertainty : $\pm 0.1 \text{ dB}$

Remarks : 1. UUT : Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric Pressure : 1 028hPa.
- 4. Preamplifier model : NH-25, S/N : 10553
- 5. Microphone model: UC-59, S/N: 07040
- 6. Power Supply Check: OK
- 7. The UUT was adjusted with the supplied sound calibrator at the reference sound pressure level before the calibration.

----- END -----



Appendix D EM&A Monitoring Schedules

Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling Stage 2 Impact Monitoring & Site Auditing Schedule for September 2017

			September 201	7		
Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	6	7 ET Site Walk(09:30am – 11:00am)	8	9
10	11 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	12	13	14 ET Site Walk(09:30am – 11:00am)	15 24-hour TSP + 3 x 1-hour TSP	16
17	18	19	20 ET Site Walk(09:30 am – 11:00 am) with Liantang Project-wide ET and IEC + SSEMC	21 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	22	23
24	25	26	27 ET Site Walk(09:30am – 11:00 am) with Fanling Stage 2 IEC & Liantang Project-wide ET and IEC 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	28	29	30

Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling Stage 2 Impact Monitoring & Site Auditing Schedule for October 2017

			October 2017			
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2 The day following National Day	3 ET Site Walk(09:30am – 11:00am) 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	4	5 The day following the Chinese Mid-Autumn Festival	6	7
8	9 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	10	11	12 ET Site Walk(09:30am – 11:00am)	13 24-hour TSP + 3 x 1-hour TSP	14
15	16	17	18 ET Site Walk(09:30 am – 11:00 am) with Liantang Project-wide ET and IEC + SSEMC (To be confirmed)	19 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	20	21
22	23	24	25 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	26 ET Site Walk(09:30am – 11:00 am) with Fanling Stage 2 IEC & Liantang Project-wide ET and IEC (To be confirmed)	27	28 Chung Yeung Festival
29	30	31 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)		·		



Appendix E Meteorological Data Extracted from Hong Kong Observatory

Daily Extract of Meteorological Observations, September 2017

			Но	ng Kong O	bserva	atory			King's Park	Waglan Is	iland^
Day	Mean Pressure (hPa)	Air T Absolute Daily Max (deg. C)	empera Mean (deg. C)	Absolute Daily Min (deg. C)	Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Mean Amount of Cloud (%)	Total Rainfall (mm)	Total Bright Sunshine (hours)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
01	1005.6	31.7	27.9	26.1	24.6	83	85	6.5	2.4		
02	1004.5	30.4	27.9	26.4	24.8	83	88	1.0	1.1		
03	1005.4	29.9	27.3	25.6	25.1	88	88	23.8	0.8		
04	1006.7	27.6	26.4	25.3	24.4	89	90	32.8	0.2		
05	1008.5	30.7	28.3	25.9	25.8	87	83	6.4	2.6		
06	1007.5	32.3	29.1	27.3	25.6	82	82	Trace	7.2		
07	1008.2	30.7	28.5	27.5	25.4	84	86	1.8	1.1		
08	1009.3	30.9	28.4	26.9	25.2	83	64	1.1	6.5		
09	1009.0	32.0	28.1	26.0	25.5	86	77	25.8	4.0		
10	1010.1	32.2	29.1	26.7	25.3	81	68	Trace	8.3		
11	1009.7	32.4	29.8	27.6	24.9	75	30	0.0	10.8		
12	1009.3	32.8	29.9	27.9	25.5	77	51	0.6	5.8		
13	1009.5	34.0	30.0	28.3	24.4	73	71	0.0	8.6		
14	1008.5	31.5	29.0	27.6	21.5	64	76	0.0	6.8		
15	1009.5	33.2	29.4	27.8	24.8	77	76	Trace	4.9		
16	1009.9	32.6	29.9	27.7	24.3	73	52	0.0	10.6		
17	1009.4	32.6	30.1	28.5	24.5	72	36	0.0	8.5		
18	1009.8	32.9	29.7	27.8	24.8	75	30	0.0	10.9		
19	1010.2	32.2	29.1	27.6	24.1	75	39	0.0	9.3		
20	1009.3	32.0	29.3	27.6	25.1	78	73	0.2	6.8		
21	1008.6	32.0	29.4	27.9	25.3	79	70	Trace	7.9		
22	1009.9	32.0	29.1	26.1	25.9	83	72	17.9	6.9		
23	1010.8	31.4	29.0	26.7	26.1	85	75	33.4	5.5		
24	1008.8	30.5	28.8	27.1	25.7	84	81	5.6	2.4		
25	1010.1	31.9	29.4	27.7	25.8	81	81	0.5	5.4		
26	1011.0	32.9	29.7	27.8	25.4	78	41	0.0	9.6		
27	1009.6	33.0	29.9	27.7	25.6	78	34	0.0	7.9		
28	1009.2	34.1	30.3	28.2	24.6	72	25	0.0	10.9		
29	1012.2	33.1	30.2	28.8	25.8	78	63	Trace	8.9		
30	1013.7	30.3	28.3	25.9	25.6	86	72	35.0	4.5		
Mean/Total	1009.1	31.9	29.0	27.2	25.0	80	65	192.4	187.1		
Normal [§]	1008.9	30.1	27.7	25.8	23.4	78	66	327.6	172.3	090	22.6

*** unavailable

^ Information of wind direction and wind speed for Waglan Island are based on automatic weather station data since January 1989

Trace means rainfall less than 0.05 mm

§ 1981-2010 Climatological Normal, unless otherwise specified

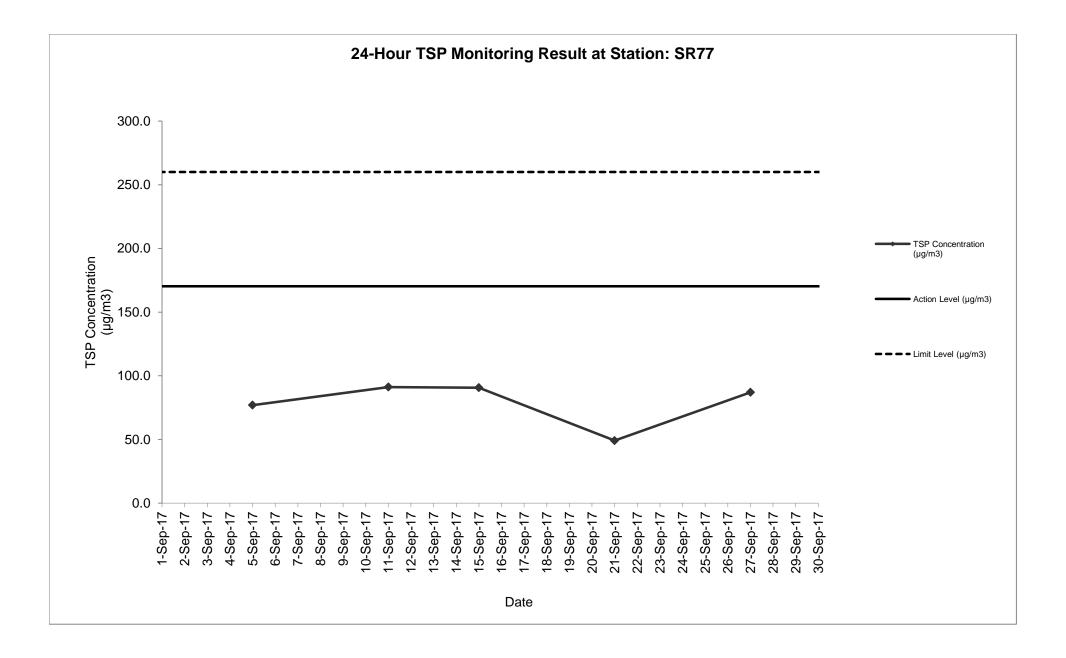


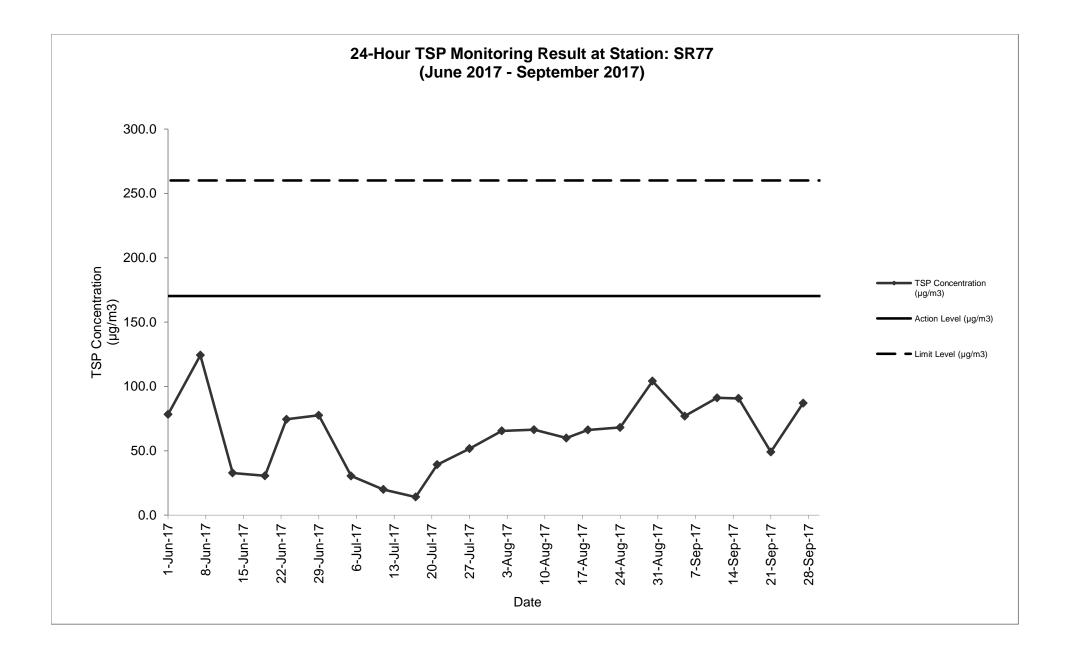
Appendix F Air Quality Monitoring Results and their Graphical Presentation

Sampling Date	Weather Condition	Starting Time	Paper No.	w N	/t. of paper	. (g)	E	lapse Tim	ie	Flo	w Rate (C	FM)	Flow	/ Rate (m ³	/min)	Total Volume	TSP Concentration	Action Level	Limit Level	Wind speed	Wind direction	NOE	IR
Date	Condition	Time		Initial Wt.	Final Wt.	Wt. of Dust	Initial	Final	Sampling Hour	Initial	Final	Avg Flow Rate	Initial	Final	Avg Flow Rate	(m³)	(µg/m³)	(µg/m3)	(µg/m3)	m/s	unection		
5-Sep-17	Fine	12:11	CC84	2.8574	3.0175	0.1601	7033.67	7057.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	77.0	170.3	260.0	<5	N		
11-Sep-17	Sunny	12:11	CC86	2.8448	3.0344	0.1896	7060.67	7084.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	91.2	170.3	260.0	<5	N		
15-Sep-17	Fine	12:12	CC88	2.8430	3.0316	0.1886	7087.67	7111.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	90.7	170.3	260.0	<5	N		
21-Sep-17	Fine	12:11	CC90	2.8425	2.9447	0.1022	7114.67	7138.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	49.1	170.3	260.0	<5	N		
27-Sep-17	Fine	12:12	CC92	2.8518	3.0328	0.1810	7141.67	7165.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	87.0	170.3	260.0	<5	N		
																Average	79.0						
																Min	49.1	1					
																Max	91.2]					

24-Hour TSP Monitoring Result at Station: SR77

Note:No major dust source observed during the monitoring periodData in Bold denotes exceedanece of respective Action LevelData in Bold Underlinedenotes exceedance of respective Limit Level

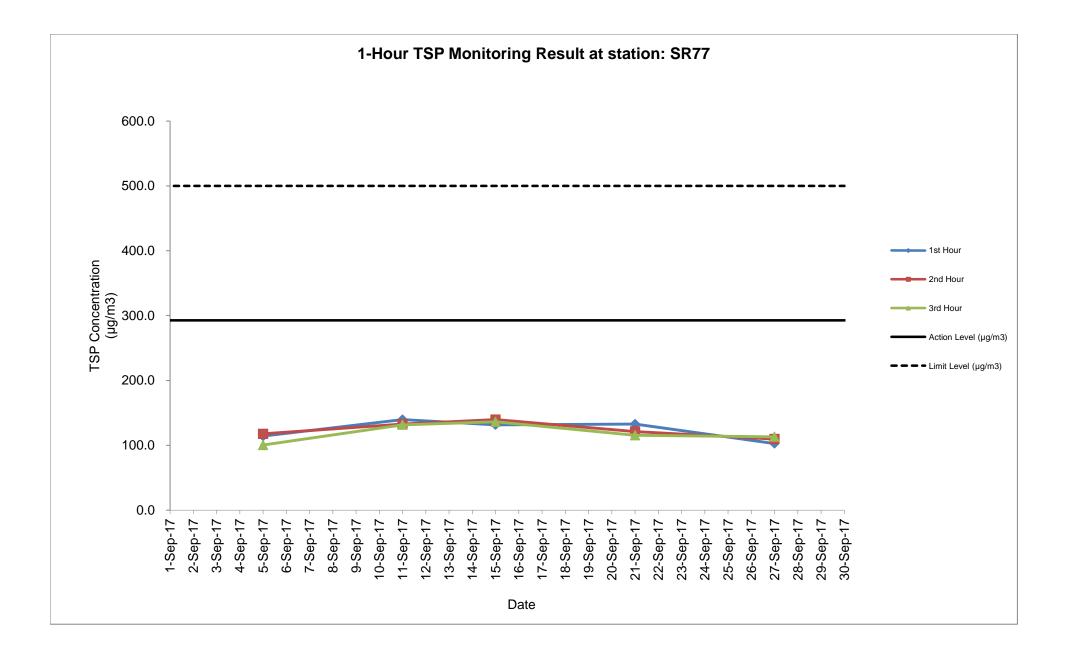


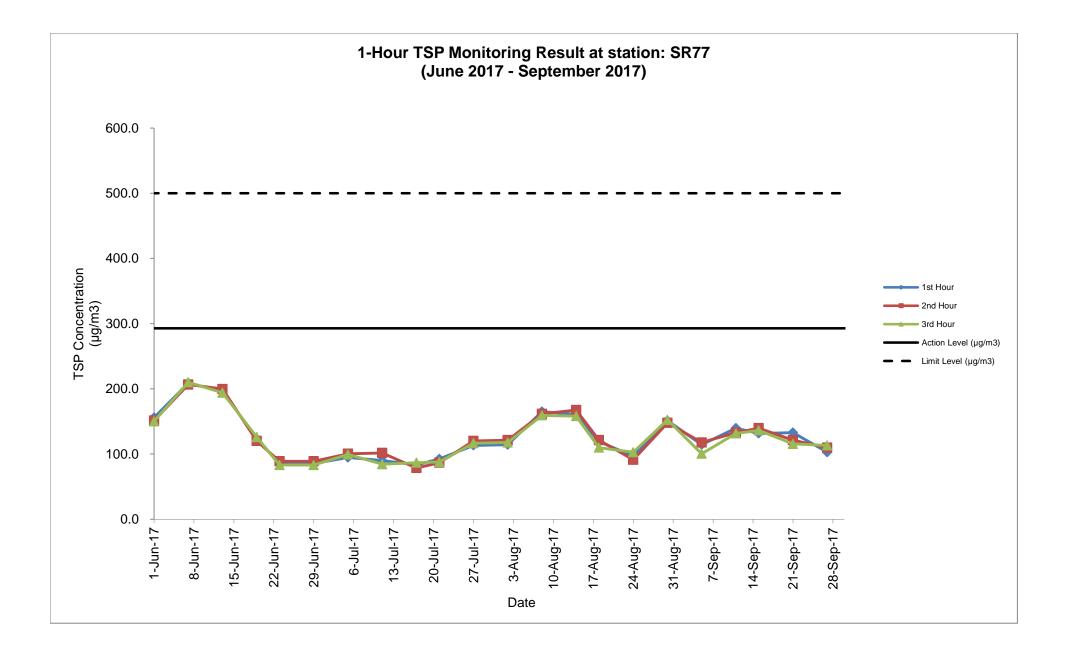


Sampling Date	Weather Condition	Starting Time	Paper No.	w	/t. of pape	r (g)	E	Elapse Tin	ne	Flo	ow Rate (C	FM)	Flov	v Rate (m ³	/min)	Total Volume	TSP Concentratio	Action Level	Limit Level	Wind speed	Wind direction
Date	Condition	Time		Initial Wt.	Final Wt.	Wt. of Dust	Initial	Final	Sampling Hour	Initial	Final	Avg Flow Rate	Initial	Final	Avg Flow Rate	(m³)	(μg/m³)	(µg/m3)	(µg/m3)	m/s	unection
5-Sep-17	Fine	09:00	CC85A	2.8507	2.8606	0.0099	7030.67	7031.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	114.3	292.7	500.0	<5	N
	Fine	10:04	CC85B	2.8317	2.8419	0.0102	7031.67	7032.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	117.7	292.7	500.0	<5	N
	Fine	11:07	CC85C	2.8449	2.8536	0.0087	7032.67	7033.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	100.4	292.7	500.0	<5	N
11-Sep-17	Sunny	09:00	CC87A	2.8272	2.8393	0.0121	7057.67	7058.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	139.6	292.7	500.0	<5	N
	Sunny	10:03	CC87B	2.8144	2.8259	0.0115	7058.67	7059.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	132.7	292.7	500.0	<5	N
	Sunny	11:07	CC87C	2.8193	2.8307	0.0114	7059.67	7060.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	131.6	292.7	500.0	<5	N
15-Sep-17	Fine	09:00	CC89A	2.8238	2.8352	0.0114	7084.67	7085.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	131.6	292.7	500.0	<5	N
	Fine	10:03	CC89B	2.8148	2.8269	0.0121	7085.67	7086.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	139.6	292.7	500.0	<5	N
	Fine	11:07	CC89C	2.8264	2.8382	0.0118	7086.67	7087.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	136.2	292.7	500.0	<5	N
21-Sep-17	Fine	09:00	CC91A	2.8311	2.8426	0.0115	7111.67	7112.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	132.7	292.7	500.0	<5	N
	Fine	10:04	CC91B	2.8191	2.8296	0.0105	7112.67	7113.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	121.2	292.7	500.0	<5	N
	Fine	11:07	CC91C	2.8219	2.8319	0.0100	7113.67	7114.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	115.4	292.7	500.0	<5	N
27-Sep-17	Fine	09:00	CC93A	2.8474	2.8563	0.0089	7138.67	7139.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	102.7	292.7	500.0	<5	N
	Fine	10:03	CC93B	2.8414	2.8509	0.0095	7139.67	7140.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	109.6	292.7	500.0	<5	N
	Fine	11:07	CC93C	2.8229	2.8327	0.0098	7140.67	7141.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	113.1	292.7	500.0	<5	N
																Average	122.6				
																Min	100.4				
																Max	139.6				

Detailed Calculation of 1-Hour TSP Monitoring Result at Station: SR77

Note:No major dust source observed during the monitoring periodData in Bold denotes exceedanece of respective Action LevelData in Bold Underlinedenotes exceedance of respective Limit Level







Appendix G Summary of Event and Action Plan



Event and Action Plan for Air Quality

Event	Action			
	ET Leader	IEC	ER	Contractor
Action level being exceeded by one sampling day	 Identify source; Inform IEC and ER; 	 Check monitoring data submitted by ET; 	1. Notify Contractor.	1. Rectify any unacceptable practice;
Sampling day	 Repeat measurement to confirm finding; 	2. Check Contractor's working method.		2. Amend working methods if appropriate.
	 Increase monitoring frequency to daily. 			
Action level being	1. Identify source;	1. Check monitoring data submitted	1. Confirm receipt of notification of	1. Submit proposals for remedial
exceeded by two or more consecutive	2. Inform IEC and ER;	by ET;	failure in writing;	actions to IEC within 3 working
sampling days	 Repeat measurements to confirm findings; 	 Check Contractor's working method; 	 Notify Contractor; Ensure remedial measures 	days of notification;2. Implement the agreed proposals;
	 Increase monitoring frequency to daily; 	 Discuss with ET and Contractor on possible remedial measures; 	properly implemented.	3. Amend proposal if appropriate.
	 Discuss with IEC and Contractor on remedial actions required; 	 Advise the ER on the effectiveness of the proposed remedial measures; 		
	 If exceedance continues, arrange meeting with IEC and ER; 	 Supervise Implementation of remedial measures. 		
	 If exceedance stops, cease additional monitoring. 			

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

Event and Action Plan for Noise

Event	Action			
	ET Leader	IEC	ER	Contractor
Action Level	 Notify IEC and the Contractor. Carry out investigation. 	1. Review with analysed results submitted by ET.	1. Confirm receipt of notification of failure in writing.	1. Submit noise mitigation proposals to IEC.
	 Courry out investigation. Report the results of investigation to IEC and the Contractor. Discuss with the Contractor and formulate remedial measures. Increase monitoring frequency to check mitigation effectiveness. 	 Review the proposed remedial measures by the Contractor and advise ER accordingly. Supervise the implement of remedial measures. 	 Notify the Contractor. Require the Contractor to propose remedial measures for the analysed noise problem. Ensure remedial measures are properly implemented. 	2. Implement noise mitigation proposals.
Limit Level	 Notify IEC, ER, EPD and the Contractor. Identify the source. Repeat measurement to confirm findings. Increase monitoring frequency. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented. Inform IEC, ER, and EPD the causes & actions taken for the exceedances. Assess effectiveness of the Contractor's remedial actions and keep IEC, EPD and ER informed of the results. If exceedance stops, cease 	 Discuss amongst ER, ET Leader and the Contractor on the potential remedial actions. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise ER accordingly. Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing. Notify the Contractor. Require the Contractor to propose remedial measures for the analysed noise problem. Ensure remedial measures are properly implemented. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated. 	 Take immediate action to avoid further exceedance. Submit proposals for remedial actions to IEC within 3 working days of notification. Implement the agreed proposals. Resubmit proposals if problem still not under control. Stop the relevant activity of works as determined by the ER until the exceedance is abated.



Event and Action Plan for Water Quality

Event	Action			
	ET Leader	IEC	ER	Contractor
Action level being exceeded by one sampling day	 Repeat in-situ measurement on next day of exceedance to confirm findings; 		1. Confirm receipt of notification of failure in writing; Notify, Contractor	 Inform the ER & confirm notification of the non-compliance in writing;
	2. Identify source(s) of impact;			2. Rectify unacceptable practice;
	3. Inform IEC, Contractor & ER;			3. Amend working methods if
	 Check monitoring data, all plant, equipment & contractor's working methods; 			appropriate.
Action level being exceeded by two or more consecutive sampling days	 Repeat measurement on next day of exceedance to confirm findings; 	 Checking monitoring data submitted by ET & Contractor's working method; 	 Discuss with IEC on the proposed mitigation measures; Ensure mitigation measures 	 Inform the Engineer & confirm notification of the non-compliance in writing;
sampling days	Identify source(s) of impact;	2. Discuss with ET & Contractor on	properly implemented;	2. Rectify unacceptable practice;
	3. Inform IEC, Contractor, ER & EPD;	3. Review the proposed mitigation	3. Assess the effectiveness of the implemented mitigation	3. Check all plant & equipment & consider changes of working
	 Check monitoring data, all plant, equipment & Contractor's working methods; 	accordingly;	measures.	 methods; 4. Submit proposal of mitigation measures to ER within 3 working down of patitionation 2 discuss with
	5. Discuss mitigation measures with IEC, ER & Contractor;	4. Supervise the implementation of mitigation measures.		days of notification & discuss with ET, IEC & ER;
	 Ensure mitigation measures are implemented; 			 Implement the agreed mitigation measures.
	 Increase monitoring to daily until no exceedance of Action level. 			

Event	Action			
	ET Leader	IEC	ER	Contractor
Limit level being exceeded by one sampling day	 Repeat measurement on next day of exceedance to confirm findings; Identify source(s) of impact; Inform IEC, contractor, ER & EPD; Check monitoring data, all plant, equipment & contractor's working methods; Discuss mitigation measures with IEC, Contractor & ER. 	 Checking monitoring data submitted by ET & Contractor's working method; Discuss with ET & Contractor on the possible mitigation measures; Review the proposed mitigation measures submitted by Contractor & advise the ER accordingly. 	 Confirm receipt of notification of failure in writing; Discuss with IEC, ET & Contractor on the proposed mitigation measures; Request Contractor to review the working methods. 	 Inform the ER & confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant & equipment & consider changes of working methods; Submit proposal of mitigation measures to ER within 3 working days of notification & discuss with ET, IEC & ER.
Limit level being exceeded by two or more consecutive sampling days	 Repeat measurement on the next day of exceedance to confirm findings; Identify source(s) of impact; Inform IEC, Contractor, ER & EPD; Check monitoring data, all plant, equipment & Contractor's working methods; Discuss mitigation measures within IEC, Contractor & ER; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. 	 Checking monitoring data submitted by ET & Contractor's working method; Discuss with ET & Contractor on potential remedial actions; Review Contractor's mitigation measures whenever necessary to assure their effectiveness & advise the ER accordingly; Supervise the implementation of mitigation measures. 	review the working methods;	 further exceedance; Submit proposal of mitigation measures to ER within 3 working days of notification & discuss with ET, IEC & ER; Implement the agreed mitigation measures; Resubmit proposals of mitigation measures if problem still not under control;



Appendix H Noise Monitoring Results and their Graphical Presentation

Appendix H Noise Monitoring Results and their Graphical Presentation

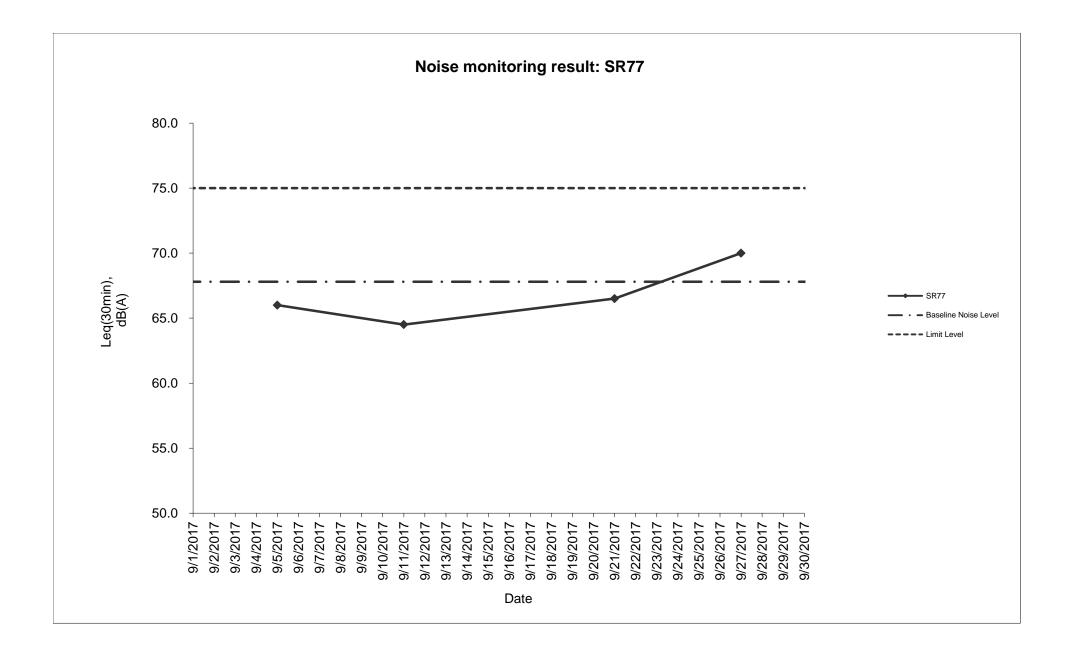
Noise Monitoring Result at SR77

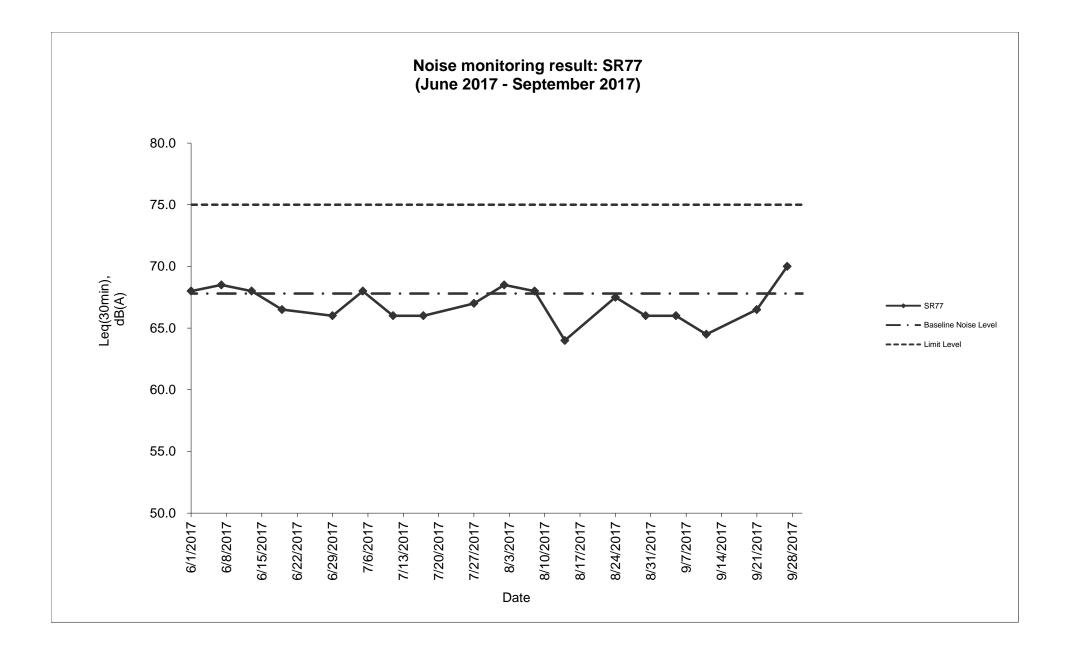
Date	Weather	Start	End	Measure	Measured Noise Level (dB(A))*		Baseline Corrected	Baseline Noise Level	Limit Level	Exceedance
	Condition	Time	Time	L10(30min)	L90(30min)	Leq(30min)	Level, dB(A)**	(dB(A)), Leq(30min)	dB(A)	(Y / N)
2017/09/05	Fine	11:30	12:00	92.5	57.5	66.0	-	67.8	75.0	N
2017/09/11	Sunny	11:30	12:00	91.0	55.0	64.5	-	67.8	75.0	Ν
2017/09/21	Fine	11:30	12:00	92.0	57.0	66.5	-	67.8	75.0	N
2017/09/27	Fine	11:30	12:00	76.0	62.0	70.0	-	67.8	75.0	Ν
					Average	66.8				
					Minimum	64.5				
					Maximum	70.0				

Remarks

* +3dB(A) Façade effect correction included

** Baseline corrected level is only calculated when measured noise level (Leq) > limit level.







Appendix K Waste Flow Table

Monthly Summary Waste Flow Table

		Actual C	Quantities of In-	ert C&D Materi	als Generated	Monthly		Actual Quantities of C&D Wastes Generated Monthly				
		Hard Rock							Paper/			
	Total	and Large		Soil Reused	Soil Reused				cardboard			General
	Quantity	Broken		in the	in other	Soil Disposed			packaging		Chemical	Refuse
Month	Generated	Concrete	Soil	Contract	Projects	as Public Fill	Imported Fill	Metals	(Note 3)	Plastics	Waste	(Note 2)
Unit	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in m ³)	(in '000m ³)							
Jan-17	1.150	0.204	0.946	0.150	-	0.796	1.150	-	-	0.001	-	0.170
Feb-17	1.160	0.308	0.852	0.192	-	0.660	0.926	-	-	0.001	-	0.140
Mar-17	2.287	0.565	1.722	0.060	-	1.662	1.055	-	-	-	-	0.115
Apr-17	1.003	0.064	0.939	0.036	-	0.903	0.463	-	-	0.004	-	0.075
May-17	0.497	0.005	0.492	0.120	-	0.372	0.050	0.767	-	-	-	0.105
Jun-17	1.248	0.150	1.098	0.150		0.948	0.008	-	-	-	-	0.135
Sub-Total	7.345	1.296	6.049	0.708	-	5.341	3.652	0.767	-	0.006	-	0.740
Jul-17	1.917	0.180	1.737	0.120	-	1.617	0.542	-	-	-	-	0.065
Aug-17	1.297	0.118	1.179	0.120	-	1.059	0.099	-	-	-	-	0.130
Sep-17	2.448	0.437	2.011	0.090	-	1.921	0.291	-	-	-	-	0.115
Oct-17	-		-									
Nov-17	-		-									
Dec-17	-		-									
Total	13.007	2.031	10.976	1.038	-	9.938	4.584	0.767	-	0.006	-	1.050

Note: 1. Assume the density of soil fill is 2 ton/m^3 .

2. Assume the density of rock and broken concrete is 2.5 ton/m³.

3. Assume each truck of C&D wastes is $5m^3$.

4. The inert C&D materials except slurry and bentonite are disposed at Tuen Mun 38.

5. The slurry and bentonite are disposed at Tseung Kwun O 137.

6. The non-inert C&D wastes are disposed at NENT.

7. Assume the density of metal is $7,850 \text{ kg/m}^3$.



Appendix L Implementation Schedule of Environmental Mitigation Measures (EMIS)



Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status [#]
Air Quality				
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	Contractor	✓
	• All stockpiles of excavated materials or spoil of more than 50m ³ shall be enclosed, covered or dampened during dry or windy conditions.			~
	• Effective water sprays shall be used to control potential dust emission sources such as unpaved haul roads and active construction areas.			✓
	 All spraying of materials and surfaces shall avoid excessive water usage. 			\checkmark
	• 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.			✓
	 Materials shall be dampened, if necessary, before transportation. 			\checkmark
	• Travelling speeds shall be controlled to reduce traffic induced dust dispersion and re-suspension within the site from the operating haul trucks.			✓
	• Vehicle washing facilities shall be provided to minimise the quantity of material deposited on public roads.			\checkmark
Air Quality during Operation	Not required	N/A	N/A	N/A
Noise				
Noise during Construction	• Use of silenced plant or plant equipped with mufflers or dampers in substitute of ordinary plant.	During Construction	Contractor	\checkmark
	 Reduce the number of equipment and their percentage on-time. 			\checkmark
Noise during Operation	Not required	N/A	N/A	N/A
Water Quality				
Water Quality during	Road Widening Works, Earthworks and Culvert Extension Works			
Construction	• 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.	During Construction	Contractor	~



Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status [#]
	• Sand traps, oil interceptors and other pollution prevention installations should be provided, properly cleaned and maintained.			V
	• Runoff from exposed working areas, unfinished slopes and from unlined temporary channels should be directed to stilling basins and/or silt traps before discharging to the drainage outfalls.			~
	• Regular inspections of stilling basins and/or silt traps is required to ensure that sediment is not conveyed into the existing drainage system.			~
	Open stockpiles should be covered with a tarpaulin cover.			\checkmark
	• During the wet season, any exposed top soils should be covered with a tarpaulin, shotcreted or hydroseeded.			✓
	• Sand and silt from wash-water from vehicle washing should be settled out before discharging into storm drains.			~
	• Fuels should be stored in bunded areas such that spillage can be easily collected.			~
Water Quality during Operation	Not required	N/A	N/A	N/A
Waste Management				
Waste Management during Construction	General Waste			
Construction	 Transport of wastes off site as soon as possible. 	During Construction	Contractor	\checkmark
	Maintenance of accurate waste records.			✓
	• Minimisation of waste generation for disposal (via reduction/recycling/re-use).			~
	 No on-site burning will be permitted. 			~
	 Use of re-useable metal hoardings/signboards. 			\checkmark
	Vegetation from site clearance			
	 Segregation of materials to facilitate disposal. 	During Construction	Contractor	\checkmark
	• Mulching to reduce bulk and where possible review opportunities for the possible beneficial use within landscaping areas.			~



Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status [#]
	Demolition Wastes			
	 Segregation of materials to facilitate disposal. 	During Construction	Contractor	\checkmark
	Appropriate stockpile management.			\checkmark
	Excavated Materials			
	Segregation of materials to facilitate disposal / reuse.	During Construction	Contractor	\checkmark
	Appropriate stockpile management.			\checkmark
	• Re-use of excavated material on or off site (where possible).			\checkmark
	• Special handling and disposal procedures in the event that contaminated materials are excavated.			N/A
	Construction Wastes			
	• Segregation of materials to facilitate recycling/reuse (within designated area in appropriate containers/stockpiles).	During Construction	Contractor	~
	Appropriate stockpile management.			\checkmark
	 Planning to reduce over ordering and waste generation. 			\checkmark
	• Recycling and re-use of materials where possible (e.g. metal, wood from formwork)			~
	• For material which cannot be re-used/recycled, collection should be carried out by an approved waste contractor for landfill disposal.			✓
	Bentonite Slurries			
	Bentonite slurries should be reused as far as possible.	During Construction	Contractor	N/A
	• Disposal in accordance with Practice Note For Professional Persons ProPECC PN 1/94.			N/A
	Chemical Wastes			
	 Storage within locked, covered and bunded area. 	During Construction	Contractor	✓
	• The storage area shall not be located adjacent to sensitive receivers e.g. drains.			✓
	 Minimise waste production and recycle oils/solvents where possible. 			\checkmark

Notes ([#]): \checkmark – Compliance; Rem – Reminder; Obs – Observation; N/C – Non Compliance; N/A – Not Applicable



Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status [#]
	• A spill response procedure shall be in place and absorption material available for minor spillages.			\checkmark
	 Use appropriate and labelled containers. 			\checkmark
	Educate site workers on site cleanliness/waste management procedures.			\checkmark
	• If chemical wastes are to be generated, the contractor must register with EPD as a chemical waste producer.			✓
	• The chemical wastes shall be collected by a licensed chemical waste collector.			✓
	Municipal Wastes			
	• Waste shall be stored within a temporary refuse collection facility, in appropriate containers prior to collection and disposal.	During Construction	Contractor	✓
	Regular, daily collections are required by an approved waste collector.			\checkmark
Waste Management during Operation	Not required.	N/A	N/A	N/A
Ecology				
Ecology during Construction	Accurate Delineation of Works Area			
	• Boundaries of proposed works areas shall be clearly identified and separated from external areas by a physical barrier to prevent encroachment of adjacent habitats.	During Construction	Contractor	*
	• Individual trees which fall within the works areas but which work plans show do not require removal are to be retained and fenced off to maximise protection.			*
	Dust generation			
	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:			
	 vehicle washing facilities to be provided at every discernible or designated vehicle exit point; 	During Construction	Contractor	✓



Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status [#]
	• all temporary site access roads shall be sprayed with water to suppress dust as necessary;			✓
	• all dusty materials should be sprayed with water immediately prior to any handling; and			✓
	• all debris should be covered entirely by impervious sheeting or stored in a sheltered debris collection area.			\checkmark
	Surface Run-off			
	In general, mitigation measures shall be in accordance with ProPECC PN1/94 on 'Construction Site Drainage'. Key measures include:			
	 Bund and cover stockpiles to avoid run-off; 	During Construction	Contractor	✓
	• Channel any run-off through a system of oil, grease and sediment / silt traps and reuse water on site where ever practical;			✓
	• All vehicle maintenance to be undertaken within a bunded area; and			~
	• Maximise vegetation retention on-site to maximise absorption (minimise transport).			✓
Ecology during Operation	• To conduct compensatory ecological planting as specified in the latest landscape plans approved by EPD (Clause 2.6 of the Environmental Permit refers).	During Construction and operation	Contractor (during construction) / LCSD* (during operation) (Note: * The division of vegetation planting and maintenance responsibilities shall follow the guidelines stipulated in ETWB TCW No. 2/2004.)	N/A
Landscape and Visual	Descention of Existing Manufation			1
Landscape and Visual during Construction	 Preservation of Existing Vegetation Trees identified for retention within the project limit would be protected during the works 	During Construction	Contractor	 ✓
	 The tree transplanting and planting works shall be implemented by approved Landscape Contractors 			✓



Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status [#]
	Temporary Works Areas			
	Where feasible the works areas would be screened using hoarding and existing vegetation would be retained where possible to reduce the landscape and visual impacts arising from the construction activity. The landscape of these works areas would be restored following the completion of the construction phase.	During Construction	Contractor	×
	Hoarding			
	A hoarding would be erected where practicable in the most visually sensitive locations to screen the temporary construction works from the local VSRs.	During Construction	Contractor	\checkmark
	Top Soils			
	The works will result in disturbance to extensive areas of topsoil. Topsoil worthy of retention should be stockpiled for use following completion of the civil engineering works. It should either be temporarily vegetated with hydroseeded grass or turned over on a regular basis.	During Construction	Contractor	N/A
	Protection of Important Landscape Features			
	Important features such as temples, Island House and kilns within the study area, although remote from the proposed works retained and adequately protected.	During Construction	Contractor	N/A
Landscape and Visual during Operation	Not required.	N/A	N/A	N/A



Appendix N Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions



Cumulative Complaint Log

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
C131126	26, November, 2013	Mr. Tony Hung from WWF	Mat Wat River (works sites for box culvert extension)	Suspected unauthorised discharge of water from a construction site to Ma Wat River, Tai Wo Service Road East, Tai Po	It was found that the water leaving the end of the steel pipes was the diverted water from the upstream of the existing box culverts, instead of being discharged from the construction works sites. An EM&A Programme is being undertaken to monitoring the environmental performance of the construction works, and the Contractor has also implemented appropriate mitigation measures to avoid silt-laden runoff discharging from the works sites into the river. The complaint is considered an invalid complaint under this Project.	Completed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
C141120	20 November, 2014	EPD	Ng Tung River and Ma Wat River nearby the site of the Liantang/ Heung Yuen Wai BCP Project (Contract Number CV/2012/09)	At Bridge NF426 in Fanling, the whole Ng Tung River showed milky and suspected illegal discharge by nearby factory has undertaken. (粉嶺近天橋編號 NF426 梧桐河整條河 河水呈奶白色懷疑附 近有工廠非法排放污 水)	 Water Supplies Department (WSD) conducted a washout procedure on 20 November 2014 at about 9:30am to flush the newly installed water pipe of diameter of 1400mm which has recently finished disinfection. It is understood that the procedure has lasted for about 1 hour and large amount of freshwater has been discharged into the Ma Wat River through a washout port. Although water was observed seeping from the gantry switch and flew into the works sites, the area is a sump pit and the water was unlikely to run off and entered the river directly. As such, it is anticipated that only freshwater has been discharged into Ma Wat River through the washout port. Both site inspections conducted by the ET before the complaint (19 November 2014), and after the complaint (24 November 2014) did not identify any deficiencies on environmental mitigation measures. Also, there were no rains during the period and the risk of construction site run-off is considered minimal. 	Completed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					The water from the Ma Wat Channel adjoins the Ng Tung River before passing through the complaint location, so other pollution sources may also occur at upstream of Ng Tung River	
					The complaint is considered unlikely due to the construction works of this project.	