

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

Monthly EM&A Report

April 2016

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

(April 2016)

Certified by:	Fredrick Leong
Position:	Environmental Team Leader
Date:	12 May 2016



Our ref JFP/EC/ST/pl/T329380/22.05/L-0120

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Your ref

Hyder-Arup-Black & Veatch Joint Venture c/o Arcadis 20/F, AXA Tower, Landmark East, 100 How Ming Street, Kwun Tong, Hong Kong

Dear Sir,

12 May 2016 By Fax (2805 5028) & Hand

Attn: Mr. James Penny

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/D

Condition 3.3 – Submission of Monthly EM&A Report – April 2016 for the portion of Stage 2 works entrusted to Civil Engineering and Development Department (CEDD) under Contract No. CV/2012/09

We refer to the revised Monthly EM&A Report – April 2016 received on 12 May 2016 submitted by the Environmental Team via email. Pursuant to Environmental Permit Condition 3.3, I hereby verify the Monthly EM&A Report – April 2016 (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 – Mr. Chung Lok Chin (Fax: 2714 5198)
 CEDD/BCP – Mr. Desmond Lam (Fax: 3547 1659)
 AECOM – Mr. Alan Lee (Fax: 3922 9797)
 Meinhardt Infrastructure and Environment Limited – Mr. Fredrick Leong (Fax: 2540 1580)

Date	Revision	Prepared By	Checked By	Approved By
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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 April 2016. As informed by the Contractor, the major activities in the reporting month were:

- Cable Detection and Trial Trenches;
- Filling Works at Tong Hang East;
- Storm Drains Laying;
- Noise Barrier Construction;
- Pier / Pier Table Construction;
- Pile Cap Works;
- Portal Beam Construction;
- Pre-drilling;
- Retaining Wall Construction;
- Road Works at Fanling Highway;
- Sewer Works;
- Tree Felling Works;
- Utilities Duct Laying;
- Viaduct Segment Erection;
- Slope Works;
- Water Main Connection Works; and
- Pre-drilling works for noise barrier.

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 partially completed by the end of March 2014 except the last construction activity, installation of a base slab at Box Culvert ID4. Due to the loading requirement of a fresh water main under the box culvert, installation of the base slab at Box Culvert ID4 originally scheduled from 19 February 2016. However, the mentioned works were cancelled and postponed to the next dry season in late 2016 after the utilities diversions complete.

The construction works are temporarily suspended until the utilities diversion works complete. The 4-week post construction water quality monitoring will be commenced after the installation of the base slab finishes, hence the completion of the box culvert works.

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:

- Cable Detection and Trial Trenches;
- Decking Construction for Bridge E;
- Filling Works at Tong Hang East;
- Storm Drains Laying;
- Noise Barrier Construction;
- Pier / Pier Table Construction;
- Pile Cap Works;
- Portal Beam Construction;
- Pre-drilling Works and Piling Works for Viaduct;
- Retaining Wall Construction;
- Road Works at Fanling Highway;



- Sewer Works;
- Slope Works;
- Socket H-pile Installation;
- Tree Felling Works;
- Utilities Duct Laying;
- Viaduct Segment Erection;
- Water Main Connection Works; and
- Pre-drilling works for noise barrier.

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/D 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 in 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 April 2016.

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 current VEP (EP-324/2008/D) was granted on 27 August 2015.



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;
 - Filling Works at Tong Hang East;
 - Storm Drains Laying;
 - Noise Barrier Construction;
 - Pier / Pier Table Construction;
 - Pile Cap Works;
 - Portal Beam Construction;
 - Pre-drilling;
 - Retaining Wall Construction;
 - Road Works at Fanling Highway;
 - Sewer Works;
 - Tree Felling Works;
 - Utilities Duct Laying;
 - Viaduct Segment Erection;
 - Slope Works;
 - Water Main Connection Works; and



- Pre-drilling works for noise barrier.
- 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
Engineer's		Senior Resident Engineer	Mr. Alan Lee	2171 3303	0171 0400
AECOM	Representative	Resident Engineer (Environmental)	Mr. Perry Yam	2171 3350	2171 3498
Mott MacDonald	Independent Environmental Checker (IEC)	IEC	Mr. Steven Tang	2828 5920	2827 1823
	Contractor	Site Agent	Mr. Daniel Ho	2638 6144	0000 7077
Chun Wo	Contractor	Environmental Officer	Mr. Victor Huang	2638 6181	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.	Valid Period		Olahar	
/ Notification / Reference No.	From	То	Status	Remarks
Environmental Permi	t			
EP-324/2008/D	27 Aug 2015		Granted on 27 Aug 2015	
Construction Noise P	ermit	1	1	
GW-RN0892-15	9 Jan 2016	8 Jul 2016	Valid	For loading and unloading along Fanling Highway both bounds
GW-RN0064-16	16 Feb 2016	13 Aug 2016	Valid	For road diversion and maintenance of Fanling Highway Northbound
GW-RN0086-16	16 Feb 2016	7 May 2016	Valid	For segment erection of pier AA4, AB6, AD7 and AA18
GW-RN0094-16	6 Mar 2016	22 May 2016	Valid	For coring works along Fanling Highway during public holidays
GW-RN0096-16	6 Mar 2016	12 Jun 2016	Valid	For lane shifting work at Southbound of Fanling Highway
GW-RN0097-16	1 Mar 2016	17 Jun 2016	Valid	For road diversion and maintenance of Fanling Highway Southbound
GW-RN0098-16	6 Mar 2016	4 Sep 2016	Valid	For lane shifting work at Northbound of Fanling Highway
GW-RN0111-16	1 Mar 2016	30 Apr 2016	Valid	For segment erection of AC5
GW-RN0113-16	25 Feb 2016	24 Aug 2016	Valid	For Segment Delivery to Kiu Tau
GW-RN0115-16	1 Mar 2016	7 May 2016	Valid	For Segment erection of AC9
GW-RN0139-16	2 Mar 2016	24 Aug 2016	Valid	For general works at the southward of site office

Table 3.1 Status of Environmental Licenses, Notifications and Permits



Permit / License No.	Valid Period		Otativa	Domorius
/ Notification / Reference No.	From	То	Status	Remarks
GW-RN0140-16	2 Mar 2016	24 Aug 2016	Valid	For general works at the northward of site office
GW-RN0157-16	8 Mar 2016	7 Jun 2016	Valid	For falsework dismantling of Pier AB11
GW-RN0158-16	8 Mar 2016	31 Aug 2016	Valid	For general work of AB10
GW-RN0168-16	15 Mar 2016	14 Sep 2016	Valid	For segment erection crossing over MTRC's Rail Track of Pier AB11 and AD12(1900- 2300)
GW-RN0169-16	15 Mar 2016	14 Jun 2016	Cancelled on 28 Apr 2016	For segment erection crossing over MTRC's Rail Track of Pier AB11 and AD12(0145- 0500)
GW-RN0170-16	11 Mar 2016	10 Sep 2016	Valid	For segment erection AB7 to AB10
GW-RN0172-16	29 Mar 2016	08 Apr 2016	Valid	For AB11 Crosshead Concreting
GW-RN0218-16	6 Apr 2016	30 Sep 2016	Valid	For Segment erection across Fanling Highway
GW-RN0233-16	11 Apr 2016	10 Oct 2016	Valid	For general works on Tai Wo Service Road West
GW-RN0244-16	16 Apr 2016	13 May 2016	Valid	For road resurfacing at Tai Wo Service Road near Kiu Tau
GW-RN0303-16	30 Apr 2016	29 Jul 2016	Valid	For segment erection crossing over MTRC's Rail Track of Pier AB11 and AD12(0115- 0500)
GW-RN0309-16	30 Apr 2016	29 Oct 2016	Valid	For segment erection AB10 to AD11
Wastewater Discharg	e License		1	
WT00016832-2013	28 Aug 2013	31 Aug 2018	Valid	



Permit / License No.	Valid I	Period	Status	Remarks
Reference No.	/ Notification / Status Reference No. From To		Remarks	
Chemical Waste Prod	ucer Registration	on	1	
5113-634-C3817-01	7 Oct 2013		Valid	
Billing Account for Co	Billing Account for Construction Waste Disposal			
7017914	2 Aug 2013		Account Active	
Notification Under Air Pollution Control (Construction Dust) Regulation				
	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	1	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/m ³)
AM1(SR77) *	168.5	131.6 – 279.3	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/m ³)	Limit Level (µg/m ³)
AM1(SR77) *	89.2	50.6 – 113.2	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	B&K (Model No. 2238)	1	2694908

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

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⁾	63.0	62.0 - 65.0	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 have been partially completed by the end of March 2014 except the last construction activity, installation of a base slab at Box Culvert ID4. Due to the loading requirement of a fresh water main under the box culvert, installation of the base slab at Box Culvert ID4 originally scheduled from 19 February 2016. However, the mentioned works were cancelled and postponed to the next dry season in late 2016 after the utilities diversions complete.
- 6.1.2 The construction works are temporarily suspended until the utilities diversion works complete. The 4-week post construction water quality monitoring will be commenced after the installation of the base slab finishes, hence the completion of the box culvert works.



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 472m³ of excavated material has been generated. 408m³ of inert C&D materials was disposed of at public fill to Tuen Mun Area 38. 18m³ inert C&D materials were reused on site. 135m³ of general refuse was disposed of at North East New Territories (NENT) Landfill. No plastics were collected by recycling contractor in the reporting month. No paper/cardboard packaging was collected by recycling contractor in the reporting month. No metals were collected by recycling contractor in the reporting month. No metals were collected by recycling contractor in the reporting month. No metals were collected by recycling contractor in the reporting month. No chemical waste 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 6, 11, 20 and 25 April 2016. The one held on 25 April 2016 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
Water Quality	N/A	N/A	N/A
Air Quality	20 Apr 2016	Reminder: Contractor is reminded to ensure all vehicles leaving the construction site through proper site entrance (SA22).	Contractor has reinstated the fence and cleaned up the tyre tracks immediately on 20 Apr 2016.
Noise	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 March 2016	12 April 2016



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.

11.2 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:
 - Cable Detection and Trial Trenches;
 - Decking Construction for Bridge E;
 - Filling Works at Tong Hang East;
 - Storm Drains Laying;
 - Noise Barrier Construction;
 - Pier / Pier Table Construction;
 - Pile Cap Works;
 - Portal Beam Construction;
 - Pre-drilling Works and Piling Works for Viaduct;
 - Retaining Wall Construction;
 - Road Works at Fanling Highway;
 - Sewer Works;
 - Slope Works;
 - Socket H-pile Installation;
 - Tree Felling Works;
 - Utilities Duct Laying;
 - Viaduct Segment Erection;
 - Water Main Connection Works; and
 - Pre-drilling works for noise barrier.

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;



- Operation of construction plant should be sequenced where practicable;
- 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 and noise 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 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.

Temporary Suspension of Box Culvert Works and Water Quality Monitoring

- 13.1.7 The box culvert works have been partially completed by the end of March 2014 except the last construction activity, installation of a base slab at Box Culvert ID4. Due to the loading requirement of a fresh water main under the box culvert, installation of the base slab at Box Culvert ID4 originally scheduled from 19 February 2016. However, the mentioned works were cancelled and postponed to the next dry season in late 2016 after the utilities diversions complete.
- 13.1.8 The construction works are temporarily suspended until the utilities diversion works complete. The 4-week post construction water quality monitoring will be commenced after the installation of the base slab finishes, hence the completion of the box culvert works.

13.2 Recommendations

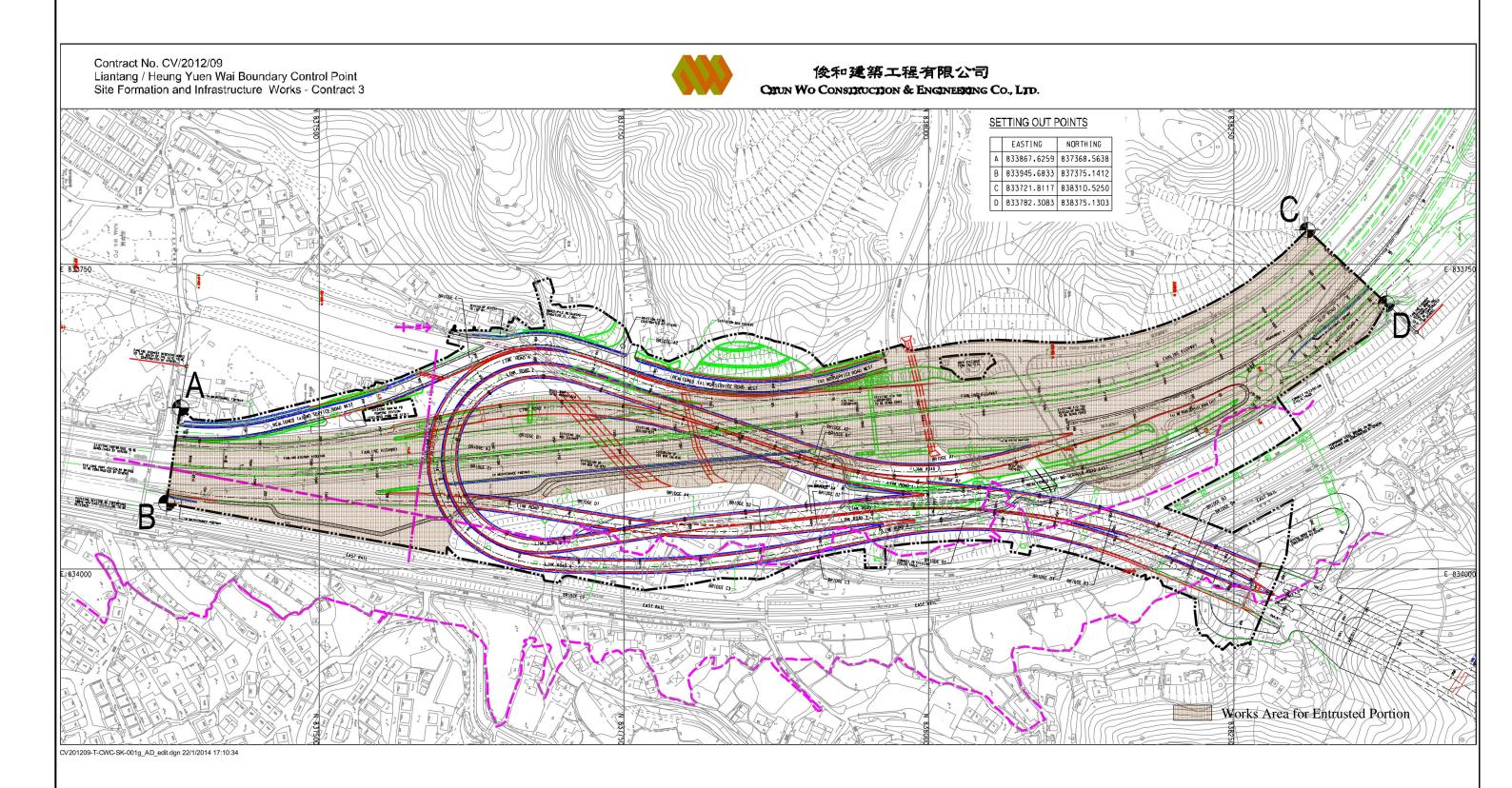
13.2.1 According to the environmental site inspections performed in the reporting month, the following recommendations were provided:

Air Quality

• All vehicles should be washed to remove any dusty materials before leaving the construction site.



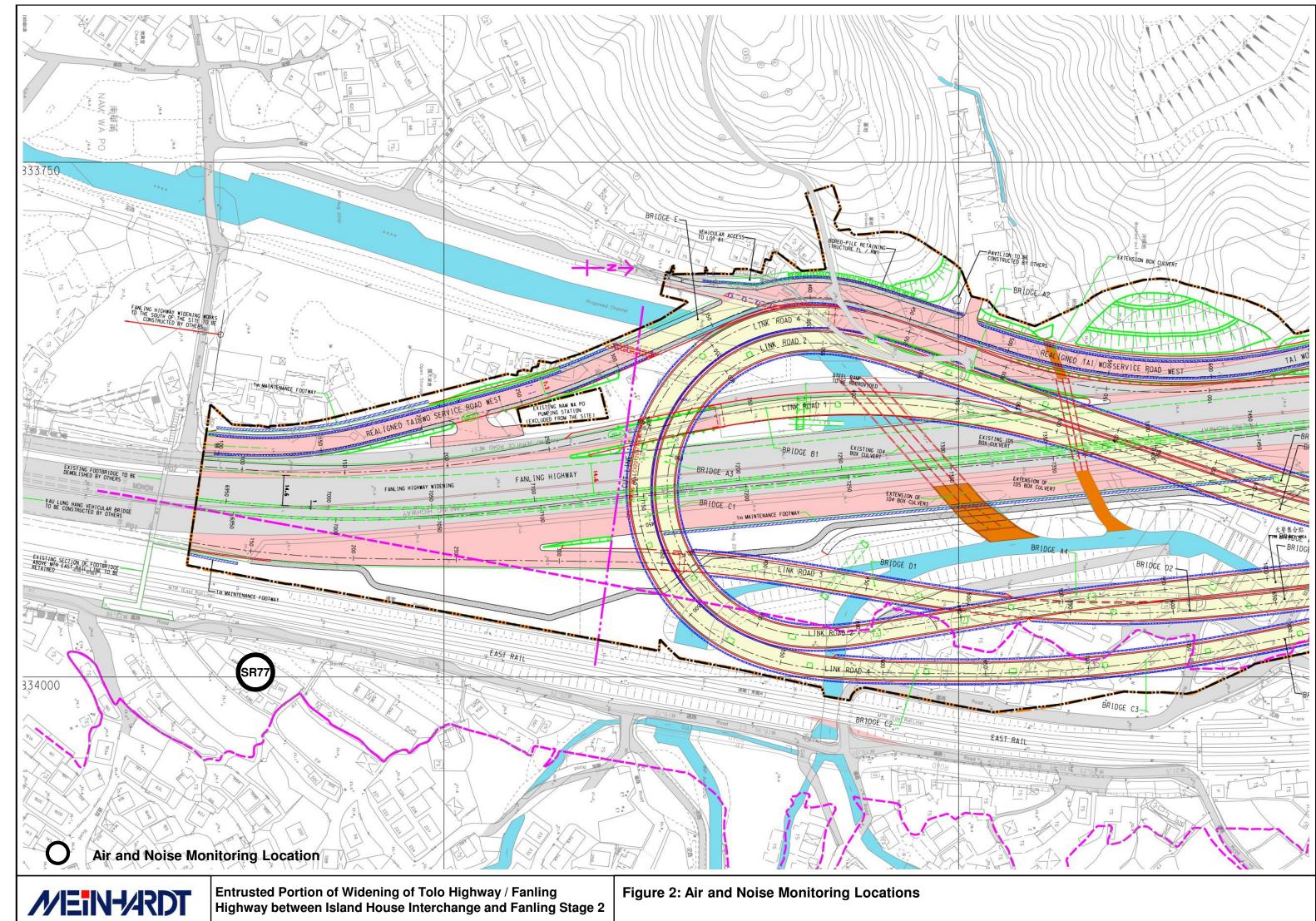
Figure





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

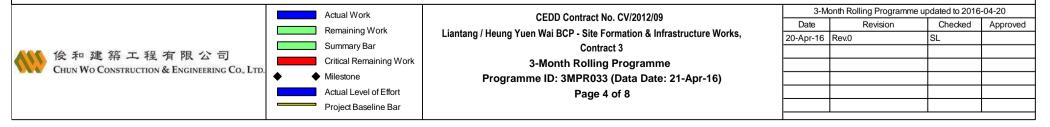
ty ID	Activity Name	OD	RD	Start	Finish			2016		L.I	
Manth Dallin	ng Programme 2016-04-21						Apr	May	Jun	Jul	Au
						_					
Key Dates (C KD-1600	KD14: Stage N4B - Commissioning of Roundabout A by connecting to Slip Rd Y, Access Rd A & the realigned TW SRE	0	0		02-Jun-16*	0			KD14: Stage N4B - Commiss	oning of Roundabout A by conne	ecting to
Key Dates (Fo											
KD-1605	KD14: Stage N4B - Commissioning of Roundabout A by connecting to Slip Rd Y, Access Rd A & the realigned TWSRE	0	0		02-Jun-16	0			♦ KD14: Stage N4B - Commiss	oning of Roundabout A by conne	ecting to
Naior Milesto	nes and Events										
MS-0200	Completion of 4 nos. of piers crash with the existing FLH (by 2 sets)	0	0		21-Apr-16	210	Completion of 4	nos. of piers crash with the	existing FLH (by 2 sets)		
MS-2000D	T4: TTA to divert TWSRW traffic to the completed re-aligned TWSRW	1	1	26-Apr-16	26-Apr-16	-21		a divert TWSPW/ traffic to the	completed re-aligned TWSRW		
									completed to alighted thronth		
•	ement & Delivery										
Footbridge St							·····				
MM-3050	Fabrication of footbridge steel truss (Kiu Tau Footbridge)	100	100	28-Apr-16	05-Aug-16	-40					-
esign and Si	ubmissions										
Statutory App	roval										
PRE-1050	Submission & approval of CDIA report for construction of temporary platform for segment erection works	185	4	27-Nov-14 A	25-Apr-16	102	Submission	n & approval of CDIA report	for construction of temporary plat	orm for segment erection works	, Subm
Method State	ment and Design (Major) App roved by AECOM										
PRE-2050	Submission of Shop Drawing for fabrication of Kiu Tau Footbridge Steelworks	30	7	02-Nov-15 A	27-Apr-16	-40			ication of Kiu Tau Footbridge Stee	lworks, Submission of Shop Dra	wing f
PRE-2030	Submission of E&M design for lighting of Kiu Tau Footbridge	60	60	21-Apr-16	04-Jul-16	36				Submission of E&M design	n for lig
DDE 00.40											
PRE-2040	Submission of E&M design for lighting inside viaduct structures of Bridge A, B, C & D	60	60	26-Apr-16	08-Jul-16	69				Submission of E&M de	esign fo
Section IA & I	B - Fanling Highway Widening (KD-1 & KD-2)										
	vay South Portion between CH6935 and CH7470										
	way Zone 1 between CH6935 and CH7130 (within SBZ2)										
	padworks (195m)	400	00	00 5-1 444	40.1440			Pine Laving - D	N1200 Watermains (CHC) along	Fanling Highway (80m long, 4m	(enth)
FHW-1130*	Pipe Laying - DN1200 Watermains (CHC) along Fanling Highway (80m long, 4m depth)	182	20	20-Feb-14 A	16-May-16	1		Tipe Laying - Di	N1200 Watermains (Cric) along	r anning ringriway (corritorig, 4m	
FHW-1300	Noise Barrier NB68 - Mini-Piling at central median (CSD: 24 nos)	80	80	21-Apr-16	27-Jul-16	-23					Ndise E
					-						
FHW-1140	Noise Barrier NB70 - Footing adjacent to SB lane (15m)	115	115	18-May-16	03-Oct-16	0				_	
FHW-1310	Noise Barrier NB68 - Footing at central median (72m)	73	73	15-Jul-16	11-Oct-16	-23					
Fanling High	way Zone 2 between CH7130 and CH7290										
	way Zone 2 between CH7130 and CH7290 padworks (160m)										
	Adworks (160m) Pipe Laying - DN1200 & DN600 Watermains (CHB & CHC) along Fanling Highway	144	316	12-Oct-15 A	19-May-17	175					-
At-Grade Ro FHW-2130*	Padworks (160m) Pipe Laying - DN1200 & DN600 Watermains (CHB & CHC) along Fanling Highway (183m long, 4m depth)									Noise Barrier NB68 - N	/lini-Pili
At-Grade Ro	Adworks (160m) Pipe Laying - DN1200 & DN600 Watermains (CHB & CHC) along Fanling Highway	144 80	316 63	12-Oct-15 A 19-Mar-16 A	19-May-17 07-Jul-16	175				Noise Barrier NB68 - N	/ini-Pili
At-Grade Ro FHW-2130*	Padworks (160m) Pipe Laying - DN1200 & DN600 Watermains (CHB & CHC) along Fanling Highway (183m long, 4m depth)									Noise Barrier NB68 - N	/lini-Pili
At-Grade Ro FHW-2130* FHW-2300	Dadworks (160m) Pipe Laying - DN1200 & DN600 Watermains (CHB & CHC) along Fanling Highway (183m long, 4m depth) Noise Barrier NB68 - Mini-Piling at central median (CSD: 22 nos)	80	63	19-Mar-16 A	07-Jul-16	-46				Noise Barrier NB68 - N	/lini-Pili
At-Grade Rd FHW-2130* FHW-2300 FHW-2190 FHW-2310	Dadworks (160m) Pipe Laying - DN1200 & DN600 Watermains (CHB & CHC) along Fanling Highway (183m long, 4m depth) Noise Barrier NB68 - Mini-Piling at central median (CSD: 22 nos) Footpath & DSD Access Track adjacent to SB lane Noise Barrier NB68A - Footing at central median (157m)	80 108	63 108	19-Mar-16 A 18-May-16	07-Jul-16 23-Sep-16	-46 95				Noise Barrier NB68 - N	Aini-Pili
At-Grade Rc FHW-2130* FHW-2300 FHW-2190 FHW-2310 Fanling High	Dadworks (160m) Pipe Laying - DN1200 & DN600 Watermains (CHB & CHC) along Fanling Highway (183m long, 4m depth) Noise Barrier NB68 - Mini-Piling at central median (CSD: 22 nos) Footpath & DSD Access Track adjacent to SB lane Noise Barrier NB68A - Footing at central median (157m) way Zone 3 between CH7290 and CH7380	80 108	63 108	19-Mar-16 A 18-May-16	07-Jul-16 23-Sep-16	-46 95				Noise Barrier NB68 - N	/ini-Pili
At-Grade Ro FHW-2130* FHW-2300 FHW-2190 FHW-2310 Fanling High At-Grade Ro	adworks (160m) Pipe Laying - DN1200 & DN600 Watermains (CHB & CHC) along Fanling Highway (183m long, 4m depth) Noise Barrier NB68 - Mini-Piling at central median (CSD: 22 nos) Footpath & DSD Access Track adjacent to SB lane Noise Barrier NB68A - Footing at central median (157m) way Zone 3 between CH7290 and CH7380 padworks (130m)	80 108 130	63 108 130	19-Mar-16 A 18-May-16 26-May-16	07-Jul-16 23-Sep-16 29-Oct-16	-46 95				Noise Barrier NB68 - N	Aini-Pili
At-Grade Rc FHW-2130* FHW-2300 FHW-2190 FHW-2310 Fanling High	adworks (160m) Pipe Laying - DN1200 & DN600 Watermains (CHB & CHC) along Fanling Highway (183m long, 4m depth) Noise Barrier NB68 - Mini-Piling at central median (CSD: 22 nos) Footpath & DSD Access Track adjacent to SB lane Noise Barrier NB68A - Footing at central median (157m) way Zone 3 between CH7290 and CH7380 padworks (130m)	80 108	63 108	19-Mar-16 A 18-May-16	07-Jul-16 23-Sep-16	-46 95 -46				Noise Barrier NB68 - N	

俊和建築工程有限公司 CHUN Wo CONSTRUCTION & ENGINEERING CO., LTD.	Actual Work	CEDD Contract No. CV/2012/09		3-Month Rolling Programme updated to 2016-04-20				
	Remaining Work		Date	Revision	Checked	Approved		
	限公司 Summary Bar Critical Remaining Work	Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works,		Rev.0	SL			
		Contract 3						
		3-Month Rolling Programme						
		Programme ID: 3MPR033 (Data Date: 21-Apr-16)						
		Page 1 of 8						
	Project Baseline Bar							
		1						

ctivity ID	Activity Name	OD	RD	Start	Finish	TF	Apr		May	2016 Jun	Jul	Aug
FHW-3310	Noise Barrier NB68A - Footing at central median (98m)	90	90	20-May-16	03-Sep-16	-46		-	iviay	Jui		Aug
Fanling Highway	y North Portion between CH7470 and CH7925											
Fanling Highwa	ay Zone 4 between CH7380 and CH7470											
At-Grade Road		00	00	00 May 40	00.0	40						l
FHW-4210	Noise Barrier NB68A - Footing at central median (40m)	90	90	20-May-16	03-Sep-16	-46					-	
FHW-4100	Noise Barrier NB71 & NB72 - Footing adjacent to SB lane (90m)	115	115	25-Jun-16	10-Nov-16	19				-		
Fanling Highwa	y Zone 5 between CH7470 and CH7600 (Provision of Kiu Tau Footbridge)											
	ridge Reprovision (East)											
FHW-5110	Inspection & Remedial Works for the 3nos. suspected defected piles (AB1-7, AB2-4, P3-9)	35	5	20-Nov-15 A	26-Apr-16	-26				r the 3nos. suspected defected piles		1
FHW-5000C2	KT-P2 - Pling Works (3 out of 6 nos of Pile) - Phase 2, conflict with existing TWSRE	15	15	21-Apr-16	09-May-16	-31				rks (3 out of 6 nos of Pile) - Phase 2		
FHW-5010E	KT-P4 - Pie Cap & Pier	75	75	21-Apr-16	21-Jul-16	-21					кт	-P4 - Pile Cap &
FHW-5010A	KT-AB1 - Pile Cap & Abutment	75	75	27-Apr-16	27-Jul-16	-26						KT-AB1 - Pile
FHW-5090	Additional BFA Facilities - Pile Cap & Sump Pit, to be covered by VO	45	45	10-May-16	04-Jul-16	-6						Dill O 0.0
		45		10-May-16		-6					Additional BFA Faciliti	
FHW-5010D	KT-P3 - Pie Cap & Pier	60	60	10-May-16	21-Jul-16	-31		+			кт	-P3 - Pile Cap &
FHW-5010C	KT-P2 - Pie Cap & Pier	60	60	10-May-16	21-Jul-16	-31					кт	-P2 - Pile Cap &
FHW-5010B	KT-AB2 - Pile Cap & Abutment	60	60	23-May-16	02-Aug-16	-31						KT-AB
Remaining Work	ks for Noise Barrier along widened Fanling Highway											
	Noise Barrier Steelworks & Panel for NB6 (123m), adjacent to Fanling Highway SB lanes at Zone 1	20	10	03-Mar-16 A	03-May-16	462						-
FHW-NB-130	Noise Barrier Steelworks & Panel for NB7 (60m), adjacent to Fanling Highway SB	10	10	04-May-16	16-May-16	462						
FHW-NB-140	lanes at Zone 1 Noise Barrier Steelworks & Panel for NB71 (254m), adjacent to Fanling Highway SB	45	45	17-May-16	09-Jul-16	462						
	lanes at Zones 2,3 & 4			-								
	ainder of the Works (KD-3) oad at Fanling Highway Interchange											
	ear Abut ment AB1)											
	Noise Barrier NB66 - Footing adjacent NB lane (75m)	95	95	27-Apr-16	19-Aug-16	-11		-				
FHI-LR1-1010	Noise Barrier NB67 - Mini-Piling (42nos) (Assume 2 sets of plant)	160	160	27-Apr-16	07-Nov-16	-18		· · · · · · · · ·				
Link Poad 2 (no	ear Abut ment AD1)											
	Completion of WSD works incl. DN600, DN1200 & DN1400	0	0		16-May-16	372			 Completion 	n of WSD works incl. DN600, DN12	200 & DN1400	
Link Deed 4 (m)												
	ear Abut ment AC1) Construction of Retaining Wall beside Abutment AC1 (4 bays)	35	35	21-Apr-16	02-Jun-16	357			j	Construction of Botaining	Wall beside Abutment AC1 (4 b	2010)
									51			ayo,
FHI-LR4-4000	Diversion of Traffic from Existing TWSR West to Realigned TWSR West	0	0	26-Apr-16		388		• L	Diversion of Traffic from Existing	TWSR West to Realigned TWSR W	est	
WSD Works												
DN450 Fire Main		70	AE	22 Doc 15 A	15 hun 46	070					Direct and a City of a	00 (DNI (50)
WA-1040	Pipe Laying - CHA 360 - 420 (DN450) near Ext. TWSR West, 60m long & 4m depth		45	22-Dec-15 A	15-Jun-16	273					Pipe Laying - CHA 360 - 4	20 (DN450) near
WA-1090	Pipe Laying - CHA 800 - 960 (DN450) near Ext. TWSR West (No Roadworks), 160m long & 3m depth	148	148	21-Apr-16*	18-Oct-16	-5						
WA-1060	Pipe Laying - CHA 450 - 575 (DN450) near Realigned TWSR West (Re-TWSRW: CH640 - 695), 125m long & 2m depth	95	95	27-Apr-16	19-Aug-16	367						
11								-	1	2 Manth Dallian D		0.04.00
	Actual	Work					CEDD Contract No. CV/20	12/09			rogramme updated to 201	-
	Remai	ning W	Vork	Lia	ntana / Heuna	- VIIA	n Wai BCP - Site Formation	& Infra	structure Works	Date Revi		Approved
	Summ			Liu	inturing / incuring	, 140			Structure Works,	20-Apr-16 Rev.0	SL	
							Contract 3					
666 俊和	建築工程有限公司			lork			3-Month Rolling Progr	amme				
	建築工程有限公司	l Rema	aining vi								I	
	建築工程有限公司 Vo Construction & Engineering Co., Ltd. ♦ Milesto		aining vi	OIK	Progr				(1-Apr-16)			
	Vo Construction & Engineering Co., Ltd.	one			Progr		ne ID: 3MPR033 (Data		21-Apr-16)			
	Vo Construction & Engineering Co., Ltd. Milesia Actual	one Level	of Effort		Progr				1-Apr-16)			

Activity ID	Activity Name	OD	RD	Start	Finish	TF					016				
WA-1030	Pipe Laying - CHA 260 - 360 (DN450) near Ext. TWSR West, 100m long & 2m	65	65	16-Jun-16	31-Aug-16	273		Apr		Мау		Jun		Jul	Aug
	depth				-										
DN600 Water I WB-1060	Pipe Laying - CHB 538 - 635 (DN600) near Realigned TWSR East (TWSRE:	40	15	17-Jul-15	A 09-May-16	476									
WB-1030C	CH270-380), 97m long & GL Pipe Laying - CHB 350 - 450 (DN600) from Portal AB7/AD9/AC12 to Portal AB8	85	85	27-Apr-16	6 08-Aug-16	401									Pi
DN1200 Water WC-1050A	Pipe Laying - CHC 155 - 200 (DN1200) near Fanling Highway S/B (FHW:	120	20	15-Oct-14	A 16-May-16	1				Pipe Laving	- CHC 155 - 20	00 (DN1200) near F	anling Highway	/ S/B (FHW: CH6	935-7130) 45m
	CH6935-7130), 45m long, 4m depth			12-Oct-15											
WC-1060	Pipe Laying - CHC 235 - 420 (DN1200) near Fanling Highway S/B (FHW: CH7130-7290), 185m long (common trench with NB)	95	21			0				Pipe Laying	- CHC 235 - 4	20 (DN1200) near	Fanling Highwa	ay S/B (FHW: CH	/130-/290), 185
WC-1090C	Pipe Laying - CHC 615 - 720 (DN1200) from Portal AB7/AD9/AC12 to Portal AB8	85	85	27-Apr-16	6 08-Aug-16	86									P
Twin DN1400	Water Mains (CHE & CHG)														
WE-1060	Pipe Laying - CHE & CHG (Twins DN1400) from Portal AB8 to new connection point	110	110	04-Jul-16	11-Nov-16	-51									
WE-1050	Pipe Laying - CHE & CHG (Twins DN1400) from Portal AB7/AD9/AC12 to Portal	85	85	04-Jul-16	13-Oct-16	-19									
DN2200 Water	AB8														
WF-1000A	Pipe Laying - CHF 80 - 112 (DN2200) near ext. TWSR West underneath Box	210	210	27-Jun-16	6 13-Mar-17	19									
D	Culvert BC01														
WJ-1020A	r Mains and Leakage Collection System (CHJ & CHKA/CHK) Pipe Laving - CHK 0 - 80 (DN1400) near Realigned TWSR East, 80m long & 4m	55	23	05-Oct-15	A 19-May-16	63				Dina Lau		0 (DNI4 400) mean D		Feet 00m long	Anh donth Dine
WJ-1020A	depth	55	2.5	05-00-15	A 13-10ay-10	00				Pipe Lay	ng - Спк 0 - 6	0 (DN1400) near R	ealigned TVSP	c East, ourniong a	x 4m depth, Pipe
WJ-1100	DN300 Washout at around CHJ 268	65	65	21-Apr-16	6 09-Jul-16*	121								N300 Washout a	around CHJ 26
WJ-1110	DN300 Washout at CHJ 155	65	65	21-Apr-16	6 09-Jul-16*	121								N300 Washout a	CHJ 155
WJ-1020B	Pipe Laying - CHKA 0 - 73 (DN1400) near Realigned TWSR East, 73m long & 4m	90	90	20-May-16	6 03-Sep-16	63									
	depth														
	g Valve Control & Telemetry House Reprovision									Testing and Commission		ation for DNI 400 up	the second second second		
VCTH-1020c	Testing and Commissioning (Valve operation for DN1400 watermains)	30	12	10-Oct-15	A 05-May-16	93				lesung and Commission	ng (valve open	alion for Div 1400 wa	auermains), ies	ung and Commis	ioning (valve op
VCTH-1030	Demolition of Existing KLH Valve Control & Telemetry House	90	90	06-May-16	* 22-Aug-16	93									
Existing Nam V	Na Po Trunk Sewage Pumping Station (PST3)														
PS-1000	Demolition of Existing Boundary Wall of Pumping Station (PST3)	50	50	21-Apr-16	* 21-Jun-16	387					-	Demoli	ition of Existing	Boundary Wall of	Pumping Station
PS-1010	Construction of New Boundary Wall for Pumping Station (PST3)	90	90	22-Jun-16	6 07-Oct-16	387									
Stage 1A - Rea	alignment of Tai Wo Service Road West (KD-7)												-		
-	1 betweeen CH100 and CH155														
At-Grade Roa															
TWSRW-1160	DB Remaining Road Formation, Road Drainage, DN150 watermain, Kerb, Planter & Pavement	46	46	14-Jul-16	05-Sep-16	413									
TWSRW Zone 2	betweeen CH155 and CH280														
At-Grade Roa												tification Works for \$		Sewer Postfirst	ion Works for Sa
TWSRW-2140	0 Rectification Works for Southern Trunk Sewer	48	38	30-Oct-15	A 06-Jun-16	113									
TWSRW-2130	DB Noise Barrier NB1a - Remaining Footing adjacent Realigned TWSR West (Covered by VO 103) (Approx. 20m)	30	30	07-Jun-16	6 13-Jul-16	113								Noise Barrier I	NB1a - Remainin
TWSRW-2120	DB Remaining Road Formation, Road Drainage, DN150 watermain, Kerb, Planter & Pavement	46	46	14-Jul-16	05-Sep-16	113									
TWSRW Zone S	5 betweeen CH376 and CH520														
At-Grade Roa	dworks														
	I										1				
	Actual	Work					CEDD Co	ntract No. CV/201	2/09			Nonth Rolling Pro			
	Remain	nina V	Vork		Liantana / Hound			- Site Formation		ruoturo Works	Date	Revisi		Checked	Approved
	Summa	anvBa	r		Liantany / neung	jiue			a mnasu	ucture works,	20-Apr-16	Rev.0	:	SL	
🚺 俊 和								Contract 3							
	WO CONSTRUCTION & ENGINEERING CO. LTD.		aining V	vork				Rolling Progra							
chok	Milesto	one			Progr	amr	ne ID: 3N	IPR033 (Data D	ate: 21	-Apr-16)					
	Actual	Level	of Effort	t 🛛	-			Page 3 of 8		-					
	Project	t Base	line Bai	- I								1			
	110,000												1		

tivity ID	Activity Name	OD	RD	Start	Finish	TF	2016		
							Apr May Jun	Jul A	Aug
	Retaining Wall RW7- adjacent to Realigned TWSR West (66m) (covered by VO No.100)	70	0	29-Oct-15 A	20-Apr-16 A		Retaining Wall RW7- adjacent to Realigned TWSR West (66m) (covered by VO No.100	1)	
	Retaining Wall RW8 - adjacent to Realigned TWSR West (66m) (covered by VO No.100)	50	0	29-Jan-16 A	04-Apr-16 A		Retaining Wall RW8 - adjacent to Realigned TWSR West (66m) (covered by VO No.100)		
TWSRW-5130	Installation of Stone Facing Finish	45	60	19-Mar-16 A	04-Jul-16	467		stallation of Stone Facing Finish	h, Inst
	Remaining Road Formation, DN150 watermain, Kerb, Planter and Pavement (incl. Zone 5)	14	14	21-Apr-16	07-May-16	213	Remaining Road Formation, DN150 watermain, Kerb, Planter and I	vavement (incl. Zone 5)	
TWSRW-5120	Permanent Vehicular Access to Lot 81	125	125	21-Apr-16	19-Sep-16	102			
TWSRW Zone 6 b	betweeen CH520 and CH530								
At-Grade Roadw	vorks								
TWSRW-6110	Slope Upgrading Works for unregistered feature beside Slope 3SW-D/C80 (Covered by VO. 68)	65	4	22-May-15 A	25-Apr-16	-18	Slope Upgrading Works for unregistered feature beside Slope 3SW-D/C80 (Cov	ared by VO. 68), Slope Upgrad	ding V
	Preparation Works for Implementation of TTA (shifting TWSRW traffic towards FLH SB)	21	5	24-Dec-15 A	26-Apr-16	367	Preparation Works for Implementation of TTA (shifting TWSRW traffic towards F	LH SB), Preparation Works for	or Imp
TWSRW Zone 7 b	betweeen CH530 and CH640								
At-Grade Roadw									
	Preparation Works for Implementation of TTA (shifting TWSRW traffic towards FLH SB)	21	3	22-Dec-15 A	23-Apr-16	369	Preparation Works for Implementation of TTA (shifting TWSRW traffic towards FLH		nplem
TWSRW-7110	Implementation of TTA - Scheme W3A(shifting TWSRW traffic towards FLH SB)	0	0	27-Apr-16		367	Implementation of TTA - Scheme W3A(shifting TWSRW traffic towards FLH SB		
	Remaining Road Formation, DN150 watermain, Kerb, Planter and Pavement (ind. Zone 6 & Zone 7)	30	30	27-Apr-16	02-Jun-16	492	Remaining Road Formation, DN150 w	atermain, Kerb, Planter and Pa	'averr
	betweeen CH640 and CH695								
	idge Reprovision (West)								
	Construction of Pile Cap and Abutment	50	22	17-Nov-15 A	18-May-16	32	Construction of Pile Cap and Abutment, Construction of	Pile Cap and Abutment	
At-Grade Roadw									
	Pipe Laying - DN450 Watermains (CHA)	95	95	27-Apr-16	19-Aug-16	367			
Remainder of the									
	Utilities Diversion in Area 3 (along existing TWSRW, Approx. 150m) (by utilities undertakers)	106	106	27-Apr-16	10-Aug-16	154			
	s for Noise Barrier along realigned TWSR West								
	Noise Barrier Steelworks & Panel for NB4 at Zones 1 & 2	20	20	21-Apr-16*	16-May-16	477	Noise Barrier Steelworks & Panel for NB4 at Zones 1 & 2		
	Noise Barrier Steelworks & Panel for NB1b at Zone 4	10	10	17-May-16	27-May-16	477	Ndise Barrier Steelworks & Panel for NB1b a		
TWSRW-NB-140	Noise Barrier Steelworks & Panel for NB2 at Zone 5	20	20	28-May-16	21-Jun-16	477	Noise Barrier Ste	elworks & Panel for NB2 at Zor	one 5
	B - Realignment of Tai Wo Service Road East (KD-13 & KD-14)								
TWSRE Zone 1 b	etween CH100 and CH270								
At-Grade Roadw									
TWSRE-1140*	Pipe laying - DN1400 Watermains (CHKA) along Realigned TWSR East	90	90	20-May-16	03-Sep-16	63			
TWSRE-1170	Remainig Noise Barrier NB3 Stem Wall (a total of 24m long)	30	30	17-Jun-16	22-Jul-16	195		Remainig Noi	oise B
	etween CH270 and CH380								
At-Grade Roadw									
	Pipe laying - DN600 & DN1200 Watermains (CHB & CHC) along Realigned TWSR East	30	233	17-Jul-15 A	04-Feb-17	280			
	Pipe laying - DN1400 Watermains (CHK) along Realigned TWSR East	55	23	05-Oct-15 A	19-May-16	63	Pipe laying DN1400 Watermains (CHK) along Realig	ned IWSR East	
THORE 00.40	Road Formation, Kerb, Footpath, Cycle Track, Planter and Pavement	71	71	20-May-16	12-Aug-16	177			



Activity ID	Activity Name	OD	RD	Start	Finish	TF					016			
TWERE 2000	Fraction of Scotfalding for Domalition Warks	60	60	16 100 10	25 Aug 40			Apr		Мау		Jun	Jul	Aug
TWSRE-2060	Erection of Scaffolding for Demolition Works	60	60	16-Jun-16	25-Aug-16		,							
	between CH380 and CH456													
At-Grade Road TWSRE-3040	Works Road Formation, Kerb, Footpath, Cycle Track, Planter and Pavement (Incl. FL/F10)	165	165	21-Apr-16	07-Nov-16	106								
				÷0										
Roundabout A, TWSRE-4070	Slip Road and Access Road Roundabout A - Road Formation, Kerb, Planter and Pavement	90	35	26-Oct-15 A	02-Jun-16	0								
1W3RE-4070	Roundabour A - Road Formation, Reib, Flanter and Favement	90	35	20-00-15 A	02-5011-16		,				Roundabou	It A - Road Forma	tion, Kerb, Planter and Paven	ient, Roundabout
TWSRE-4020	Slip Road Y (CH260-CH404) - Road Formation, Road Drainage, Kerb, Planter and Pavement	108	35	28-Dec-15 A	A 02-Jun-16	C)				Slip Road Y	(CH260-CH404)	- Road Formation, Road Dra	inage, Kerb, Plan
TWSRE-4120	Implementation of TTA - Scheme E1A (to shift TWSRE to Roundabout A)	0	0	21-Mar-16 A	4		 Impleme 	ntation of TTA - Scheme	E1A (to s	hift TWSRE to Roundabout A)				
TWSRE-4030B	Slip Road Y (CH100-CH230) - Road Formation, Remaining Road Drainage, Kerb, Planter and Pavement	60	35	22-Mar-16 A	02-Jun-16	C					1	(CH100-CH230)	- Road Formation, Remaining	g Road Drainage,
	ks for Noise Barrier along realigned TWSR East							1						0 T
TWSRE-NB-130	D Installation of Steelwork & Transparent Panel - Noise Barrier NB3 (254m)	25	25	03-Jun-16*	04-Jul-16	611							Installation of Steelwork	& Iransparent P
Stage 1C - Viad	luct Structure & TCSS Civil Provisions (KD-9)													
Preliminaries					07.4 40.4									
B-3050	Relocation of Plant including Pre-drilling Works	21	0	08-Mar-16 A	A 07-Apr-16 A			Relocation of	Plant inclu	iding Pre-drilling Works				
	ier Construction													
Bridge A BA-09-1030	Pier AA9 - Pier Construction (Twin Pier)	49	8	07-Nov-15 A	A 29-Apr-16	5	5			Pier AA9 - Pier Construction (Tv	und Pier) Pier A A G	- Pier Constructio	n (Twin Pier)	
										FIELAAS - FIEL CONSTUCTION (10	VIII FIEL), FIELAAS			
BA-10-1020	Pier AA10 - Pile Cap	30	0	18-Jan-16 A	29-Mar-16 A			Pier AA10 - Pile Cap						
BA-11-1030	Pier AA11 - Pier Construction	35	0	25-Jan-16 A	20-Apr-16 A				Pier AA1	1 - Pier Construction				
BA-02-1030	Pier AA2W - Pier Construction	21	0	19-Feb-16 A	A 15-Apr-16 A			 						
BA-02-1020B	Pier AA2W - Pile Cap	30	6	22-Mar-16 A	A 27-Apr-16	78	3				_		Pier AA2\	V - Pile Cap, Pier
BA-06-1000	Pier AA6 - Piling Works	24	16	08-Apr-16 A	10-May-16	1				Pier AA6 - Piling Wo	orks, Pier AA6 - Pi	iling Works		
BA-10-1030	Pier AA10 - Pier Construction	30	23	13-Apr-16 A	19-May-16	11					Pier AA10 - Pier C	Construction, Pier A	A10 - Pier Construction	
BA-02-1040	Pier AA2E - Pier Construction	21	21	21-Apr-16	17-May-16	135	5							
BA-08-1040	Pier AA8 - Piling Works (P2,P3)	24	24	27-Apr-16	26-May-16	41				P	iel AA8 - Piling We	orks (P2,P3)		
BA-02-1050	Portal AA2 - Portal Beam Construction together with Kicker	40	40	26-May-16	13-Jul-16	135	5							
BA-08-1010	Pier AA8 - Pile Test	14	14	27-May-16	13-Jun-16	41						Pier AA8 - Pile Te	est	
BA-06-1010	Pier AA6 - Pile Test	14	14	28-May-16	14-Jun-16	1	1					Pier A A6 - Pile 1	est	
BA-08-1020	Pier AA8 - Pile Cap	30	30	14-Jun-16	19-Jul-16	41	1 -						Pier A	A8 - Pile Cap
BA-06-1020	Pier AA6 - Pile Cap	30	30	15-Jun-16	20-Jul-16	1							Pier A	A6 - Pile Cap
BA-08-1030	Pier AA8 - Pier Construction	25	25	20-Jul-16	17-Aug-16	41	-							
Bridge B														
BB-12-1020	Abutment AB12/AD14 - Pile Cap	65	25	28-Oct-15 A	21-May-16	85	5			Abutme	ent AB12/AD14 - F	Pile Cap, Abutmen	t AB12/AD14 - Pile Cap	
				1	1			1		1			1	1
	Actual	Work					CEDD Co	ntract No. CV/201	2/09				gramme updated to 2016	
	Remail	ning W	/ork		iantang / Heung	n Yue		- Site Formation		tructure Works	Date	Revisio		Approved
	Summa	arv Ba	r	-	iuntung / neung	, .u.		Contract 3	a minus		20-Apr-16 F	Rev.0	SL	
🚺 俊 和	建築工程有限公司 Critical			lork			• • • • • • •							
CHUN V	NO CONSTRUCTION & ENGINEERING CO. LTD.			on	_			Rolling Progra			┝───┼			
					Progr	amr		PR033 (Data D	Date: 2	1-Apr-16)				
	Actual	Level	of Effort					Page 5 of 8						
	Project	Basel	ine Bar											

ity ID	Activity Name	OD	RD	Start	Finish	"	2016			
DD 00 4050	Partal ADO - Partal Paran Organization targets a with Kinkar		40	01 4== 40	00 hm 40		Apr May	Jun	Jul	Aug
BB-06-1050	Portal AB6 - Portal Beam Construction together with Kicker	40	40	21-Apr-16	08-Jun-16	28		Portal AB6 - Portal Beam Constructio	on together with I	Kicker
BB-04-1000	Pier AB4 - Piling Works	24	24	11-May-16	08-Jun-16	7		Pier AB4 - Piling Works		
BB-12-1030	Abutment AB12/AD14 - Abutment Construction	75	75	23-May-16	19-Aug-16	85				-
BB-02-1000	Pier AB2 - Piling Works	12	12	27-May-16	10-Jun-16	75		Pier AB2 - Piling Works		
BB-01-1000B	Abutment AB1 - Piling Works (Conflict with town gas)	12	12	11-Jun-16	24-Jun-16	125		Abutment AB1 - Pili	ling Works (Conf	lict with tow
BB-01-1010	Abutment AB1 - Pile Test	14	14	25-Jun-16	12-Jul-16	125			Abutment AB1	- Pile Test
BB-04-1010	Pier AB4 - Pile Test	14	14	27-Jun-16	13-Jul-16	7] Pier AB4 - Pile	e Test
BB-02-1010	Pier AB2 - Pile Test	14	14	28-Jun-16	14-Jul-16	75			Pier AB2 - Pi	le Test
BB-02-1020	Pier AB2 - Pile Cap	30	30	20-Jul-16	23-Aug-16	71				_
Pridao C										
Bridge C BC-01-1030	Abutment AC1 - Abutment Construction	50	15	16-Dec-15 A	09-May-16	197	Abutment AC1 - Abutment Const	ruction, Abutment AC1 - Abutment C	Construction	
BC-02-1030	Pier AC2 - Pier Construction	45	9	12-Apr-16 A	30-Apr-16	54	Pier AC2 - Pier Construction, Pier AC2 - Pier			
Bridge D										
BD-13-1030	Pier AD13 - Pier Construction	45	0	03-Dec-15 A	01-Apr-16 A		Pier AD13 - Pier Construction			
BD-08-1040	Portal AC11/AD8 - Portal Beam Construction together with Kicker	40	33	17-Feb-16A	31-May-16	15		11/AD8 - Portal Beam Construction to	together with Kic	ker Porta
BD-01-1030	Abutment AD1 - Abutment Construction	50	47	18-Feb-16 A	17-Jun-16	151		Abutment AD1 - Abutment	-	
BD-09-1040	Portal AD9/AC12 - Portal Beam Construction together with Kicker	40	30	25-Feb-16 A	27-May-16	-51	Portal AD9/AC	C12 - Portal Beam Construction toget	ther with Kicker,	Portal AD
BD-11-1020A	Pier AD11E - Pile Cap	30	30	21-Apr-16	27-May-16	6	Pier AD11E -	^{>} ile Cap		
BD-03-2040	Portal AD3 - Portal Beam Construction together with Kicker	40	40	26-Apr-16	14-Jun-16	102		-		
BD-11-1030	Pier AD11E - Pier Construction	35	35	28-May-16	09-Jul-16	6		Pie	er AD11E - Pier	Constructi
BD-11-1050	Portal AD11 - Portal Beam Construction together with Kicker	40	40	19-Jul-16	02-Sep-16	6				
Pier Table Con st	truction									
Bridge A		50			10.11 10					
PA-1050	Pier Table Construction at Pier AA5 (4 nos.)	50	20	12-Mar-16 A	16-May-16	0	Pier Table Construction at	Pier AA5 (4 nos.), Pier Table Constru	uction at Pier AA	5 (4 nos.)
PA-1120	Pier Table Construction at Pier AA12 (3 nos.)	50	30	21-Mar-16 A	27-May-16	5	Pier Table Cor	nstruction at Pier AA12 (3 nos.), Pier	Table Constructi	on at Pier
PA-1110	Pier Table Construction at Pier AA11 (3 nos.)	50	50	22-Apr-16	22-Jun-16	0		Pier Taple Constructio	on at Pier AA11 (3 nos.)
PA-1090	Pier Table Construction at Pier AA9 (4 nos.)	50	50	17-May-16	15-Jul-16	0			Pier Table C	onstructio
PA-1100	Pier Table Construction at Pier AA10 (3 nos.)	50	50	27-May-16	26-Jul-16	11				
PA-1070	Pier Table Construction at Pier AA7 (3 nos.)	50	50	23-Jun-16	20-Aug-16	67				<u> </u>
Bridge B										
PB-1100	Pier Table Construction at Pier AB10 (4 nos.) incl. in-situ cross head	50	0	21-Sep-15 A	31-Mar-16 A		Pier Table Construction at Pier AB10 (4 nos.) incl. in-situ cross head			
	·							I		
		tual Work					EDD Contract No. CV/2012/09	Month Rolling Programme upd	dated to 2016-	04-20
		emaining W	lork				Vai BCP - Site Formation & Infrastructure Works,	Revision	Checked	Appro
			3.11	LIA	mano / Heuno	1 1110		6 Rev.0 S	SL	

俊和建築工程有限公司 CHUN WO CONSTRUCTION & ENGINEERING CO., LTD.

Critical Remaining Work

Actual Level of Effort

Project Baseline Bar

Milestone

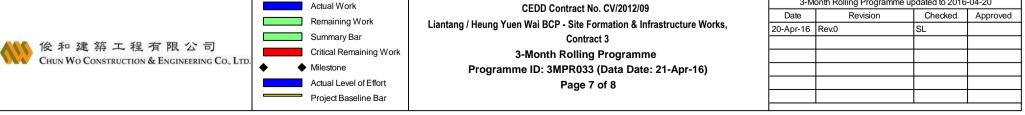
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3-Month Rolling Programme

Programme ID: 3MPR033 (Data Date: 21-Apr-16)

Page 6 of 8

y ID	Activity Name	OD	RD	Start	Finish		2016
							Apr May Jun Jul Aug
PB-1110	Pier Table Construction at Pier AB11 (4 nos.) incl. in-situ cross head	42	14	24-Dec-15 A	07-May-16	-48	Pier Table Construction at Pier AB11 (4 nos.) incl. in-situ cross head, Pier Table Construction at Pier A
PB-1090	Pier Table Construction at Pier AB9 (4 nos.) incl. in-situ cross head	40	30	01-Mar-16 A	27-May-16	195	Pier Table Construction at Pier AB9 (4 nos.) incl. in-situ cross head, Pier Table (
PB-1050	Pier Table Construction at Pier AB5 (3 nos.)	50	0	04-Mar-16 A	30-Mar-16 A		Pier Table Construction at Pier AB5 (3 nos.)
PB-1060	Pier Table Construction at Portal AB6 (2 nos.)	18	18	25-Jun-16	16-Jul-16	15	Pier Table Constructor
Bridge C							
PC-1040	Pier Table Construction at Pier AC4 (3 nos.)	50	50	28-May-16	27-Jul-16	44	Piệr Tabl
PC-1020	Pier Table Construction at Pier AC2 (3 nos.)	50	50	16-Jul-16	12-Sep-16	0	
Bridge D							
PD-1100	Pier Table Construction at Pier AD10 (4 nos.) incl. in-situ cross head	40	0	06-Oct-15 A	21-Apr-16	-24	Pier Table Construction at Pier AD10 (4 nos.) incl. in-situ cross head, Pier Table Construction at Pier AD10 (4 nos.) incl.
PD-1120	Pier Table Construction at Pier AD12 (4 nos.) incl. in-situ cross head	40	40	21-Apr-16	08-Jun-16	31	Pier Table Construction at Pier AD12 (4
PD-1130	Pier Table Construction at Pier AD13 (4 nos.) incl. in-situ cross head	40	40	09-May-16	25-Jun-16	23	Pier Table Construction at Pier AD13 (4 nos.)
PD-1090	Pier Table Construction at Portal AD9/AC12 (4 nos.)	28	28	28-May-16	30-Jun-16	-51	Pier Table Construction at Portal AD9/A0
PD-1080	Pier Table Construction at Portal AC11/AD8 (4 nos.)	20	20	01-Jun-16	24-Jun-16	15	Pier Table Construction at Portal AC11/AD8 (4
Viadu ct Bridge	e Segement Erection						
Bridge A							
EA-1040	Bridge Deck Construction at Pier AA4 by Typical Lifting Frame (16 nos + 1 no. key segment)	10	0	22-Mar-16 A	02-Apr-16 A		Bridge Deck Construction at Pier AA4 by Typical Lifting Frame (
EA-1180	Bridge Deck Construction at Pier AA18 by Typical Lifting Frame (24 nos + 2 no. key segment)	15	15	18-May-16	03-Jun-16	-7	Bridge Deck Construction at Pier AA18 by Typical Lifting Frame (24 no
EA-1050	Bridge Deck Construction at Pier AA5 by Typical Lifting Frame (12 nos + 1 no. key segment)	10	10	04-Jun-16	16-Jun-16	-7	Bridge Deck Construction at Pier AA5 by Typical
EA-1120	Bridge Deck Construction at Pier AA12 by Typical Lifting Frame (16 nos + 1 no. key segment)	16	16	17-Jun-16	06-Jul-16	-7	Bridge Dec
EA-1110	Bridge Deck Construction at Pier AA11 by Typical Lifting Frame (18 nos + 1 no. key segment)	18	18	07-Jul-16	27-Jul-16	-7	
Bridge B						1	
EB-1070	Bridge Deck Construction at Pier AB7 by Crane (26 nos + 2 no. key segment)	20	5	29-Feb-16 A	26-Apr-16	3	Bridge Deck Construction at Pier AB7 by Crane (26 nos + 2 no. key segment), Bridge Deck Construction at Pier
EB-1100	Bridge Deck Construction at Pier AB10 by Special Lifting Frame (54 nos in which 12 nos above MTRCL Railway)	72	53	29-Mar-16 A	24-Jun-16	-90	Bridge Deck Construction at Pier AB 10 by Spe
EB-1050	Bridge Deck Construction at Pier AB5 by Typical Lifting Frame (16 nos + 1 no. key segment)	10	9	09-Apr-16 A	30-Apr-16	-7	Bridge Deck Construction at Pier
EB-1090	Bridge Deck Construction at Pier AB9 by Crane (36 nos + 2 no. key segment)	16	16	28-May-16	16-Jun-16	195	Bridge Deck Construction at Pier AB9 by Crane (36 no
EB-1110	Bridge Deck Construction at Pier AB11 by Special Lifting Frame (48 nos in which 20 nos above MTRCL Railway)	105	105	29-Jun-16	02-Nov-16	-90	
Bridge C		,			·		
EC-1050	Bridge Deck Construction at Pier AC5 by Typical Lifting Frame (20 nos + 2 no. key segment + 3 no. of AC6)	12	12	03-May-16	17-May-16	-7	Bridge Deck Construction at Pier AC5 by Typical Lifting Frame (20 nos + 2 no. key segme
Bridge D							
ED-1100	Bridge Deck Construction at Portal AD10 by Crane (52 nos)	32	32	21-Apr-16	30-May-16	-24	Bridge Deck Construction at Portal AD10 by Crane (52 nos)
ED-1130	Bridge Deck Construction at Pier AD 13 by Crane (6 nos)	44	44	27-Jun-16	17-Aug-16	23	
ED-1090	Bridge Deck Construction at Portal AD9 by Crane (14 nos + 4 no. key segment)	15	15	02-Jul-16	19-Jul-16	-51	Bridge Deck Cons
	Actual	\A/I-					3-Month Rolling Programme updated to 2016-04-20



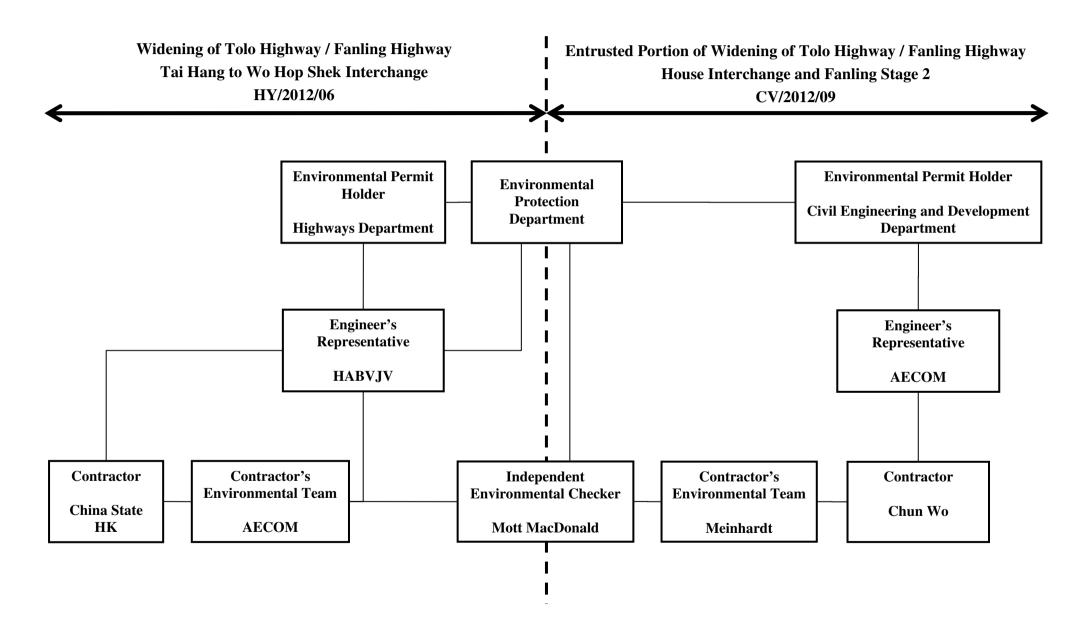
ivity ID	Activity Name	OD	RD	Start	Finish	TF		2010	6		
							Apr	Мау	Jun	Jul	Aug
Section VI - W	/orks in Portion FH9 (KD-6A)										
Major Works											
S6-2000*	Construction of Abutment AB12/AD14 (including Piling, Pile Cap & Abutment construction)	276	100	06-Feb-15 A	19-Aug-16	85					
Landscaping	& Establishment Works (KD-4, 4A, 5, 5A, 6)						 	 			1
Secton III - Re	emainder of Landscaping Softworks Not Included in Secton IIIA										
S3-1000	Transplanting along Realigned TWSR West	120	120	27-Apr-16	19-Sep-16	286					<u> </u>
S3-1020	Transplanting near MTR East Rail Line	240	240	17-Jun-16	08-Apr-17	125					

		Actual Work	CEDD Contract No. CV/2012/09	3-Mo	onth Rolling Programme	updated to 2016	-04-20
		Remaining Work		Date	Revision	Checked	Approved
		Ũ		20-Apr-16	Rev.0	SL	
俊 和 建 築 工 程 有 限 公 司		Summary Bar	Contract 3			1	
Chun Wo Construction & Engineering Co., Ltd.		Critical Remaining Work	3-Month Rolling Programme			1 1	
CHEN WO CONSTRUCTION & ENGINEERING CO., LTD.	• •	Milestone	Programme ID: 3MPR033 (Data Date: 21-Apr-16)				
		Actual Level of Effort	Page 8 of 8				
		Project Baseline Bar					



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 - Ma Operator		5 Rootsmeter Orifice I.I	0/11	138320 1941	Ta (K) - Pa (mm) -	292 - 756.92
====== OR Run # 1 2 3 4 5	VOLUME START (m3) NA NA NA NA NA NA	VOLUME STOP (m3) NA NA NA NA NA NA	DIFF VOLUME (m3) 1.00 1.00 1.00 1.00 1.00	DIFF TIME (min) 1.4880 1.0510 0.9360 0.8920 0.7360	METER DIFF Hg (mm) 3.2 6.4 7.9 8.8 12.7	ORFICE DIFF H2O (in.) 2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
1.0121 1.0078 1.0057 1.0046 0.9993	0.6802 0.9589 1.0745 1.1262 1.3578	1.4258 2.0163 2.2543 2.3644 2.8515		0.9958 0.9916 0.9895 0.9884 0.9832	0.6692 0.9434 1.0571 1.1080 1.3358	0.8784 1.2422 1.3888 1.4566 1.7568
Qstd slop intercep coefficie v axis =	t (b) = ent (r) =	2.10265 -0.00335 0.99999 Pa/760)(298/5	1	Qa slop intercep coefficio v axis =	t (b) =	1.31664 -0.00206 0.99999 Ta/Pa)]

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

	SITE		
Loca	tion: Lian Tang 3	Date:	March 5, 2016
Sam	pler: TE-5170 MFC (Serial # : 2359)	Tech:	Sam Wong

		C	CONDITIONS		
Barometric Pressure	(in Hg):	40.00	Corrected Pressure	(mm Hg):	1016
Temperature	(deg F):	70	Temperature	(deg K):	294
Average Press.	(in Hg):	40.00	Corrected Average	(mm Hg):	1016
Average Temp.	(deg F):	70	Average Temp.	(deg K):	294

CALIBRATION ORIFICE					
Make:	Tisch	Qstd Slope:	2.10265		
Model:	TE-5025A	Qstd Intercept:	-0.00335		
Serial#:	1941	Date Certified:	March 24, 2015		

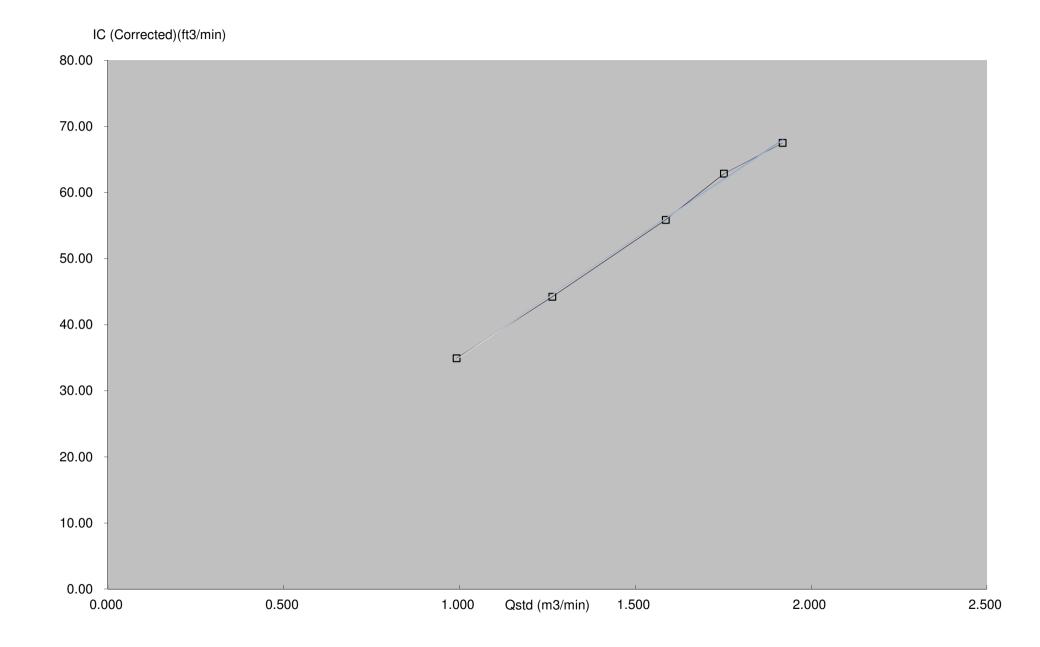
	CALIBRATIONS							
Plate or Test #	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	LINEAR REGRESSION			
1	12.00	1.919	58.0	67.50	Slope =	35.7973		
2	10.00	1.752	54.0	62.85	Intercept =	-0.7187		
3	8.20	1.587	48.0	55.86	Corr. coeff.=	0.9992		
4	5.20	1.264	38.0	44.23				
5	3.20	0.992	30.0	34.92	<pre># 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



TEST REPORT

for SOUND CALIBRATOR

Model :	NC - 74

Serial No. : 34857296

Condition : Temperature

25 °C

Humidity

64 %RH

Date :

September, 8, 2015

Signature :

Y. kitajima



NC-74 34857296

1. Sound Pressure Level	$94.0\ \pm\ 0.25\ dB$	94.00 dB
2. Frequency	1000 ± 7 Hz	1002.0 Hz
3. Distortion	3% or less	Pass
4. Alarm Function		Pass

5. Appearance

Pass

Applicable standards

JIS C 1515:2004 class1 IEC 60942:2003 class1





Hong Kong Calibration Ltd. 香港校正有限公司

Calibration Certificate

Certificate No.	508784		Page	1 of 3 Pages
Customer :	Enovative Environmental Service	Limited		
Address :	Flat 6, 3/F, Block E, Wah Lok Ind	lustrial Centre, 3	1-35 Shan Mei Stree	et, Shatin, N.T., Hong Kong.
	Q53442		Date of receipt	
Item Tested				
Manufacturer :	Sound Level Meter B&K 2238		Serial No.	: 2694908
Test Conditi	ons			
Date of Test : Ambient Temp			Supply Voltage Relative Humic	e : dity : (50 ± 25) %
Test Specifie	cations			
Calibration check Ref. Document/	k. Procedure: Z01, IEC 651 and IE	C 804.		
Test Results	3			
The results are	within the IEC 651 Type1 and IEC shown in the attached page(s).	C 804 Type1 spe	ecification after adjus	stment.
Main Test equip Equipment No.		Cert. No.		Traceable to
S017	Multi-Function Generator	C147450		SCL-HKSAR
S240	Sound Level Calibrator	500563		NIM-PRC & SCL-HKSAR
will not include allo overloading, mis-h for any loss or dan The test equipmen	n this Calibration Certificate only relate to wance for the equipment long term drift, andling, or the capability of any other labor nage resulting from the use of the equipm it used for calibration are traceable to Inte uply to the above Unit-Under-Test only	variations with envir pratory to repeat the lent.	onmental changes, vibrat measurement. Hong Ko	tion and shock during transportation,
Calibrated by This Certificate is issued Hong Kong Calibration L Unit 8B, 24/F., Well Fun Tel: 2425 8801 Fax: 24	Alan ^C Chu I by: .td. g Industrial Centre, No. 58-76, Ta Chuen Ping Street,K		Approved by : Date: 15-Oct-15	Steve Kwan

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Hong Kong Calibration Ltd. 香港校正有限公司

Calibration Certificate

Certificate No. 508784

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Results :

1. SPL Accuracy

	UU	T Setting		Applied Value	UU	JT
				(dB)	Readin	g (dB)
Range	Freq. Wgt.	Bandwith	Center Freq.		Before adjust	After adjust
20~100	A	BB/F		94.0	*91.6	93.8
	A	BB/S				93.8
	С	BB/F				93.8
40~120	А	BB/F		94.0		93.9
	A	BB/F		114.0		113.8

IEC 651 Type 1 Spec. : \pm 0.7 dB Uncertainty : \pm 0.1 dB

Level Stability : 0.0 dB
 IEC 651 Type 1 Spec. : ± 0.3 dB
 Uncertainty : ± 0.1 dB

3. Linearity

3.1 Level Linearity

UUT Range	Applied	UUT Reading	Variation	IEC 651 Type 1 Spec.
(dB)	Value (dB)	(dB)	(dB)	(Primary Indicator Range)
140	114.0	113.9	0.0	± 0.7 dB
130	104.0	103.9	0.0	
120	94.0	93.9 (Ref.)		
110	84.0	83.9	0.0	
100	74.0	73.9	0.0	
90	64.0	63.9	0.0	
80	54.0	53.8	-0.1	

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

3.2 Differential level linearity

UUT Range	Applied	UUT Reading		
(dB)	Value (dB)	(dB)	Variation (dB)	IEC 651 Type 1 Spec.
120	84.0	84.0	+ 0.1	± 0.4 dB
	94.0	93.9 (Ref.)		
	95.0	94.9	0.0	± 0.2 dB

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

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Calibration Certificate

Certificate No. 508784

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4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	- 39.3	- 39.4 dB, ± 1.5 dB
63 Hz	- 26.2	- 26.2 dB, ± 1.5 dB
125 Hz	- 16.2	- 16.1 dB, ± 1 dB
250 Hz	- 8.7	- 8.6 dB, ± 1 dB
500 Hz	- 3.2	- 3.2 dB, ± 1 dB
1 kHz	0.0 (Ref)	$0 \text{ dB}, \pm 1 \text{ dB}$
2 kHz	+ 1.2	$+$ 1.2 dB, ± 1 dB
4 kHz	+ 1.0	$+ 1.0 \text{ dB}, \pm 1 \text{ dB}$
8 kHz	- 1.2	- 1.1 dB, + 1.5 dB ~ -3 dB
16 kHz	- 6.7	- 6.6 dB, + 3 dB \sim - ∞

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

5. Time Averaging

Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	IEC 804 Type 1 Spec.
continuous	40.0	40.0	
1/10	40.0	39.9	$\pm 0.5 \text{ dB}$
$1/10^{2}$	40.0	39.9	
$1/10^{3}$	40.0	39.9	± 1.0 dB
1/10 ⁴	40.0	39.8	

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 : 1008 hPa
- 4. The UUT was adjusted with the laboratory's sound calibrator at the reference sound pressure level before the calibration.
- 5. * Out of specification.

----- END ------

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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 April 2016

	April 2016							
Sun	Mon	Tue	Wed	Thu	Fri	Sat		
					1	2		
3	4 Ching Ming Festival	5 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	6 ET Site Walk(02:15pm – 03:45pm)	7	8	9		
10	11 ET Site Walk(09:30am – 11:00am) 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	12	13	14	15	16 24-hour TSP + 3 x 1-hour TSP		
17	18	19	20 ET Site Walk(09:30 am – 11:00 am) with Liantang Project-wide ET and IEC + SSEMC	21	22 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	23		
24	25 ET Site Walk(09:30 – 11:00) with Fanling Stage 2 IEC & Liantang Project- wide ET and IEC	26	27	28 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	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 May 2016

			May 2016			
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2 The day following Labour Day	3	4 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	5 ET Site Walk(09:30am – 11:00am)	6	7
8	9 ET Site Walk(09:30am – 11:00am)	10 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	11	12	13	14 The Birthday of the Buddha
15	16 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	17	18 ET Site Walk(09:30 am – 11:00 am) with Liantang Project-wide ET and IEC + SSEMC (To be confirmed)	19	20	21 24-hour TSP + 3 x 1-hour TSP
22	23 ET Site Walk(09:30am – 11:00am)	24	25	26	27 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	28
29	30 ET Site Walk(09:30 – 11:00) with Fanling Stage 2 IEC & Liantang Project- wide ET and IEC	31			<u> </u>	



Appendix E Meteorological Data Extracted from Hong Kong Observatory

Daily Extract of Meteorological Observations , April 2016 -Sheung Shui

		Air	Гетрега	ture						
Day	Mean Pressure (hPa)	Absolute Daily Max (deg. C)Mean (deg.		Absolute Daily Min (deg. C)	Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)	
01	1014.0	27.7	23.1	20.7	19.8	83	0.0	* * *	***	
02	1015.2	25.5#	22.2	20.1#	19.7	86	0.0	***	***	
03	1014.0	28.4#	23.8	20.6#	20.8	84	0.0	***	***	
04	1012.0	30.0#	23.9	21.1#	21.2	86	21.5	***	***	
05	1012.8	25.6#	22.9	20.3#	21.1	90	0.0	* * *	***	
06	1012.6	29.0#	24.4	21.0#	21.1	83	0.0	***	***	
07	1012.7	29.6	25.3	22.4	22.0	83	0.0	***	***	
08	1012.7	30.5	26.1	22.6	22.3	81	0.0	***	***	
09	1011.0	29.0#	25.7	22.9#	22.9	85	0.0	***	***	
10	1008.7	26.3	23.3	21.3	21.6	91	40.0	***	***	
11	1009.6	23.7#	22.0	21.0#	20.0	89	0.0	***	***	
12	1008.5	21.9	21.0	20.0	19.2	90	4.0	* * *	* * *	
13	1005.2	25.1#	22.0	21.0#	21.6	98	51.0	***	***	
14	1007.8	24.8	23.3	22.0	23.0	98	1.5	***	***	
15	1010.7	24.1#	22.1	21.4#	21.1	94	0.0	***	***	
16	1009.8	29.6#	25.3	21.2#	22.6	86	0.0	* * *	***	
17	1010.2	30.0#	26.5	23.0#	23.7	85	0.0	***	***	
18	1014.1	26.7	23.4	20.7	20.2	83	14.5	* * *	***	
19	1016.7	21.7#	20.9	19.5#	17.3	80	0.5	***	***	
20	1014.0	24.9	22.5	20.7	20.1	86	0.0	***	***	
21	1011.9	28.4	24.4	21.8	22.6	90	1.5	***	***	
22	1010.2	25.3#	22.6	20.1#	21.8	95	36.0	***	***	
23	1007.6	29.0	24.7	21.6	22.9	90	1.0	***	***	
24	1008.1	29.7	24.6	22.0	22.8	90	4.5	***	***	
25	1009.2	30.3#	26.1	22.9#	24.3	91	8.0	* * *	***	
26	1008.8	30.2#	27.4	25.6#	24.3	84	1.0	***	***	
27	1007.6	31.2#	27.5	23.7#	24.1	83	4.5	***	***	
28	1010.0	30.0#	26.7	24.5#	21.6	74	0.0	* * *	***	
29	1013.4	27.5#	24.6	22.5#	18.8	71	0.5	***	***	
30	1011.7	24.4#	22.8	20.2#	18.1	75	16.5	***	***	

*** unavailable

data incomplete

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

1



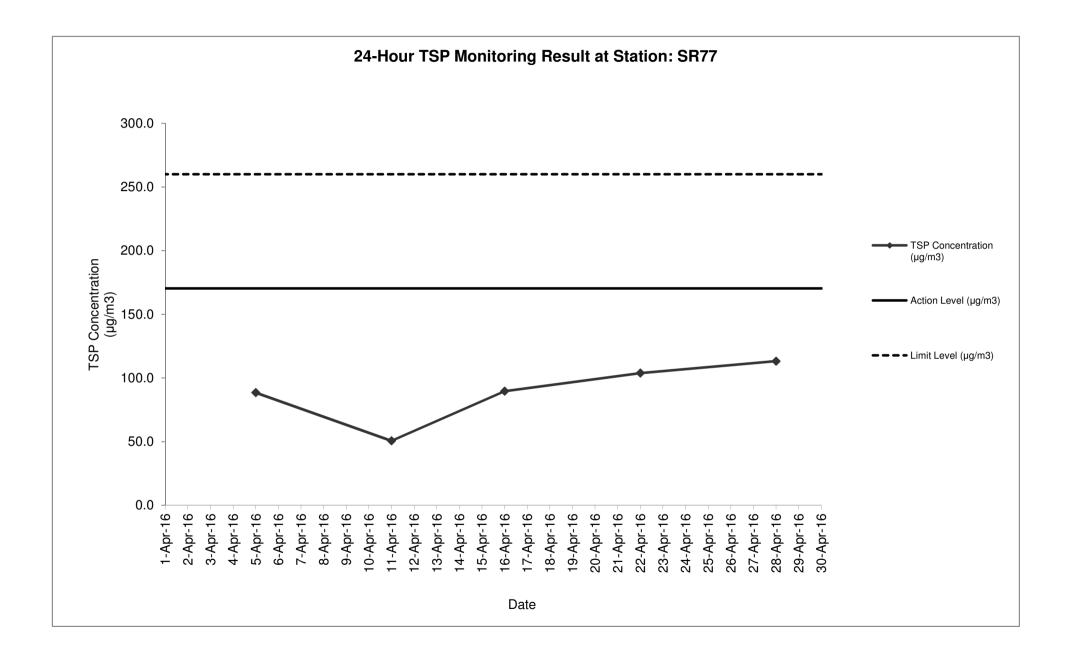
Appendix F Air Quality Monitoring Results and their Graphical Presentation

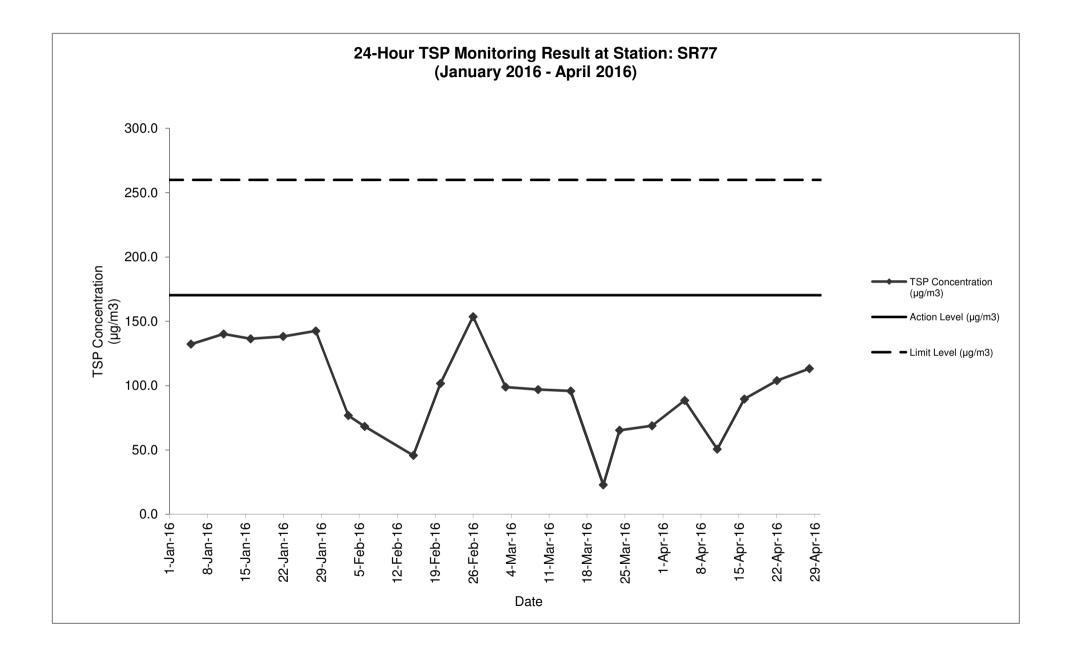
Appendix F Air Quality Monitoring Results and their Graphical Presentation

24-Hour TSP Monitoring Result at Station: SR77

		Starting Time Paper	•	•	Paner No	Paper No.	Wt. of paper (g)		Elapse Time		Flow Rate (CFM)		Flow Rate (m ³ /min)		Total Volume	TSP Concentratio	Action Level	Limit Level	Wind speed	Wind direction	
Date	contaition	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	direction
5-Apr-16	Sunny	12:09	C176	2.8221	3.0062	0.1841	4684.67	4708.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	88.5	170.3	260.0	<5	N
11-Apr-16	Rainy	12:10	C178	2.8817	2.9870	0.1053	4711.67	4735.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	50.6	170.3	260.0	<5	N
16-Apr-16	Cloudy	12:11	C180	2.8874	3.0738	0.1864	4738.67	4762.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	89.6	170.3	260.0	<5	N
22-Apr-16	Rainy	12:10	C182	2.8541	3.0701	0.2160	4765.67	4789.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	103.9	170.3	260.0	<5	N
28-Apr-16	Fine	12:11	C184	2.8314	3.0668	0.2354	4792.67	4816.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	113.2	170.3	260.0	<5	N
																Average	89.2				
																Min	50.6				
																Max	113.2				

Note: No major dust source observed during the monitoring period





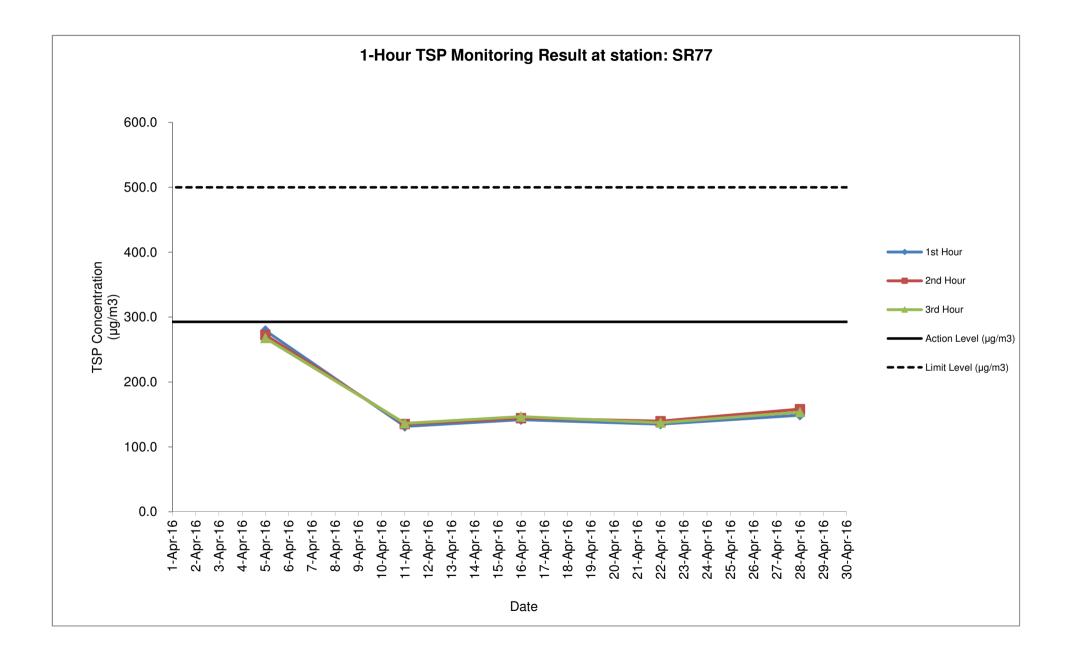
Detailed Calculation of 1-Hour TSP Monitoring Result at Station: SR77

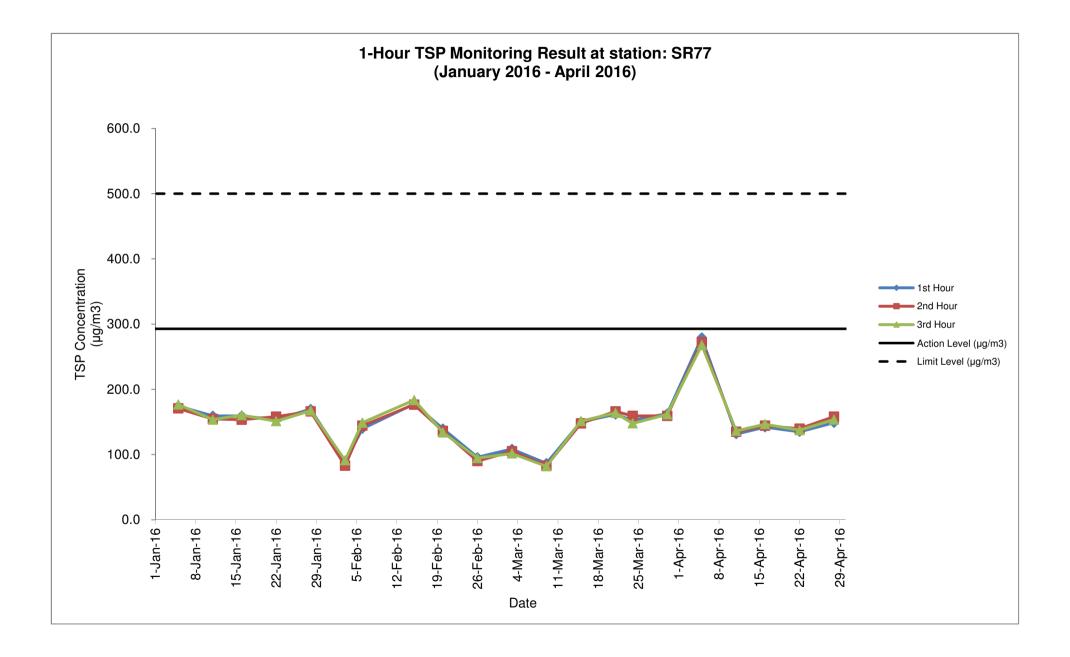
Sampling	Weather	Starting Time	Paper No.	Paper No.	Paper No.	w	/t. of pape	r (g)	E	lapse Tim	ne	Flo	ow Rate (C	FM)	Flov	v Rate (m ³	/min)	Total Volume	TSP Concentratio	Action Level	Limit Level	Wind speed	Wind direction
Date	Condition	Time		Initial Wt.	Final Wt.	Wt. of Dust	Initial	Final	Sampling Hour	Initial	Final	Avg Flow Rate	Initial	Final	Avg Flow Rate	(m³)	(μg/m³)	(µg/m3)	(µg/m3)	m/s	unection		
5-Apr-16	Sunny	09:00	C177A	2.8323	2.8565	0.0242	4681.67	4682.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	279.3	292.7	500.0	<5	N		
	Sunny	10:03	C177B	2.7823	2.8059	0.0236	4682.67	4683.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	272.4	292.7	500.0	<5	Ν		
	Sunny	11:06	C177C	2.8133	2.8365	0.0232	4683.67	4684.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	267.7	292.7	500.0	<5	N		
11-Apr-16	Cloudy	09:00	C179A	2.8347	2.8461	0.0114	4708.67	4709.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	131.6	292.7	500.0	<5	N		
	Cloudy	10:04	C179B	2.8114	2.8231	0.0117	4709.67	4710.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	135.0	292.7	500.0	<5	N		
	Cloudy	11:07	C179C	2.7933	2.8051	0.0118	4710.67	4711.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	136.2	292.7	500.0	<5	N		
16-Apr-16	Cloudy	09:00	C181A	2.8723	2.8846	0.0123	4735.67	4736.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	142.0	292.7	500.0	<5	N		
	Cloudy	10:03	C181B	2.8329	2.8454	0.0125	4736.67	4737.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	144.3	292.7	500.0	<5	N		
	Cloudy	11:06	C181C	2.8217	2.8344	0.0127	4737.67	4738.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	146.6	292.7	500.0	<5	N		
22-Apr-16	Cloudy	09:00	C183A	2.8334	2.8451	0.0117	4762.67	4763.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	135.0	292.7	500.0	<5	N		
	Cloudy	10:03	C183B	2.8198	2.8319	0.0121	4763.67	4764.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	139.6	292.7	500.0	<5	N		
	Cloudy	11:06	C183C	2.8115	2.8234	0.0119	4764.67	4765.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	137.3	292.7	500.0	<5	N		
28-Apr-16	Fine	09:00	C185A	2.8341	2.8470	0.0129	4789.67	4790.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	148.9	292.7	500.0	<5	N		
	Fine	10:03	C185B	2.8317	2.8454	0.0137	4790.67	4791.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	158.1	292.7	500.0	<5	N		
	Fine	11:06	C185C	2.8228	2.8361	0.0133	4791.67	4792.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	153.5	292.7	500.0	<5	N		
																Average	168.5						
																Min	121.6						

 Min
 131.6

 Max
 279.3

Note: No major dust source observed during the monitoring period Data in **Bold** denotes exceedance of respective Action Level Data in <u>Bold Underline</u> denotes 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	 Identify source; Inform IEC and ER; 	1. Check monitoring data submitted by ET;	1. Notify Contractor.	1. Rectify any unacceptable practice;
sampling day	3. Repeat measurement to confirm finding;	 Check Contractor's working method. 		 Amend working methods if appropriate.
	4. 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	3. Repeat measurements to confirm	2. Check Contractor's working	2. Notify Contractor;	days of notification;
	findings;	method;	3. Ensure remedial measures	2. Implement the agreed proposals;
	 Increase monitoring frequency t daily; 	3. Discuss with ET and Contractor on possible remedial measures;	properly implemented.	3. Amend proposal if appropriate.
	5. Discuss with IEC and Contractor on remedial actions required;	 Advise the ER on the effectiveness of the proposed remedial measures; 		
	6. If exceedance continues, arrange meeting with IEC and ER;	5. Supervise Implementation of remedial measures.		
	7. 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; 	 Check monitoring data submitted by ET; Check Contractor's working 	 Confirm receipt of notification of exceedance in writing; Notify Contractor; 	 Take immediate action to avoid further exceedance; Submit proposals for remedial 									
	 Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. 	 a. Discuss with ET and Contractor on possible remedial measures; a. Advise ER on the effectiveness of the proposed remedial measures; b. Supervise implementation of remedial measures. 	 Interformation, Ensure remedial measures properly implemented. 	 actions to IEC within 3 working days of notification; Implement the agreed proposals; 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. 	 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 									



Event and Action Plan for Noise Quality

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.			
	 Barry out investigation. Report the results of investigation to IEC and the Contractor. Discuss with the Contractor and formulate remedial measures. Increase monitoring frequency to 	 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 	2. Implement noise mitigation proposals.			
Limit Level	check mitigation effectiveness.	1 Discuss amongst ED, ET Londor	properly implemented.	1. Take immediate action to avoid			
	1. Notify IEC, ER, EPD and the Contractor.	1. Discuss amongst ER, ET Leader and the Contractor on the potential remedial actions.	failure in writing.	further exceedance.			
	2. Identify the source.		2. Notify the Contractor.	2. Submit proposals for remedial			
	3. Repeat measurement to confirm findings.	2. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and	3. Require the Contractor t propose remedial measures for	actions to IEC within 3 working days of notification.			
	4. Increase monitoring frequency.	advise ER accordingly.	the analysed noise problem.	3. Implement the agreed proposals.			
	5. Carry out analysis of Contractor's working procedures to determine		4. Ensure remedial measures are properly implemented.	4. Resubmit proposals if problem still not under control.			
	possible mitigation to be implemented.	Temediai measures.	5. If exceedance continues, consider what activity of the	5. Stop the relevant activity of works as determined by the ER until the			
	 Inform IEC, ER, and EPD the causes & actions taken for the exceedances. 		work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated.	exceedance is abated.			
	 Assess effectiveness of the Contractor's remedial actions and keep IEC, EPD and ER informed of the results. 		abaleo.				
	8. If exceedance stops, cease additional monitoring.						



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	 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;									
	 Inform IEC, Contractor, ER & EPD; 	3. Review the proposed mitigation	3. Assess the effectiveness of the implemented mitigation	consider changes of working									
	 Check monitoring data, all plant, equipment & Contractor's working 		measures.	4. Submit proposal of mitigation									
	methods;	4. Supervise the implementation of		measures to ER within 3 working days of notification & discuss with									
	 Discuss mitigation measures with IEC, ER & Contractor; 	mitigation measures.		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. 	notification of the non-compliance in writing;
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

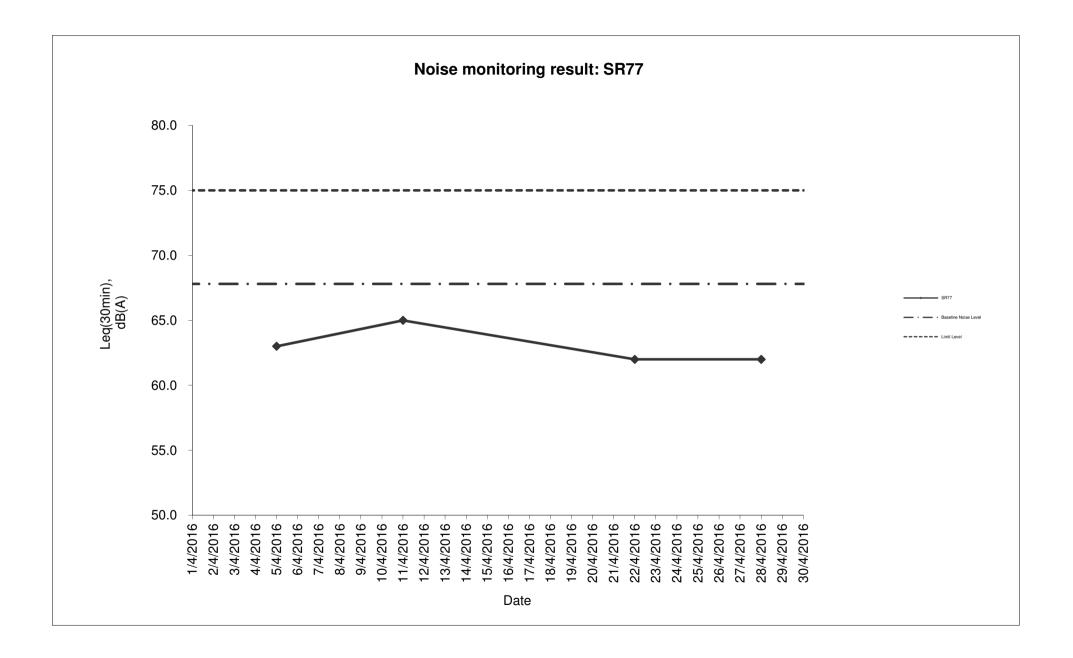
Noise Monitoring Result at SR77

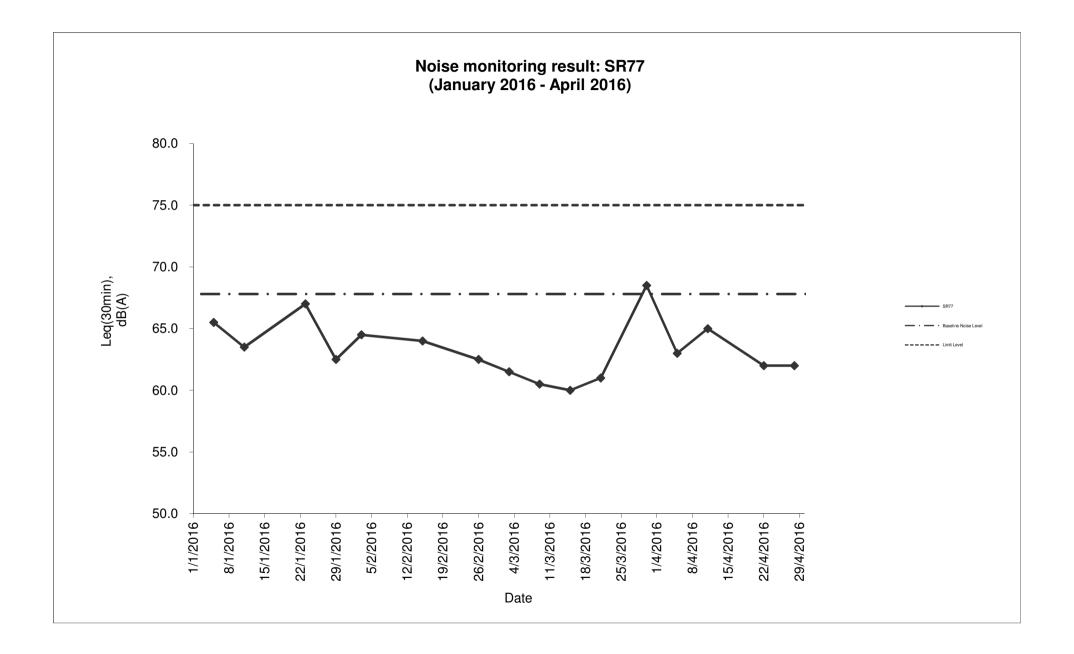
Date	Weather	Start	End	Measured Noise Level (dB(A))*		Baseline Corrected	Baseline Noise Level	Limit Level	Exceedance	
	Condition	Time	Time	L10(30min)	L90(30min)	Leq(30min)	Level, dB(A)**	(dB(A)), Leq(30min)	dB(A)	(Y / N)
2016/04/05	Sunny	13:30	14:00	85.0	60.0	63.0	-	67.8	75.0	N
2016/04/11	Cloudy	13:30	14:00	88.5	54.0	65.0	-	67.8	75.0	N
2016/04/22	Cloudy	14:00	14:30	67.0	60.0	62.0	-	67.8	75.0	N
2016/04/28	Fine	13:30	14:00	88.0	60.0	62.0	-	67.8	75.0	N
					Average	63.0				
					Minimum	62.0				
					Maximum	65.0				

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 M	Ionthly
		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 m ³)	(in '000m ³)									
Jan-16	2.683	0.253	2.430	0.030	-	2.400	0.799	0.001	-	-	-	0.115
Feb-16	1.876	0.651	1.225	0.020	-	1.205	1.141	-	-	-	-	0.110
Mar-16	1.501	0.417	1.084	-	-	1.084	0.831	-	-	0.001	-	0.090
Apr-16	0.472	0.046	0.426	0.018	-	0.408	0.647	-	-	-	-	0.135
May-16	-				-							
Jun-16	-				-							
Sub-Total	6.532	1.367	5.165	0.068	-	5.097	3.418	0.001	-	0.001	-	0.450
Jul-16	-				-							
Aug-16	-				-							
Sep-16	-				-							
Oct-16	-				-							
Nov-16	-				-							
Dec-16	-											
Total	6.532	1.367	5.165	0.068	-	5.097	3.418	0.001	-	0.001	-	0.450

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 5m3.

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	\checkmark
	• All stockpiles of excavated materials or spoil of more than 50m ³ shall be enclosed, covered or dampened during dry or windy conditions.			\checkmark
	• Effective water sprays shall be used to control potential dust emission sources such as unpaved haul roads and active construction areas.			\checkmark
	 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.		Rem	
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.			\checkmark
	• 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			
	 Transport of wastes off site as soon as possible. 	During Construction	Contractor	✓
	Maintenance of accurate waste records.			~
	• Minimisation of waste generation for disposal (via reduction/recycling/re-use).			\checkmark
	 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) 			\checkmark
	• For material which cannot be re-used/recycled, collection should be carried out by an approved waste contractor for landfill disposal.			\checkmark
	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	\checkmark
	• 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 ([#]): ✓ – 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.			✓
	 Use appropriate and labelled containers. 			✓
	 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.			\checkmark
	• The chemical wastes shall be collected by a licensed chemical waste collector.			\checkmark
	Municipal Wastes			
	• Waste shall be stored within a temporary refuse collection facility, in appropriate containers prior to collection and disposal.	During Construction	Contractor	\checkmark
	 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			\checkmark
	• 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			N/A
	• 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	Dress wation of Evicting Magazation		Г	Г
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

- 2 -



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.	



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