

31 January 2020

Our Ref. : YL/2015/01/M45/150/04741A  
Your Ref. :

**By Hand**

The Director  
Environmental Protection Department  
Environmental Impact Assessment Ordinance Register Office  
27/F of Southorn Centre  
130 Hennessy Road  
Wan Chai

Dear Sir,

**Contract No. YL/2015/01**  
**Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works**  
**Submission of Monthly Environmental Monitoring and Audit (EM&A) Report (December 2019)**

Pursuant to Clause no. 3.5 of the Environmental Permits Nos. EP-450/2013/A for “*Construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River (Stage 1)*” and EP-501/2015 for “*Construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River (Stage 2)*”, we are pleased to submit herewith the Monthly EM&A Report (December 2019) with 3 hard copies and 1 electronic copy for the captioned project from 1 December 2019 to 31 December 2019 for your perusal and retention.

Please note that the above Monthly EM&A Report has certified by the ET Leader (CINOTECH) and verified by the IEC (ANewR) as having complied with the requirements of the EM&A Manual before the submission.

Should you require any further information, please contact the undersigned at 9374 0619.

Yours faithfully,  
For and on behalf of Mannings (Asia) Consultants Limited



Mole TAM  
Senior Resident Engineer

MT/nk

Encl.

cc CEDD SE/10 (WDO/2) – Mr. CHU Wai Lun, Thomas w/e  
MACL Messrs. Mark CHEUNG, Simon NG and William SO w/e

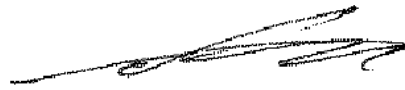
# Civil Engineering and Development Department

**Agreement No. CE 67/2015 (HY)  
Cycle Tracks from Tuen Mun  
to Sheung Shui – Remaining Works  
Design and Construction**

**Monthly EM&A Report  
(Version 1.0)**

**December 2019**

Approved By



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Mr. KS Lee  
Environmental Team Leader

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

CINOTECH accepts no responsibility for changes made to this report by third parties.

**CINOTECH CONSULTANTS LTD**  
Room 1710, Technology Park,  
18 On Lai Street,  
Shatin, NT, Hong Kong  
Tel: (852) 2151 2083 Fax: (852) 3107 1388  
Email: [info@cinotech.com.hk](mailto:info@cinotech.com.hk)

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## EXECUTIVE SUMMARY

### Introduction

1. This is the 38<sup>th</sup> Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the “Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction” (hereinafter called “the Project”). This report documents the findings of EM&A Works conducted in December 2019.
2. During the reporting month, the major site activities undertaken in the reporting month included:
  - Portion A - General Cleaning
  - Portion B - Internal Finishing & E&M Works, Construction of Resting Station R6, Colour Dressing, Installation of Bicycle Parapet, Installation of Traffic Aids
  - Portion C - Installation of Traffic Aids
  - Portion D - Construction of Drainage Pipe, Planter Wall PWD1, Laying Road Kerb and Paving Block, Laying Bituminous for Cycle Track
  - Portion E - Laying Road Kerb, Paving Block, Colour Dressing for Cycle Track
  - Portion F - Construction of Drainage Pipe, Construction of Boundary Wall & RW44
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  - Portion H - Construction of DW1 & DW2, Construction of Drainage Pipe, Laying Road Kerb
  - Portion I - Construction of U-channel in Subway D, Internal Finishing, Installation of Structural frame of Roofing
  - Portion J - Backfilling for RW 46, 24A, 24AA, 24C, 48, Construction of Drainage Pipe, Laying of Road Kerb
  - Portion K - Installation of Traffic Aids
  - Portion M - Backfilling behind RW 30A, 30B, Construction of Road Kerb, Laying Bituminous for Cycle Track
  - Portion N - Construction of Bridge B

### Environmental Monitoring Works

3. Environmental monitoring for the Project shall be performed in accordance with the EM&A Manual and the monitoring results were checked and reviewed. Site Inspections/Audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.

4. Summary of the non-compliance in the reporting month for the Project is tabulated in **Table I**.

**Table I Non-compliance Record for the Project in the Reporting Month**

Parameter	No. of Exceedance		Action Taken
	Action Level	Limit Level	
Noise	0	0	N/A

**Key Information in the Reporting Month**

5. Summary of key information in the reporting month is tabulated in **Table II**.

**Table II Summary Table for Key Information in the Reporting Month**

Event	Event Details			Action Taken	Relation to project	Status	Remark
	Number	Received Date	Nature				
Complaint received	1	5th December 2019	The complaint is filed against several stockpiles of dusty materials were not covered in the construction site ( Yau Mei San Tsuen, Portion D) on 19 November 2019, 1300hr. No dust suppression measures were observed on site. Moreover, earth moving by grabber on lorry also generated large amount of dust.	<ul style="list-style-type: none"> <li>- Increased the frequency of water spraying on the exposed earth to minimize the dust generation</li> <li>- Removed the stockpiles on site</li> <li>- Installed sprinklers to keep the site clearance wet</li> </ul>	Project related	CIR was submitted in December	---
Reporting Changes	0	---	---	N/A	N/A	N/A	---
Notifications of any summons & prosecutions received	0	---	---	N/A	N/A	N/A	---

\*One complaint was received in this reporting month.

**Environmental License and Permits**

6. Licenses/Permits granted to the Project include:
- Environmental Permits (EP) for the Project,
    - EP-450/2013 issued on 30 May 2013 and EP-450/2013/A issued on 25 August 2015; and
    - EP-501/2015 issued on 2 September 2015
  - Billing Account for Waste Disposal (Acc No.: 7025411)
  - Discharge License
    - WT00028748-2017, WT00027672-2017, WT00027661-2017, WT00027606-2017, WT00027510-2017, WT00027509-2017, WT00027603-2017, WT00027605-2017, WT00027508-2017, WT00027834-2017, WT00028431-2017, WT00027607-2017, WT00028850-2017, WT00030236-2018, WT00034612-2019
  - Chemical Waste Producers
    - No.: WPN5213-524-K3261-01

**Future Key Issues**

7. The future key environmental issues in the coming months include:
- Wastewater and runoff generation on-site;
  - Regular removal of silt, mud and sand along u-channels and inside sedimentation tanks;
  - Review and implementation of temporary drainage system for the surface runoff;
  - Noise from operation of the equipment, especially for excavation works and machinery on-site;
  - Dust generation from stockpiles of dusty materials, exposed site area, excavation works and other dust-generating activities;
  - Water spraying for dust generating activities and on haul road;
  - Proper storage of construction materials on-site;
  - Storage of chemicals/fuel and chemical waste/waste oil on-site;
  - Accumulation of general refuse and construction waste on-site; and
  - Protection measures for retained trees on-site.

## 1 INTRODUCTION

### Background

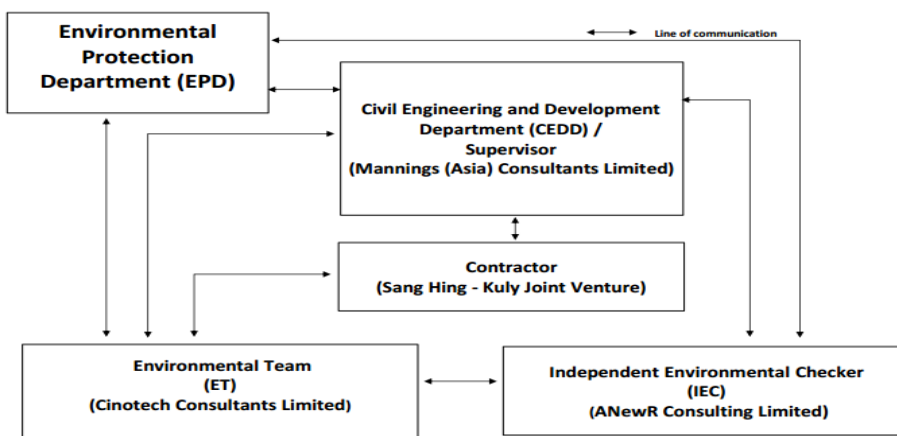
- 1.1 “Construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River” (the EIA Report) is a Schedule 2 Designated Project (DP) under Environmental Impact Assessment Ordinance (EIAO). The Environmental Impact Assessment (EIA) Report (Registered No.: AEIAR-133/2009) and the associated Environmental Monitoring and Audit (EM&A) Manual was approved on 12 March 2009.
- 1.2 Civil Engineering and Development Department (CEDD) implemented the DP in two stages, i.e. Stage 1 and Stage 2. An Environmental Permit (EP) No. EP-450/2013 has been granted for Stage 1 works on 30 May 2013. Pursuant to Section 13 of the EIAO, the Director of Environmental Protection amends the Environmental Permit (No. EP-450/2013) based on the Application No. VEP-478/2015 and the EP (Permit No. EP-450/2013/A) was issued on 25 August 2015 to CEDD as the Permit Holder.
- 1.3 An Environmental Review (ER) Report of the “Construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River – Stage 2” had been prepared in July 2015 and the Environmental Monitoring and Audit Manual (EM&A Manual) was also included as part of the ER report in the application (Application No.: AEP-501-2015). An Environmental Permit No. EP-501/2015 was issued on 2 September 2015 for Stage 2 works to CEDD as the Permit Holder.
- 1.4 “Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction” (hereinafter called the “Project”) covers the Stage 1 (Part) and Stage 2 works of the DP. This Project was commissioned to Sang Hing – Kuly Joint Venture (hereinafter called the “Contractor”) for “Contract No.: YL/2015/01 Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works”. The site location and work programme are shown in **Figure 1a-1h** and **Appendix A** respectively.
- 1.5 Cinotech Consultants Ltd. was designated as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) works for the Project. The construction commencement of the Project was on 23<sup>rd</sup> November 2016. This is the 38<sup>th</sup> Monthly EM&A Report summarizing the EM&A works for the Project during December 2019.

### Project Organizations

- 1.6 Different parties with different levels of involvement in the project organization include:
  - Project Proponent – Civil Engineering and Development Department (CEDD)
  - Supervisor Representative – Mannings (Asia) Consultants Limited (Mannings)
  - Environmental Team (ET) – Cinotech Consultants Limited (Cinotech)
  - Independent Environmental Checker (IEC) – ANewR Consulting Limited (ANewR)
  - Contractor – Sang Hing – Kuly Joint Venture (SKJV)



1.7 The Organizational Structure for Environmental Management is shown in **Figure 3**.



**Figure 3 Organization Structure (Environmental Aspects)**

1.8 The key contacts of the Project are shown in **Table 1.1**.

**Table 1.1 Key Project Contacts**

Party	Role	Contact Person	Phone No.	Fax No.
CEDD	Project Proponent	Mr. Chu Wai Lun, Thomas	2417 6370	2412 0358
Mannings	Supervisor Representative	Mr. Simon Ng	3168 2028	3168 2022
Cinotech	Environmental Team	Mr. KS Lee	2151 2091	3107 1388
		Ms. Betty Choi	2151 2072	
ANewR	Independent Environmental Checker	Mr. Adi Lee	2618 2836	3007 8648
SKJV	Contractor	Mr. Ma Kin Man	9552 1734	2890 8205

### Construction Activities undertaken during the Reporting Month

1.9 The major site activities undertaken in the reporting month included:

- Portion A - General Cleaning
- Portion B - Internal Finishing & E&M Works, Construction of Resting Station R6, Colour Dressing, Installation of Bicycle Parapet, Installation of Traffic Aids
- Portion C - Installation of Traffic Aids
- Portion D - Construction of Drainage Pipe, Planter Wall PWD1, Laying Road Kerb and Paving Block, Laying Bituminous for Cycle Track
- Portion E - Laying Road Kerb, Paving Block, Colour Dressing for Cycle Track

Portion F	- Construction of Drainage Pipe, Construction of Boundary Wall & RW44
Portion G	- Laying Bituminous for Cycle Track
Portion H	- Construction of DW1 & DW2, Construction of Drainage Pipe, Laying Road Kerb
Portion I	- Construction of U-channel in Subway D, Internal Finishing, Installation of Structural frame of Roofing
Portion J	- Backfilling for RW 46, 24A, 24AA, 24C, 48, Construction of Drainage Pipe, Laying of Road Kerb
Portion K	- Installation of Traffic Aids
Portion M	- Backfilling behind RW 30A, 30B, Construction of Road Kerb, Laying Bituminous for Cycle Track
Portion N	- Construction of Bridge B

1.10 Inter-relationship with environmental protection/mitigation measures are presented in **Table 1.2**.

**Table 1.2 Construction Programme Showing the Inter-Relationship with Environmental Protection/Mitigation Measures**

Construction Works	Major Environmental Impact	Control Measures
As mentioned in Section 1.9	Noise, dust impact, water quality and waste generation	<ul style="list-style-type: none"> <li>• Sufficient watering of the works site with active dust emitting activities</li> <li>• Properly cover the stockpiles</li> <li>• On-site waste sorting and implementation of trip ticket system</li> <li>• Appropriate desilting/sedimentation devices provided on site for treatment with valid Discharge License before discharge</li> <li>• Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall</li> <li>• Use of quiet plant and well-maintained construction plant</li> <li>• Provide movable noise barrier</li> <li>• Proper wheel washing for construction vehicles before leaving the site</li> <li>• Provide sufficient mitigation measures as recommended in Approved EM&amp;A Manual/Lease requirement</li> </ul>

### **Summary of EM&A Requirements**

- 1.11 The EM&A programme requires construction noise monitoring, air quality monitoring, landscape and visual monitoring and environmental site audit. The EM&A requirements for each parameter are described in the following sections, including:
- All monitoring parameters;
  - Action and Limit levels for all environmental parameters;
  - Event and Action Plans;
  - Environmental mitigation measures, as recommended in the EIA Reports, Environmental Review Reports and EM&A Manuals
- 1.12 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 8 of this report.
- 1.13 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the required noise monitoring and audit works for the Project in December 2019.

## **2 AIR QUALITY**

### **Monitoring Requirements**

- 2.1 According to the approved EM&A Manuals for Stage 1 works and Stage 2 works in Year 2015, no air quality monitoring is required for the Project.
- 2.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of air quality mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix G**.

## **3 WATER QUALITY**

### **Monitoring Requirements**

- 3.1 According to the approved EM&A Manuals for Stage 1 works and Stage 2 works in Year 2015, no water quality monitoring is required for the Project.
- 3.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of water quality mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix G**.

## 4 NOISE

### Monitoring Requirements

- 4.1 In accordance with approved EM&A Manuals for Stage 1 works in Year 2015, no noise impact monitoring is required for Stage 1 works of the Project.
- 4.2 According to approved EM&A Manual for Stage 2 works (Year 2015), construction noise monitoring was conducted to monitor the construction noise arising from the construction activities under the Stage 2 works of the Project. The regular monitoring frequency for each monitoring station shall be on a weekly basis and conduct one set of measurements between 0700 and 1900 hours on normal weekdays. Appendix B shows the established Action and Limit Levels for the environmental monitoring works.

### Monitoring Locations

- 4.3 Noise monitoring was conducted at 6 designated monitoring stations (N1, N2, N3, N5, N6 and N7) in the reporting month. **Figures 2a – 2c** show the locations of these stations.

**Table 4.1 Noise Monitoring Stations**

Monitoring Stations	Locations	Location of Measurement
N1	HKMLC Wong Chan Sook Ying Memorial School	Rooftop (about 5/F) area
N2	Bethel High School	Rooftop (about 4/F) area
N3	No. 159 Mai Po San Tsuen	G/F area
N5	Block 2, Dills Corner Garden	G/F area
N6	Home of Loving Faithfulness	Rooftop (about 3/F) area
N7	Village House in Shek Wu Wai	G/F area

### Monitoring Equipment

- 4.4 Integrating Sound Level Meter was used for impact noise monitoring. The meters are Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level ( $L_{eq}$ ) and percentile sound pressure level ( $L_x$ ) that also complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications.
- 4.5 Acoustic Calibrator was used to check the accuracy of the sound level meter. The calibrators generate a continuous and highly stable sound pressure level at known frequency of 1 kHz that also complied with IEC 942: 1988 Class 1 specifications. **Table 4.2** summarizes the noise monitoring equipment in reporting period. Copies of calibration certificates are provided in **Appendix C**.

**Table 4.2 Noise Monitoring Equipment**

Equipment	Model No.	Qty.
Integrating Sound Level Meter/ Sound & Vibration Analyser	SVAN979/SVAN949	2
Acoustic Calibrator	SV30A	1

## Monitoring Parameters and Frequency

- 4.6 **Table 4.3** summarizes the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule is shown in **Appendix D**.

**Table 4.3 Frequency and Parameters of Noise Monitoring**

Monitoring Stations	Parameter	Period	Frequency	Measurement
N1	L <sub>eq</sub> (30 min.) dB(A) L <sub>10</sub> (30 min.) dB(A) L <sub>90</sub> (30 min.) dB(A)	0700-1900 hrs on normal weekdays	Once per week	Façade
N2				Façade
N3				Free Field
N5				Free Field
N6				Façade
N7				Free Field

## Monitoring Methodology and QA/QC Procedures

- 4.7 The monitoring procedures are as follows:

- The monitoring station were normally be at a point 1m from the exterior of the sensitive receivers building façade and be at a position 1.2m above the ground.
- For free field measurement, the meter was positioned away from any nearby reflective surfaces. All records for free field noise levels were adjusted with a correction of +3 dB (A).
- The battery condition was checked to ensure the correct 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
  - Measurement time : 30 minutes
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement is more than 1.0 dB, the measurement was considered invalid and repeat of noise measurement was required after re-calibration or repair of the equipment.
- At the end of the monitoring period, the L<sub>eq</sub>, L<sub>90</sub> and L<sub>10</sub> were recorded. In addition, noise sources were recorded on a standard record sheet.
- Noise measurement would be paused temporarily during periods of high intrusive noise if possible and observation would be recorded when intrusive noise was not avoided.
- Noise monitoring would be cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s. supplementary monitoring would be provided to ensure sufficient data would be obtained.

## Maintenance and Calibration

- 4.8 The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.

- 4.9 The sound level meter and calibrator were checked and calibrated at yearly intervals.
- 4.10 Immediately prior to and following each noise measurement, the accuracy of the sound level meter was checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.

### Results and Observations

- 4.11 All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. The summary of exceedance record in the reporting month is shown in **Appendix F**.
- 4.12 The baseline noise level and the Noise Limit Level at each designated noise monitoring stations are presented in **Table 4.5**.
- 4.13 Noise monitoring results and graphical presentations are shown in **Appendix E**.
- 4.14 The other noise sources identified which might affect the noise monitoring results at the designated noise monitoring stations are as follows:

**Table 4.4 Other Noise Sources Identified Which Might Affect the Noise Monitoring Results**

Monitoring Stations	Locations	Other Noise Source(s)
N1	HKMLC Wong Chan Sook Ying Memorial School	Road traffic noise Noise from daily school activities
N2	Bethel High School	Road traffic noise Noise from daily school activities
N3	No. 159 Mai Po San Tsuen	Road traffic noise
N5	Block 2, Dills Corner Garden	Road traffic noise
N6	Home of Loving Faithfulness	Road traffic noise Noise from activities at the premise and workshops near the premise
N7	Village House in Shek Wu Wai	Road traffic noise Noise from activities at workshops near the village house

**Table 4.5 Baseline Noise Level and Noise Limit Level for Monitoring Stations**

<b>Station</b>	<b>Baseline Noise Level, dB (A)</b>	<b>Noise Limit Level, dB (A)</b>
N1	62.2 (at 0700 – 1900 hrs on normal weekdays)	70* (at 0700 – 1900 hrs on normal weekdays)
N2	55.2 (at 0700 – 1900 hrs on normal weekdays)	
N3	68.8 (at 0700 – 1900 hrs on normal weekdays)	75 (at 0700 – 1900 hrs on normal weekdays)
N5	70.7 (at 0700 – 1900 hrs on normal weekdays)	75 (at 0700 – 1900 hrs on normal weekdays)
N6	72.0 (at 0700 – 1900 hrs on normal weekdays)	75 (at 0700 – 1900 hrs on normal weekdays)
N7	70.7 (at 0700 – 1900 hrs on normal weekdays)	75 (at 0700 – 1900 hrs on normal weekdays)

(\*) Noise Limit Level is 65 dB (A) during school examination periods.



**5 COMPARISON OF EM&A RESULTS WITH EIA PREDICTIONS**

- 5.1 The EM&A data was compared with the predictions in EIA Report (Year 2009) and Environmental Review Report (ERR) for Stage 2 Works (Year 2015) as summarized in **Table 5.1**.

**Table 5.1 Comparison of Noise Monitoring Data with Predictions in EIA Report and ERR**

<b>Stations</b>	<b>Predicted Mitigated Construction Noise Levels in EIA (2009), dB(A)</b>	<b>Predicted Mitigated Worst Case Construction Noise Levels in ERR for Stage 2 (2015), dB(A)</b>	<b>Reporting Month (December 19), Leq (30min) dB(A)</b>
N1 - HKMLC Wong Chan Sook Ying Memorial School	55-62	62 <sup>(1)</sup>	52.7 - 57.5
N2 – Bethel High School	57-64	64 <sup>(1)</sup>	53.9 - 61.5
N3 – No. 159 Mai Po San Tsuen	70-73	74 <sup>(2)</sup>	67.0 - 70.8
N5 – Block 2, Dills Corner Garden	73-75	75 <sup>(2)</sup>	66.1 - 69.6
N6 – Home of Loving Faithfulness	64-73	74 <sup>(1)</sup>	71.2 – 72.0
N7 – Village House in Shek Wu Wai	N/A <sup>(3)</sup>	70 <sup>(2)</sup>	54.4 - 65.7

Remark:

(1) With adoptions of quiet PMEs, temporary noise barrier and enclosure

(2) With sub-grouping of construction activities

(3) No construction noise level was predicted in EIA Report (2009)

- 5.2 When comparing the noise monitoring results to the predicted mitigated construction noise levels in the EIA Report, the results at N1, N2, N3 was slightly lower than the range of the predicted mitigated construction noise levels in the EIA Report. The results at N5 was lower than the range of the predicted mitigated construction noise levels, while the results at N6 was within the range of the predicted mitigated construction noise levels in the EIA Report.
- 5.3 When comparing the noise monitoring results to the predicted mitigated worst case construction noise levels in the ERR for Stage 2 Works, the results at monitoring stations N1, N2, N3, N5, N6 and N7 were lower than the predicted mitigated worst case construction noise levels in the ERR for Stage 2 Works.

## 6 ECOLOGY AND FISHERIES

- 6.1 In accordance with the EM&A Manuals for Stage 1 and Stage 2 works in Year 2015, no specific ecological or fisheries monitoring is required during the construction phase of the Project.
- 6.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of ecology and fisheries mitigation measure. The summaries of site audits are attached in **Appendix G**.

## 7 LANDSCAPE AND VISUAL IMPACT

- 7.1 In accordance with the EM&A Manuals for Stage 1 and Stage 2 works in Year 2015, regular audits should be carried out to ensure all the recommended landscape and visual mitigation measures in EIA Report, Environmental Review Reports and EM&A Manuals were effectively implemented.
- 7.2 ET Site audits were carried out on a weekly basis to monitor and audit the timely implementation of landscape and visual mitigation measure. The summaries of site audits are attached in **Appendix G**.

## 8 ENVIRONMENTAL AUDIT

### Site Audits

- 8.1 Site audit was carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix G**.
- 8.2 Site audits were conducted on 5, 12, 18 and 24 December 2019 in the reporting month. IEC joint site inspection was conducted on 12 December 2019. No non-compliance was observed during the site audit.

### Review of Environmental Monitoring Procedures

- 8.3 The monitoring works conducted by the monitoring were inspected regularly. The following observations have been recorded for the monitoring works:

#### *Noise Monitoring*

- The monitoring team recorded all observations around the monitoring stations, which might affect the monitoring result.
- Major noise sources were identified and recorded. Other intrusive noise attributing to the result was trimmed off by pausing the monitoring temporarily.

**Statues of Environmental Licensing and Permitting**8.4 All permits/licenses obtained for the Project are summarized in **Table 8.1**.**Table 8.1 Summary of Environmental Licensing and Permit Status**

Permit No.	Valid Period		Details	Status
	From	To		
<b>Environmental Permit (EP)</b>				
EP-450/2013/A	25/08/2015	N/A	Construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River – Stage 1	Valid
EP-501/2015	02/09/2015	N/A	Construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River – Stage 2	Valid
<b>Billing Account for Construction Waste Disposal</b>				
A/C No.: 7025411	N/A	N/A	Billing Account for construction waste disposal under Waste Disposal (Charges for Disposal of Construction Waste) Regulation	Valid
<b>Effluent Discharge License</b>				
WT00027672-2017	28/3/2017	31/3/2022	Discharge License for the discharge of wastewater from the construction site including contaminated surface run-off to the communal storm water drain	Valid
WT00027661-2017	28/3/2017	31/3/2022		
WT00027606-2017	27/3/2017	31/3/2022		
WT00027510-2017	27/3/2017	31/3/2022		
WT00027509-2017	20/3/2017	31/3/2022		
WT00027603-2017	27/3/2017	31/3/2022		
WT00027508-2017	20/3/2017	31/3/2022		
WT00027605-2017	27/3/2017	31/3/2022		
WT00027607-2017	27/3/2017	31/3/2022		
WT00027834-2017	13/4/2017	30/4/2022		
WT00028431-2017	22/6/2017	30/6/2020		
WT00028748-2017	17/08/2017	31/08/2022		
WT00028850-2017	14/08/2017	31/08/2022		
WT00030236-2018	7/02/2018	28/02/2022		
WT00034612-2019	28/11/2019	31/7/2024		
<b>Registration of Chemical Waste Producer</b>				
No.:WPN5213-524-K3261-01	--	N/A	Registration of chemical waste producer for chemical waste produced during construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River – Stage 2	Valid

**Status of Waste Management**

- 8.5 The amount of wastes generated by the major site activities of this Project during the reporting month is shown in **Appendix K**.
- 8.6 In respect of the dump truck cover, the Contractor is advised to take record photos and inspection to ensure that all dump trucks have fully covered the skip before leaving the site.

**Implementation Status of Environmental Mitigation Measures**

- 8.7 According to the Environmental Review Reports, Environmental Permits and the EM&A Manuals of the Project, the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An updated summary of the Environmental Mitigation Implementation Schedule (EMIS) is provided in **Appendix I**.
- 8.8 During site inspections in the reporting month, no non-conformance was identified. The ET weekly site inspections were carried out during the reporting month and the observations and recommendations are summarized in **Table 8.2**. Refer to **Appendix G** for the site inspection checklists in the reporting month.

**Table 8.2 Observations and Recommendations of Site Audit**

Parameters	Date	Observations and Recommendations	Follow-up
<i>Water Quality</i>	N/A	There was no observation in the reporting period.	N/A
<i>Air Quality</i>	23 Oct – 18 Dec 2019	Stockpile of dusty materials should be covered or kept wet at Portion D.	The condition was observed to be improved/rectified by the contractor during the audit session on 24 Dec 2019.
	30 Oct – 27 Nov 2019	The excavated of dusty materials or stockpile of dusty materials should be covered tarpaulin at Portion I.	The condition was observed to be improved/rectified by the contractor during the audit session on 5 Dec 2019.
	6 Nov – 5 Dec 2019	Stockpile of dusty materials should be covered by impervious materials to prevent dust generation at Portion I.	The condition was observed to be improved/rectified by the contractor during the audit session on 12 Dec 2019.
	14 -27 Nov 2019	Dusty area should be sprayed with water at Bridge B.	The condition was observed to be improved/rectified by the contractor during the audit session on 5 Dec 2019.
	20 -27 Nov 2019	Stockpile of dusty materials should be covered at Subway A.	Follow up actions will be reported in the next month.
	5 – 18 Dec 2019	The public road around the sire entrance should be kept cleaned; the wheels of site vehicles should be washed before leaving the site area at Portion J.	The condition was observed to be improved/rectified by the contractor during the audit session on 24 Dec 2019.
	12 Dec 2019	There should be sandbags around the dusty activities to prevent dust depression outside the site boundary at Subway D.	Follow up actions will be reported in the next month.

Parameters	Date	Observations and Recommendations	Follow-up
	18 Dec 2019	The public road should be watered or placed sandbags around the site boundary to prevent dust generation at Portion B.	The condition was observed to be improved/rectified by the contractor during the audit session on 24 Dec 2019.
	24 Dec 2019	Stockpile of dusty materials and exposed earth should be covered or kept wet at Portion D.	Follow up actions will be reported in the next month.
<i>Noise</i>	N/A	There was no observation in the reporting period.	N/A
<i>Waste/ Chemical Management</i>	5 -18 Dec 2019	Accumulation of construction waste should be avoided at Portion J.	The condition was observed to be improved/rectified by the contractor during the audit session on 24 Dec 2019.
	18 Dec 2019	Accumulation of general refuse should be avoided at Portion B.	The condition was observed to be improved/rectified by the contractor during the audit session on 24 Dec 2019.
	18 Dec 2019	Construction waste should be reused or removed at Bridge B.	The condition was observed to be improved/rectified by the contractor during the audit session on 24 Dec 2019.
	18 Dec 2019	Rubbish should be disposed properly at Bridge B.	Follow up actions will be reported in the next month.
	24 Dec 2019	Drip tray should be provided to contain chemicals at Subway A.	Follow up actions will be reported in the next month.
<i>Ecology and Fisheries</i>	N/A	There was no observation in the reporting period.	N/A
<i>Landscape and Visual</i>	N/A	There was no observation in the reporting period.	N/A
<i>Permits/ Licenses</i>	N/A	There was no observation in the reporting period.	N/A

### Implementation Status of Event and Action Plans

8.9 The Event and Action Plan for noise is presented in **Appendix H**.

#### Construction Noise

8.10 No Action/Limit Level exceedance was recorded in the reporting month.

### Record of Complaint, Warning, Notification of any Summons and Successful Prosecution

8.11 The record of all environmental complaints, warnings, summons and notifications of successful prosecution for the Project is presented in **Appendix J**.

## **9 FUTURE KEY ISSUES**

9.1 Major site activities undertaken for the coming months include:

### **Portion A**

1. General Cleaning

### **Portion B**

1. Internal Finishing & E&M Works for Subway A
2. Installation of Steel Roof,
3. Construction of Resting Station R6
4. Construction of Cycle Track
5. Construction of Drainage

### **Portion C**

1. Planting,
2. Installation of water point

### **Portion D**

1. Construction of Planter Wall PWD1
2. Backfilling for Retaining Wall 15D, 15E, 16A & PWD1
3. Construction of Drainage Pipe / Channel
4. Construction of Road Kerb
5. Laying Bituminous Pavement for Cycle Track
6. Installation of Bicycle Parapet

### **Portion E**

1. Construction of Retaining RW D3, D5 & Access Ramp
2. Realignment of San Tam Road and Mai Po Lung Road
3. Construction of Road Kerb
4. Laying Bituminous for Cycle Track
5. Installation of Bicycle Parapet and Railing
6. Construction of Footpath
7. Construction of Drainage Pipe / Channel
8. CCTV for Drainage Pipe

### **Portion F**

1. Construction of Boundary Wall and Retaining Wall RW 44
2. Backfilling for Retaining Wall
3. Construction of Road Kerb
4. Laying Bituminous for Cycle Track
5. Installation of Bicycle Parapet and Railing
6. Construction of Footpath
7. Construction of Drainage Pipe / Channel
8. Installation of Traffic Aids
9. CCTV for Drainage Pipe

### **Portion G**

1. Installation of Traffic Aids
2. Colour Dressing for Cycle Track

### **Portion H**

1. Construction of Retaining Wall RW DW1 & DW2
2. Backfilling for Retaining Wall
3. Construction of Road Kerb
4. Laying Bituminous for Cycle Track
5. Installation of Bicycle Parapet and Railing
6. Construction of Drainage Pipe / Channel
7. Construction of Cross Ducting for Traffic Signal
8. Realignment of Castle Peak Road

### **Portion I**

1. Internal Finishing & E&M Works for Subway D
2. Installation of Steel Roof,
3. Installation of Flooding Warning System
4. Reinstate the Existing Slope and Carriageway, Removal of Temporary Steel Bridge of TTA
5. Construction of Drainage / Channel

### **Portion J**

1. Construction of Retaining Wall RW48
2. Backfilling for Retaining Wall
3. Construction of Drainage / Channel
4. Construction of Road Kerb
5. Laying Bituminous Pavement for Cycle Track
6. Installation of Bicycle Parapet and Type II Railing

### **Portion K**

1. Installation of Traffic Aids

### **Portion M**

1. Installation of Lighting for Bridge E
2. Laying Bituminous Pavement for Cycle Track
3. Installation of Bicycle Parapet / Railing
4. Construction of Road Kerb
5. Construction of Drainage / Channel

### **Portion N**

1. Construction of Decking for Bridge B
2. Construction of Drainage / Channel
3. Construction of Retaining Wall

9.2 Key environmental issues in the coming months include:

- Wastewater and runoff generation on-site;
- Regular removal of silt, mud and sand along u-channels and inside sedimentation tanks;
- Review and implementation of temporary drainage system for the surface runoff;
- Noise from operation of the equipment, especially for excavation works and machinery on-site;
- Dust generation from stockpiles of dusty materials, exposed site area, excavation works and other dust-generating activities;
- Water spraying for dust generating activities and on haul road;
- Proper storage of construction materials on-site;
- Storage of chemicals/fuel and chemical waste/waste oil on-site;
- Accumulation of general refuse and construction waste on-site; and
- Protection measures for retained trees.



- 9.3 The tentative program of major site activities and the impact prediction and control measures for the coming months, i.e. January to February 2020, are summarized as follows:

<b>Construction Works</b>	<b>Major Impact Prediction</b>	<b>Control Measures</b>
As mentioned in Section 9.1	Air quality impact (dust)	(a) Frequent watering of haul road and unpaved/exposed areas; (b) Frequent watering or covering stockpiles with tarpaulin or similar means; and (c) Watering of any earth moving activities.
	Water quality impact (surface run-off)	(d) Diversion of the collected effluent to de-silting facilities for treatment in compliance with valid Discharge License prior to discharge to public storm water drains; (e) Provision of adequate de-silting facilities for treating surface run-off and other collected effluents prior to discharge; (f) Provision of perimeter protection such as sealing of hoarding footings to avoid run-off from entering the existing storm water drainage system via public road; and (g) Provision of measures to prevent discharge into the stream.
	Noise impact	(h) Scheduling of noisy construction activities if necessary to avoid persistent noisy operation; (i) Controlling the number of plants use on site; (j) Regular maintenance of machines (k) Use of quiet PME's on-site; and (l) Use of acoustic barriers and noise enclosure if necessary.
	Landscape and Visual	(m) Proper setup of precautionary area for retained trees.

### **Monitoring Schedule for the Next Month**

- 9.4 The tentative environmental monitoring schedules for the next month are shown in **Appendix D**.

## 10 CONCLUSIONS AND RECOMMENDATIONS

### Conclusions

- 10.1 Environmental monitoring works were performed in the reporting month and all monitoring results were checked and reviewed.

#### Construction Noise Monitoring

- 10.2 All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was record.

#### Site Audit

- 10.3 4 times of ET joint weekly environmental site inspections were conducted in the reporting month.

#### Complaint and Prosecution

- 10.4 One environmental complaint was received in this reporting month.
- 10.5 No environmental prosecution was received in the reporting month.

### Recommendations

- 10.6 According to the environmental audit performed in the reporting month, the following recommendations were made:

#### *Air Quality*

- Water spraying should be provided frequently to unpaved and exposed area, and haul roads for dust suppression.
- Proper tarpaulin coverage or water spraying should be implemented to all stockpiles in the Site to prevent dust generation.

#### *Water Quality*

- Nearby channels should be kept clean.
- Embankment or dikes should be established at the site boundary to direct any untreated wastewater from the Site to wastewater treatment facility during rain events to perform water treatment before discharge.
- Standing or ponding water within the Site should be cleared as far as practicable.

#### *Waste/Chemical Management*

- General refuse should be removed regularly to prevent accumulation on-site. Proper enclosed bin should be provided with maintenance for collection of general refuse from workforce.
- Drip tray should be provided to oil/chemical containers and generator to avoid oil leakage. Any oil stain observed on ground should be properly removed as chemical waste.

*Landscape and Visual*

- Adequate tree protection zones should be established to protect retained and existing trees. Conspicuous signs of status of trees should be clearly shown to avoid damage from PME's or workers.

*Permits/Licences*

- Environmental licences should be properly displayed at every entrance.

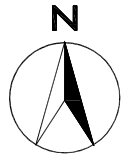
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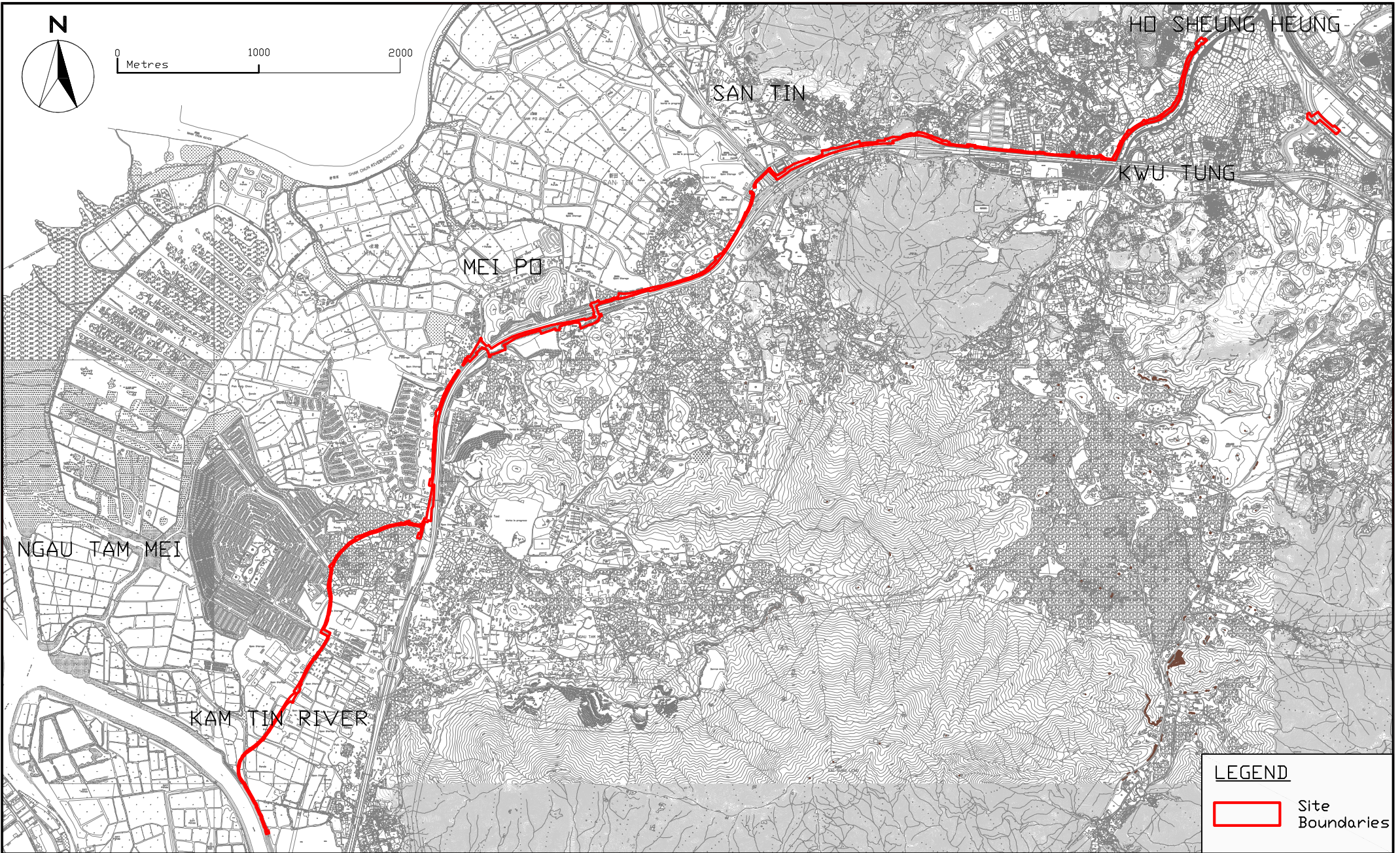
## FIGURES

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**LEGEND**

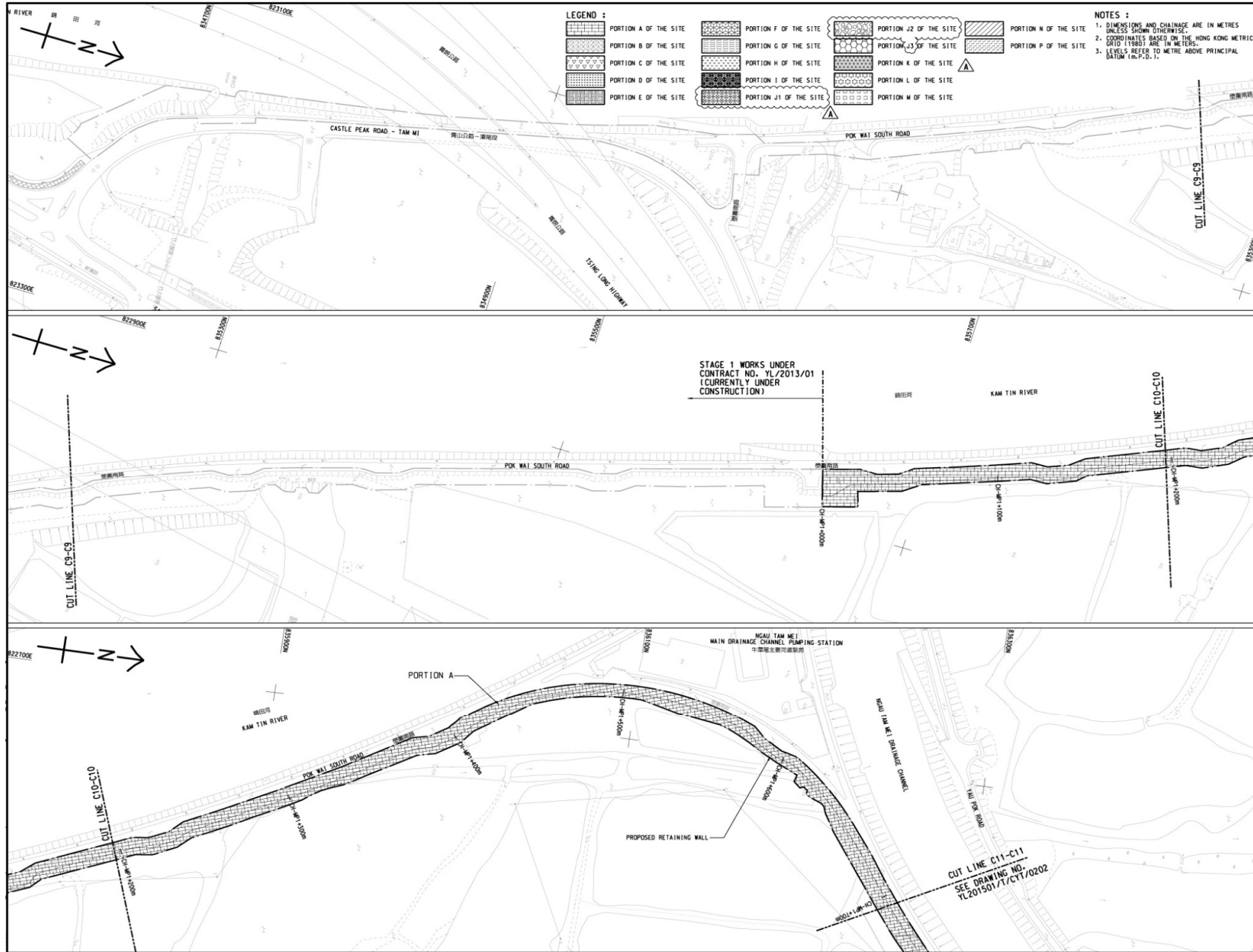
 Site Boundaries



Agreement No. CE 67/2015(HY) - Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction

**SITE LAYOUT PLAN**

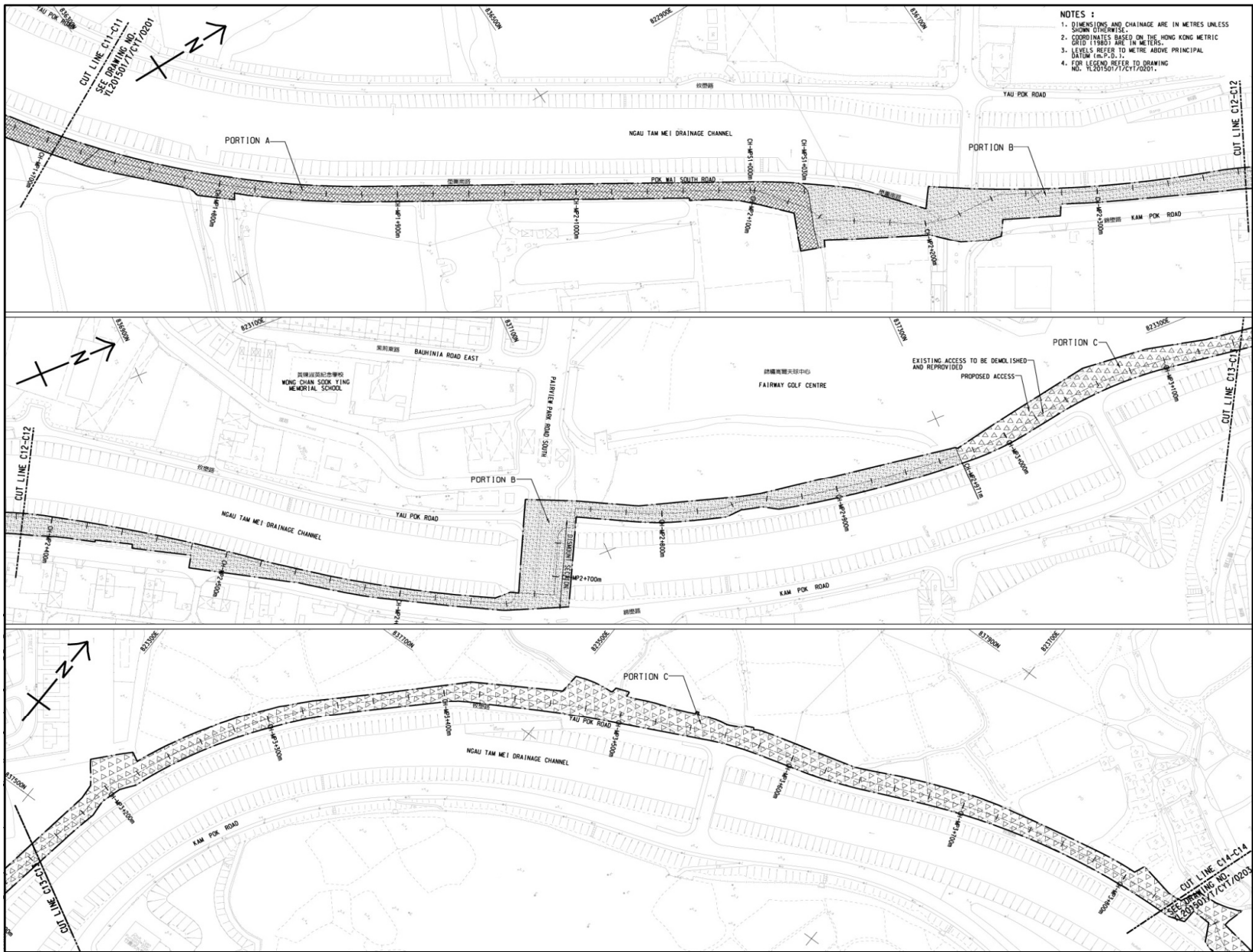
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JOB No.	MA16036	FIGURE NO.	1a	REV	-



Title Agreement No. CE 67/2015(HY)  
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works  
 Design and Construction  
 Site Layout Plan

Scale	N.T.S	Project No.	MA16036
Date	Dec-16	Figure	1b

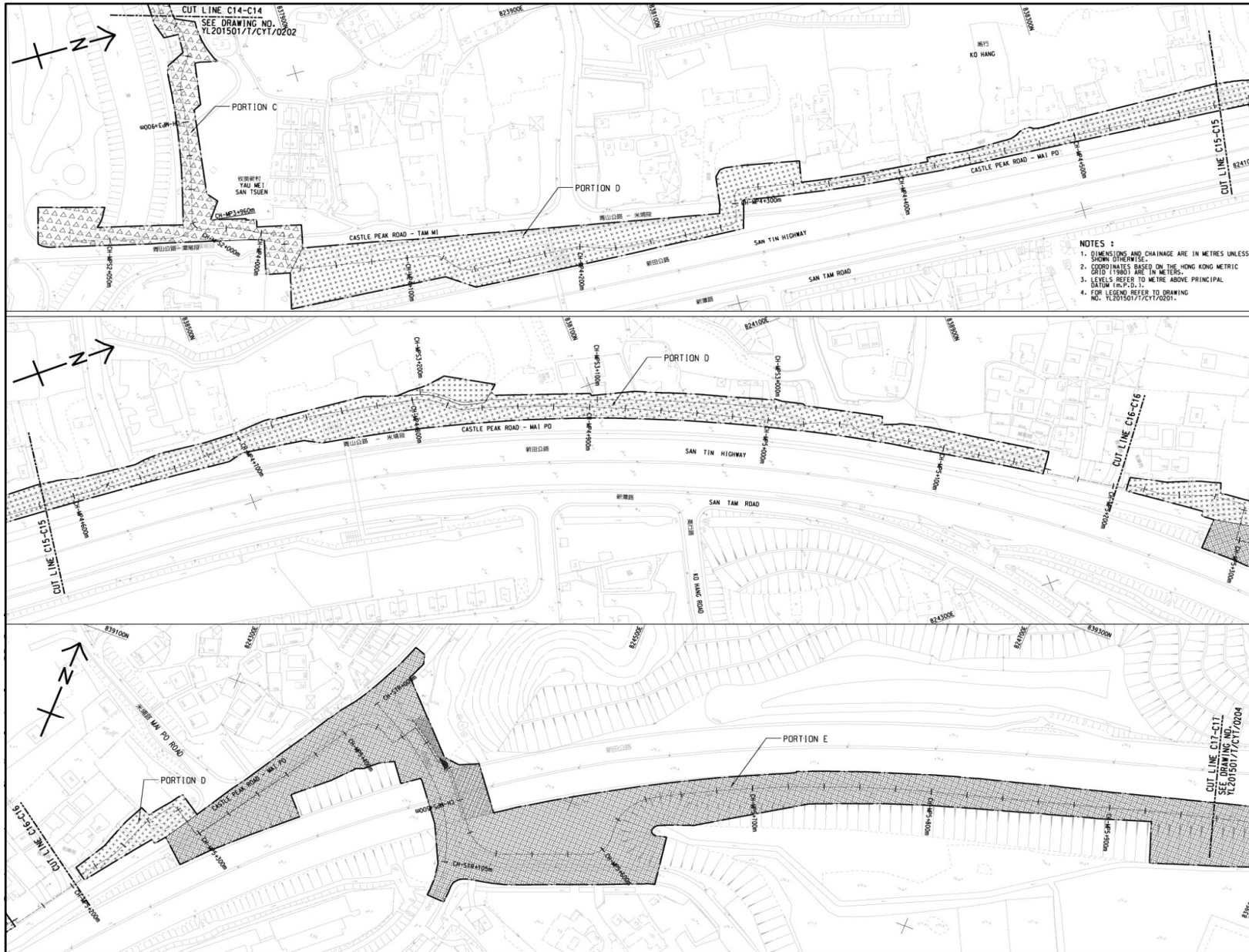
**CINOTECH**



Title Agreement No. CE 67/2015(HY)  
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works  
 Design and Construction  
 Site Layout Plan

Scale	N.T.S	Project No.	MA16036
Date	Dec-16	Figure	1c



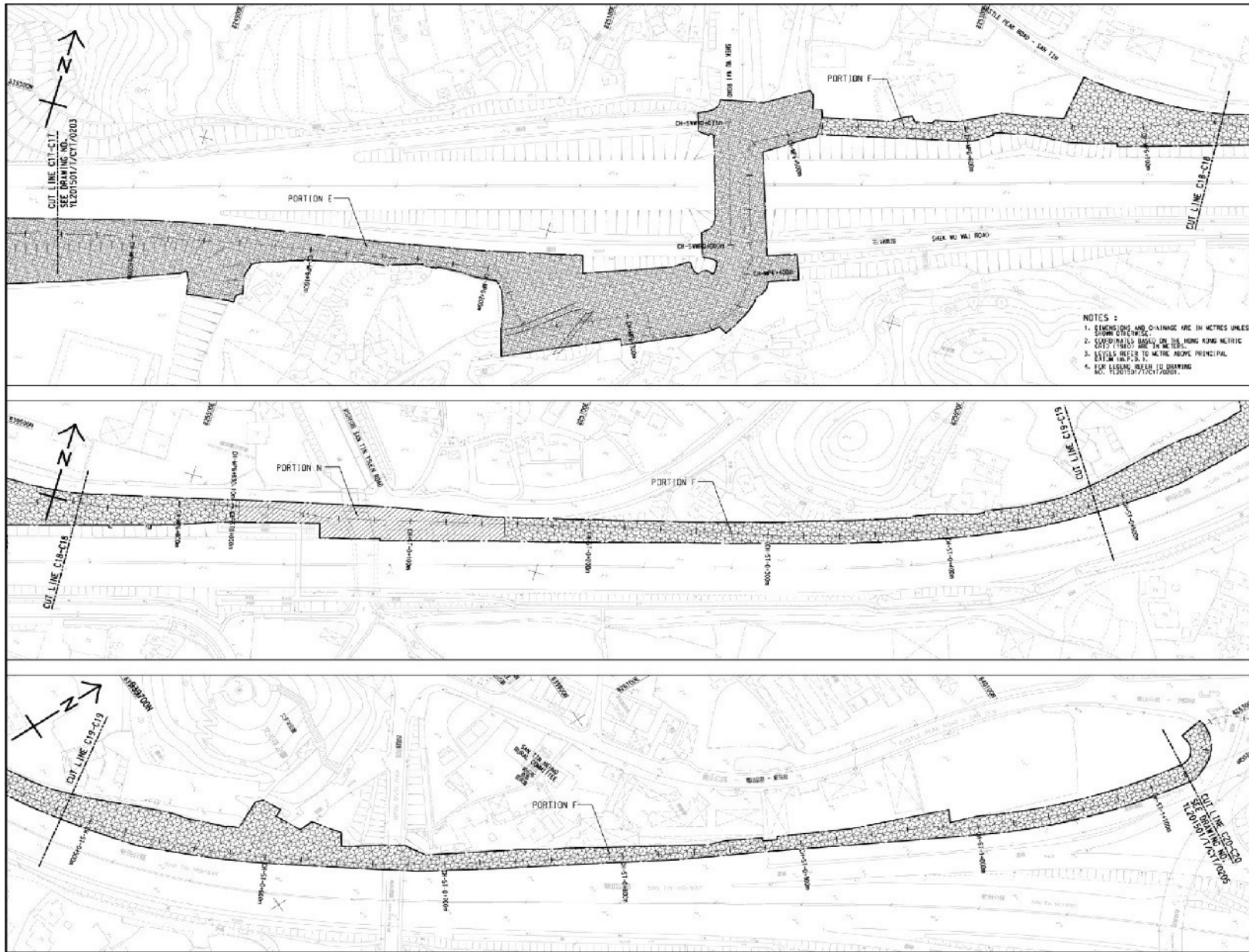


Title Agreement No. CE 67/2015(HY)  
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works  
 Design and Construction  
 Site Layout Plan

Scale	N.T.S	Project No.	MA16036
Date	Dec-16	Figure	1d





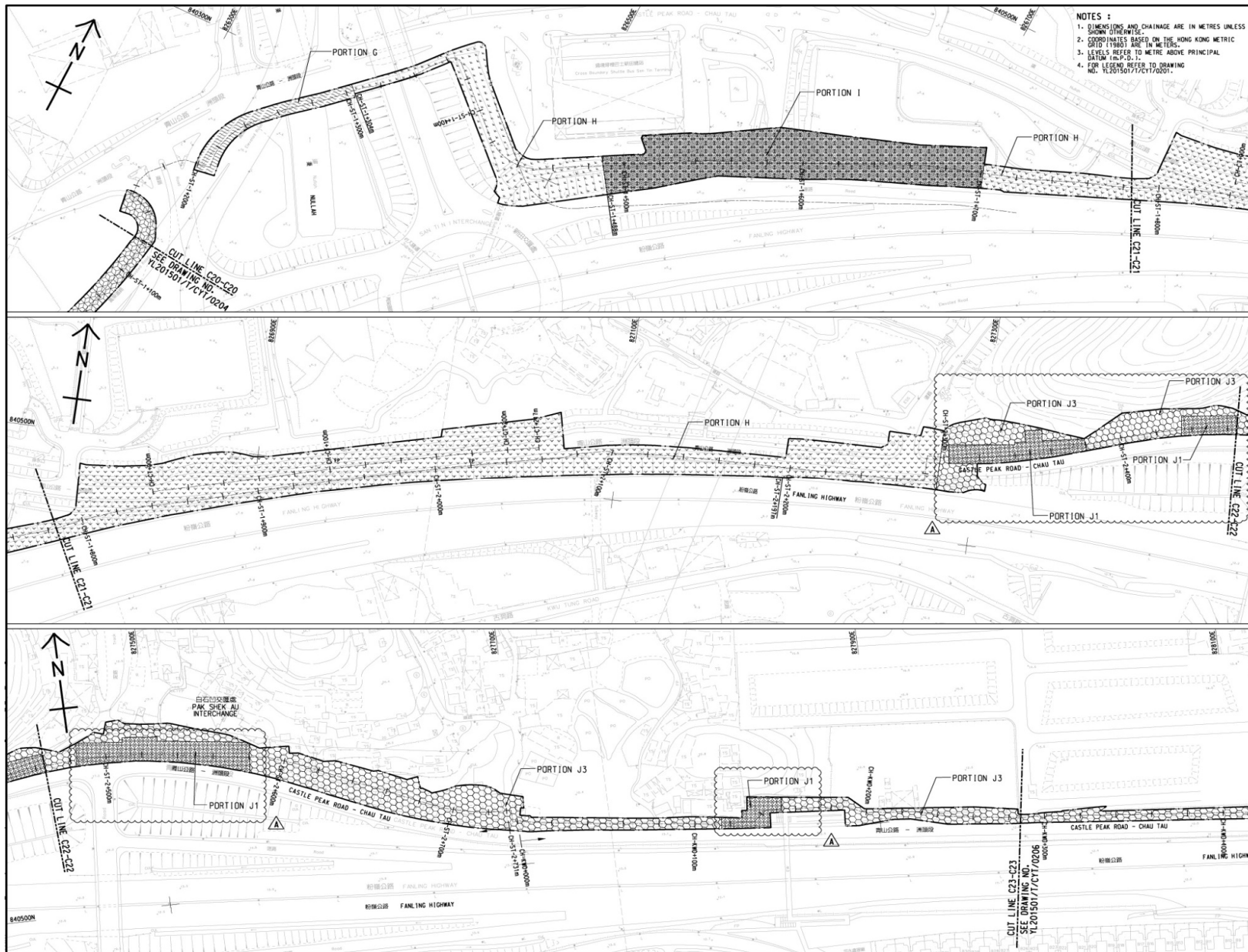


Title

Agreement No. CE 67/2015(HY)  
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works  
 Design and Construction  
 Site Layout Plan

Scale	N.T.S	Project No.	MA16036
Date	Dec-16	Figure	1e

**CINOTECH**

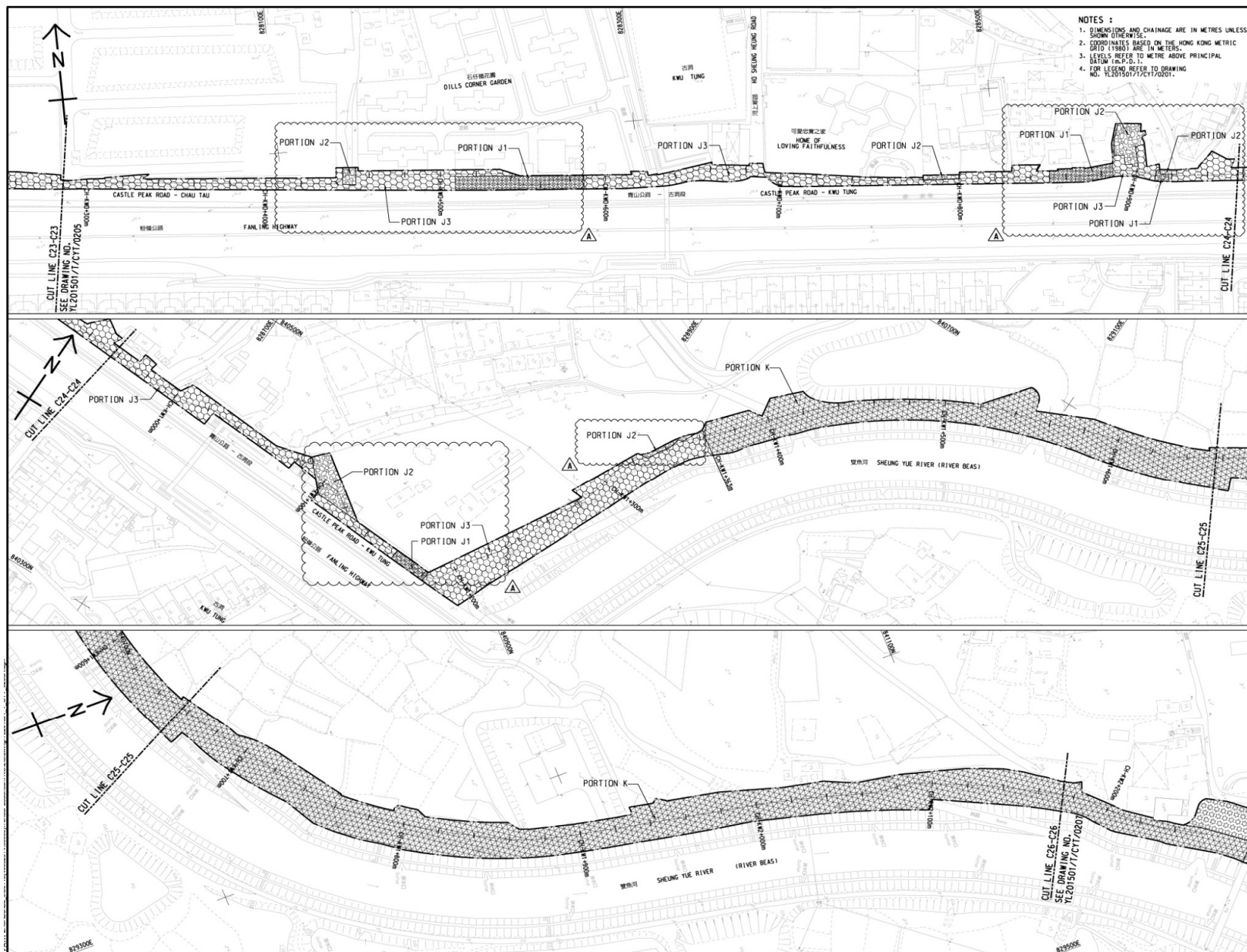


Title

Agreement No. CE 67/2015(HY)  
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works  
 Design and Construction  
 Site Layout Plan

Scale	N.T.S	Project No.	MA16036
Date	Dec-16	Figure	1f





Title Agreement No. CE 67/2015(HY)  
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works  
 Design and Construction  
 Site Layout Plan

Scale	N.T.S	Project No.	MA16036
Date	Dec-16	Figure	1g





Title



Agreement No. CE 67/2015(HY)  
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works  
 Design and Construction  
 Site Layout Plan

Scale	N.T.S	Project No.	MA16036
Date	Dec-16	Figure	1h





**LEGEND**

-  Site Boundary
-  Noise Monitoring Stations



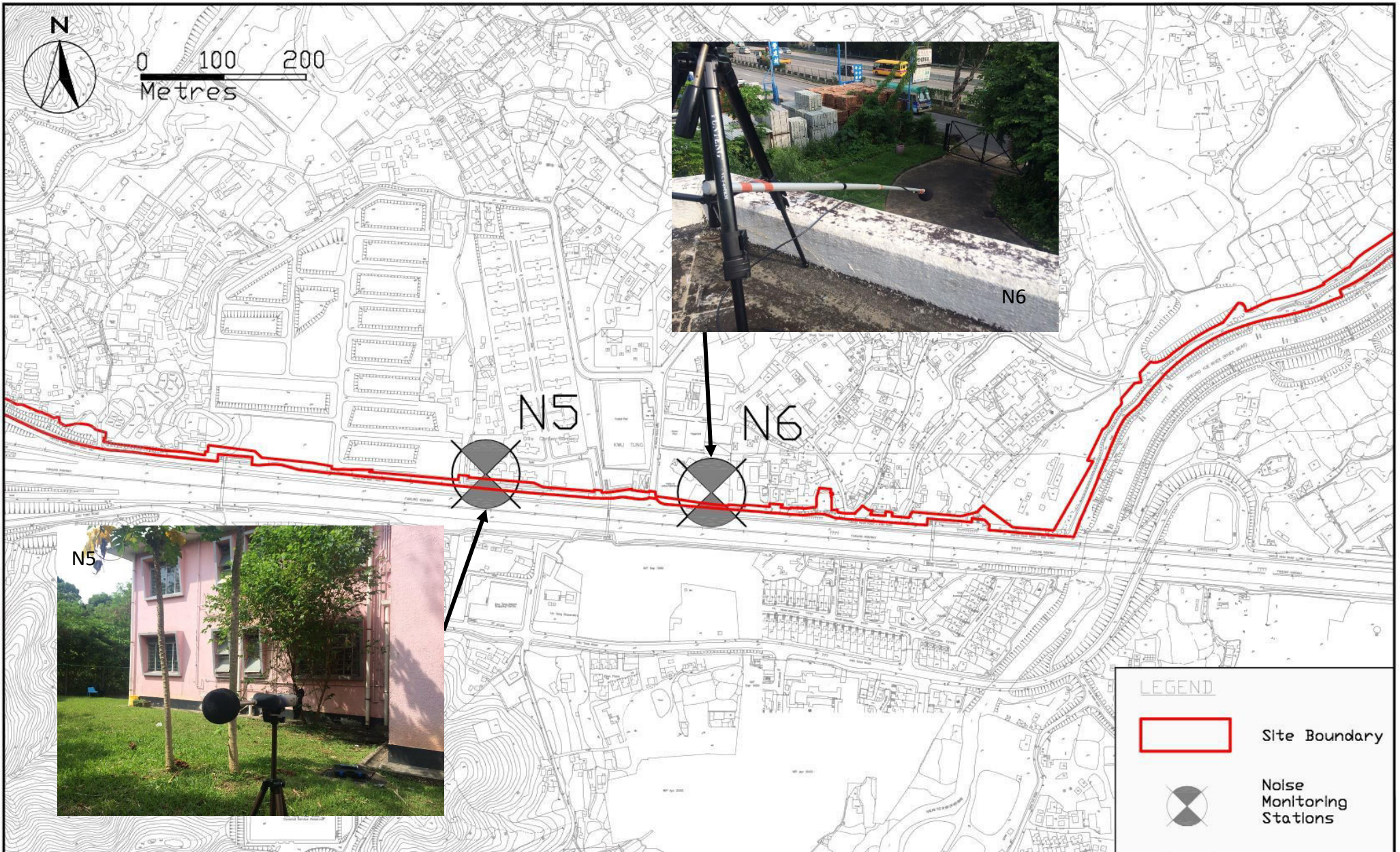
Agreement No. CE 67/2015(HY) - Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction

### Locations of the Noise Monitoring Stations (N1, N2)

SCALE	A4 1:6m	DATE	Aug 2016	
CHECK	JL	DRAWN	VW	
JOB No.	MA16036	FIGURE NO.	2a	REV
				-



SCALE	A4 1:6m	DATE	Aug 2016
CHECK	JL	DRAWN	VW
JOB No.	MA16036	FIGURE NO.	2b
		REV	-



SCALE	A4 1:6m	DATE	Aug 2016
CHECK	JL	DRAWN	VW
JOB No.	MA16036	FIGURE NO.	2c
		REV	-

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**APPENDIX A  
WORK PROGRAMME**

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生興 - 豐利聯營  
Sang Hing - Kuly Joint Venture

28<sup>th</sup> June 2019

Our ref.: SKJV/W52/SO/3497

Mannings (Asia) Consultants Ltd.  
5/F, Winning Commercial Building,  
46-48 Hillwood Road,  
Tsim Sha Tsui,  
Kowloon

By fax & post  
Fax no.: 3168 2022

Attn.: Mr. Mole Tam (Senior Resident Engineer)

Dear Sirs,

**Contract No. YL/2015/01**  
**Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works**  
**Updated Programme**

Enclosed please find our updated programme for your information and acceptance. A summary is also attached herewith this letter for your easy reference.

In several meetings, we understand that CEDD and your Office would request us to complete the proposed Cycle Track by the end of this year. However, our programme are hindered by some external constraints such as Street Lighting Works by Highways Department, approval of GRP Roofing at Subway A & D, utilities diversions at Retaining Walls RW49 and RW50 and additional walls at Portions J1 to J3, etc.

In view of this requirement, we would like to arrange an ad hoc meeting to seek a better solution to accelerate the works.

Thank you for your kind attention

Yours faithfully,  
For and on behalf of  
Sang Hing - Kuly Joint Venture

Tang Wing Kai  
Site Agent

WKT/MKM/TL/tl

Encl.

Summary of Updating Programme upto end of June 2019

Section	Portion	Revised Completion Date	Revised Completion Date (Including with Time Saving)	Updated Programme Completion Date	Major outstanding work / critical work	Target Completion	Critical Priority	Remark	
W1	A			30/9/2019	1) Street Lighting works and Colour Dressing	30-Sep-19			
					1) Subway A Bay 12 to Bay 16	16-Oct-19			
	B		5/6/2019	7/4/2019	23/2/2020	2) GRP Roofing Approval	15-Jul-19	2nd	Assume GRP approval obtained on 15/7/19
						3) GRP Roofing Order and Delivery	15-Oct-19		
						4) GRP installation	13-Jan-20		
						5) Road work inside subway	23-Feb-20		
						5) Street Lighting works and colour Dressing	30-Sep-19		
	C			11/7/2019	1) Street Lighting works and Colour Dressing	7-Nov-19			
					2) Additional Proposed staircase, ramp at Yau Po Road	16-Oct-19			
	D			15/4/2020	1) Approval of Street Lighting	30-Jun-19	1st		
					2) Allocation Warrant and Installation of Street Lighting	6-Mar-20			
					3) Colour Dressing	15-Apr-20			

W2	E			15/4/2020	1) Retaining Wall RW D03	26-Mar-20	3rd	
					2) Approval of Street Lighting	30-Jun-19	2nd	Assume Approval given on 30 June 2019
					3) Allocation Warrant and Installation of Street Lighting	6-Mar-20		
					4) Colour Dressing	15-Apr-20		
	F			15/4/2020	1) RW 42 (CSD)	30-Dec-19	3rd	
					2) RW 44 and Ramp PR3	19-Dec-19		
					3) Approval of Street Lighting	30-Jun-19	2nd	Assume Approval given on 30 June 2019
	4) Allocation Warrant and Installation of Street Lighting	6-Mar-20						
	G			31/3/2020	5) Colour Dressing	15-Apr-20		
					1) Approval of Street Lighting	30-Jun-19	2nd	Assume Approval given on 30 June 2019
					2) Allocation Warrant and Installation of Street Lighting	6-Mar-20		
	H		16/11/2019	1/9/2019	25/4/2021	3) Colour Dressing	31-Mar-20	
1) Additional RW49 & RW50						10/2/2020	1st	
2) Additional Diversion of utilities along RW49 & RW50						8/8/2020		
3) Drainage and Gullies for re-alignment carriageway for RW49 & RW50						7/10/2020		
4) Road Works for re-alignment of DW1 and DW2 and street lighting works	25/4/2021							
I				13/3/2020	1) Subway D E&M works	1-Nov-19		
					2) GRP Roofing Approval	15-Jul-19	2nd	Assume GRP approval obtained on 15/7/19
					3) GRP Roofing Order and Delivery	15-Oct-19		
					4) GRP installation	13-Jan-20		
					5) Road work inside subway	13-Mar-20		
1) Bridge B - Substructure	30-Sep-19	3rd						
2) Bridge B - Superstructure	30-Nov-19							
3) Bridge B - Site formation	20-Jan-20							
N			20/3/2020	4) Approval of Street Lighting	30-Jun-19	2nd	Assume Approval given on 30 June 2019	
				5) Allocation Warrant and Installation of Street Lighting	6-Mar-20			
				6) Colour Dressing	20-Mar-20			

W3	K&J1	30/5/2019	1/4/2019	5/4/2020	1) Approval of Street Lighting	30-Jun-19	1st	Assume Approval given on 30 June 2019
					2) Allocation Warrant and Installation of Street Lighting	6-Mar-20		
					3) Colour Dressing	5-Apr-20		

W5	M	11/9/2019	11/9/2019	31/3/2020	1) Steel roofing and E&M of Bridge E	27-Dec-19		
					2) Approval of Street Lighting	30-Jun-19	1st	Assume Approval given on 30 June 2019
					3) Allocation Warrant and Installation of Street Lighting	6-Mar-20		
					4) Colour Dressing	31-Mar-20		

W7	J1,J2,J3	14/6/2019	16/4/2019	20/4/2020	1) RW48, RW24A, RW24AAA, etc	31-Dec-19	1st	
					2) Earthwork and Drainage works	29-Feb-20		
					3) Road Work (except colour dressing)	30-Mar-20		
					2) Approval of Street Lighting	30-Jun-19		
3) Allocation Warrant and Installation of Street Lighting	6-Mar-20							
					4) Colour Dressing	24-Apr-20		















ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	Successors	Gantt Chart (2016-2022)																							
302	221545	DRAINAGE WORKS, EARTHWORKS AND ROAD WORKS FROM MP6+020 TO 6+530	350 days	10 days	Thu 4/10/18	Wed 18/9/19	Thu 4/10/18	NA	289,291,292,296,298,299,3	80%	545 days	308FF	[Gantt Chart Data]																							
303	221546	CE-180 DESIGN AND CONSTRUCTION OF BOUNDARY WALL ALONGSIDE SAN TIN HIGHWAY IN PORTION E	300 days	5 days	Thu 1/11/18	Tue 27/8/19	Thu 1/11/18	NA		70%	567 days	308FF	[Gantt Chart Data]																							
304	221547	CE-143 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED LIGHTING IN PORTION E (DESIGN SUBMISSION & APPROVAL) + SKJV NCE No. 327 - Late Approval of Street Lighting Design including Lengthy Time in Installation of LED Lighting	441 days	0 day	Mon 16/4/18	Sun 30/6/19	Mon 16/4/18	NA	226SS	90%	375 days	305,306,337SS,358SS,394SS,443SS	[Gantt Chart Data]																							
305	221548	CE-143 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION E (ASSOCIATED CIVIL PROVISION WORKS)	100 days	0 day	Mon 1/7/19	Tue 8/10/19	NA	NA	304	0%	485 days	307	[Gantt Chart Data]																							
306	221549	ALLOCATION WARRANT, QUOTATION & ISSUE OF WORKS ORDER FOR STREET LIGHTING BY OTHERS + SKJV NCE No. 327 - Late Approval of Lighting Design including Lengthy Time in Installation of LED Lighting (*16 wk for Purchasing LED Lighting after HyD's Instruction)	210 days	0 day	Mon 1/7/19	Sun 26/1/20	NA	NA	304	0%	375 days	307	[Gantt Chart Data]																							
307	221550	INSTALLATION OF LED STREET LIGHTING BY OTHERS	40 days	0 day	Mon 27/1/20	Fri 6/3/20	NA	NA	305,306	0%	375 days	309	[Gantt Chart Data]																							
308	221551	ROAD WORKS (EXCEPT COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS)	310 days	5 days	Tue 13/11/18	Wed 18/9/19	NA	NA	302FF,276,303FF	0%	545 days	309	[Gantt Chart Data]																							
309	221552	COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS	40 days	0 day	Sat 7/3/20	Wed 15/4/20	NA	NA	308,307	0%	375 days	310	[Gantt Chart Data]																							
310	221555	PORTION E - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Wed 15/4/20	Wed 15/4/20	NA	NA	270,282,309	0%	375 days	452	[Gantt Chart Data]																							
311	221560	W2 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE	0 days	0 day	Sat 16/11/19	Sat 16/11/19	NA	NA	23	0%	1011 days		[Gantt Chart Data]																							
312	221561	W2 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE WITH CSD PACKAGE P2, P4 AND P5 (ASSUMED 30 days) TIME SAVINGS EFFECT (-77 days)	0 days	0 day	Sun 1/9/19	Sun 1/9/19	NA	NA	24	0%	1088 days		[Gantt Chart Data]																							
313	222000	PORTION F (MP 6+530 - MP 6+850, CH ST 0+150 - CH ST 1+150)	1386 days		Thu 30/6/16	Wed 15/4/20	Thu 30/6/16	NA		80%	375 days		[Gantt Chart Data]																							
314	222010	POSSESSION OF SITE	0 days	0 day	Sun 27/11/16	Sun 27/11/16	Sun 27/11/16	Sun 27/11/16	237FS+151 days	100%	0 days	315SS,316SS	[Gantt Chart Data]																							
315	222020	INITIAL SURVEY	215 days	4 days	Mon 28/11/16	Fri 30/6/17	Mon 28/11/16	Fri 30/6/17	314SS	100%	0 days	317,327SS+115 days	[Gantt Chart Data]																							
316	222030	TREE SURVEY	40 days	4 days	Mon 28/11/16	Fri 6/1/17	Mon 28/11/16	Fri 6/1/17	314SS	100%	0 days	317	[Gantt Chart Data]																							
317	222040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE (+ DELAY DUE TO INCREMENT WEATHER)	150 days	5 days	Sat 1/7/17	Mon 27/11/17	Sat 1/7/17	Mon 27/11/17	316,315	100%	0 days	318,336	[Gantt Chart Data]																							
318	222050	UTILITIES DIVERSION WORKS (CLP, TOWN GAS)	90 days	0 day	Tue 28/11/17	Sun 25/2/18	Tue 28/11/17	Sun 25/2/18	317	100%	0 days		[Gantt Chart Data]																							
319	222120	INSTRUCTION FOR SITE INVESTIGATION FOR CONTAMINATED SITE	565 days	0 day	Thu 30/6/16	Mon 15/1/18	Thu 30/6/16	Mon 15/1/18	2SS	100%	0 days	320	[Gantt Chart Data]																							
320	222130	ARRANGEMENT OF SITE INVESTIGATION WORKS	7 days	0 day	Tue 16/1/18	Mon 22/1/18	Tue 16/1/18	Mon 22/1/18	319	100%	0 days	321	[Gantt Chart Data]																							
321	222140	SITE INVESTIGATION WORKS AND TESTING	60 days	0 day	Tue 23/1/18	Fri 23/3/18	Tue 23/1/18	Fri 23/3/18	320	100%	0 days	322,324,331	[Gantt Chart Data]																							
322	222145	AWAITING FOR INSTRUCTION FOR REMEDIAL WORKS FOR CONTAMINATED SOIL	363 days	2 days	Sat 24/3/18	Thu 21/3/19	Sat 24/3/18	Thu 21/3/19	321	100%	0 days	323,325SS	[Gantt Chart Data]																							
323	222146	ISSUED DATE OF CE-158 TREATMENT OF CONTAMINATED SOIL IN PORTION F	1 day	0 day	Fri 22/3/19	Fri 22/3/19	Fri 22/3/19	Fri 22/3/19	322	100%	0 days		[Gantt Chart Data]																							
324	222150	PREPARATION WORKS FOR TREATMENT OF CONTAMINATED SOIL	30 days	3 days	Sat 24/3/18	Sun 22/4/18	Sat 24/3/18	Sun 22/4/18	321	100%	0 days	325SS	[Gantt Chart Data]																							
325	222155	IMPLEMENTATION OF DE-CONTAMINATION WORKS & ASSOCIATED EARTHWORK & DRAINAGE WORKS	479 days	5 days	Sat 24/3/18	Mon 15/7/19	Sat 24/3/18	Mon 15/7/19	324SS,322SS	100%	0 days	326SS+55 days,332	[Gantt Chart Data]																							
326	222156	ADDITIONAL RETAINING WALL RWD26A, RWD26B, RWD26C at Chainage CH-ST-6+500 to CH-6+650 (SKJV NCE No. 149 - Additional Drainage and Revised Retaining Wall RWD26A, RWD26B and RWD26C)	280 days	0 day	Fri 18/5/18	Thu 21/2/19	Fri 18/5/18	Thu 21/2/19	325SS+55 days	100%	0 days		[Gantt Chart Data]																							
327	222160	GROUND INVESTIGATION WORKS (1 NO. BOREHOLE & TRIAL PITS)	14 days	2 days	Thu 23/3/17	Wed 5/4/17	Thu 23/3/17	Wed 5/4/17	315SS+115 days	100%	0 days	328	[Gantt Chart Data]																							
328	222165	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Thu 6/4/17	Wed 26/4/17	Thu 6/4/17	Wed 26/4/17	327	100%	0 days	329	[Gantt Chart Data]																							
329	222170	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Thu 27/4/17	Wed 17/5/17	Thu 27/4/17	Wed 17/5/17	328	100%	0 days		[Gantt Chart Data]																							
330	222180	RW 42 (60M) - CSD	60 days	7 days	Fri 1/11/19	Mon 30/12/19	NA	NA	441SS	0%	382 days	341FS-15 days	[Gantt Chart Data]																							
331	222190	RW 43 (+ SKJV NCE No. 91 Additional Bays/Revised Details and Realignment of Storm Drain Pipe, No. 118 Revised RC Details, No.148 Additional Rockfill Arrangement, No.195 Revised Details of Bay 5, )	285 days	5 days	Sat 24/3/18	Wed 2/1/19	Sat 24/3/18	Wed 2/1/19	321	100%	0 days	335	[Gantt Chart Data]																							
332	222200	RW 44 (36M U)	80 days	5 days	Tue 1/10/19	Thu 19/12/19	NA	NA	325,334	0%	398 days	341FS-20 days	[Gantt Chart Data]																							
333	222210	RAMP PR3 CONSTRUCTION	80 days	3 days	Tue 1/10/19	Thu 19/12/19	NA	NA	334	0%	398 days	341FS-20 days	[Gantt Chart Data]																							
334	222212	CE-180 DESIGN AND CONSTRUCTION OF BOUNDARY WALL ALONGSIDE SAN TIN HIGHWAY IN PORTION F	214 days	5 days	Fri 1/3/19	Mon 30/9/19	Fri 1/3/19	NA		70%	398 days	341,332,333	[Gantt Chart Data]																							
335	222215	EARTHWORKS AND DRAINAGE WORK RW43, RWD26A, RWD26B & RWD26C, RW43	130 days	10 days	Thu 3/1/19	Sun 12/5/19	Thu 3/1/19	Sun 12/5/19	331	100%	0 days	341	[Gantt Chart Data]																							
336	222220	EARTHWORKS AND DRAINAGE WORKS AT LOCATION OTHER THAN RW42, RW43, RW44, RW26A, RW26B, RW26C AND BOUNDARY WALL AT PORTION F	270 days	3 days	Tue 28/11/17	Fri 24/8/18	Tue 28/11/17	Fri 24/8/18	317	100%	0 days	341	[Gantt Chart Data]																							

Task	Summary	External Milestone	Inactive Summary	Manual Summary Rollup	Finish-only	Progress
Split	Project Summary	Inactive Task	Manual Task	Manual Summary	Critical	Deadline
Milestone	External Tasks	Inactive Milestone	Duration-only	Start-only	Critical Split	

REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

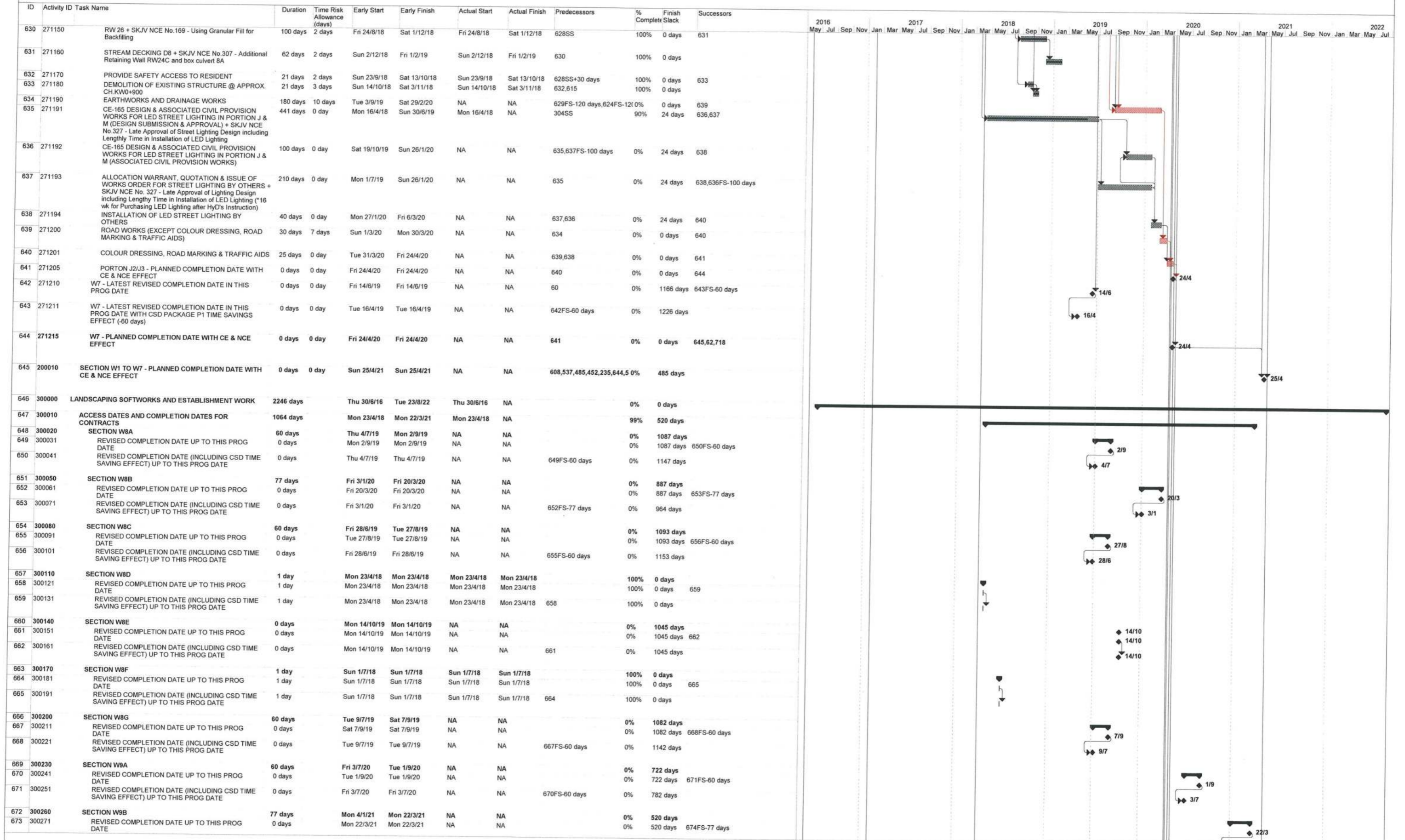












REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME







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**APPENDIX B  
ACTION AND LIMIT LEVELS FOR  
NOISE**

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## Appendix B - Action and Limit Levels

**Table B-1 Action and Limit Levels for Construction Noise**

<b>Time Period</b>	<b>Action Level</b>	<b>Limit Level</b>
0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A) 70dB(A)/65dB(A)*

Remarks: If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed. \*70dB(A) and 65dB(A) for schools during normal teaching periods and school examination periods, respectively.

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**APPENDIX C  
COPIES OF CALIBRATION  
CERTIFICATES**

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## TEST REPORT

**APPLICANT:** Cinotech Consultants Limited  
Room 1710, Technology Park,  
18 On Lai Street,  
Shatin, NT, Hong Kong

Test Report No.:	C/N/171213/2
Date of Issue:	2018-12-13
Date Received:	2018-12-12
Date Tested:	2018-12-12
Date Completed:	2018-12-13
Next Due Date:	2019-12-12

Page: 1 of 1

### Certificate of Calibration

**Item for calibration:**

Description	: 'SVANTEK' Integrating Sound Level Meter
Manufacturer	: SVANTEK
Model No.	: SVAN 979
Serial No.	: 27190
Microphone No.	: 167465
Equipment No.	: SN-01-02

**Test conditions:**

Room Temperature	: 22 degree Celsius
Relative Humidity	: 58 %

**Methodology:**

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

**Results:**

Sound Pressure Level (1KHz)	Measured SPL	Tolerance
At 94.0 SPL	94.0	94.0 ± 0.1dB
At 114.0 SPL	114.0	114.0 ± 0.1dB

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**

  
**PATRICK TSE**  
Laboratory Manager



Equipment no.: N-12-01

## Calibration Certificate

0022524

Customer : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T. Hong Kong	Object 1 : BSWA 308 SLM Serial No. /Ref. No. : 570183 / 550233 Object 2 : Serial No. /Ref. No. :
Customer Code : SVEC09005	Manufacturer : BSWAtech
Date of calibration: 23/09/2019 Date of the recommended re-calibration: 23/09/2020	Certificate No.: 0022524 Handle by: E0002

### Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	94.0dB	0.0dB	+/- 1.5dB	1
114.0dB	114.0dB	0.0dB	+/- 1.5dB	1

### Measuring equipment

index	Calibrator / Master	Traceability
1	Master Sound Meter, SVAN949,sn:8571	IEC61672
2	Sound Calibrator, SV30A sn:32580	IEC60942

### Ambient conditions

Temperature (20...26)°C

Humidity (20...60)%RH

### Measuring procedure

Calibrated by Type 1 Sound Calibrator with Master Sound Level Meter under 1kHz Frequency.

### Uncertainty

+/- 0.2 dB for probability not less than 95%.

### Conformity

1. The resulted values were those obtained at the time of test and applies only to the item calibrated.
2. The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains the uncertainty of the measuring procedure and the uncertainty of the measuring system.
3. The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.
4. HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.
5. The calibrations certificate may not be reproduced.

Measured value(s) **within** the allowable deviation.

Performed by

Calibration Technician

Approved by

Quality Manager



# Calibration Certificate

0022999

Customer : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T. Hong Kong	Object 1 : SVAN957 SLM Serial No. /Ref. No. : 23851 / N-08-12 Object 2 : Microphone Serial No. /Ref. No. : 43676
Customer Code : SVEC09005	Manufacturer : Svantek
Date of calibration: 19/12/2019 Date of the recommended re-calibration: 19/12/2020	Certificate No.: 0022999 Handle by: E0002

## Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	94.0dB	0.0dB	+/- 1.5dB	1
114.0dB	114.0dB	0.0dB	+/- 1.5dB	1

## Measuring equipment

index	Calibrator / Master	Traceability
1	Master Sound Meter, SVAN949,sn:8571	IEC61672
2	Sound Calibrator, SV30A sn:32580	IEC60942

## Ambient conditions

Temperature (20...26)°C

Humidity (20...60)%RH

## Measuring procedure

Calibrated by Type 1 Sound Calibrator with Master Sound Level Meter under 1kHz Frequency.

## Uncertainty

+/- 0.2dB for probability not less than 95%.

## Conformity

- 1.The resulted values were those obtained at the time of test and applies only to the item calibrated.
- 2.The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains the uncertainty of the measuring procedure and the uncertainty of the measuring system.
- 3.The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.
- 4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.
- 5.The calibrations certificate may not be reproduced.

Measured value(s) **within** the allowable deviation.

Performed by

Calibration Technician

Approved by

Quality Manager



# Calibration Certificate

0023002

Customer : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T. Hong Kong	Object 1 : SV30A sound calibrator Serial No. /Ref. No. : 10965 / N-09-02 Object 2 : Serial No. /Ref. No. :
Customer Code : SVEC09005	Manufacturer : Svantek
Date of calibration: 19/12/2019 Date of the recommended re-calibration: 19/12/2020	Certificate No.: 0023002 Handle by: E0002

## Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	93.9dB	-0.1dB	+/- 0.3dB	1
114.0dB	114.2dB	+0.2dB	+/- 0.3dB	1

## Measuring equipment

index	Calibrator / Master	Traceability
1	Master Sound Meter, SVAN949,sn:8571	IEC61672
2	Sound Calibrator, SV30A sn:32580	IEC60942

## Ambient conditions

Temperature (20...26)°C Humidity (20...60)%RH

## Measuring procedure

Calibrated by Type 1 Sound Level Meter and 1kHz Sound Source .

## Uncertainty

+/- 0.2dB for probability not less than 95%.

## Conformity

- 1.The resulted values were those obtained at the time of test and applies only to the item calibrated.
- 2.The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains the uncertainty of the measuring procedure and the uncertainty of the measuring system.
- 3.The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.
- 4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.
- 5.The calibrations certificate may not be reproduced.

Measured value(s) **within** the allowable deviation.

Performed by

Calibration Technician

Approved by

Quality Manager



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**APPENDIX D  
ENVIRONMENTAL MONITORING  
SCHEDULES**

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**Agreement No. CE 67/2015 (HY)**  
**Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction**  
**Impact Noise Monitoring Schedule (December 2019)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<b>1-Dec</b>	2-Dec	3-Dec	4-Dec	5-Dec	6-Dec	7-Dec
		Noise				
<b>8-Dec</b>	9-Dec	10-Dec	11-Dec	12-Dec	13-Dec	14-Dec
		Noise				
<b>15-Dec</b>	16-Dec	17-Dec	18-Dec	19-Dec	20-Dec	21-Dec
		Noise				
<b>22-Dec</b>	23-Dec	24-Dec	25-Dec	26-Dec	27-Dec	28-Dec
		Noise				
<b>29-Dec</b>	30-Dec	31-Dec	1-Jan	2-Jan	3-Jan	4-Jan
		Noise				

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

**Noise Monitoring Station**

- N1 - HKMLC Wong Chan Sook Ying Memorial School
- N2 - Bethel High School
- N3 - No. 159 Mai Po San Tsuen
- N5 - Dills Corner Garden Block 2
- N6 - Home of Loving Faithfulness
- N7 - Village House in Shek Wu Wai

**Agreement No. CE 67/2015 (HY)**  
**Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction**  
**Tentative Impact Noise Monitoring Schedule (January 2020)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Jan	2-Jan	3-Jan	4-Jan
<b>5-Jan</b>	6-Jan	7-Jan	8-Jan	9-Jan	10-Jan	11-Jan
		Noise				
<b>12-Jan</b>	13-Jan	14-Jan	15-Jan	16-Jan	17-Jan	18-Jan
		Noise				
<b>19-Jan</b>	20-Jan	21-Jan	22-Jan	23-Jan	24-Jan	25-Jan
		Noise				
<b>26-Jan</b>	27-Jan	28-Jan	29-Jan	30-Jan	31-Jan	1-Feb
			Noise			

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

**Noise Monitoring Station**

- N1 - HKMLC Wong Chan Sook Ying Memorial School
- N2 - Bethel High School
- N3 - No. 159 Mai Po San Tsuen
- N5 - Dills Corner Garden Block 2
- N6 - Home of Loving Faithfulness
- N7 - Village House in Shek Wu Wai

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**APPENDIX E  
NOISE MONITORING RESULTS AND  
GRAPHICAL PRESENTATIONS**

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## Appendix E - Noise Monitoring Results

(0700-1900 hrs on Normal Weekdays)

N1 - HKMLC Wong Chan Sook Ying Memorial School							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Level	Construction Noise Level
			L eq	L10	L 90	L eq	L eq
03/12/2019	9:00	Sunny	54.2	57.4	50.5	62.2	54.2 measured $\leq$ Baseline
10/12/2019	9:00	Fine	52.7	54.5	50.6		52.7 measured $\leq$ Baseline
17/12/2019	9:00	Sunny	54.5	58.3	52.2		54.5 measured $\leq$ Baseline
24/12/2019	11:20	Sunny	57.5	60.6	48.6		57.5 measured $\leq$ Baseline
31/12/2019	9:00	Cloudy	55.3	57.4	50.4		55.3 measured $\leq$ Baseline

N2 - Bethel High School							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Level	Construction Noise Level
			L eq	L10	L 90	L eq	L eq
03/12/2019	10:00	Sunny	60.7	63.5	56.9	55.2	59.3
10/12/2019	10:30	Fine	57.6	62.2	54.1		53.9
17/12/2019	10:00	Sunny	62.4	65.2	60.1		61.5
24/12/2019	13:30	Sunny	59.0	61.2	54.8		56.7
31/12/2019	10:00	Cloudy	59.4	62.1	56.1		57.3

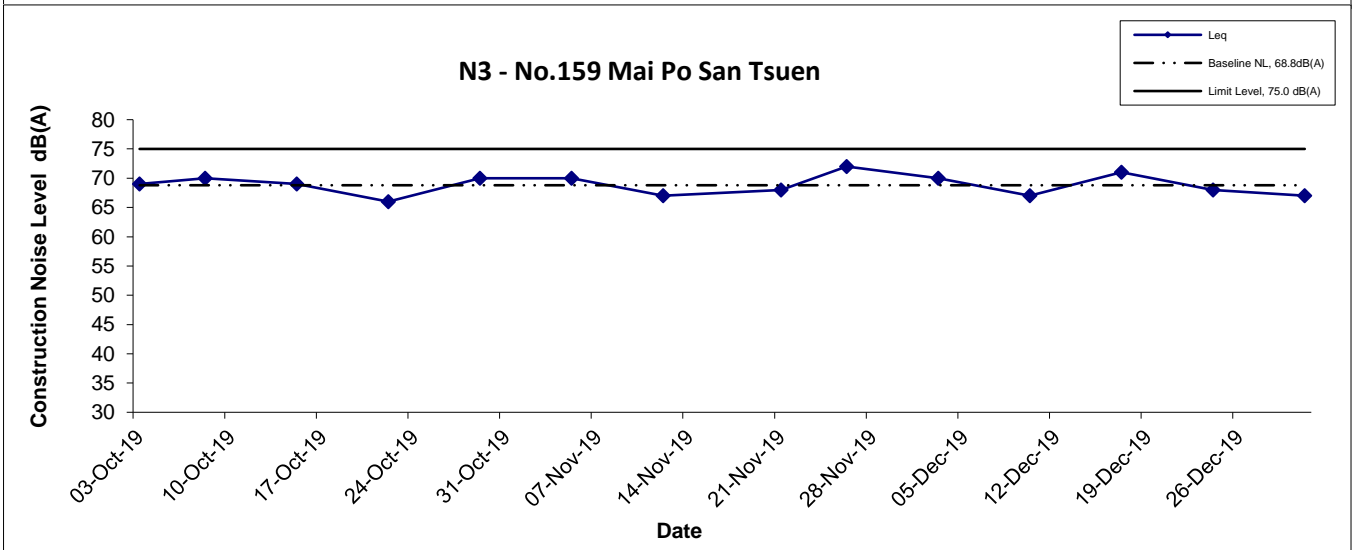
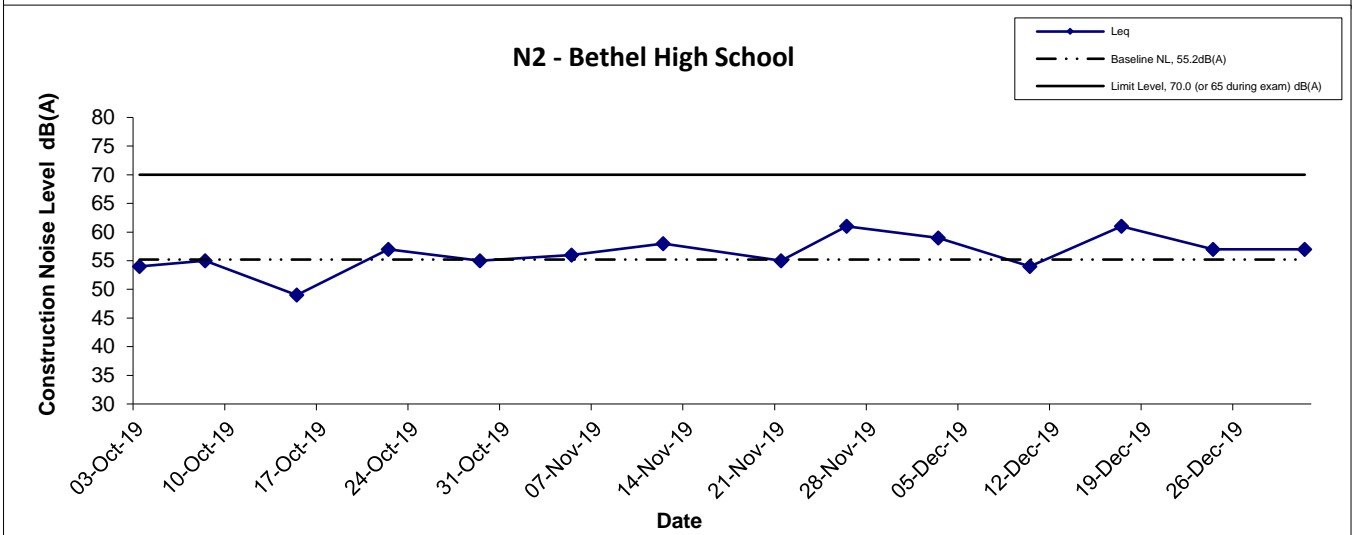
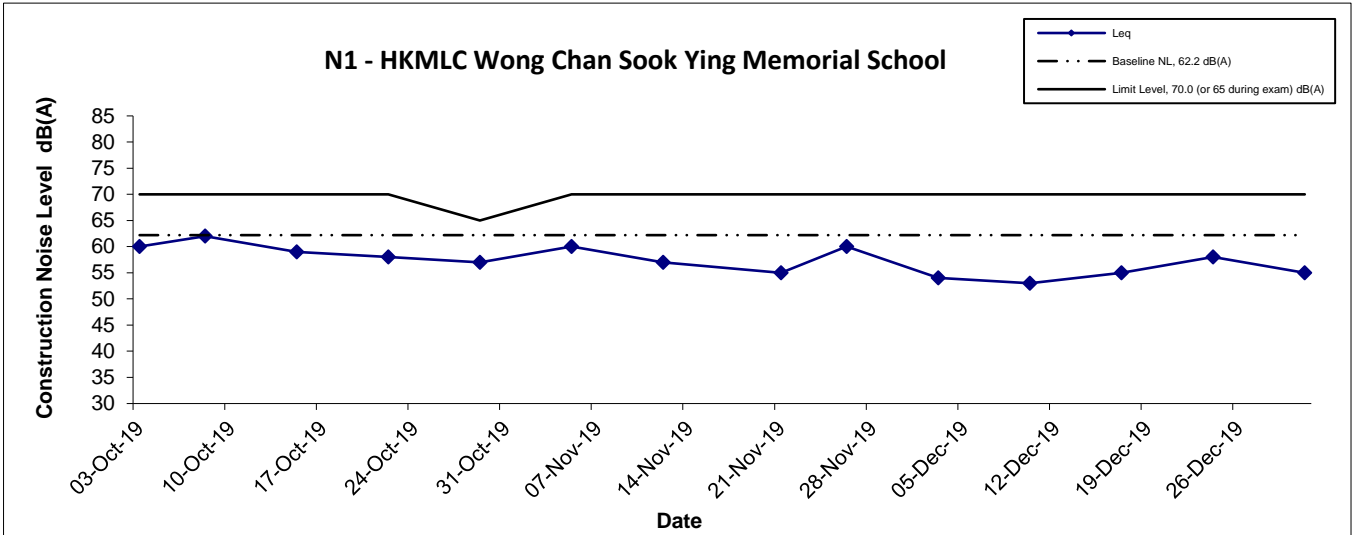
N3 - No.159 Mai Po San Tsuen							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Level	Construction Noise Level
			L eq	L10	L 90	L eq	L eq
03/12/2019	13:00	Sunny	72.4	74.8	67.2	68.8	69.9
10/12/2019	13:00	Fine	71.0	74.5	68.2		67.0
17/12/2019	13:00	Sunny	72.9	74.4	69.3		70.8
24/12/2019	15:04	Sunny	71.4	73.9	67.4		67.9
31/12/2019	13:00	Cloudy	71.1	73.9	67.9		67.2

N5 - Block 2, Dills Corner Garden							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L eq	L10	L 90	L eq	L eq
03/12/2019	15:00	Sunny	72.6	75.2	70.4	70.7	68.1
10/12/2019	15:00	Fine	73.2	74.9	70.3		69.6
17/12/2019	15:00	Sunny	72.0	74.5	67.3		66.1
24/12/2019	16:11	Sunny	72.4	75.0	68.1		67.5
31/12/2019	15:00	Cloudy	72.8	75.6	69.1		68.6

N6 - Home of Loving Faithfulness							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L eq	L10	L 90	L eq	L eq
03/12/2019	16:00	Sunny	72.0	74.8	69.3	72.0	72 measured $\leq$ Baseline
10/12/2019	16:00	Fine	71.6	74.5	69.3		71.6 measured $\leq$ Baseline
17/12/2019	15:45	Sunny	71.2	73.9	68.2		71.2 measured $\leq$ Baseline
24/12/2019	17:00	Sunny	71.3	74.6	68.2		71.3 measured $\leq$ Baseline
31/12/2019	16:00	Cloudy	72.2	75.0	69.3		58.7

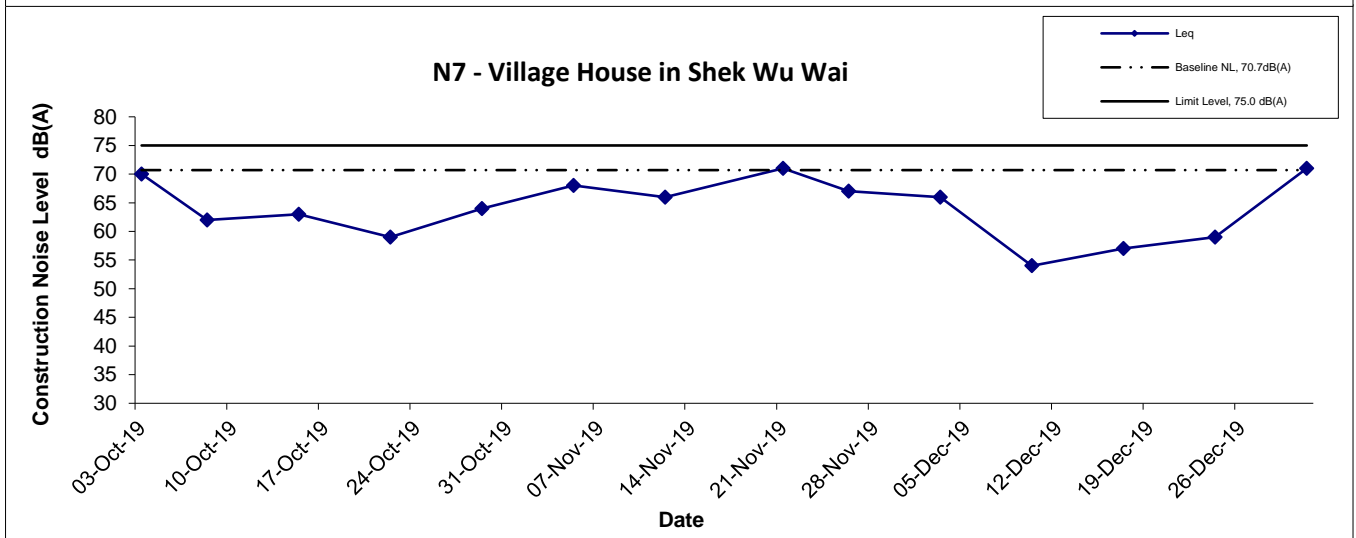
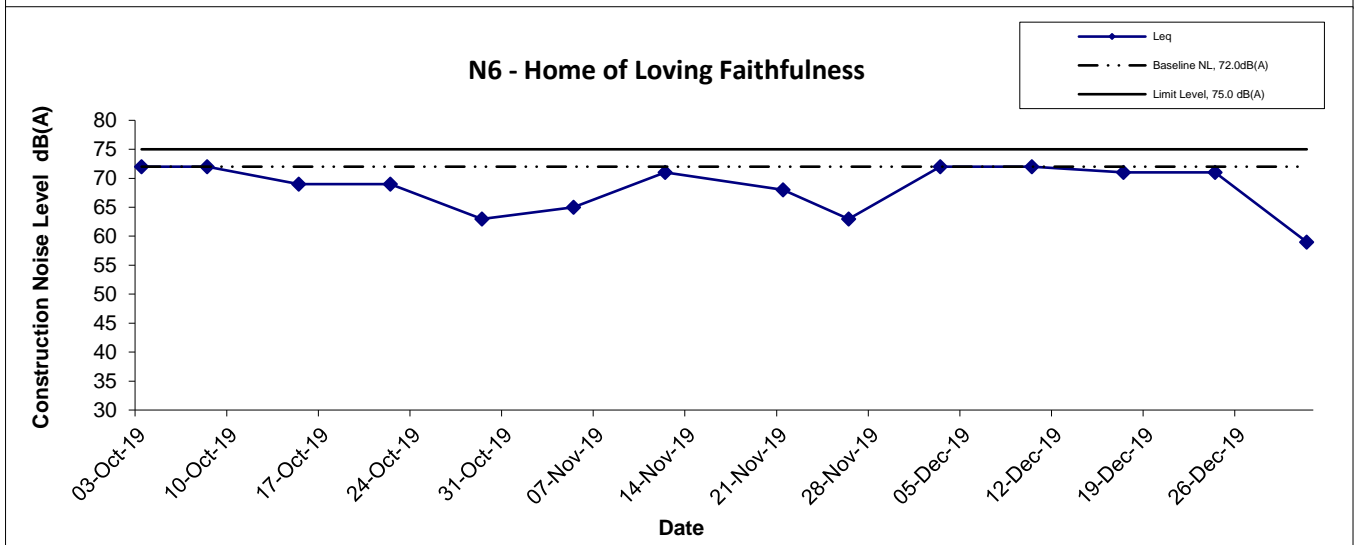
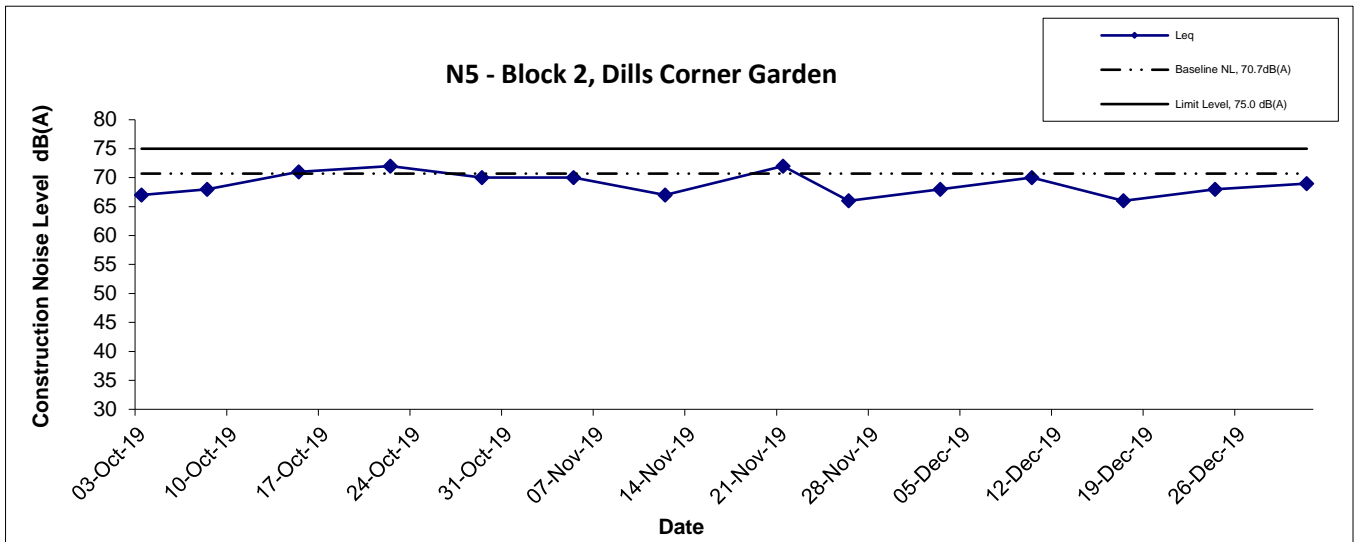
N7 - Village House in Shek Wu Wai							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L eq	L10	L 90	L eq	L eq
03/12/2019	14:00	Sunny	71.9	73.8	66.8	70.7	65.7
10/12/2019	14:00	Fine	70.8	72.9	68.5		54.4
17/12/2019	14:00	Sunny	70.9	72.6	68.1		57.4
24/12/2019	14:00	Sunny	71.0	73.4	67.3		59.2
31/12/2019	14:00	Cloudy	70.5	73.4	68.1		70.5 measured $\leq$ Baseline

# Noise Levels



Title Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction  Graphical Presentation of Construction Noise Monitoring Results	Scale N.T.S	Project No. MA16036	
	Date Dec 19	Appendix E	

## Noise Levels



Title Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction  Graphical Presentation of Construction Noise Monitoring Results	Scale N.T.S	Project No. MA16036	CINOTECH
	Date Dec 19	Appendix E	

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**APPENDIX F**  
**SUMMARY OF EXCEEDANCE**

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**Agreement No. CE 67/2015 (HY)**

**Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction**

**Appendix F – Summary of Exceedance**

**Exceedance Report for Contract No. YL/2015/01 – Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works**

**(A) Exceedance Report for Construction Noise  
(NIL in the reporting month)**

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**APPENDIX G  
SITE AUDIT SUMMARY**

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Agreement No. CE 67/2015 (HY)

Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction

Contract No. YL/2015/01

Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

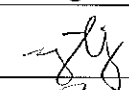
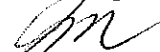
Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	191205
Date	5 December 2019 (Thursday)
Time	09:45 – 12:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
191023-R2 191106-R1 191120-R2 191205-R2  191205-R1	<b>B. Water Quality</b> No environmental deficiency was identified during site inspection.	C7 C7 C7 C8  E4
	<b>C. Air Quality</b> • Stockpile of dusty materials should be covered or kept wet at Portion D. • Stockpile of dusty materials should be covered by impervious materials to prevent dust generation at Portion I. • Stockpile of dusty materials should be covered at Subway A. • The public road around the site entrance should be kept cleaned; the wheels of site vehicles should be washed before leaving the site area at Portion J.	
	<b>D. Construction Noise Impact</b> No environmental deficiency was identified during site inspection.	
	<b>E. Waste / Chemical Management</b> • Accumulation of construction waste should be avoided at Portion J.	
	<b>F. Ecology and Fisheries</b> No environmental deficiency was identified during site inspection.	
	<b>G. Landscape &amp; Visual</b> No environmental deficiency was identified during site inspection.	
	<b>H. Permits/Licences</b> No environmental deficiency was identified during site inspection.	
	<b>I. Others</b> Follow up on the previous session (Ref. No: 191127), follow up actions are needed to be reviewed for item 191023-R2, 191106-R1 and 191120-R2. Item 191030-R2 and 191114-R1 were rectified.	

	Name	Signature	Date
Recorded by	Mr. Eric Yan		5 December 2019
Checked by	Ms. Jennifer Mok		5 December 2019

Agreement No. CE 67/2015 (HY)

Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction

Contract No. YL/2015/01

Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

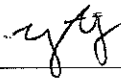

Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	191212
Date	12 December 2019 (Thursday)
Time	09:45 – 12:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
	<b>B. Water Quality</b>	
	No environmental deficiency was identified during site inspection.	
	<b>C. Air Quality</b>	
191023-R2	• Stockpile of dusty materials should be covered or kept wet at Portion D.	C7
191120-R2	• Stockpile of dusty materials should be covered at Subway A.	C7
191205-R2	• The public road around the site entrance should be kept cleaned; the wheels of site vehicles should be washed before leaving the site area at Portion J.	C8
191212-R1	• There should be sandbags around the dusty activities to prevent dust emission outside the site boundary at Subway D.	C12
	<b>D. Construction Noise Impact</b>	
	No environmental deficiency was identified during site inspection.	
	<b>E. Waste / Chemical Management</b>	
191205-R1	• Accumulation of construction waste should be avoided at Portion J.	E4
	<b>F. Ecology and Fisheries</b>	
	No environmental deficiency was identified during site inspection.	
	<b>G. Landscape &amp; Visual</b>	
	No environmental deficiency was identified during site inspection.	
	<b>H. Permits/Licences</b>	
	No environmental deficiency was identified during site inspection.	
	<b>I. Others</b>	
	Follow up on the previous session (Ref. No: 191205), follow up actions are needed to be reviewed for item 191023-R2, 191120-R2 and 191205-R1&R2. Item 191106-R1 was rectified.	

	Name	Signature	Date
Recorded by	Mr. Eric Yan		12 December 2019
Checked by	Ms. Betty Choi		12 December 2019



Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	191218
Date	18 December 2019 (Wednesday)
Time	09:45 – 12:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
	<b>B. Water Quality</b>	
	No environmental deficiency was identified during site inspection.	
	<b>C. Air Quality</b>	
191023-R2	• Stockpile of dusty materials should be covered or kept wet at Portion D.	C7
191120-R2	• Stockpile of dusty materials should be covered at Subway A.	C7
191205-R2	• The public road around the site entrance should be kept cleaned; the wheels of site vehicles should be washed before leaving the site area at Portion J.	C8
191212-R1	• There should be sandbags around the dusty activities to prevent dust emission outside the site boundary at Subway D.	C12
191218-R2	• The public road should be watered or placed sandbags around the site boundary to prevent dust generation at Portion B.	C5
	<b>D. Construction Noise Impact</b>	
	No environmental deficiency was identified during site inspection.	
	<b>E. Waste / Chemical Management</b>	
191205-R1	• Accumulation of construction waste should be avoided at Portion J.	E4
191218-R1	• Accumulation of general refuse should be avoided at Portion B.	E1
191218-R3	• Construction waste should be reused or removed by at Bridge B.	E4
191218-R4	• Rubbish should be disposed properly at Bridge B.	E1
	<b>F. Ecology and Fisheries</b>	
	No environmental deficiency was identified during site inspection.	
	<b>G. Landscape &amp; Visual</b>	
	No environmental deficiency was identified during site inspection.	
	<b>H. Permits/Licences</b>	
	No environmental deficiency was identified during site inspection.	
	<b>I. Others</b>	
	Follow up on the previous session (Ref. No: 191212), follow up actions are needed to be reviewed for item 191023-R2, 191120-R2, 191205-R1&R2 and 191212-R1.	
	No environmental observations improved/rectified during the environmental site inspection.	

	Name	Signature	Date
Recorded by	Mr. Eric Yan		18 December 2019
Checked by	Ms. Jennifer Mok		18 December 2019

Agreement No. CE 67/2015 (HY)

Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction

Contract No. YL/2015/01

Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

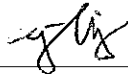

Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	191224
Date	24 December 2019 (Tuesday)
Time	09:45 – 12:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
	<b>B. Water Quality</b>	
	No environmental deficiency was identified during site inspection.	
	<b>C. Air Quality</b>	
191120-R2	• Stockpile of dusty materials should be covered at Subway A.	C7
191212-O1	• There should be sandbags around the dusty activities to prevent dust emission outside the site boundary at Subway D.	C3, 12
191224-R2	• Stockpile of dusty materials and exposed earth should be covered or kept wet at Portion D.	C7
	<b>D. Construction Noise Impact</b>	
	No environmental deficiency was identified during site inspection.	
	<b>E. Waste / Chemical Management</b>	
191205-R1	• Accumulation of construction waste should be avoided at Portion J.	E4
191218-R4	• Rubbish should be disposed properly at Bridge B.	E1
191224-R1	• Drip tray should be provided to contain chemicals at Subway A.	E9
	<b>F. Ecology and Fisheries</b>	
	No environmental deficiency was identified during site inspection.	
	<b>G. Landscape &amp; Visual</b>	
	No environmental deficiency was identified during site inspection.	
	<b>H. Permits/Licences</b>	
	No environmental deficiency was identified during site inspection.	
	<b>I. Others</b>	
	Follow up on the previous session (Ref. No: 191218), follow up actions are needed to be reviewed for item 191120-R2, 191212-R1 and 191218-R4.	
	Item 191023-R2, 191205-R1&R2, 191218-R1, R2&R3 were recited.	

	Name	Signature	Date
Recorded by	Mr. Eric Yan		24 December 2019
Checked by	Ms. Jennifer Mok		24 December 2019

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**APPENDIX H**  
**EVENT AND ACTION PLANS**

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## Appendix H - Event and Action Plans

### Event and Action Plan for Construction Noise

EVENT	ACTION			
	ET LEADER	IEC	ER	CONTRACTOR
Action Level being exceeded	<ol style="list-style-type: none"> <li>1. Notify IC(E) and Contractor;</li> <li>2. Carry out investigation;</li> <li>3. Report the results of investigation to the IC(E) and Contractor;</li> <li>4. Discuss with the Contractor and formulate remedial measures;</li> <li>5. Increase monitoring frequency to check mitigation effectiveness.</li> </ol>	<ol style="list-style-type: none"> <li>1. Review the analysed results submitted by the ET;</li> <li>2. Review the proposed remedial measures by the Contractor and advise the ER accordingly;</li> <li>3. Supervise the implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. Require Contractor to propose remedial measures for the analysed noise problem;</li> <li>4. Ensure remedial measures are properly implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Submit noise mitigation proposals to IC(E);</li> <li>2. Implement noise mitigation proposals.</li> </ol>
Limit Level being exceeded	<ol style="list-style-type: none"> <li>1. Notify IC(E), ER, EPD and Contractor;</li> <li>2. Identify source;</li> <li>3. Repeat measurement to confirm findings</li> <li>4. Increase monitoring frequency;</li> <li>5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>6. Inform IC(E), ER and EPD the causes &amp; actions taken for the exceedances;</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly.</li> <li>3. Supervise the implementation of remedial measures</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. Require Contractor to propose remedial measures for the analysed noise problem;</li> <li>4. Ensure remedial measures are properly implemented;</li> <li>5. If exceedance continues, consider what portion of the</li> </ol>	<ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance;</li> <li>2. Submit proposals for remedial actions to IC(E) within 3 working days of notification;</li> <li>3. Implement the agreed proposals;</li> <li>4. Resubmit proposal if problem still not under control;</li> <li>5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.</li> </ol>



## Appendix H - Event and Action Plans

	<p>7. Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results;</p> <p>8. If exceedance stops, cease additional monitoring</p>		<p>work is responsible and instruct the Contractor to stop that portion of the work until the exceedance is abated.</p>	
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**APPENDIX I  
ENVIRONMENTAL MITIGATION  
IMPLEMENTATION SCHEDULE (EMIS)**

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**Appendix I - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
<b>Construction Air Quality</b>			
S.3.6.2	S.3.2.3	All the dust control measures as recommended in the Air Pollution Control (Construction Dust) Regulation, where applicable, should be implemented. Typical dust control measures include:	^
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> <li>The works area for site clearance shall be sprayed with water before, during and after the operation so as to maintain the entire surface wet</li> </ul>	^
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> <li>Restricting heights from which materials are to be dropped, as far as practicable to minimize the fugitive dust arising from unloading/ loading</li> </ul>	^
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> <li>Immediately before leaving a construction site, all vehicles shall be washed to remove any dusty materials from the bodies and wheels. However, all spraying of materials and surfaces should avoid excessive water usage</li> </ul>	^
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> <li>Where a vehicle leaving a construction site is carrying a load of dusty materials, the load shall be covered entirely by clean impervious sheeting to ensure that the dusty materials will not leak from the vehicle</li> </ul>	^
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> <li>Travelling speeds should be controlled to reduce traffic induced dust dispersion and re-suspension within the site from the operating haul trucks</li> </ul>	^
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> <li>Erection of hoarding of not less than 2.4 m high from ground level along the site boundary, where appropriate</li> </ul>	^
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> <li>Any stockpile of dusty materials shall be covered entirely by impervious sheeting; and/or placed in an area sheltered on the top and 4 sides</li> </ul>	#
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> <li>All dusty materials shall be sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet</li> </ul>	#

**Appendix I - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
<b>Construction Noise Impact</b>			
S5.5.11	S4.2.17 (Stage 1 only)	In order to prevent potential cumulative construction noise impacts to NSRs at Mai Po San Tsuen and Palm Springs, the works at the cycle track section (near CHMP5+100m) are recommended to be scheduled to avoid works at the areas near Castle Peak Road of the Proposed Comprehensive Development at Wo Shang Wai (CDWSW) project if the works site of the CDWSW project is less than 300 m away from Castle Peak Road.	N/A
S.5.5.14	S.4.2.2 (Stage 1 only)	The contractor shall liaise with the Yuen Long and Kam Tin Sewerage and Sewage Disposal Stage 2 (YLKTSSD2) and North West New Territories Salt Water Supply (NWNTSWS) works contractors so as to avoid undertaking works concurrently with the works when they are in the close proximity as far as practicable. As a conservative approach, works for the cycle track shall be carried out when the works from the other projects are over 300 m away. The requirements shall be included in the works contracts.	N/A
N/A	N/A (Stage 2 only)	The contractor shall liaise with Yuen Long and Kam Tin Sewerage and Sewage Disposal (YLKSSD), Construction of Cycle Tracks and the associated Supporting Facilities at Nam Sang Wai, Yuen Long (NSWCT), Drainage Improvement at Northern NT - Package A – Drainage Improvement Works in San Tin (Remaining Works) - Investigation, North East New Territories New Development Areas Planning and Engineering Study (Investigation) (NENTNDA) and the Proposed Residential cum Passive Recreational Development within “Recreation” (“REC”) zone and “Residential (Group C)” Zone at Various Lots in DD 104, Yuen Long, N.T. (RCPRD) contractors so as to avoid undertaking works concurrently with their works (refer to S. 4.2.2 of the EM&A Manual for Stage 2 Works).	^

**Appendix I - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
Table 5-7	S.4.2.19	Use of quiet plant (PME): - mini excavator - mobile crane - dump truck - hand-held electric circular saw - concrete lorry mixer - lorry - vibratory poker - asphalt paver - crane mounted auger - road roller - road ripper, excavator mounted	^
S.5.6.2 Table 5-8	S.4.2.19	Noise barrier in the form of site hoarding shall be used for the following PMEs where practicable: - mini excavator - mobile crane - dump truck - hand-held electric circular saw - bar bender - vibrating hammer - generator - concrete lorry mixer - lorry - vibratory poker - asphalt paver - compactor - road roller	^

**Appendix I - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		<ul style="list-style-type: none"> <li>- crane mounted auger</li> <li>- grout mixer</li> <li>- grout pump</li> <li>- drill</li> <li>- road ripper, excavator mounted</li> </ul>	
S.5.6.2	S.4.2.19	Noise enclosure shall be used for the following PME's where practicable: <ul style="list-style-type: none"> <li>- air compressor</li> <li>- hand-held breaker</li> </ul>	N/A (1)
S.5.6.2	S.4.2.19	The barrier / enclosure material's surface mass shall be in excess of 7 kg/m <sup>2</sup> .	^
S.5.6.6	S.4.2.19	Use of alternative quieter plant such as road ripper, excavator mounted instead of handheld breaker during levelling/excavation works.	^
S.5.6.8	S.4.2.19	The Contractor shall adopt the Code of Practice on Good Management Practice to Prevent Violation of the Noise Control Ordinance (Chapter 400) (for Construction Industry) published by EPD	^
S.5.6.8	S.4.2.19	The Contractor shall observe and comply with the statutory and non-statutory requirements and guidelines	^
S.5.6.8	S.4.2.19	Before commencing any work, the Contractor shall submit to the project Engineer for approval the method of working, equipment and noise mitigation measures intended to be used at the site	^
S.5.6.8	S.4.2.19	The Contractor shall devise and execute working methods to minimize the noise impact on the surrounding sensitive uses, and provide experienced personnel with suitable training to ensure that those methods are implemented	^
S.5.6.8	S.4.2.19	Noisy equipment and noisy activities should be located as far away from the NSRs as is practical	^

**Appendix I - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

<b>EIA Ref.</b>	<b>EM&amp;A Ref.</b>	<b>Mitigation Measures</b>	<b>Status</b>
S.5.6.8	S.4.2.19	Unused equipment should be turned off. PME should be kept to a minimum and the parallel use of noisy equipment / machinery should be avoided	^
S.5.6.8	S.4.2.19	Regular maintenance of all plant and equipment	^
S.5.6.8	S.4.2.19	Material stockpiles and other structures should be effectively utilised as noise barriers, where practicable	N/A
S.5.6.8	S.4.2.19	The Contractor shall liaise with the schools that are located near the works sites regarding their examination period and schedule the noisy works to avoid the examination period as far as possible.	^

**Appendix I - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
<b>Construction Water Quality</b>			
S.6.6.1	S.5.2.4	Mitigation measures should be implemented to prevent the uncontrolled discharge of wastewater from the construction site in accordance with Practice Note for Professional Persons ProPECC PN1/94 - Construction Site Drainage	^
S.6.6.1	S.5.2.4	Surface run-off from the construction sites will be directed into storm drains via adequately designed wastewater treatment facilities such as sand traps, silt traps and sediment settling basins. This is important for works immediately along the Kam Tin River, Ngau Tam Mei Main Drainage Channel, River Beas and Shek Sheung River	^
S.6.6.1	S.5.2.4	Channels, earth bunds or sand bag barriers will be provided on-site to properly direct stormwater to the above-mentioned facilities	^
S.6.6.1	S.5.2.4	Existing silt removal facilities, channels and manholes along roads and pedestrian walkways will be maintained and the deposited silt and grit will be removed regularly, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times	^
S.6.6.1	S.5.2.4	Other manholes (including any newly constructed ones) will be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system	^
S.6.6.1	S.5.2.4	Open stockpiles of materials on site will be avoided or where unavoidable covered with tarpaulin or similar fabric during rainstorms. Measures will be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system	^
S.6.6.1	S.5.2.4	Where possible, works entailing soil excavation will be minimized during the rainy season (i.e. April to September);	^
S.6.6.1	S.5.2.4	Where applicable, final earthworks surfaces/ slopes will be well compacted and hydro-seeded following completion to prevent erosion	N/A



**Appendix I - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

<b>EIA Ref.</b>	<b>EM&amp;A Ref.</b>	<b>Mitigation Measures</b>	<b>Status</b>
S.6.6.1	S.5.2.4	During construction works, chemical toilets will be provided for the use of site staff. These will be provided by a licensed contractor, who will be responsible for appropriate disposal and maintenance of the effluent	^
S.6.6.1	S.5.2.4	Works adjacent to the fishponds near Mai Po San Tsuen should be avoided as far as possible during the wet season to avoid runoff into the fishponds	^
S.6.6.1	S.5.2.4	Wastewater from site facilities (such as toilets) should be discharged to foul sewer, where available. Chemical toilets will be considered where there is no foul sewer connection. There is not expected to be a temporary canteen.	^
S.6.6.1	S.5.2.4	All site discharges within Water Control Zones must comply with the terms and conditions of a valid discharge licence issued by EPD	^
S.6.6.1	S.5.2.4	Vehicle wheel washing facilities should be provided, where applicable, at the site exit such that mud, debris, etc. deposited onto the vehicle wheels or body can be washed off before the vehicles are leaving the site area	^
S.6.6.1	S.5.2.4	Section of the road between the wheel washing bay and the public road should be paved with backfill to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains	^
S.6.6.1	S.5.2.4	The project may occasionally involve the handling of fuel and generates chemical wastes. It must be ensured that all fuel tanks and chemical storage are sited on sealed areas and provided with locks	^
S.6.6.1	S.5.2.4	The storage areas will be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank to prevent accidentally spilled oil, fuel or chemicals from reaching the receiving waters	#
S.6.6.1	S.5.2.4	Oil and grease removal facilities will be provided where appropriate, for example, in area near plant workshop/ maintenance areas	N/A

**Appendix I - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.6.6.1	S.5.2.4	Chemical waste arising from the site should be properly stored, handled, treated and disposed of in compliance with the requirements stipulated under the Waste Disposal (Chemical Waste) (General) Regulation	^
-	S.5.2.7 (Stage 1 only)	The construction work of cycle bridge at Shek Sheung River is not recommended to be carried out during wet seasons (April to October), and the dry weather flow will be diverted to avoid entering the works area. In order to further protect the river water quality from disturbance, the construction work especially excavation works, will be surrounded by cofferdams to ensure the works will be carried out in a dry condition to prevent water pollution to the river.	^
N/A	S.5.2.4 (Stage 2 only)	Stream decking is recommended to be carried out during dry weather condition. To prevent disturbance to the river water quality, measures will be taken to ensure the works to be carry out in a dry condition to prevent water pollution to the river, such as sandbag barriers.	^
N/A	S.5.2.6 (Stage 2 only)	Based on the current available information, the tentative programmes of some construction works for the Agreement No. CE 57/2011 (DS) Drainage Improvement at Northern NT - Package A Drainage Improvement Works in San Tin (Remaining Works) - Investigation (DIST) and the Construction of Cycle Tracks and the associated Supporting Facilities at Nam Sang Wai, Yuen Long (NSWCT) projects may overlap with Stage 2 cycle track construction works. It is recommended that the Contractor should liaise with the project contractor(s) of the DIST and the NSWCT projects to schedule the construction works and allow programme phrasing to avoid major concurrent activities to be undertaken simultaneously in the vicinity.	^

Appendix I - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
<b>Construction Waste Management</b>			
S.7.4.1	S.6.2.1 – S.6.2.4	An on-site environmental co-ordinator employed by the Contractor should be identified at the outset of the works. Prior to commencement of Project works, the co-ordinator shall prepare a WMP in accordance with the requirements set out in the ETWB TCW No. 19/2005, Waste Management on Construction Sites, for the ER’s approval. The WMP shall include monthly and yearly Waste Flow Tables (“WFT”) that indicate the amounts of waste generated, recycled and disposed of (including final disposal site), and which should be regularly updated;	^
S.7.4.1	S.6.2.6	Given the potential for secondary environmental impacts (dust, noise, water quality and visual impacts), mitigation measures are required to ensure proper handling, storage, transportation and disposal of materials at the outset and throughout the construction phase of the project	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>The reuse/ recycling of all materials on site shall be investigated and exhausted prior to treatment/ disposal off-site</li> </ul>	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>Good site practices shall be adopted from the commencement of works to avoid the generation of waste, reduce cross contamination of waste and to promote waste minimization</li> </ul>	#
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>All waste materials shall be sorted on-site into inert and non-inert C&amp;D materials, and where the materials can be recycled or reused, they shall be further segregated. Inert material, or public fill will comprise stone, rock, masonry, brick, concrete and soil which is suitable for land reclamation and site formation whilst non-inert materials include all other wastes generated from the construction process such as plastic packaging and vegetation (from site clearance)</li> </ul>	^

**Appendix I - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>The Contractor shall be responsible for identifying what materials can be recycled/ reused, whether on-site or off-site. In the event of the latter, the Contractor shall make arrangements for the collection of the recyclable materials. Any remaining non-inert waste shall be collected and disposed of to the Public Filling Areas whilst any inert C&amp;D materials shall be re-used on site as far as possible. Alternatively, if no use of the inert material can be found onsite, the materials can be delivered to a Public Fill Area or Public Fill Bank after obtaining the appropriate licence</li> </ul>	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>In order to monitor the disposal of C&amp;D material and solid wastes at public filling facilities and landfills, and control fly-tipping, a trip-ticket system shall be implemented by the Contractor, in accordance with the contract and the requirements of DEVB Technical Circular (Works) No. 6/2010 “Trip Ticket System for Disposal of Construction and Demolition Material”.</li> </ul>	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>Under the Waste Disposal (Chemical Waste) (General) Regulation, the Contractor shall register as a Chemical Waste Producer if chemical wastes such as spent lubricants and paints are generated on site. Only licensed chemical waste collectors shall be employed to collect any chemical waste generated at site. The handling, storage, transportation and disposal of chemical wastes shall be conducted in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes and A Guide to the Chemical Waste Control Scheme both published by EPD;</li> </ul>	^

**Appendix I - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>A sufficient number of covered bins shall be provided on site for the containment of general refuse to prevent visual impacts and nuisance to the sensitive surroundings. These bins shall be cleared daily and the collected waste disposed of to the refuse transfer station. Further to the issue of ETWB Technical Circular (Works) No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness, the Contractor is required to maintain a clean and hygienic site throughout the project works;</li> </ul>	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>All chemical toilets, if any, shall be regularly cleaned and the night-soil collected and transported by a licensed contractor to a Government Sewage Treatment Works facility for disposal; and</li> </ul>	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>Toolbox talks should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling.</li> </ul>	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>The Contractor shall comply with all relevant statutory requirements and guidelines and their updated versions that may be issued during the course of project construction.</li> </ul>	^

Appendix I - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
<b>Land Contamination</b>			
S.8.7.2 – S.8.7.3	S.7.2.2	Preparation of Contamination Assessment Plan (CAP), which should be submitted to EPD for endorsement, prior to investigation. Site investigation and sampling works in accordance with the approved CAP. If contamination is identified, Contamination Assessment Report (CAR) and Remediation Action Plan (RAP) shall be prepared and submitted for EPD’s approval.	^
S.8.7.5	S.7.3.1	The following control measures should be implemented when handling identified contaminated materials: <ul style="list-style-type: none"> <li>• General site safety shall be enforced to include basic practices such as the use of safety boots, hard hats, coveralls, gloves and eye protection;</li> <li>• Avoid skin contact, ingestion and inhalation of excavated contaminated soils. Basic personal protective equipment should be used;</li> <li>• Site staff and workers shall be given adequate training and instructions specific to the potential hazards, their health and safety responsibilities and safe working practice including basic personal hygiene;</li> <li>• Measures shall be implemented to prevent non-workers from approaching the identified works areas in order to avoid exposure to contaminants.</li> </ul>	N/A
S.8.7.5	S.7.3.1	<u>Management of Contaminated Soils</u> <ul style="list-style-type: none"> <li>• Where appropriate, the use of bulk handling equipment should be maximised to reduce the potential contacts between excavated contaminated materials and associated workers;</li> <li>• The plants for excavation and transportation of the material shall be cleaned prior to leaving the Site;</li> <li>• All temporary stockpiles of the materials shall be completely covered with plastic/ tarpaulin sheets, particularly during heavy rainstorms. The stockpiling areas should be concrete-paved or lined with its perimeter constructed of a concrete</li> </ul>	N/A

**Appendix I - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

<b>EIA Ref.</b>	<b>EM&amp;A Ref.</b>	<b>Mitigation Measures</b>	<b>Status</b>
		<p>bund where appropriate in order to avoid any leachate from migrating out of the area; Any vehicles transporting the material shall be suitably covered to limit potential dust emissions;</p> <ul style="list-style-type: none"> <li>• Surface waters shall be diverted around any contaminated areas or stockpiles to minimize potential runoff into excavations, as runoff might increase the volume of contaminated water requiring disposal and suspended solids in the wastewater stream</li> </ul>	

Appendix I - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
<b>Ecological &amp; Fisheries Impact</b>			
S.9.11.4	S.8.2.2	Prior to tree felling, survey inspections should be made for their suitability for roosting bats. Once these trees have been highlighted, then appropriate checks of each tree for bats should be made prior to removal as a precautionary measure.	^
S.9.11.7	S.8.2.3 (Stage 1 only)	<i>In situ</i> compensation planting at the Information Kiosk and R9 should occur to provide continuing function of the bamboo and plantation (see Figure 8-1 of EM&A Manual for Stage 1 Works (Year 2015)). It is recommended that the Information Kiosk and Resting Station R9 should be designed sympathetically to the natural surroundings. Compensation planting along the Sheung Yue River and Shek Sheung River including at R9 and Information Kiosk could be implemented as appropriate.	N/A
S.9.11.17 – S.9.11.19	S.8.2.4 (Stage 1) S.8.2.3 (Stage 2)	For the Kam Tin section and the Long Valley section of the Project, construction works shall not be carried out during the wet season (April to October) which is considered to have no significant impact to wildlife and to avoid the breeding season of Greater Painted-snipes at Long Valley. This is also to prevent any site run-off to adjacent water channels and fishponds including those fishponds along San Tin Tsuen Road.	^
S.9.11.23	S.8.2.4 (Stage 2 only)	Construction of the section in the vicinity of Mai Po Village SSSI shall be undertaken beyond the recognised breeding seasons for ardeids in Hong Kong to prevent any potential disturbance to the nesting birds, i.e., from September to February.	^
-	S.8.2.5 (Stage 1 only)	In order to avoid any adverse impact to the healthiness of the bamboo grove from dust-coating on leave next to the R9 and hence affect the breeding habitat of the very rare Dark Brown Ace, a dust barrier should be installed between the bamboo and the construct site.	N/A



**Appendix I - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
-	S.8.2.6 (Stage 1 only)	For the lower Shek Sheung River, construction works should be scheduled in dry season to minimize the disturbance to the foraging ardeids and the Quiet PME shall be implemented practicable to minimize the noise disturbance to the foraging ardeids.	^
S.10.5.4	S.8.2.7 (Stage 1) S.8.2.5 (Stage 2)	To prevent any negative impact to water quality as a result of site run-off, good site practice must be employed at all times, particularly in the areas close to fishponds. Practice Note for Professional Persons ProPECC PN1/94 – Construction Site Drainage shall be implemented.	^
S.10.5.4	S.8.2.8 (Stage 1) S.8.2.6 (Stage 2)	Along Pok Wai South Road, once the final construction sequencing is known, liaison with local residents and aquaculturists should be implemented in order to minimise temporary road blockages and to identify the best timing for works along this area.	N/A
S.10.5.3	S.8.2.9 (Stage 1) S.8.2.7 (Stage 2)	During wet seasons, surface run-off from the construction sites will need to be directed into storm drains via adequately designed wastewater treatment facilities such as sand traps, silt traps, oil interceptors and sediment settling basins. Works adjacent to the fishponds near NTMDC inside the Wetland Conservation Area (WCA) and Mai Po San Tsuen should be avoided, as far as practicable, during the wet season to avoid runoff into the fishponds.	^
-	S.8.2.10 (Stage 1 only)	The use of signage at the Resting Stations to indicate that wildlife may be present and that noise levels and activities should be kept to a minimum could be implemented. This may help to reduce any potential disturbance to wildlife from human activity. At Long Valley, to mitigate against potential indirect human disturbance to Greater Painted-snipe, planting could be undertaken as appropriate along the proposed cycle track at meander 8 to act as screening.	N/A

**Appendix I - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

<b>EIA Ref.</b>	<b>EM&amp;A Ref.</b>	<b>Mitigation Measures</b>	<b>Status</b>
S.9.11.27	S.8.2.11 (Stage 1) S.8.2.9 (Stage 2)	<p>The following good work practices are recommended: ■</p> <p>Avoid soil storage against trees;</p> <ul style="list-style-type: none"> <li>■ Fence off any potentially ecologically sensitive areas;</li> <li>■ Delineation of works area to prevent encroachment onto adjacent habitats;</li> <li>■ Reinstatement of habitat after works;</li> <li>■ No on-site burning of waste; Waste and refuse in appropriate receptacles;</li> <li>■ Staff training/toolbox talks for site work near Long Valley and WCA – important areas for birds therefore staff should reduce amount of noise whilst working and during breaks where possible; ■ Regular ecological checks; and</li> <li>■ Silt/ Sediment/ Oil traps for drainage to prevent site run-off</li> </ul>	^

**Appendix I - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
<b>Cultural Heritage Impact</b>			
S.11.5.1	S.9.2.1	Care should be taken during the construction stage to report any signs of possible discovery of artefacts.	N/A
<b>Landscape and Visual</b>			
<i>Detailed Design Phase</i>			
Table 12-11	CP1	A detailed tree survey to be carried out by the IDC Consultant during the detailed design stage. The recommendations of the preliminary tree survey shall be reviewed and confirmed during the detailed survey. Should tree felling be required, tree felling application is required in accordance with DEVB Technical Circular (Works) No. 10/2013 Tree Preservation	^
S.12.9.3	CP6	It has been agreed that the proposed landscape areas under DSD's 4215DS project which falls within the cycle track works area will be implemented by Project proponent of this Project in form of roadside amenity areas after completion of the cycle track. During the detailed design, the works programme of this Project shall be coordinated with the above-mentioned DSD project in order to avoid abortive planting works and impact on landscape resources between the interface of different public works. The proposed landscape areas under 4215DS falled within the cycle track works area shall be incorporated in the final landscape design of this Project.	^
S.12.10.1	OP1	The Design Concept Drawings and Conceptual Landscape Master Plan of cycle track and associated facilities demonstrate landscape and visual mitigation strategies and design measures including integrated design approach, amenity and compensatory planting proposals and treatment of retaining structure and slopes have been recommended in the EIA. More detailed landscape and compensatory planting proposals shall be developed by IDC consultants at later stage during detailed design and construction phase of this project following the completion of the detailed Tree	^

**Appendix I - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		Survey Report and approval from relevant departments at that stage	
<i>Construction Phase</i>			
Table 12-11	CP1.1	To retain trees, which have high amenity or ecology value and contribute most to the landscape and visual amenity of the site and its immediate environs.	^
	CP1.2	Creation of precautionary area around trees to be retained equal to half of the trees canopy diameter. Precautionary area to be fenced.	^
	CP1.3	Prohibition of the storage of materials including fuel, the movement of construction vehicles, and the refuelling and washing of equipment including concrete mixers within the precautionary area.	^
	CP1.4	Phased segmental root pruning for trees to be retained and transplanted over a suitable period (determined by species and size) prior to lifting or site formation works which affect the existing rootball of trees identified for retention. The extent of the pruning will be based on the size and the species of the tree in each case.	^
	CP1.5	Pruning of the branches of existing trees identified for transplantation and retention to be based on the principle of crown thinning maintaining their form and amenity value.	^
	CP1.6	The watering of existing vegetation particularly during periods of excavation when the water table beneath the existing vegetation is lowered.	^
	CP1.7	The rectification and repair of damaged vegetation following the construction phase to its original condition prior to the commencement of the works or replacement using specimens of the same species, size and form where appropriate to the design intention of the area affected.	N/A

**Appendix I - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
	CP1.8	All works affecting the trees identified for retention and transplantation will be carefully monitored. This includes the key stages in the preparation of the trees, the implementation of protection measures and health monitoring throughout the construction period.	^
	CP1.9	Detailed landscape and tree preservation proposals will be submitted to the relevant government departments for approval under the lease conditions and in accordance with ETWB TCW No. 2/2004 and WB Technical Circular No. 14/2002.	N/A
	CP2.0	The tree preservation works should be implemented by approved Landscape Contractors and inspected and approved on site by a qualified Landscape Architect. A tree protection specification would be included within the contract documents.	^
	CP2.1	Topsoil disturbed during the construction phase should be tested using a standard soil testing methodology and where it is found to be worthy of retention stored for re-use.	^
	CP2.2	The soil will be stockpiled to a maximum height of 2m and will be either temporarily vegetated with hydroseeded grass during construction or covered with a waterproof covering to prevent erosion.	^
	CP2.3	The stockpile should be turned over on a regular basis to avoid acidification and the degradation of the organic material, and reused after completion. Alternatively, if this is not practicable, it should be considered for use elsewhere, including other projects.	^
	CP3.1	Where appropriate to the final design the landscape of these works areas should be restored following the completion of the construction phase.	N/A
	CP3.2	Construction site controls should be enforced including the storage of materials, the location and appearance of site accommodation and the careful design of site lighting to prevent light spillage.	^

**Appendix I - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

<b>EIA Ref.</b>	<b>EM&amp;A Ref.</b>	<b>Mitigation Measures</b>	<b>Status</b>
	CP3.3	Screen the works area during the construction phase through the use of decorative hoarding along the site boundary facing adjacent VSRs	^
	CP4.1	Replanting of disturbed vegetation should be undertaken at the earliest possible stage of the construction phase	^
	CP4.2	Use of native plant species predominantly in the planting design for the buffer areas.	^
	CP4.3	The tree planting works should be implemented by approved Landscape Contractors and inspected and approved on site by a qualified Landscape Architect. A tree planting specification would be included within the contract documents	^
	CP5.1	The tree transplanting works should be implemented by approved Landscape Contractors and inspected and approved on site by a qualified Landscape Architect. A tree protection / transplanting specification would be included within the contract documents.	^
	CP5.2	The implementation program should reserve enough time for advance tree transplanting preparation.	^

Remarks:	EM&A Manual for Stage 1 Works under EP-450/2013/A (App No.: VEP-478/2015)		
	EM&A Manual for Stage 2 Works under EP-501/2015 (App No.: AEP-501/2015)		
	^	Compliance of mitigation measure;	X Non-compliance of mitigation measure;
	N/A	Not Applicable at this stage; N/A(1) Not observed;	● Non-compliance but rectified by the contractor;
	*	Recommendation was made during site audit but improved/rectified by the contractor.	# Recommendation was made during site audit but not yet improved/rectified by the contractor.

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**APPENDIX J  
SUMMARIES OF ENVIRONMENTAL  
COMPLAINT, WARNING, SUMMON  
AND NOTIFIATION OF SUCCESSFUL  
PROSECUTION**

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Agreement No. CE 67/2015 (HY)

## Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction

### Appendix J – Record of environmental complaint, warning, summon and notification of successful prosecution

Reporting Month: December 2019

Contract No. YL/2015/01

### Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

Table I - Record of Environmental Complaints

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
1	Pok Wai South Road	8 <sup>th</sup> November 2018	The complaint is filed against extensive dusty stockpile being placed at the works site of Pok Wai South Road (Portion A), causing dust nuisance and affecting the passer-by and residents.	<ul style="list-style-type: none"><li>• Cover all the stockpile when stockpiling works was not being conducted;</li><li>• Arrange on-site personnel to wash the wheels of the vehicles immediately before they leave the site area; and</li><li>• Increase the frequency of water spraying on the stockpiles to dampen the dusty surface.</li></ul>	CIR was submitted in December
2	Mai Po San Tsuen (Portion D)	20 <sup>th</sup> December 2018	The complaint is filed against extensive dust nuisance by construction activities generated sand and dust, and may have caused the nearby village roads to look dusty and unclean.	<ul style="list-style-type: none"><li>• Increase the frequency of water spraying on the paved roads to minimize the dust generation; and</li><li>• Cover the temporary cut slopes by tarpaulin before any excavation works commence.</li></ul>	CIR was submitted in December
3	Mai Po San Tsuen (Portion D)	21 <sup>st</sup> December 2018	The complaint is filed against site effluent being pumped and discharge into the nearby surface channel from the same construction site.	<ul style="list-style-type: none"><li>• Cover the temporary cut slopes by tarpaulin before any excavation works commence.</li><li>• Clean the water in the channel and all broken covers are replaced by new decking covers</li><li>• 3 weirs have been installed at the downstream</li><li>• Use of sedimentation tank prior to discharge</li><li>• New cut-off plate next to the channel will be raised 200mm to prevent potential run-off</li><li>• A filter with aggregate is placed at the side channel</li></ul>	CIR was submitted in February



**Agreement No. CE 67/2015 (HY)**

**Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction**

**Appendix J – Record of environmental complaint, warning, summon and notification of successful prosecution**

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				<ul style="list-style-type: none"> <li>Water and wastewater filtration system is installed to treat the site effluent.</li> </ul>	
4	Yau Mei San Tsuen	5 <sup>th</sup> December 2019	The complaint is filed against several stockpiles of dusty materials were not covered in the construction site ( Yau Mei San Tsuen, Portion D) on 19 November 2019, 1300hr. No dust suppression measures were observed on site. Moreover, earth moving by grabber on lorry also generated large amount of dust.	<ul style="list-style-type: none"> <li>Increased the frequency of water spraying on the exposed earth to minimize the dust generation</li> <li>Removed the stockpiles on site</li> <li>Installed sprinklers to keep the site clearance wet</li> </ul>	CIR was submitted in December

**Remarks:** Three environmental complaints were received in the previous reporting period. One environmental complaint was received in this reporting period.

**Table II - Record of Notification of Summon and Successful Prosecution**

Log Ref.	Received Date	Details of summon and prosecution	Status
1	5 <sup>th</sup> November 2019	Carrying out regulatory work not in accordance with the Schedule of the Air Pollution Control (Construction Dust) Regulation.	Acquitted
2	5 <sup>th</sup> November 2019	Constructing a designated project contrary to the condition of environmental permit.	The prosecution was successful

**Remarks:** Two notifications of summon and one successful prosecution were received in the previous reporting period. No notifications of summon nor prosecution was received in this reporting period.

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**APPENDIX K  
SUMMARY OF WASTE GENERATION  
AND DISPOSAL RECORDS**

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**Sang Hing – Kuly Joint Venture**  
**Environmental Management Plan for Contract No. YL/2015/01**  
**Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works**

Name of Department: CEDD

Contract No.: YL/2015/01

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**Monthly Summary Waste Flow Table for 2016 (Year)**

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill*	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
Jan	-	-	-	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	0.01	0.01	0.01	-	0.01
Aug	-	-	-	-	-	-	0.01	0.01	0.01	-	0.01
Sept	0.005	-	-	-	0.005	-	0.01	0.01	0.01	-	0.06
Oct	-	-	-	-	-	-	0.05	0.05	0.05	-	0.04
Nov	0.35	-	-	-	0.35	-	0.05	0.05	0.05	-	0.05
Dec	0.4	-	-	-	0.4	-	0.05	0.05	0.05	-	0.05
Total	0.755	-	-	-	0.755	-	0.18	0.18	0.18	-	0.22

\*Remark: Imported Fill not taken into account of Total Quantity Generated

#Revised Figure

**Sang Hing – Kuly Joint Venture**  
**Environmental Management Plan for Contract No. YL/2015/01**  
**Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works**

Name of Department: CEDD

Contract No.: YL/2015/01

**Monthly Summary Waste Flow Table for 2017 (Year)**

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill*	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
Jan	0.04	-	-	-	0.04	0.124	0.05	0.05	0.05	-	0.06
Feb	0.02	-	-	-	0.02	-	0.05	0.05	0.05	-	0.01
Mar	1.15	-	-	-	1.15	0.369	0.05	0.05	0.05	-	0.02
Apr	0.65	-	-	-	0.65	-	0.05	0.05	0.05	-	0.02
May	0.79	-	-	-	0.79	-	0.05	0.05	0.05	-	0.01
June	1.63	-	-	-	1.63	-	0.05	0.05	0.05	-	0.02
July	1.25	-	-	-	1.25	-	0.05	0.05	0.05	-	0.01
Aug	1.49	-	-	-	1.49	-	0.05	0.05	0.05	-	0.01
Sep	1.15	-	-	-	1.14	0.493	0.05	0.05	0.05	-	0.01
Oct	1.19	-	-	-	1.19	-	0.05	0.05	0.05	-	0.01
Nov	0.79	-	-	-	0.76	-	0.05	0.05	0.05	-	0.03
Dec	3.09	-	-	-	3.07	-	0.05	0.05	0.05	-	0.01
Total	13.24	-	-	-	13.18	0.986	0.6	0.6	0.6	-	0.22

\*Remark: Imported Fill not taken into account of Total Quantity Generated

#Revised Figure

Sang Hing – Kuly Joint Venture  
 Environmental Management Plan for Contract No. YL/2015/01  
 Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

Name of Department: CEDD

Contract No.: YL/2015/01

**Monthly Summary Waste Flow Table for 2018 (Year)**

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill*	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
Jan	4.37	-	-	-	4.36	-	0.05	0.05	0.05	-	0.01
Feb	1.66	-	-	-	1.64	-	0.05	0.05	0.05	-	0.01
Mar	1.85	-	-	-	1.82	-	0.05	0.05	0.05	-	0.01
Apr	3.35	-	-	-	3.31	-	0.05	0.05	0.05	-	0.01
May	0.84	-	-	-	0.82	-	0.01	0.01	0.01	-	0.01
June	0.04	-	-	-	-	-	0.01	0.01	0.01	-	0.04
July	2.75	-	-	-	2.72	-	0.01	0.01	0.01	-	0.03
Aug	1.34	-	-	-	1.32	-	0.01	0.01	0.01	-	0.02
Sept	0.69	-	-	-	0.68	-	0.01	0.01	0.01	-	0.01
Oct	2.99	-	-	-	2.97	-	0.01	0.01	0.01	-	0.01
Nov	4.62	-	-	-	4.61	-	0.01	0.01	0.01	-	0.01
Dec	6.49	-	-	-	6.45	-	0.01	0.01	0.01	-	0.05
Total	30.99	-	-	-	30.70	-	0.28	0.28	0.28	-	0.22
.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.
Total	44.985	-	-	-	44.635	0.986	1.06	1.06	1.06	-	0.66

\*Remark: Imported Fill not taken into account of Total Quantity Generated

#Revised Figure

Sang Hing – Kuly Joint Venture  
 Environmental Management Plan for Contract No. YL/2015/01  
 Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

Name of Department: CEDD

Contract No.: YL/2015/01

**Monthly Summary Waste Flow Table for 2019 (Year)**

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill*	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
Jan	1.13	-	-	-	1.08	-	0.05	0.05	0.05	-	0.05
Feb	0.04	-	-	-	-	-	0.05	0.05	0.05	-	0.04
Mar	0.06	-	-	-	-	-	0.05	0.05	0.05	-	0.06
Apr	0.06	-	-	-	0.03	-	0.05	0.05	0.05	-	0.03
May	0.04	-	-	-	-	-	0.05	0.05	0.05	-	0.04
June	0.03	-	-	-	-	-	0.05	0.05	0.05	-	0.03
July	0.05	-	-	-	-	-	0.05	0.05	0.05	-	0.05
Aug	0.02	-	-	-	-	-	0.05	0.05	0.05	-	0.02
Sep	0.02	-	-	-	-	-	0.05	0.05	0.05	-	0.02
Oct	0.02	-	-	-	-	-	0.05	0.05	0.05	-	0.02
Nov	0.03	-	-	-	-	-	0.05	0.05	0.05	-	0.03
Dec	0.19	-	-	-	1.11	-	0.05	0.05	0.05	-	0.19
Sub-total	1.69	-	-	-	1.11	-	0.60	0.60	0.60	-	0.58
.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.
Total	46.675	-	-	-	45.745	0.986	1.66	1.66	1.66	-	1.24

\*Remark: Imported Fill not taken into account of Total Quantity Generated

#Revised Figure

**Sang Hing – Kuly Joint Venture**  
**Environmental Management Plan for Contract No. YL/2015/01**  
**Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works**

Forecast of Total Quantities of C&D Materials to be Generated from the Contract*										
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
5	2	1	1	1	10	3	3	1	1	3

\*Remark: Figure to be revised if necessary

Notes:

- (1) The performance targets are given in ETWB Technical Circular PS Clause 6(14).
- (2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
- (4) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m<sup>3</sup>. (ETWB Technical Circular PS Clause 5(4)(b) refers).  
 [Delete Note (4) and the table above on the forecast, where inapplicable].