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Report No.: 0064/18/ED/0353A

### **MONTHLY EM&A REPORT**

### August 2019

Client :		Civil Engineering and Development Department, HKSAR	
Contract No.	:	NDO 03/2018	
Contract Name :		Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)	
Report No.	:	0064/18/ED/0353A	

Prepared by 2

Sang Wu

**Reviewed by** 2

Certified by

Cyrus Lai

1

Yorky

David Hung **Environmental Team Leader Fugro Technical Services Limited** 

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A Fugro Group Company



Acuity Sustainability Consulting Limited – Nature & Technologies (HK) Limited Joint Venture



Our ref: ASCL-2018010

Unit 1501, Level 15, Tower I, Metroplaza, 223 Hing Fong Road, Kwai Fong, N.T., Hong Kong.

Attention: Miss FUNG Cannifer

13 September 2019

Dear Miss Fung,

### NE/2017/05 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section) Monthly EM&A Report for August 2019

I refer to the email of ET regarding to the captioned Monthly EM&A Report with report No. 0064/18/ED/0353A, we have no adverse comment on it and verify this monthly report according to section 1.9 of the Environmental Permit with Permit No. EP-463/2013/B

Yours faithfully,

Li Wai Ming Kevin Independent Environmental Checker

cc. CRE – Mr. YU Albert (by email only: albert.yu@aecom.com) CEDD – Mr CHEUNG Andrew (by email only: andrewkwcheung@cedd.gov.hk) Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, N.T., Hong Kong. Tel : +852 2450 8233 Fax : +852 2450 6138 E-mail : matlab@fugro.com Website : www.fugro.com

The EIA Ordinance Register Office Environmental Protection Department 27/F, Southorn Centre, 130 Hennessy Road, Wan Chai, Hong Kong Attn: Ms. LAU Yee Ching, Eva Date 13 September 2019 Our Ref. MCL/ED/0453/2019/C

**BY HAND & E-MAIL** 

Dear Ms. Lau,

### <u>Contract No. NE/2017/05</u> <u>Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)</u>

#### Environmental Permit: EP-463/2013B Submission of Monthly EM&A Report (0064/18/ED/0353A)

Pursuant to EP-463/2013/B Condition 3.4, we hereby submit three hardcopies and two e-copy of the monthly EM&A Report (0064/18/ED/0353A) for your retention. This monthly EM&A Report has been certified by ETL and verified by IEC accordingly.

Thank you for your attention, should there be any comments or queries, please contact our Environmental Team Leader David Hung at 3565-4371.

Yours faithfully, for and on behalf of FUGRO TECHNICAL SERVICES LIMITED

David Hung Environmental Team Leader

C.C.	CEDD	Attn: Mr. Andrew Cheung / Ms. Cannifer Fung (by E-mail)
	AECOM	Attn: Mr. Albert Yu / Mr. Bobby Hung / Mr. Andrew Cheng /
		Ms. Kate Chen / Ms. Catherine Tam (by E-mail)
	IEC	Attn: Mr. Kevin Li / Mr. Tandy Tse (by E-mail)
	CCZJV	Attn: Mr. Chung Sing Chu / Ms. Kimberly Wong / Mr. Alvin Chan (by E-mail)

Encl.







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### EXECUTIVE SUMMARY

- i. The Civil Engineering and Development Department HKSAR has appointed Fugro Technical Services Limited (FTS) to undertake the Environmental Team services for the Project and implement the EM&A works.
- ii. This Monthly EM&A report presents the environmental monitoring and audit works for the period between 1 August 2019 and 31 August 2019. As informed by the Contractor, major activities in the reporting month were summarized as below table:

utilities detectionsutilities detectionsutilities detectionsutilities detectionsutilities detectionsutilities detections• Tree felling / pruning / preservation• Tree felling / pruning / of temporary• Tree felling / pruning / of temporary• Tree felling / pruning / pruning / of temporary• Tree felling / pruning / pruning / pruning / of temporary• Tree felling / pruning / of temporary• Tree felling / pruning / of temporary• Tree felling / pruning / of temporary	70001	Zana O	Zana D	Zana 4	Zana E
<ul> <li>Excavation</li> <li>Underground utilities detections</li> <li>Tree felling / pruning / preservation</li> <li>Construction of temporary</li> <li>Excavation</li> <li>Excavation Underground utilities</li> <li>Underground utilities</li> <li>Underground utilities</li> <li>Underground utilities</li> <li>Tree felling / pruning / proservation</li> <li>Construction of temporary</li> <li>Construction of temporary</li> <li>Excavation</li> <li>Excavation</li> <li>Underground utilities</li> <li>Underground utilities</li> <li>Underground utilities</li> <li>Tree felling / pruning / proservation</li> <li>Construction of temporary</li> <li>Construction of temporary</li> <li>Construction of temporary</li> <li>Excavation</li> <li>Underground utilities</li> <li>Underground utilities</li> <li>Underground utilities</li> <li>Tree felling / pruning / pruning</li> <li>Construction of temporary</li> <li>Construction of temporary</li> <li>Construction of temporary</li> </ul>					
	<ul> <li>Trial Pits Excavation</li> <li>Underground utilities detections</li> <li>Tree felling / pruning / preservation</li> <li>Construction of temporary road and site</li> </ul>	<ul> <li>Trial Pits Excavation</li> <li>Underground utilities detections</li> <li>Tree felling / pruning</li> <li>Construction of temporary road and site access</li> <li>Underground utilities</li> </ul>	<ul> <li>Trial Pits Excavation</li> <li>Underground utilities detections</li> <li>Tree felling / pruning / preservation</li> <li>Construction of temporary road and site access</li> <li>Underground utilities diversion</li> <li>Construction of ELS and piling platform</li> <li>Retaining Wall Construction</li> <li>Central divider</li> </ul>	<ul> <li>Trial Pits Excavation</li> <li>Underground utilities detections</li> <li>Tree felling / pruning</li> <li>Construction of temporary</li> </ul>	<ul> <li>Trial Pits Excavation</li> <li>Underground utilities detections</li> <li>Tree felling / pruning</li> <li>Construction of temporary road and site access</li> <li>Underground utilities</li> </ul>

### **Breaches of the Action and Limit Levels**

- iii. 24-hour and 1-hour TSP impact monitoring were carried out in the reporting month, no Action / Limit Level exceedance was recorded during the period.
- iv. Day time construction noise monitoring was carried out in the reporting month, no Action / Limit Level exceedance was recorded during the period. Regular night time noise monitoring were carried out on 2, 8, 15, 22 and 29 August 2019 respectively and three exceedance cases were recorded between 2300 and 0700 of the next day during the reporting month. After ET's further investigation, as the dominant noise should be the background traffic noise, the noise exceedance cases were considered not project-related.



#### Complaint, Notification of Summons and Successful Prosecution

v. A complaint case was received on 30/8/2019 via 1823 regarding to noise nuisance near Hilton Plaza and Scenery Court at 11:10 pm. The complaint case is still under ET's investigation.

#### **Reporting Changes**

vi. There was no reporting change in the reporting month.

#### **Future Key Issues**

vii. The key issues to be considered in the coming reporting month include:

Potential environmental impacts arising from the above construction activities are mainly associated with construction dust, construction noise, water quality, waste management and landscape and visual impact.



#### 1. INTRODUCTION

#### 1.1 Background

- 1.1.1 Contract No. NE/2017/05 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section) (TPR-ST) (hereafter referred as "the Contract"), is the Works Contract involved the construction of road widening and retrofitting noise barriers on TPR-ST.
- 1.1.2 The Works of road widening on TPR-ST is classified as a designated project (DP) under the Part I of Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO) (Cap. 499). The scale and scope of DP is classified as below:
  - Widening and reconstruction of an approximate 1.2 km long of the existing Tai Po Road (Sha Tin Section) from dual 2-lane to dual 3-lane carriageway; and improvement of the existing Sha Tin Rural Committee Road and its junctions.
- 1.1.3 The Environmental Monitoring and Audit (EM&A) programme under this Contract is governed by the Environmental Permit (EP) (EP No: EP-463/2013/B) and the updated EM&A Manual (Reference No.: 0064/18/ED/0122D). The Works to be executed under this Contract and corresponding EPs include but not be limited to the following main items:
  - (i) Road widening works of TPR-ST:
    - (a) widening of TPR-ST of about 1.1 kilometres between Sha Tin Rural Committee Road (STRCR) and Fo Tan Road from dual two-lane to dual three-lane;
    - (b) modification to the existing diamond interchange at TPR-ST / STRCR (STRCR Interchange);
    - (c) provision of two pedestrian lifts, re-provision of staircase and cycle track ramp at the modified STRCR Interchange;
    - (d) modification of existing cycle track subway no. NS30 near Sha Tin Plaza;
    - (e) modification of the existing footbridge no. NF40 across TPR-ST near Wo Che Street;
    - (f) modification of the existing footbridge no. NF66 near Fung Wo Lane;
    - (g) installation of noise mitigation measures between Citylink Plaza and Mei Wo House of Wo Che Estate;
    - (h) associated drainage works, waterworks, street lighting works and traffic control and surveillance system (TCSS).
  - (ii) Retrofitting of noise barriers along TPR-ST:
    - (a) western section between Citylink Plaza and Scenery Court;
    - (b) eastern section between Mei Wo House of Wo Che Estate and Fo Tan Road; and
    - (c) associated drainage works, waterworks and street lighting works.



- (iii) Associated street furniture, road marking, traffic signs, directional signs, services and utilities, and
- (iv) Associated landscaping works.
- 1.1.4 The location and boundary of the site is shown in **Figure 1**.
- 1.1.5 This Monthly EM&A report is required under EP-463/2013/B Condition 3.4. It is to report the results and findings of the EM&A programme required in the updated EM&A Manual.
- 1.1.6 This is the ninth monthly EM&A Report which summarized the impact monitoring results and audit findings for the construction of the road widening and retrofitting noise barriers on Tai Po Road (Sha Tin Section) (TPR-ST) (hereafter referred as "the Project") within the period between 1 August 2019 and 31 August 2019.

#### 1.2 **Project Organization**

- 1.2.1 The project proponent was the Civil Engineering and Development Department, HKSAR (CEDD). AECOM Asia Co. Ltd. (AECOM) was commissioned by CEDD as the Engineer for the Project. Acuity Sustainability Consulting Limited Nature & Technologies (HK) Limited Joint Venture was commissioned as the Independent Environmental Checker (IEC). China railway China Railway First Group Zhen Hua Engineering Joint Venture (CCZJV) was appointed as the main contractor for the construction works under the contract NE/2017/05. Fugro Technical Services Limited (FTS) was appointed as the Environmental Team (ET) by CEDD to implement the EM&A programme for the Project.
- 1.2.2 The organization structure is shown in **Appendix B**. The key personnel contact names and numbers for the Project are summarized in **Table 1.1**.
- 1.2.3

Party	Position	Name	Telephone
Project Proponent (CEDD)	Senior Engineer	Mr. Andrew Cheung	3152 3500
Engineer's Representative (AECOM)	Chief Resident Engineer	Mr. Albert Yu	2276 0618
IEC (Acuity Sustainability Consulting Limited – Nature & Technologies (HK) Limited Joint Venture)	Independent Environmental Checker	Mr. Kevin Li	9779 2247
Main Contractor (CCZJV)	Site Agent	Mr. Alvin Chan	9800 9494
	Environmental Officer	Ms. Kimberly Wong	5542 1669
ET (FTS)	Environmental Team Leader	Mr. David Hung	3565 4371

Table 1.1Contact Information of Key Personnel

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#### **1.3** Construction Programme and Activities

- 1.3.1 The construction of the Project commenced on 29 November 2018 and is expected to complete in 2023. The construction programme is shown in **Appendix A**.
- 1.3.2 A summary of the major construction activities undertaken in the reporting month were shown in below table:

Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
<ul> <li>Trial Pits Excavation</li> <li>Underground utilities detections</li> <li>Tree felling / pruning / preservation</li> <li>Construction of temporary road and site access</li> </ul>	<ul> <li>Trial Pits Excavation</li> <li>Underground utilities detections</li> <li>Tree felling / pruning</li> <li>Construction of temporary road and site access</li> <li>Underground utilities diversion</li> </ul>	<ul> <li>Trial Pits Excavation</li> <li>Underground utilities detections</li> <li>Tree felling / pruning / preservation</li> <li>Construction of temporary road and site access</li> <li>Underground utilities diversion</li> <li>Construction of ELS and piling platform</li> <li>Retaining Wall Construction</li> <li>Central divider modification</li> </ul>	<ul> <li>Trial Pits Excavation</li> <li>Underground utilities detections</li> <li>Tree felling / pruning</li> <li>Construction of temporary road and site access</li> </ul>	<ul> <li>Trial Pits Excavation</li> <li>Underground utilities detections</li> <li>Tree felling / pruning</li> <li>Construction of temporary road and site access</li> <li>Underground utilities diversion</li> </ul>

### 1.4 Status of Environmental Licenses, Notifications and Permits

1.4.1 A summary of the relevant environmental licenses, permits and/or notifications on environmental protection for this Contract is presented in **Table 1.2**.

#### FUGRO TECHNICAL SERVICES LIMITED Fugro Development Centre, Tel : +852 2450 8233

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### Table 1.2 Relevant Environmental Licenses, Permits and/or Notifications

Environmental License / Permit / Notification	Reference Number	Valid From	Valid Till
Environmental Permit for whole project	EP-463/2013/B	20/12/2016	Nil
Receipt of the notification of construction dust production	Form NA	27/7/2018	Nil
Construction Waste Disposal Account	7031619	17/8/2018	Nil
Chemical Waste Producer Registration	5318-758-C4314-01	6/11/2018	Nil
Effluent Discharge License (Zone 1 – Zone 5)	WT00032446-2018	9/11/2018	30/11/2023
Construction Noise Permit	GW-RN0443-19	1/7/2019	30/9/2019
for Road Closure works at restricted hours	GW-RN0612-19	30/8/2019	31/10/2019

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#### 2. AIR QUALITY

#### 2.1 Monitoring Requirement

In accordance with the updated EM&A Manuals, 24-hour & 1-hour Total Suspended Particulates (TSP) level at the designated air quality monitoring station are required. Impact 24-hour and 1-hour TSP monitoring should be carried out at least once every 6 days. The Action and Limit Levels of the air quality monitoring are given in **Appendix C**.

#### 2.2 Monitoring Equipment

The 24-hour and 1-hour TSP air quality monitoring was performed using High Volume Air Samplers (HVS) and portable TSP Monitors located at each of the designated monitoring station respectively.

 Table 2.1 and 2.2 summarizes the equipment used in air quality monitoring.

	<b>0</b>					
Item	Location	Brand	Model	Equipment	Serial Number	
1	AMS 4A	*Sibata	Model LD-5R	Sibata Portable TSP Monitors	761105	
2	AMS 6	*Sibata	Model LD-5R	Sibata Portable TSP Monitors	882146	
3	AMS 7A	*Sibata	Model LD-5R	Sibata Portable TSP Monitors	882148	
4	AMS 15	*Sibata	Model LD-5R	Sibata Portable TSP Monitors	882147	

#### Table 2.1 24-hour TSP Monitoring Equipment

\*Notes: As electricity supply is not available and accessible for the High Volume Samplers (HVS) at AMS4A, 6, 7A, and 15, portable Laser Particle Photometer Monitors will be utilized for 24-hour TSP monitoring instead of High Volume samplers (HVS). The correlation between HVS and the portable Laser Particle Photometer Monitors are presented in Appendix D.

Table 2.2 1-hour TSP Monitoring Equ	uipment
-------------------------------------	---------

	Item	Location	Brand	Model	Equipment	Serial Number
ĺ	1	AMS 4A	Sibata	Model LD-5R	Sibata Portable TSP Monitors	761105
Ī	2	AMS 6	Sibata	Model LD-5R	Sibata Portable TSP Monitors	882146
	3	AMS 7A	Sibata	Model LD-5R	Sibata Portable TSP Monitors	882148
	4	AMS 15	Sibata	Model LD-5R	Sibata Portable TSP Monitors	882147

### 2.3 Monitoring Methodology

2.3.1 24-hour TSP air quality monitoring by High Volume Air Samplers (HVS)

#### HVS Installation

The following guidelines were adopted during the installation of HVS:

- Sufficient support is provided to secure the samplers against gusty wind.
- No two samplers are placed less than 2 meters apart.
- The distance between the sampler and an obstacle, such as buildings, is at least twice the height that the obstacle protrudes above the sampler.
- A minimum of 2 meters of separation from walls, parapets and penthouses is required for rooftop samples.
- A minimum of 2 meters separation from any supporting structure, measured horizontally is required.



- No furnaces or incineration flues are nearby.
- Airflow around the samplers is unrestricted.
- The samplers are more than 20 meters from the drip line.
- Any wire fence and gate, to protect the sampler, should not cause any obstruction during monitoring.

#### Filters Preparation

Fiberglass filters (provided by the HOKLAS accredited laboratory) shall be used (Note: these filters have a collection efficiency of larger than 99% for particles of 0.3 µm diameter). A HOKLAS accredited laboratory (ALS Technichem (HK) Pty Ltd./Fugro Technical Services Limited) is responsible for the preparation of 24-hr conditioned and pre-weighed filter papers for monitoring team.

All filters are equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature is around 25°C and not variable by more than  $\pm$ 3°C; the relative humidity (RH) is < 50% and not variable by more than  $\pm$ 5%. A convenient working RH is 40%.

#### **Operating / Analytical Procedures**

Operating / analytical procedures for the air quality monitoring are highlighted as follows:

- Prior to the commencement of the dust sampling, the flow rate of the HVS are properly set (between 0.6 m<sup>3</sup>/min and 1.7 m<sup>3</sup>/min) in accordance with the EM&A manual. The flow rate shall be indicated on the flow rate chart.
- The power supply shall be checked to ensure the samplers worked properly.
- On sampling, the samplers shall be operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air quality monitoring station.
- The filter holding frame is then removed by loosening the four nuts and carefully a weighted and conditioned filter is centered with the stamped number upwards, on a supporting screen.
- The filter shall be aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame is tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
- The shelter lid shall be closed and secured with the aluminum strip.
- The timer is then programmed. Information shall be recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- After sampling, the filter shall be removed and sent to laboratory for weighing. The elapsed time is also recorded.
- Before weighing, all filters are equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than ±3°C; the relative humidity (RH) should be < 50% and not vary by more than ±5%. A convenient working RH is 40%. Weighing results are returned to MCL for further analysis of TSP concentrations collected by each filter.

#### 2.3.2 24-hour TSP air quality monitoring by portable Laser Particle Photometer Monitors

#### Operating / Analytical Procedures



The measuring procedures of the 24-hr dust meter are in accordance with the Manufacturer's instruction Manual as follows:

- Pull up the air sampling inlet cover
- Change the Mode 0 to BG once
- Push Start/Stop switch once
- Turn the knob to SENSI.ADJ and press it
- Push Start/Stop switch once
- Return the knob to the position MEASURE slowly
- Push the timer set switch to set measuring time
- Remove the cap and make a measurement

Calculation of the value of 24-hr TSP concentration is given by the average of 24 calculated 1hr TSP concentration, where the calculated 1-hr TSP concentration is given by the product of the direct reading and the K-factor based on the correlation results between the direct reading meter and high volume sampler.

#### 2.3.3 1-hour TSP air quality monitoring

#### **Operating / Analytical Procedures**

The measuring procedures of the 1-hr dust meter are in accordance with the Manufacturer's instruction Manual as follows:

- Pull up the air sampling inlet cover
- Change the Mode 0 to BG once
- Push Start/Stop switch once
- Turn the knob to SENSI.ADJ and press it
- Push Start/Stop switch once
- Return the knob to the position MEASURE slowly
- Push the timer set switch to set measuring time
- Remove the cap and make a measurement

#### 2.4 Maintenance / Calibration

2.4.1 24-hour TSP air quality monitoring

The following maintenance / calibration are required for the HVS:

- The high volume motors and their accessories are properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking are made to ensure that the equipment and necessary power supply are in good working condition.
- All HVS shall be calibrated (five point calibration) using Calibration Kit upon installation and thereafter in every 3 months.
- A copy of the calibration certificates for the HVS and calibrator are provided in Appendix D.
- 2.4.2 1-hour TSP air quality monitoring

The portable TSP monitor should be calibrated at 1 year intervals



#### 2.5 **Monitoring Locations**

2.5.1The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works. According to the Hong Kong Observatory, wind direction in August 2019 was south west, north east and east. The most updated locations are summarized in **Table 2.3** and shown in **Figure 2a**.

Monitoring Station	Location	Land uses
AMS 4A	Wai Wah Centre	Residential
AMS 6	Shatin Plaza	Residential
AMS 7A	Sheung Wo Che	Residential
AMS 15	Ha Wo Che	Residential

#### Table 2.3 Location of Air Quality Monitoring Station

#### 2.6 **Results and Observations**

- 2.6.1The schedule of air quality monitoring in reporting month is provided in **Appendix E**.
- 2.6.2 No Action / Limit Level exceedance was recorded for 24-hr and 1-hr TSP at AMS 4A, 6, 7A and 15 in the reporting month.
- 2.6.3 During the reporting month, major dust sources including trial pits excavation and retaining wall construction were observed in the site. Other factors such as road traffic along Tai Po Road may affect the monitoring results.
- 2.6.4 The weather conditions during the monitoring are provided in **Appendix K**.
- The monitoring data of 24-hr and 1-hr TSP are summarized in Table 2.4 and 2.5. Detailed 2.6.5 monitoring data are presented in Appendix F.

	Summary of 24-m TSF Monitoring Results				
Parameter	Monitoring Station	Average (µg/m³)	Range (µg/ m³)	Action Level (µg/ m <sup>3</sup> )	Limit Level (µg/ m³)
24-hr TSP in µg/m³	AMS 4A	77	51 - 104	200	
	AMS 6	71	50 - 83	165	260
	AMS 7A	74	62 - 90	171	200
	AMS 15	67	53 - 77	172	

#### Summary of 24-hr TSP Monitoring Results Table 24

Table	2.5	Summary o	f
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### 1-hr TSP Monitoring Results

Parameter	Monitoring Station	Average (µg/m³)	Range (µg/ m³)	Action Level (µg/ m <sup>3</sup> )	Limit Level (µg/ m <sup>3</sup> )
1-hr TSP in µg/m³	AMS 4A	75	51 - 102	348	
	AMS 6	76	49 - 104	347	500
	AMS 7A	82	63 - 101	344	500
	AMS 15	73	54 - 92	350	

2.6.6 The Event and Action Plan for air quality is given in **Appendix H**.



#### 3. NOISE

#### 3.1 Monitoring Requirement

3.1.1 In accordance with the updated EM&A Manuals, Leq (30min) monitoring is conducted for at least once a week during the construction phase between 0700 and 1900 on normal weekdays at the designated monitoring locations.

#### 3.2 Monitoring Equipment

- 3.2.1 The sound level meter used in noise monitoring will comply with the International Electrotechnical Commission Publication 651:1979 (Type 1) and 804:1985 (Type 1) specifications as referred to in the Technical Memorandum issued under the Noise Control Ordinance (NCO).
- 3.2.2 Sound level calibrator will be used for the on-site calibration of the meter. This calibrator complies with the IEC Publication 942 (1988) Class 1 and ANSI S1.40 1984. Noise measurements were only accepted to be valid if the calibration levels from before and after the measurement agree to within 1.0dB.
- 3.2.3 Measurements shall be recorded to the nearest 0.1dB. Sound level meters are programmed to measure A-weighted equivalent continuous sound pressure level at 30-minute intervals between 0700 and 1900 on normal weekdays at least once a week when construction activities are underway.

Table 3.1 summarizes the noise monitoring equipment model being used for this project.

Item	Brand	Model	Equipment	Serial Number
1	Casella	CEL-63X Series	Integrating Sound Level Meter	0873599
2	Casella	CEL-63X Series	Integrating Sound Level Meter	1488270
3	Casella	CEL-63X Series	Integrating Sound Level Meter	1488271
4	Casella	CEL-63X Series	Integrating Sound Level Meter	1488289
5	Casella	CEL-120 Series	Calibrator	1677126
6	Casella	CEL-120 Series	Calibrator	3321858
7	Casella	CEL-120 Series	Calibrator	5230758
8	Casella	CEL-120 Series	Calibrator	5230950

#### Table 3.1 Noise Monitoring Equipment

#### 3.3 Monitoring Parameters and Frequency

**Table 3.2** presents the noise monitoring parameters and frequencies.

#### Table 3.2 Monitoring Parameters and Frequencies of Noise Monitoring

Parameter	Frequency and Period
LAeq (30min)	At each station at 0700-1900 hours on normal weekdays at a frequency
L10 and L90 will be recorded for reference	of once a week

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#### 3.4 Monitoring Methodology

- 3.4.1 The monitoring procedures are as follows:
  - The monitoring station is set at a point 1m from the exterior of the sensitive receivers building façade and set at a position 1.2m above the ground.
  - The battery condition is checked to ensure good functioning of the meter.
  - Parameters such as frequency weighting, the time weighting and the measurement time are set as follows:
    - frequency weighting : A
    - time weighting : Fast
    - measurement time : Weekly 30 minutes between 0700-1900 on normal weekdays
  - Prior to and after noise measurement, the meter shall be calibrated using the 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 will be considered invalid and repeat of noise measurement is required after re-calibration or repair of the equipment.
  - Noise monitoring should 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.
  - Noise measurement should be paused during periods of high intrusive noise if possible and observation shall be recorded when intrusive noise is not avoided.
  - At the end of the monitoring period, the Leq, L10 and L90 are recorded. In addition, site conditions and noise sources are recorded on a standard record sheet.

#### 3.5 Maintenance / Calibration

- 3.5.1 Maintenance and Calibration procedures are as follows:
  - The microphone head of the sound level meter and calibrator should be cleaned with a soft cloth at quarterly intervals.
  - The sound level meter and calibrator should be calibrated annually by a HOKLAS laboratory.
  - Relevant calibration certificates are provided in **Appendix D**.

#### 3.6 Monitoring Locations

3.6.1 According to the updated EM&A Manual, 25 noise monitoring locations were included during the noise monitoring. The monitoring locations are summarized in **Table 3.3** and shown in **Figure 2**.

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	Table 3.3 Location of Noise Monitoring Station				
Monitoring Station	Location	Land Uses	Type of Measurement		
NMS1	Scenery Court	Residential	Façade		
NMS2	Villa Le Parc	Residential	Façade		
NMS3	Hilton Plaza	Residential	Façade		
NMS4	Tin Liu	Residential Village	Façade		
NMS5A	Wai Wah Centre	Residential	Façade		
NMS6A	Wai Wah Centre	Residential	Façade		
NMS7	Tin Liu	Residential Village	Façade		
NMS8	Shatin Plaza	Residential	Façade		
NMS9	Lek Yuen Estate	Residential	Façade		
NMS10A	Shatin Tsung Tsin School	School	Façade		
NMS11	Sheung Wo Che	Residential Village	Façade		
NMS12	SKH Holy Spirit Primary School	School	Façade		
NMS13	Lek Yuen Estate	Residential	Façade		
NMS14	Sheung Wo Che	Residential Village	Façade		
NMS15	Ha Wo Che	Residential Village	Façade		
NMS16	Ha Wo Che	Residential Village	Façade		
NMS17	Shatin Pui Ying College	School	Façade		
NMS18	Ha Wo Che	Residential Village	Façade		
NMS19	Wo Che Estate	Residential	Façade		
NMS20	Wo Che Estate	Residential	Façade		
NMS23	Pai Tau	Residential Village	Façade		
NMS24	Shatin Plaza	Residential	Façade		
NMS25A	Sheung Wo Che	Residential Village	Façade		
NMS26	Wo Che Estate	Residential	Façade		
NMS27	Jockey Club Ti-l College	School	Façade		

#### Table 3.3 Location of Noise Monitoring Station

#### 3.7 Results and Observations

- 3.7.1 The schedule of noise monitoring in reporting month is provided in Appendix E.
- 3.7.2 The exam schedules of the schools are provided in **Appendix E**.
- 3.7.3 During the monitoring month, road traffic along Tai Po Road was observed which may affect the monitoring results.
- 3.7.4 No raining and wind with speed over 5 m/s was observed during day time noise monitoring according to the onsite observation. The weather conditions during the monitoring month are provided in **Appendix K**.
- 3.7.5 The day time noise monitoring data are summarized in **Table 3.4**. Detailed monitoring data are presented in **Appendix G**.

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Table 3.4	Summary of Day Time Noise Impact Monitoring Results		
Monitoring Station	Leq <sub>(30min)</sub> Range, dB(A)	Leq <sub>(30min)</sub> Limit Level,	
	Construction Noise Level	dB(A)	
NMS1	61.8 – 66.7	75	
NMS2	56.4 – 61.8	75	
NMS3	58.3 – 69.1	75	
NMS4	63.1 – 70.9	75	
NMS5A	66.7 – 72.2	75	
NMS6A	67.2 – 72.7	75	
NMS7	64.6 – 74.1	75	
NMS8	63.8 - 68.6	75	
NMS9	66.1 – 67.6	75	
NMS10A	62.4 - 65.6	70*	
NMS11	60.0 - 68.8	75	
NMS12	62.0 - 66.1	70*	
NMS13	60.5 - 68.0	75	
NMS14	57.4 – 66.1	75	
NMS15	63.2 - 68.2	75	
NMS16	62.8 - 66.8	75	
NMS17	60.2 - 68.1	70*	
NMS18	60.5 - 66.0	75	
NMS19	66.8 – 69.5	75	
NMS20	59.4 – 67.1	75	
NMS23	61.3 – 70.1	75	
NMS24	61.4 – 69.1	75	
NMS25A	66.1 – 72.1	75	
NMS26	68.8 – 73.7	75	
NMS27	61.9 – 64.3	70*	

 Table 3.4
 Summary of Day Time Noise Impact Monitoring Results

Note: 1. Leq (30min) was measured at day-time (0700-1900) on normal weekdays. 2. 70 dB(A) for schools and 65 dB(A) for schools during examination period. Exam schedules of NMS 10A, NMS12, NMS 17 and NMS 27 are provided in Appendix E for reference.

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3.7.6 Regular night time noise monitoring were conducted on 2, 8, 15, 22 and 29 August 2019 and the results are summarized in **Table 3.5**. Detailed monitoring data are presented in **Appendix G.** 

Table 3.5	Summary of Night Time Noise Impact Monitoring Results		
Monitoring Station	Leq <sub>(15min)</sub> Range, dB(A) Construction Noise Level	Leq <sub>(15min)</sub> Limit Level, dB(A)	
NMS1	57.9 - 60.2	55	
NMS2	48.4 - 54.7	55	
NMS3	62.2 - 65.7	55	
NMS4	51.2 - 58.3	55	
NMS5A	61.8 - 67.6	55	
NMS6A	64.4 - 69.0	55	
NMS7	52.3 - 58.9	55	
NMS8	57.3 - 61.8	55	
NMS9	55.3 - 57.6	55	
NMS11	49.1 - 56.1	55	
NMS13	53.6 - 58.8	55	
NMS14	54.9 - 59.4	55	
NMS15	56.2 - 59.7	55	
NMS16	56.2 - 58.3	55	
NMS18	56.6 - 60.4	55	
NMS19	58.8 - 61.5	55	
NMS20	52.0 - 58.4	55	
NMS23	50.0 - 70.3	55	
NMS24	55.2 - 59.4	55	
NMS25A	51.3 - 63.6	55	
NMS26	58.0 - 67.4	55	

 Table 3.5
 Summary of Night Time Noise Impact Monitoring Results

Note: 1) Leq (15min) was measured at night-time (2300-0700).

2) When the Average Measured Noise Level is greater than Limit Level, Average Construction Noise Level (CNL) will be applied, where

Calculated CNL = Measured Noise Level during operation – Baseline

3) Detailed analysis of each monitoring location is provided in Appendix G.

3.7.7 Day time construction noise monitoring was carried out in the reporting month, no Action / Limit Level exceedance was recorded during the period. For night time construction noise monitoring, three exceedance cases were recorded between 2300 and 0700 of the next day



during the reporting month. After ET's further investigation, as the dominant noise should be the background traffic noise, the noise exceedance cases were considered not project-related.

- 3.7.8 The Action and Limit Levels for noise impact monitoring have been set and are presented in **Appendix C**.
- 3.7.9 The Event and Action Plan for noise is given in **Appendix H**.

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#### 4. LANDSCAPE AND VISUAL

#### 4.1 Audit Requirements

- 4.1.1 In accordance with the EM&A Manual, the landscape and visual mitigation measures during the construction phase are primarily due to those associated temporary works for the construction of retrofitting noise barriers/enclosures. To ensure compliance with the intended aims of the measures, weekly site inspections are undertaken throughout the construction period.
- 4.1.2 According to the updated EM&A Manual, measures to mitigate landscape and visual impacts during construction should be checked to ensure compliance with the intended aims of the measures. The progress of the engineering works shall be regularly reviewed onsite to identify the earliest practical opportunities for the landscape works to be undertaken. The ET shall report on the Contractor's compliance on a weekly basis.

#### 4.2 Results and Observations

- 4.2.1 Site audits were carried out to monitor and audit the implementation of landscape and visual mitigation measures. The summary of the site audits are given in **Appendix M.**
- 4.2.2 No non-compliance of the landscape and visual impact was recorded in the reporting month.



#### 5. WASTE MANAGEMENT

#### 5.1 Audit Requirements

- 5.1.1 The effective management of waste arising during the construction phase will be monitored through the site audit programme. Regular audits and site inspections should be carried out to ensure that the recommended good site practices and other mitigation measures are implemented by the Contractor.
- 5.1.2 The audit should look at all aspects of on-site waste management practices including the waste generation, storage, recycling, transport and disposal. The aims of waste audit are:
  - to ensure the waste arising from the works are handled, stored, collected, transferred and disposed of in an environmentally acceptable manner;
  - verify the implementation status and evaluate the effectiveness of the mitigation measures; and
  - to encourage the reuse and recycling of material.

#### 5.2 Results and Observations

- 5.2.1 C&D materials and wastes sorting were carried out on site. Receptacles were available for C&D wastes and general refuse collection.
- 5.2.2 The amount of wastes generated by the site activities in the reporting month is shown in **Appendix I**.

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#### 6. SITE INSPECTION

#### 6.1 Site Inspection

- 6.1.1 Site inspections were carried out weekly to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. A summary of the mitigation measures implementation schedule is provided in **Appendix J**.
- 6.1.2 In the reporting month, four site inspections were carried out on 8, 15, 22 and 28 August 2019. The site inspection held on 28 August 2019 was the joint inspections with the IEC, ER, the Contractor and the ET.
- 6.1.3 All the follow-up actions requested by ET and IEC during the site inspections were completed as reported by the Contractor. No outstanding issues were reported during the reporting month. Details of observations recorded during the site inspections are summarized in **Appendix M**.



#### 7. ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

#### 7.1 Environmental Exceedance

- 7.1.1 24-hour and 1-hour TSP impact monitoring were carried out in the reporting month, no Action / Limit Level exceedance was recorded during the period.
- 7.1.2 Day time construction noise monitoring was carried out in the reporting month, no Action / Limit Level exceedance was recorded during the period. Regular night time noise monitoring was carried out on 2, 8, 15, 22 and 29 August 2019 respectively and three exceedance cases were recorded between 2300 and 0700 of the next day during the reporting month. After ET's further investigation, as the dominant noise should be the background traffic noise, the noise exceedance cases were considered not project-related.

#### 7.2 Complaints, Notification of Summons and Prosecution

- 7.2.1 A complaint case was received on 30/8/2019 via 1823 regarding to noise nuisance near Hilton Plaza and Scenery Court at 11:10 pm. The complaint case is still under ET's investigation.
- 7.2.2 Cumulative complaint log, summaries of complaints, notification of summons and successful prosecutions are presented in **Appendix L.**

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#### 8. IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

#### 8.1 Implementation Status

- 8.1.1 The Contractor has implemented environmental mitigation measures and requirements as stated in the EIA Review Report, the EP and the updated EM&A Manuals. The implementation status of the mitigation measures during the reporting month is summarized in **Appendix J**.
- 8.1.2 According to the environmental audit performed in the reporting month, the following recommendations were made:

Air Quality Impact

• Keep the ground surface wet by spraying water frequently in Zone 4 (N04).

Construction Noise Impact

• No specific observation was identified in the reporting month.

Water Quality Impact

- Enhance the bunding at Zone 5 exit (North Bound).
- Prevent the surface run-off from flowing into the storm drain (Zone 2).

#### Chemical and Waste Management

- Remove the tree branches at Zone 5(North Bound).
- Clear the waste materials in Zone 3 (RW07).
- Waste materials should be packed properly (Zone 2).

Land Contamination

• No specific observation was identified in the reporting month.

Landscape and Visual Impact

• No specific observation was identified in the reporting month.

#### General Condition

• No specific observation was identified in the reporting month.

Permit / Licenses

• A new CNP (GW-RN0612-19) was issued in the reporting month.



#### 9. FUTURE KEY ISSUES

### 9.1 Construction Programme for the Next Month

During the coming reporting month, the principal work activities within the site include:

- Trial pits excavation and underground utilities detections at Zone 1, 2, 3, 4 and 5;
- Tree pruning, felling or preservation at Zone 1, 2, 3, 4 and 5;
- Construction of temporary road and site access, such as excavation at Zone 1, 2, 4 and 5;
- Construction of temporary road and site access, such as excavation and breaking works at Zone 3;
- Central median modification as Zone 2 and 3; and
- Retaining wall construction, such as pre-drilling, piling, excavation and bore piling at Zone 3.

### 9.2 Key Issues for the Coming Month

9.2.1 Potential environmental impacts arising from the above construction activities are mainly associated with construction dust, construction noise, water quality, waste management and landscape and visual impact.

#### 9.3 Monitoring Schedules for the Next Month

9.3.1 The tentative schedules for environmental monitoring in the coming month are provided in **Appendix E**.



#### 10. CONCLUSIONS

- 10.1.1 24-hour and 1-hour TSP impact monitoring were carried out in the reporting month, no Action / Limit Level exceedance was recorded during the period.
- 10.1.2 Day time construction noise monitoring was carried out in the reporting month, no Action / Limit Level exceedance was recorded during the period. For night time construction noise monitoring, three exceedance cases were recorded between 2300 and 0700 of the next day during the reporting month. After ET's further investigation, as the dominant noise should be the background traffic noise, the noise exceedance cases were considered not project-related.
- 10.1.3 Four environmental site inspections were carried out in the reporting month. Recommendations on mitigation measures on air quality, chemical and waste management and landscape and visual impact were given to the Contractor for remediating the deficiencies identified during the site inspections.
- 10.1.4 A complaint case was received on 30/8/2019 via 1823 regarding to noise nuisance near Hilton Plaza and Scenery Court at 11:10 pm. The complaint case is still under ET's investigation.
- 10.1.5 Referring to the Contractor's information, no notification of summons and successful prosecution was received in the reporting month.

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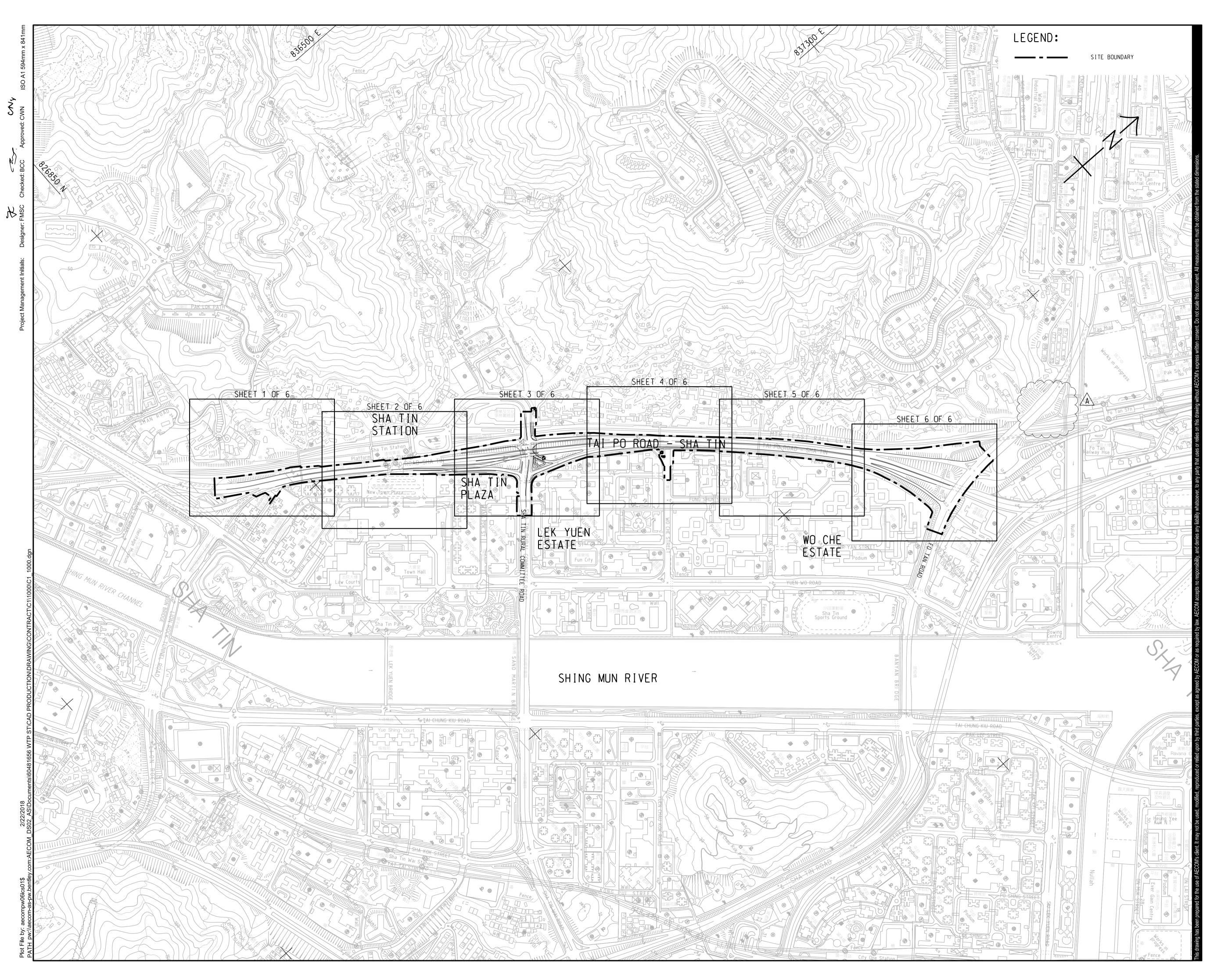
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Figure 1

**Project General Layout** 

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## ROAD WIDENING AND RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)

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### **STATUS** 階段

SCALE <sup>比例</sup>	DIMENSION UNIT 尺寸單位
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<b>KEY PLAN</b> 索引圖	FIGURE 1.1a

### CONTRACT NO. <sub>合約編號</sub>

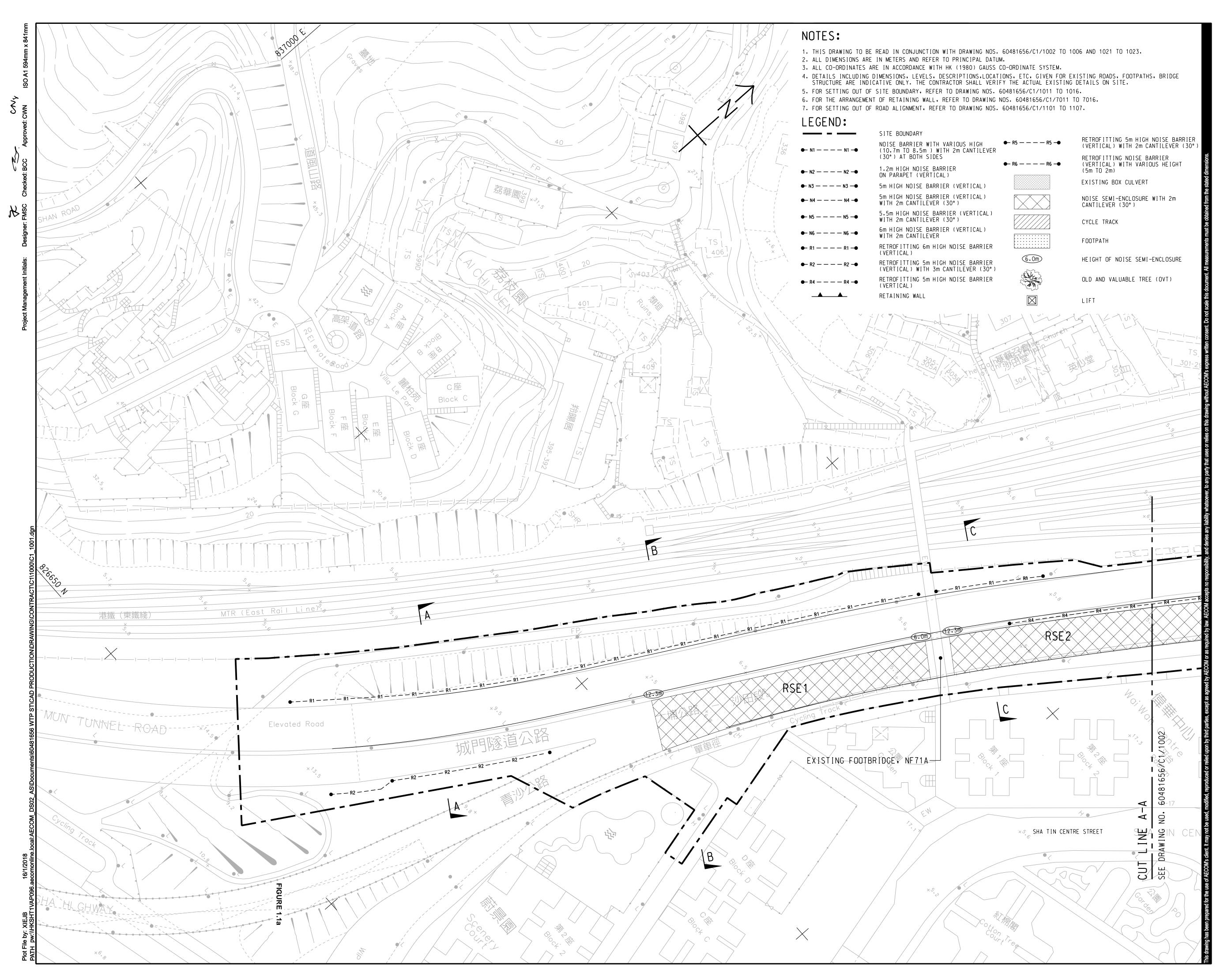
NE/2017/05

SHEET TITLE <sup>圖紙名稱</sup>

KEY PLAN FIGURE 1.1a

## SHEET NUMBER 圖紙編號

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## ROAD WIDENING AND RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)

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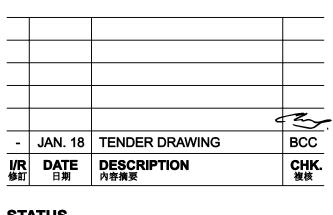
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### STATUS <sub>階段</sub>

# SCALE <sup>比例</sup>

### DIMENSION UNIT <sub>尺寸單位</sub>

A1 1 : 500

METRES

**KEY PLAN** A1 1 : 40000 家引圖 PEI TAL VILLAGE

### CONTRACT NO. <sup>合約編號</sup>

60481656

SHEET TITLE 圖紙名稱

GENERAL LAYOUT PLAN

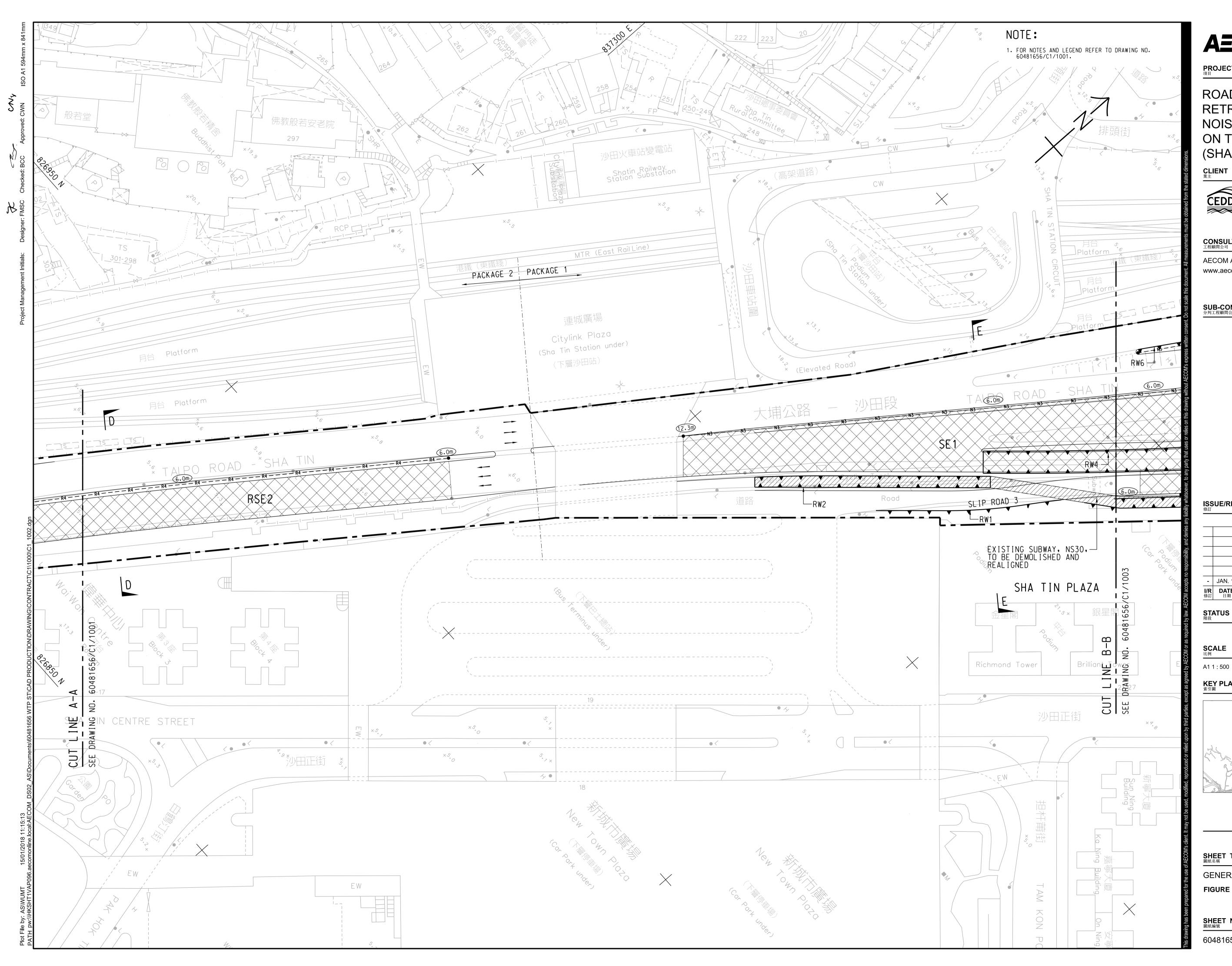
### FIGURE 1.1 b

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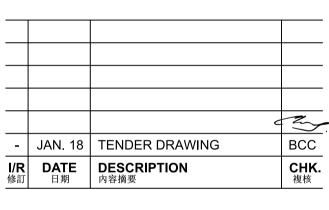
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### STATUS <sub>階段</sub>

# SCALE 比例

### DIMENSION UNIT <sup>尺寸單位</sup>

METRES

**KEY PLAN** A1 1 : 40000 索引圖

### CONTRACT NO. <sup>合約編號</sup>

NE/2017/05

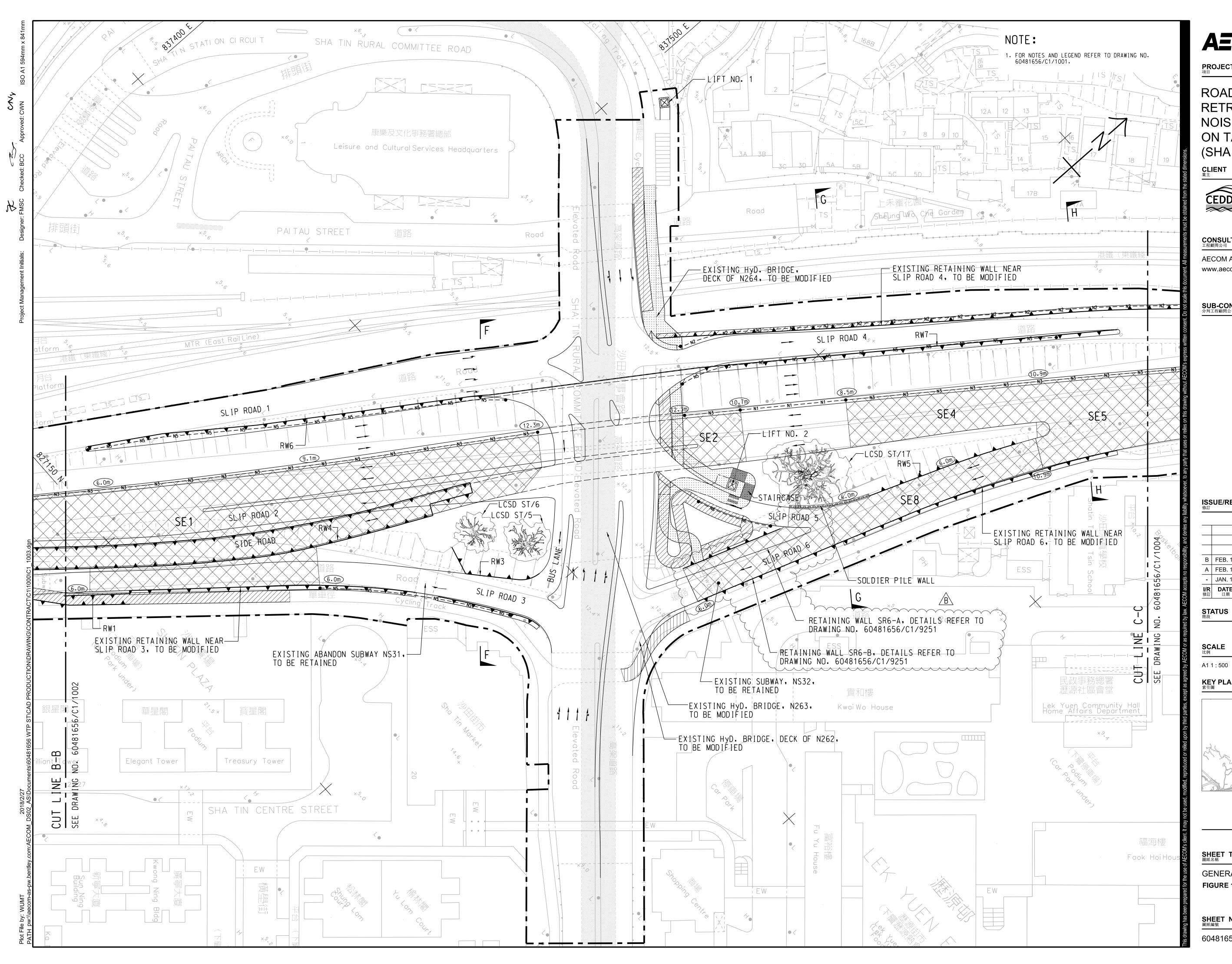
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GENERAL LAYOUT PLAN FIGURE 1.1b

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SHEET 2 OF 6





PROJECT

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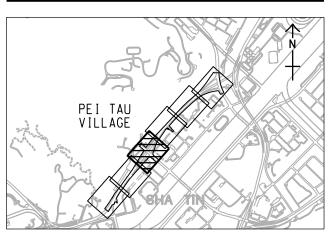
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SCALE 比例

### DIMENSION UNIT <sub>尺寸單位</sub>

METRES

**KEY PLAN** A1 1 : 40000 索引圖



### CONTRACT NO. <sub>合約編號</sub>

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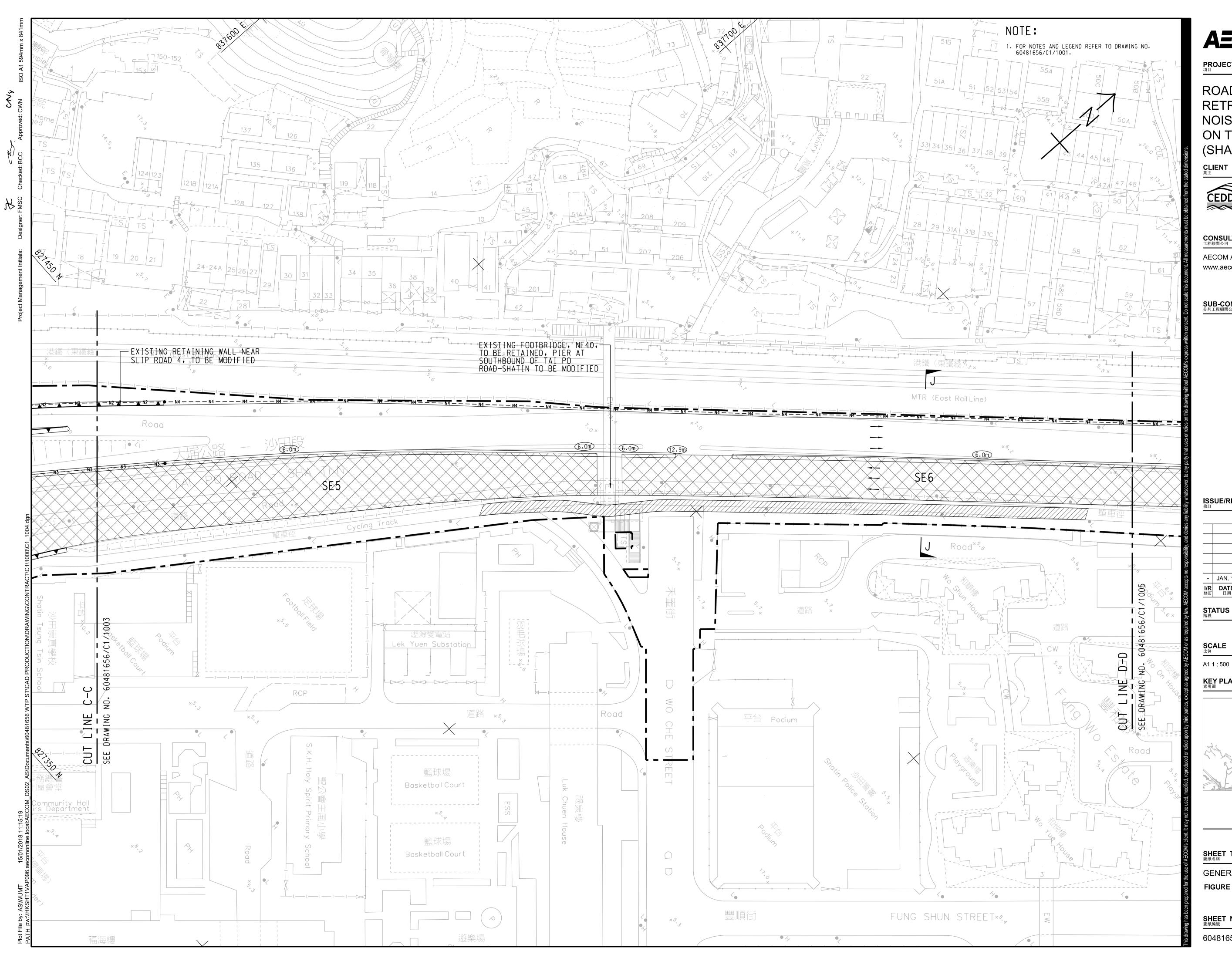
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GENERAL LAYOUT PLAN FIGURE 1.1 b

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SHEET 3 OF 6





**PROJECT** <sup>項目</sup>

### ROAD WIDENING AND RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)

### CLIENT <sup>業主</sup>



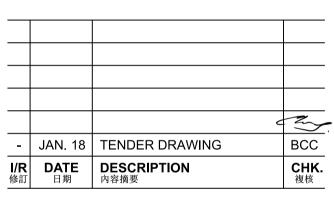
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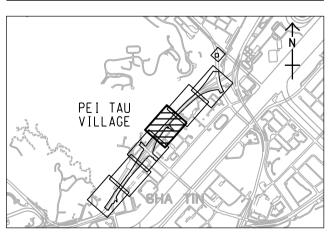
### **STATUS** 階段

# SCALE 比例

### DIMENSION UNIT <sup>尺寸單位</sup>

METRES

**KEY PLAN** A1 1 : 40000 索引圖



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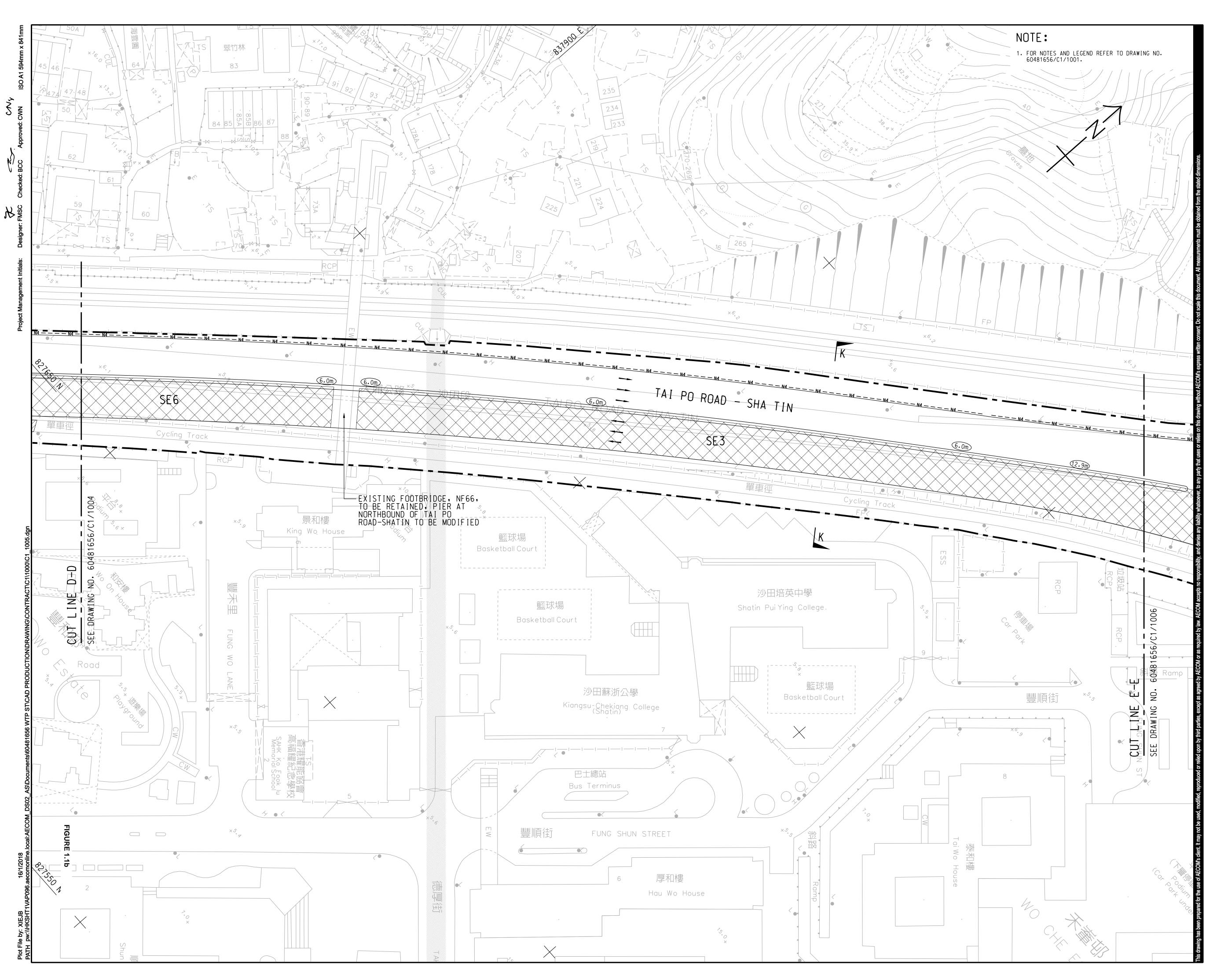
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GENERAL LAYOUT PLAN FIGURE 1.1b

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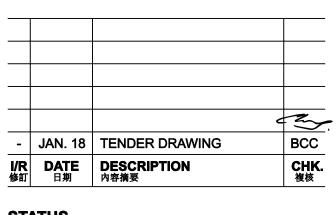
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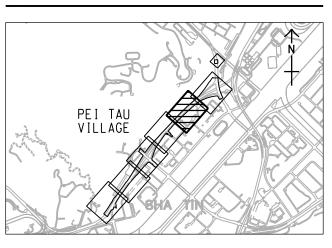
# SCALE <sup>比例</sup>

### DIMENSION UNIT <sup>尺寸單位</sup>

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METRES

**KEY PLAN** A1 1 : 40000 *案*引圖



### CONTRACT NO. <sup>合約編號</sup>

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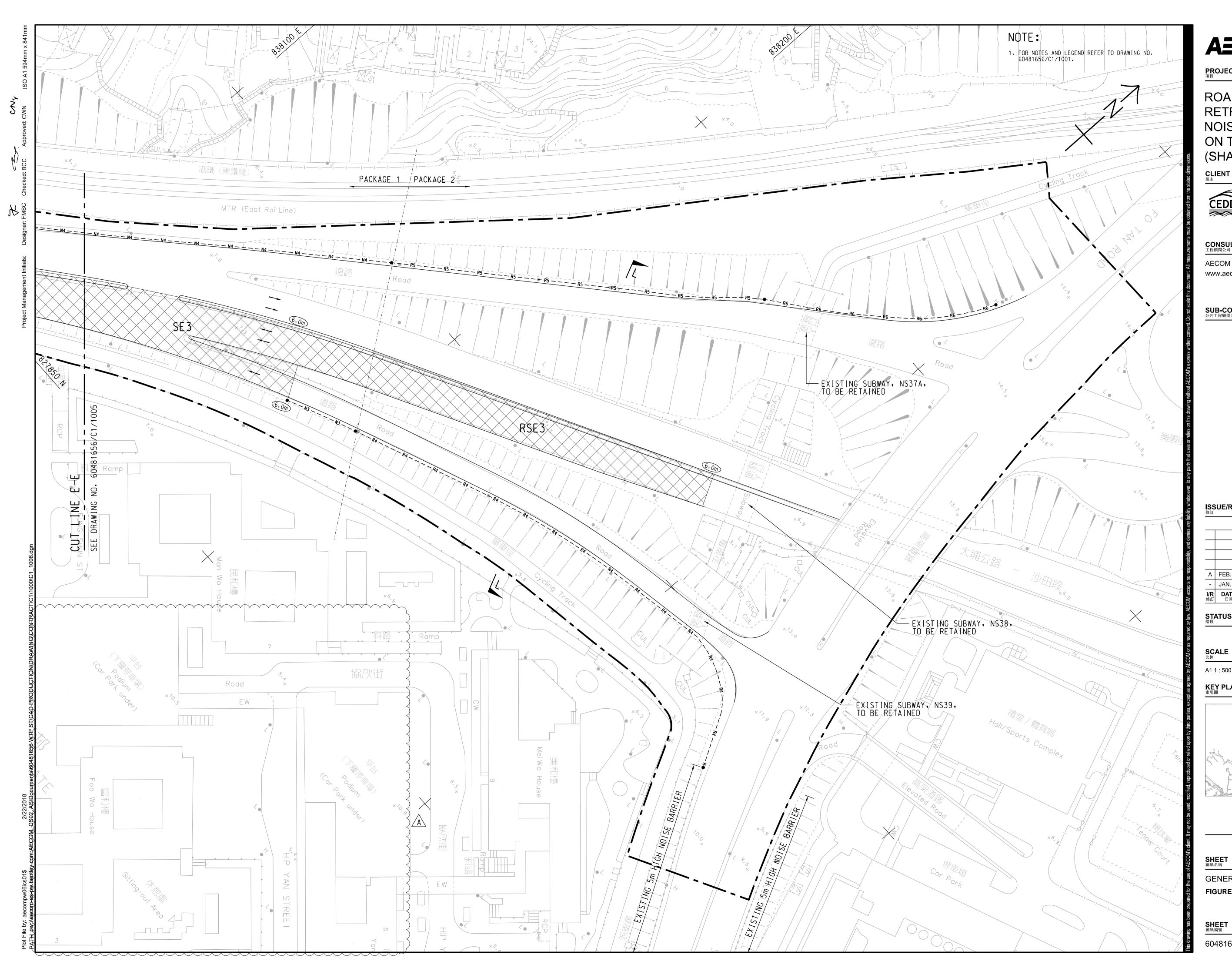
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## ROAD WIDENING AND RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)

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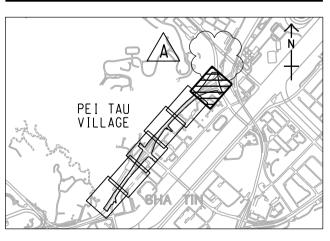
### **STATUS** 階段

## DIMENSION UNIT <sup>尺寸單位</sup>

A1 1 : 500

METRES

**KEY PLAN** A1 1 : 40000 索引圖



### CONTRACT NO. <sub>合約編號</sub>

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GENERAL LAYOUT PLAN FIGURE 1.1b

SHEET 6 OF 6

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Figure 2a

**Air Monitoring Locations** 

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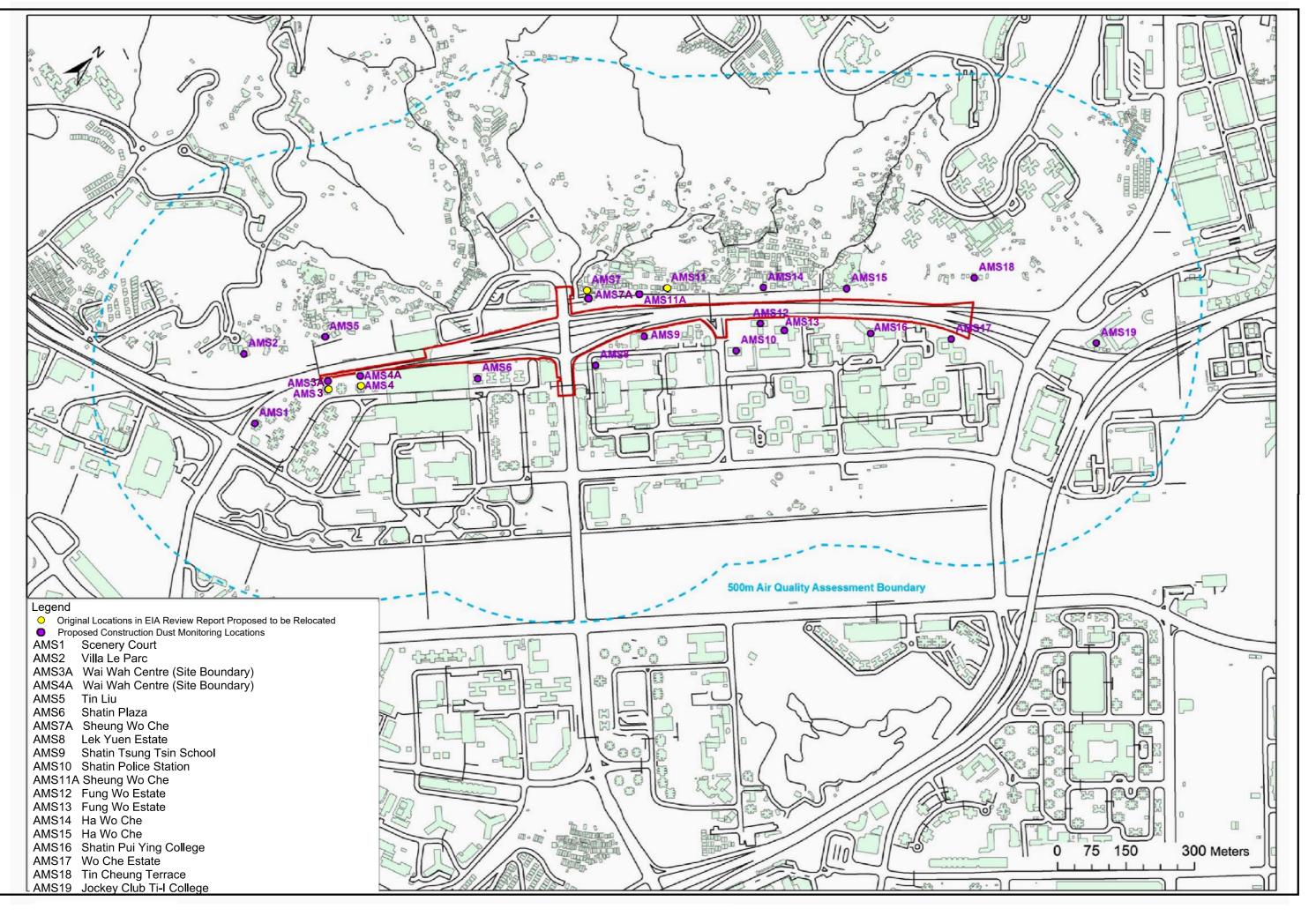


Figure 2a Air Quality Monitoring Locations



Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, N.T., Hong Kong.

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Figure 2b

**Noise Monitoring Locations** 

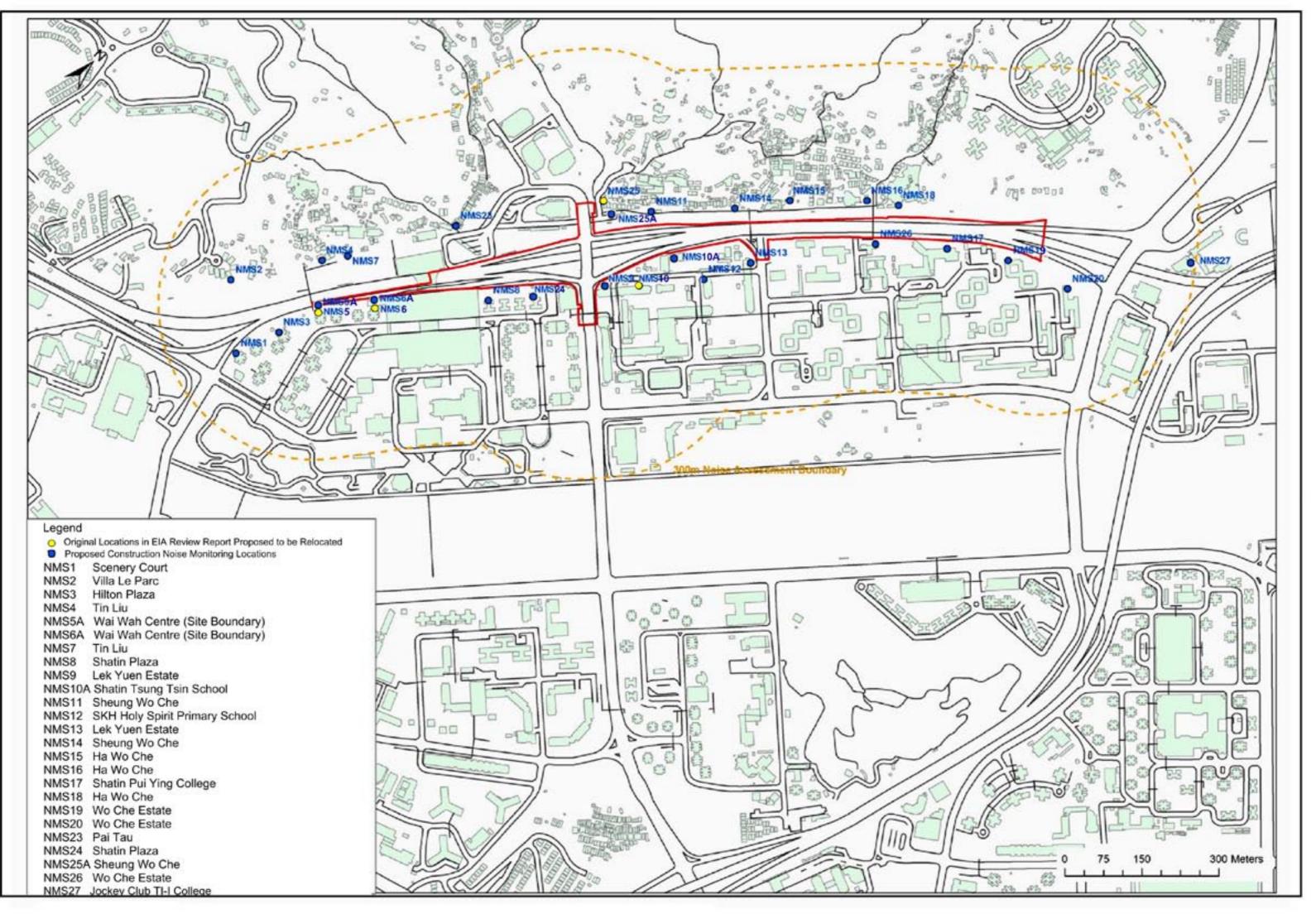


Figure 2b Noise Monitoring Locations



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Appendix A

**Construction Programme** 

## 08-Aug-19

## 中國中鐵-中鐵一局-振華工程聯營 China Railway - China Railway First Group - Zhen Hua Engineering Joint Venture

											NI
		Duration Durat	ion				Jul 13	Aug 14	Sep 15	Oct 16	Nov 17
	NE/2017/05 Road Widening and	d Retrofitti	na Noise	Barriers	on Tai		10		10	10	
	ARIES & GENERAL REQUIRE			Darriore	on rai						
GENERAL SU											
SUB1155	BIM Execution Plan	0	0 31-Jul-19*	1	31-Mar-19			BIM Execution Plan			
SUB1200	Hoarding Plan	0	0 31-Jul-19*		31-Mar-19			Hoarding Plan			
SUB1343	TCSS Configuration Management	0	0 31-Jul-19*		31-Mar-19			TCSS Configuration Mana	nemeht		
SUB1347	Lift Installation - Design Data	0	0 31-Jul-19*		31-Mar-19			Lift Installation - Design Da			
	-										
SUB1403	ITP's for Lighting Luminaires and System	0	0 31-Jul-19*		31-Mar-19			ITP's for Lighting Luminair	es and System		
SUB1405	All Lighting Designs	0	0 31-Jul-19*		31-Mar-19			All Lighting Designs			
SUB1410	Combined Services Drawings (CSD)	0	0 31-Jul-19*		31-Mar-19			Combined Services Drawi	ngs (CSD)		
<b>DESIGN</b>	SUBMISSION										
STRCR INTER	CHANGE MODIFICATION WORKS (Alternative De	esign)									
DES1070	PM Consent for Construction	28	1 06-Nov-18 A	01-Aug-19	20-Feb-19	19-Mar-19		PM Consent for Construc	tion		
DES1110	PM Consent for Construction	28	22 03-Apr-19 A	22-Aug-19	29-Apr-19	26-May-19		PM	I Consent for Construction		
DES1150	PM Consent for Construction	28	22 03-May-19 A	22-Aug-19	22-Apr-19	20-May-19		PM	I Consent for Construction		
NOISE MITIGA	TION MEASURES										
DES1190	PM Consent for Construction	28	14 25-Jun-19A	13-Aug-19	04-Apr-19	02-May-19		PM Consent	t for Construction		
DES1230	PM Consent for Construction	28	6 02-Jan-19A	05-Aug-19	31-Jan-19	27-Feb-19		PM Consent for Cons	struction		
DES1240	Prepare & submit Foundation Design of Mitigation	21	1 26-Nov-18 A	01-Aug-19	31-Dec-18	20-Jan-19		Prepare & submit Founda	tion Design of Mitigation Measures i	n Zone 3 w/Design Certif	icate
DES1250	Measures in Zone 3 w/Design Certificate PM review & comment	28	28 01-Aug-19	29-Aug-19	05-Apr-19	02-May-19			PM review & comment		
DES1260	Re-submit Foundation Design of Noise Mitigation	23	23 30-Aug-19	22-Sep-19	04-May-19	26-May-19			Be-su	Jubmit Foundation Design of	of Noise Mitiga
DES1270	Measures in Zone 3 w/Design Certificate PM Consent for Construction	28	28 22-Sep-19	20-Oct-19	27-May-19	23-Jun-19					PM Consent for
					· · ·						
DES1280	Prepare & submit Superstructure Design of Noise Mitigation Measures in Zones 1 & 2 w/Design	21	1 14-Jan-19A		05-Feb-19	25-Feb-19		Prepare & submit Supers	structure Design of Noise Mitigation	Measures in Zones 1 & 2	w/Design Certi
DES1290	PM review & comment	28	28 02-Aug-19	30-Aug-19	08-Apr-19	05-May-19			PM review & comment		
DES1300	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 1 & 2 w/Design	20	20 31-Aug-19	20-Sep-19	07-May-19	26-May-19				mit Superstructure Design	-
DES1310	PM Consent for Construction	28	28 20-Sep-19	18-Oct-19	27-May-19	23-Jun-19				PM	I Consent for Co
DES1320	Prepare & submit Superstructure Design of Noise	21	15 20-Mar-19 A	16-Aug-19	08-Apr-19	28-Apr-19		Prepare a	& submit Superstructure Design of N	ose Mitigation Measures	in Zone 3 w/De
	Mitigation Measures in Zone 3 w/Design Certificate							i	i	<u>i</u>	<u> </u>
XXXXX Rem	aining Level of Effort Remainir	na Work				ETRACITT		BARRIERS ON TAI	Date Revisio	on Check	Approved
	5	•					TIN SECTIO		08-Aug-19 3MRP DWP 1	1907 Tim	
	<ul> <li>Actual Level of Effort</li> <li>Primary Baseline</li> <li>Milestone</li> <li>Months Rolling Pro</li> </ul>					-					
Primary Baseline <ul> <li>Milestone</li> <li>Months Rolling Prog</li> </ul> Actual Work <ul> <li>Baseline Milestone</li> <li>Page 1 (</li> </ul>				•	101113)						

ivity ID	Activity Name	Original		3MRP Start	3MRP Finish	AP6 Start	AP6 Finish			2019	-	
		Duration	Duration					Jul 13	Aug 14	Sep 15	Oct 16	Nov 17
DES1330	PM review & comment	28	28	16-Aug-19	13-Sep-19	26-Apr-19	24-May-19			PM review & cor	nment	
DES1340	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	21	21	14-Sep-19	05-Oct-19	25-May-19	15-Jun-19				Re-submit Supe	rstructure Desigr
DES1350	PM Consent for Construction	28	28	05-Oct-19	02-Nov-19	15-Jun-19	13-Jul-19	<u> </u>				PM
DES1360	Prepare & submit Superstructure Design of Noise Mitigation Measures in Zones 4 & 5 w/Design	21	15	20-Mar-19 A	31-Aug-19	26-Apr-19	17-May-19			Prepare & submit Superstructu		
DES1370	PM review & comment	28	28	31-Aug-19	28-Sep-19	15-May-19	12-Jun-19	-		; 	PM review & comment	
DES1380	Re-submit Superstructure Design of Noise Mitigation Measures in Zones 4 & 5 w/Design	20	20	29-Sep-19	19-Oct-19	13-Jun-19	03-Jul-19	-		-	F	Re-submit Supers
DES1390	PM Consent for Construction	28	28	19-Oct-19	16-Nov-19	03-Jul-19	31-Jul-19		•			
<b>REMAINING W</b>	ORKS						,					
DES1430	PM Consent for Construction	28	10	11-Jan-19 A	09-Aug-19	04-Mar-19	31-Mar-19		PM Consent for Con	struction		
DES1470	PM Consent for Construction	28	22	11-Mar-19 A	22-Aug-19	11-May-19	07-Jun-19		PM Co	nsent for Construction		
DES1480	Prepare & submit Foundation Design of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramp & Sign	21	4	26-Nov-18 A	04-Aug-19	31-Dec-18	20-Jan-19		Prepare & submit Founda	ion Design of Pedestrian Lift 1 & 2	2, Lift 2 Staircase, Cycl	e Track Ramp & S
DES1490	PM review & comment	28	25	25-Jan-19 A	29-Aug-19	05-Apr-19	02-May-19	-		PM review & comment		
DES1500	Re-submit Foundation Design of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramp & Sign Gantry	35	35	30-Aug-19	04-Oct-19	04-May-19	07-Jun-19	-			Re-submit Found	-
DES1510	PM Consent for Construction	28	28	04-Oct-19	01-Nov-19	08-Jun-19	05-Jul-19					PM
DES1530	PM review & comment	28	1	02-Jan-19 A	31-Jul-19	31-Jan-19	27-Feb-19	-	PM review & comment		1 1 1 1	
DES1540	Re-submit Design of Watermain & Irrigation System w/Design Certificate	32	1	02-Jan-19 A	31-Jul-19	02-Apr-19	03-May-19	_	Re-submit Design of Waterma	in & Irrigation System w/Design (	Certificate	
DES1550	PM Consent for Construction	28	28	21-Jan-19 A	28-Aug-19	04-May-19	31-May-19	-		PM Consent for Construction		
DES1560	Prepare & submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	35	35	31-Jul-19	03-Sep-19	31-Mar-19	04-May-19		i i [	Prepare & submit Design o	E&M System (E&M & I	Road Lighting) w/
DES1570	PM review & comment	28	28	04-Sep-19	01-Oct-19	05-May-19	01-Jun-19				PM review & comme	ent
DES1580	Re-submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	32	32	03-Oct-19	03-Nov-19	03-Jun-19	04-Jul-19					R
SUBLETT	<b>FING &amp; PROCUREMENT SCHE</b>	DULE				,					1 2 2 1	
SUBLETTING											1 1 1	
SPS1000	Maintenance of Traffic Flow	30	30	31-Jul-19	29-Aug-19	31-Mar-19	29-Apr-19		1 1 1 1	Maintenance of Traffic Flow		
SPS1030	Hoarding and Signboard	30	30	31-Jul-19	29-Aug-19	31-Mar-19	29-Apr-19			Hoarding and Signboard		
SPS1060	Security System of the Site	30	30	31-Jul-19	29-Aug-19	31-Mar-19	29-Apr-19	_	 	Security System of the Site	0 0 0 0	
SPS1140	Site Clearance and Demolition Work	30	30	31-Jul-19	29-Aug-19	07-Apr-19	06-May-19	_		Site Clearance and Demolition V	Vork	
SPS1160	Monitoring and Instrumentation	30	30	31-Jul-19	29-Aug-19	07-Apr-19	06-May-19			Monitoring and Instrumentation		
SPS1170	Piling Works and Pile Testing	30	1	21-Dec-18 A	31-Jul-19	28-Feb-19	29-Mar-19		Piling Works and Pile Testing			
SPS1200	Waterwork (Pipework)	30	30	31-Jul-19	29-Aug-19	31-Mar-19	29-Apr-19			Waterwork (Pipework)		
SPS1210	Drainage (PC pipe, manhole & gully) and Duct	30	30	29-Sep-19	28-Oct-19	31-May-19	29-Jun-19					Drainage
									1	1	1	1
										Date Revisio	n Check	Approved
Rem	naining Level of Effort Remainir	ng Work		ROA	D WIDEN				RRIERS ON TAI	8-Aug-19 3MRP DWP 19		Approved
Actua	al Level of Effort Critical R	lemaining	g Work			PO RC	DAD (SHA	TIN SECTION)		o-nug- is joivine DWP is		
Prim	ary Baseline 🔷 🔶 Milestone	Э			3 N	<i>l</i> onths R	ollina Pro	ogramme (31/07	/19)			
	al Work		•				Page		- /			
			-									

Activity ID	Activity Name	Original Duration		3MRP Start	3MRP Finish	AP6 Start	AP6 Finish	Jul	Aug	2019 Sep	Oct	Nov
								13	14	15	16	17
SPS1220	CCTV for Drainage Pipe	30	30	31-Jul-19	29-Aug-19	01-Apr-19	30-Apr-19			CCTV for Drainage Pipe		
SPS1240	Reinforced Concrete Work for Retaining Walls	30	30	31-Jul-19	29-Aug-19	31-Mar-19	29-Apr-19			Reinforced Concrete Work for F	letaining Walls	
SPS1250	Reinforced Concrete Work for Noise Mitigation Measures	30	30	31-Jul-19	29-Aug-19	31-Mar-19	29-Apr-19			Reinforced Concrete Work for N	loise Mitigation Measure	:S
SPS1260	Reinforced Concrete Work for Bridge Work	30	30	27-Aug-19	26-Sep-19	28-Apr-19	28-May-19			Re	einforced Concrete Work	for Bridge Work
SPS1270	Reinforced Concrete Work for Pedestrian Lift	30	30	26-Oct-19	25-Nov-19	30-Jun-19	29-Jul-19					
SPS1280	Reinforced Concrete Work for Footbridge NF40 & NF66	30	30	19-Sep-19	18-Oct-19	23-May-19	22-Jun-19				Re	einforced Concrete
SPS1290	Steelwork for NB and Lift Tower	30	30	23-Aug-19	22-Sep-19	24-Apr-19	23-May-19			Steelw	ork for NB and Lift Towe	r
SPS1310	Bearing and Movement Joint	30	30	27-Aug-19	25-Sep-19	01-May-19	31-May-19				aring and Movement Joir	nt
SPS1320	Tendon Works	30	30	27-Aug-19	25-Sep-19	01-May-19	31-May-19			Ter	ndon Works	
SPS1410	Pedestrian Lift (Lift Cars, E&M, Panel, Lourve & Signature)	30	30	31-Aug-19	30-Sep-19	02-May-19	31-May-19				Pedestrian Lift (Lift Ca	ırs, E&M, Panel, Lc
SPS1420	Lighting System for Noise Mitigation Measures	30	30	06-Sep-19	06-Oct-19	12-Jul-19	10-Aug-19				Lighting System	n for Noise Mitigatio
SPS1440	Drainage for Noise Mitigation Measures	30	30	06-Sep-19	06-Oct-19	12-Jul-19	10-Aug-19				Drainage for No	ise Mitigation Mea
SPS1460	Waterproofing (Bitumen Paint)	30	30	01-Aug-19	30-Aug-19	06-Apr-19	05-May-19			Waterproofing (Bitumen Paint)		
WORK BE	TWEEN SHING MUN TUNNEL	S RO	AD AN	D FOOT	BRIDGI	E NF71/	A (ZON					
PRELIMINARIE	SWORKS											
	RAFFIC ARRAGEMENT											
TTA PERIOD								1				
Z1_1410	Construction Zone 1_Stage 1 Northbound R1 structure	300	300	12-Aug-19	15-Aug-20	19-Jun-19	20-Jun-20				*****	~~~~~~
Z1_1430	Construction Zone 1_Stage 1 Central Barrier structure	303	303	05-Oct-19	13-Oct-20	12-Aug-19	18-Aug-20				*****	*****
PREPARATORY												
TREE FELLING		10	0	25 Jan 10 A	00 Aug 10	11-Mar-19	01 Apr 10		Zana A have felling			
Z1_1290	Zone 1_tree felling works	18	0	25-Jan-19 A	09-Aug-19	11-10121-19	01-Apr-19		Zone 1_tree felling	works		
	N EXISTING ROAD/TEMPORARY ROAD								   			
Z1_1270	Zone 1-1_construct temporary road platform along Northbound for R1	60	60	12-Aug-19	24-Oct-19	19-Jun-19	28-Aug-19					Zone 1-1_cons
UTILITIES DIVE												
Z1 1300	UU CLP-abandoned 33kv cable for RSE1	20	20	25-Sep-19	21-Oct-19	02-Aug-19	24-Aug-19					
	CH1190-1300 110m	20	20	20-0ep-19	21-001-19	02-Aug-19	24-Aug-19					UU_CLP-abandon
PILE FOUNDAT				-					     			·····
NORTHBOUNI												
Z1_1510	R1_site investigation for R1-02P (1nr)	5	5	24-Oct-19	30-Oct-19	29-Aug-19	03-Sep-19			<del></del>		R1_site
CENTRAL BAR	RIER											
Z1_1490	RSE1_site investigation for RSE1-01P to 03P (6nr)	15	15	05-Oct-19	24-Oct-19	12-Aug-19	28-Aug-19					RSE1_site inve
WORK BE	TWEEN FOOT BRIDGE NF71		CITVI		AZA (ZO	NF 2)					1	
			CITI		AZA (20	NL 2)						
PRELIMINARIE	SWORKS							d		1		<u> </u>
Bom	aining Level of Effort Remainin									Date Revisio	n Check	Approved
		-		RUA				FING NOISE BAR	RRIERS ON TAI	08-Aug-19 3MRP DWP 1		
Actua	I Level of Effort Critical R	emainin	g Work				-	TIN SECTION)				
Prima	ary Baseline 🔷 🔷 Milestone	)			3 N	Ionths R	olling Pro	ogramme (31/07/	/19)			
	I Work	Mileston	A				Page 3	•				
		111103101					i aye v	, , , ,				

Activity ID	Activity Name	Original	Remaining 3N	MRP Start	3MRP Finish	AP6 Start	AP6 Finish		1	2019	-	1	
		Duration	Duration					Jul 13	Aug 14		Sep 15	Oct 16	Nov 17
TEMPORARY T	TRAFFIC ARRAGEMENT												
Z2_1260	Construction Zone 2_Stage 1 Central Barrier structure	518	514 10	)-Jul-19 A	26-Apr-21	31-May-19	25-Feb-21		•	****	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	*****	*****
PREPARATOR													
		10	7 10		00 A (0	04.1.00							
Z2_1220	Zone 2_tree felling works	18	/ 19	9-Feb-19 A	08-Aug-19	24-Jan-20	17-Feb-20						
	ON EXISTING ROAD/TEMPORARY ROAD												
Z2_1230	Zone 2-1_construct temporary road platform along Southbound	60	48 10	)-Jul-19 A	05-Oct-19	31-May-19	10-Aug-19					Zone 2-1_constr	uct temporary roa
NOISE BARRI	ER AND SEMI-ENCLOSURE												
PILE FOUNDA													
Z2 1000	ARRIER RSE2 site investigation for RSE2-13P & 15P (30nr)	50	50 05	5-Oct-19	04-Dec-19	10 Aug 10	11-Oct-19						
22_1000	NSE2_Site investigation for NSE2-13F & 15F (Solir)	50	50 05	5-001-19	04-Dec-19	12-Aug-19	11-001-19						
WORK BI	ETWEEN CITYLINE PLAZA ANI	D FOO <sup>-</sup>	TBRIDO	GE NF4	10 (ZON	E 3)							
PRELIMINARI	ES WORKS												
	TRAFFIC ARRAGEMENT												
		00.4	004 04	1 1 1 1 0	44.0 00	47 4	00 14 00						
Z3_3270	Construction period of Zone 3a_1	334	334 31	1-Jul-19	11-Sep-20	17-Apr-19	20-May-20				*****		*****
Z3_3340	Construction period of Zone 3c_1	343	343 31	1-Jul-19	22-Sep-20	22-May-19	30-May-20			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	*****	*****
Z3_3400	Construction period of Zone 3b_1	294	294 30	)-Sep-19	24-Sep-20	30-May-19	30-May-20						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
PREPARATOR													
		10	4 00			05 5 L 40	10.14 10						
Z3_2800	Zone 3_tree felling works	18	1 22	2-Jan-19 A	31-Jul-19	25-Feb-19	16-Mar-19		Zone 3_tree felling works				
BRIDGE AND	STRUCTURE WORKS											   	
PRELIMINARIE													
UTILITIES DIV NORTHBOU													
Z3_2910	UU_CLP-abandoned 11kv cable for RW6	13	13 31	1-Jul-19	14-Aug-19	03-Apr-19	18-Apr-19		UU CLP-a	oandoned 11kv c	able for RW6 CH16	75-1725 50m	
Z3 2920	CH1675-1725 50m UU HKT-diversion cable for RW7 CH1830-2000	34	34 16	6-Aug-19	25-Sep-19	16-Apr-19	31-May-19				UL	J HKT-diversion cable f	or RW7 CH1830-2
Z3_2930	170m UU CLP-abandoned 11kv cable for RW7 & SR4	22	22 30	)-Aug-19	25-Sep-19	04-May-19	31-May-19					J CLP-abandoned 11kv	
	CH1825-1950 125m			-	· ·	· ·					00	T	
Z3_3130	UU_Fresh watermain for SR4 178m 200mm	23	23 02	2-Sep-19	30-Sep-19	03-May-19	31-May-19					UU_Fresh watermain	for SR4 178m 200
SOUTHBOU													
Z3_2970	UU_HKT-new cable for RW1 & SR3 CH1450-2300 850m	127	127 31	1-Jul-19	31-Dec-19	01-Apr-19	04-Sep-19						
Z3_3050	UU_CLP-abandoned 11kv cable for SR2 & N263 CH1710-1950 240m	35	35 19	9-Aug-19	28-Sep-19	24-Apr-19	05-Jun-19					UU_CLP-abandoned 11	kv cable for SR2 8
Z3_3060	UU_GAS-diversion LP pipe for SR2 & N263 CH1640-1850 210m	51	51 31	1-Jul-19	28-Sep-19	01-Apr-19	05-Jun-19					UU_GAS-diversion LP	pipe for SR2 & N2
Z3_3070	UU_HKT-diversion cable for SR2 & N263	39	39 14	1-Aug-19	28-Sep-19	16-Apr-19	05-Jun-19					UU_HKT-diversion cab	e for SR2 & N263
Z3_3110	CH1630-1840 210m UU_GAS-diversion LP pipe for N263 CH1825-1960	38	38 15	5-Aug-19	28-Sep-19	17-Apr-19	05-Jun-19					UU_GAS-diversion LP	pipe for N263 CH1
Z3_3120	135m UU_Fresh watermain for Staircase & N263 150PE	23	23 24	4-Oct-19	19-Nov-19	29-Jun-19	26-Jul-19	<u> </u>					
WIDENING FO	DR NORTH HOLLOW ABUTMENT (N264)												
Rem	naining Level of Effort	ng Work		BOA		IING & P			RRIERS ON TAI	Date	Revisio		Approved
		emaining	Work	noai				TIN SECTION)		08-Aug-19	3MRP DWP 1	907 Tim	
		-	VVUIN				-		(10)				
	nary Baseline 🔷 🔷 Milestone				31	viontins H	-	ogramme (31/07	(19)				
Actu	al Work $\blacklozenge$ $\blacklozenge$ Baseline	Milestone					Page 4	l of 7					
l													

Activity ID	Activity Name	Original	Remaining 3MRP Start	3MRP Finish	AP6 Start	AP6 Finish			2019		
		Duration					Jul 13	Aug 14	Sep 15	Oct 16	Nov 17
Z3_4200	C01_ELS & footing construction	45	45 01-Aug-19	24-Sep-19	05-Apr-19	04-Jun-19	10			1 LS & footing construction	17
Z3_4210	C01_cloumn construction	40	40 24-Sep-19	12-Nov-19	04-Jun-19	23-Jul-19					
Z3_4220	N264_modification existing MTRC fencing for deck	60	60 01-Aug-19	14-Oct-19	05-Apr-19	22-Jun-19	-			N264_modifie	cation existi
Z3_4240	widening N264_temporary protection MTRC cable	45	45 24-Sep-19	18-Nov-19	04-Jun-19	29-Jul-19					
MODIFICATION	N OF BRIDGE N263										
RECONSTRUC	CTION ABUTMENT WALL AT NHA							· · · · · · · · · · · · · · · · · · ·			
Z3_4100	Demolish part of existing NHA wall for construction new wall	60	60 31-Jul-19*	11-Oct-19	17-Apr-19	03-Jul-19	_			Demolish part of	existing NI
Z3_4110	NAW-1_construct ELS & piling platform	42	42 31-Jul-19*	18-Sep-19	17-Apr-19	11-Jun-19			NAW-1_c	onstruct ELS & piling platform	
Z3_4120	NAW-1_piling works for new NHA wall 5nr 1.5m bored pile	70	70 30-Sep-19	21-Dec-19	12-Jun-19	02-Sep-19					
Z3_4150	NAW-2_construct ELS & piling platform	42	42 31-Jul-19	18-Sep-19	17-Apr-19	11-Jun-19			NAW-2_c	onstruct ELS & piling platform	
Z3_4160	NAW-2_piling works for new NHA wall 4nr 1.5m bored pile	56	56 30-Sep-19	05-Dec-19	12-Jun-19	16-Aug-19					·
MODIFICATIO	N EXISTING PIER WALL OF N263		ļ								į.
Z3_3870	SAW-1_piling works for new NHA wall 3nr 1.5m	42	42 30-Sep-19	19-Nov-19	06-Jun-19	26-Jul-19					
MODIFICATIO	bored pile N EXISTING SOUTH HOLLOW ABUTMENT WALL										
Z3_3950	SHA_piling works for pier SHA6 nos. Socket H-pile	48	48 30-Sep-19	26-Nov-19	30-May-19	27-Jul-19					
RETAINING WA	ALL & SUBWAY										
RETAINING W											
Z3_4550	RW1_demolish existing retaining structure between Bay 101 and Bay 104	45	45 31-Jul-19	21-Sep-19	22-May-19	16-Jul-19			RW1_	demolish existing retaining stru	cture betwe
Z3_4600	RW1_demolish existing retaining structure between Bay 105 and Bay 107	45	45 23-Sep-19	15-Nov-19	16-Jul-19	06-Sep-19					
RETAINING W											
Z3_1218_100	0 RW6_ELS works for Bay 601 to Bay 608 (62m_2 side)	35	32 12-Jul-19 A	15-Oct-19	27-May-19	12-Jul-19				RW6_ELS w	orks for Ba
Z3_1218_1010	0 RW6_base slab construction for Bay 601 to Bay 608	64	64 09-Sep-19	05-Dec-19	20-Jun-19	17-Sep-19					
Z3_1218_1020	0 RW6_retaining wall construction for Bay 601 to Bay 608	96	96 01-Oct-19	11-Feb-20	12-Jul-19	22-Nov-19					
Z3_1218_1040	0 RW6_soldier pile wall for Bay 609 to Bay 614 (53nr)	30	30 15-Aug-19	25-Sep-19	19-Apr-19	31-May-19			R	W6_soldier pile wall for Bay 60	9 to Bay 614
RETAINING W											
	0 RW7_ELS works for Bay 706 to Bay 711 (54m_2	30	27 12-Jul-19 A	25-Feb-20	17-Sep-19	28-Oct-19					· C
Z3_1218_2040	side) 0 RW7_soldier pile wall for Bay 701 to Bay 705 (62nr)	35	35 26-Sep-19	13-Nov-19	31-May-19	19-Jul-19			_		
Z3_1218_2050	0 RW7_base slab construction for Bay 701 & Bay 704	32	32 17-Oct-19	29-Nov-19	21-Jun-19	06-Aug-19					
	TING RETAINING WALL SR4										
Z3 5070	SR4 ELS works for Bay SR401 to Bay SR405	25	25 30-Sep-19	31-Oct-19	31-May-19	02-Jul-19					SR4 E
Z3 5080	(90m_1 side) SR4 base slab construction for Bay SR401 to Bay	40		18-Nov-19	31-May-19	19-Jul-19					OI14_L
Z3 5090	SR405 SR4 retaining wall construction for Bay SR401 to	60	· · · · · · · · · · · · · · · · · · ·	07-Jan-20	25-Jun-19	04-Sep-19					1
	SR405	00	00 23-001-19	07-5411-20	25-5011-19	04-3ep-19					
	TING SUBWAY NS30	100	100 01 14 10	00 Dec 10	00 May 10	15 Oct 10					
Z3_5200	Re-align existing subway NS30	120	120 31-Jul-19	20-Dec-19	22-May-19	15-Oct-19					
									Date Revisi	on Check Ap	proved
Rema	aining Level of Effort	ng Work	ROA	D WIDEN	ING & R	ETROFIT	FING NOISE BAI	RRIERS ON TAI			proveu
Actua	al Level of Effort Critical R	emaining	a Work		PO RO	DAD (SHA	TIN SECTION)		08-Aug-19 3MRP DWP	1907 Tim	
		-		2 1		-		(10)			
	ary Baseline $\diamond$ $\diamond$ Milestone			3 1		-	ogramme (31/07	(13)			
Actua	al Work <ul> <li>Baseline</li> </ul>	Mileston	e			Page 8	5 of 7				
						-					
									1		

ivity ID	Activity Name		emaining 3MRI	Start 3MRP Finis	h AP6 Start	AP6 Finish	lul	A	2019		1
		Duration	Duration				Jul 13	Aug 14	Sep 15	Oct 16	Nov 17
WORK BI	ETWEEN FOOTBRIDGE NF40	AND NF	-66 (ZON	E 4)							
PRELIMINARI											
TEMPORARY	TRAFFIC ARRAGEMENT										
TTA PERIOD		000	000 00 4	- 40 45 May 00	07 14 40	44 100 00					
Z4_1390	Construction Zone 4_Stage 1 Northbound structure	208	208 29-Au	15-May-20	07-May-19	14-Jan-20				÷	*****
Z4_1470	Construction Zone 4_NF66 Construction	220	220 19-Au	ıg-19 18-May-20	18-Apr-19	15-Jan-20		××××××	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	******	
Z4_1480	Construction Zone 4_NF40 Construction	489	489 31-Ju	II-19 22-Mar-21	01-Apr-19	23-Nov-20		¢	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	*****	*****
PREPARATOR	RY WORKS	<u> </u>	I								
	NG/TRANPLANT										
Z4_1320	Zone 4_NB tree felling works	18	0 25-Ja	in-19 A 29-Jun-19 /	A 31-Jan-19	23-Feb-19	NB tree telling works	-			
UTILITIES DIV		· · · ·									
Z4 1270	UU CLP-abandoned 33kv cable for N4	0	0 29-Au	Ig-19 29-Aug-19	07-May-19	07-May-19			UU_CLP-abandoned 33kv cable	for N4 CH2100-2350 250m	(Abandonec
	CH2100-2350 250m (Abandoned)			· ·	-	-	_		·		(/ ibailaonea
Z4_1280	UU_CATV-slew cable for N4 CH2190-2400 210m	25	25 31-Ju	II-19 29-Aug-19	02-Apr-19	06-May-19			UU_CATV-slew cable for N4 CH	12190-2400 210m	
Z4_1290	UU_CLP-abandoned 33kv cable for N4&SE6 CH2150-2160 20m (Abandoned)	0	0 29-Au	ug-19 29-Aug-19	07-May-19	07-May-19	_		UU_CLP-abandoned 33kv cable	for N4&SE6 CH2150-2160	20m (Aband
Z4_1300	UU_HKT-slew cable for N4 & NF66 CH2320-2360 40m	5	5 31-Ju	II-19 05-Aug-19	02-Apr-19	08-Apr-19	_	UU_HKT-slew cable fo	N4 & NF66 CH2320-2360 40m		
Z4_1360	UU_Fresh watermain for N4 CH2150-2200 77m	40	40 29-Au	ıg-19 18-Oct-19	07-May-19	24-Jun-19				UU_F	resh waterm
NOISE BARRI	600mm IER AND SEMI-ENCLOSURE										
PILE CAP AND	D FOOTING										
NORTHBOUN											
Z4_1000	N4_ELS for footing construction N4-12 to N4-29 (231m 2 side)	64	64 29-Au	ıg-19 15-Nov-19	07-May-19	23-Jul-19					
Z4_1010	N4_footing construction N4-12 to N4-29 (18nr)	126	126 30-Se	ep-19 03-Mar-20	05-Jun-19	04-Nov-19					
BRIDGE AND	STRUCTURE WORKS	· · · ·	/								
	N WORKS FOR NF40	1 1									
NF40_1000	Construct temporary staircase	60	60 31-Ju	II-19 11-Oct-19	01-Apr-19	17-Jun-19				Construct ten	porary stair
NF40_1010	Demolish existing staircase & part of existing footing	45	45 12-0	ct-19 03-Dec-19	18-Jun-19	09-Aug-19					
MODIFICATIO	N WORKS FOR NF66									+	
NF66_1000	ELS & 1st stage pile cap construction (CSD)	50	50 19-Au	ıg-19 18-Oct-19	18-Apr-19	22-Jun-19				ELS &	1st stage pi
NF66_1010	Pile cap construction (CSD)	35	35 19-O	ct-19 28-Nov-19	22-Jun-19	03-Aug-19					
	ETWEEN FOOTBRIDGE NF66		TAN BC		5)						
PRELIMINARI					5)						
PREPARATOR											
TREE FELLIN	NG/TRANPLANT										
Z5_1710	Zone 5_tree felling works	18	6 22-Ja	In-19A 18-Feb-20	21-Sep-19	15-Oct-19					
PORTION	NE (ZONE 5)										
PRELIMINARI											
PREPARATOR	RY WORKS										
	naining Level of Effort	a Work							Date Revisio	n Check	Approved
		-					TING NOISE BA	KRIEKS UN TAI	08-Aug-19 3MRP DWP 1		
		emaining	Work			-	A TIN SECTION)				
Prim	nary Baseline 🔷 🔷 Milestone	9		3	Months F	Rolling Pr	ogramme (31/07	/19)			
Actu	ual Work	Milestone				Page	6 of 7				
		-				0-					

Ac	tivity ID	Activity Name	Original	Remaining	3MRP Start	3MRP Finish	AP6 Start	AP6 Finish			2019		
			Duration	Duration					Jul	Aug	Sep	Oct	Nov
									13	14	15	16	17
	TREE FELLING/TRANPLANT												
		Portion E tree felling works	30	7	22-Jan-19 A	21-Sep-20	15-Apr-20	22-May-20				1	
	-	_ 0										1	

Remaining Level of Effort		Remaining Work	ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI	Date	Revision	Check	Approved
Actual Level of Effort		Critical Remaining Work	PO ROAD (SHA TIN SECTION)	08-Aug-19	3MRP DWP 1907	Tim	
Primary Baseline	_	♦ Milestone	3 Months Rolling Programme (31/07/19)				
,	~						
Actual Work	•	Baseline Milestone	Page 7 of 7				

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, N.T., Hong Kong.

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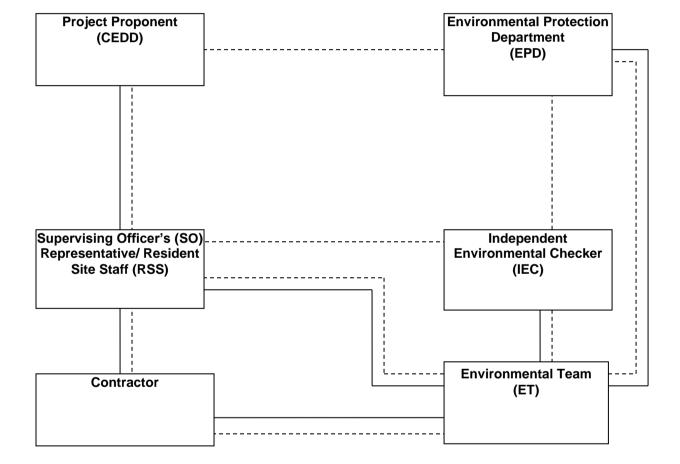


Appendix B

**Project Organization Chart** 

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, N.T., Hong Kong. Tel : +852 2450 8233 Fax : +852 2450 6138 E-mail : matlab@fugro.com Website : www.fugro.com





Legen	Legend:							
	Line of Reporting							
	Line of Communication							

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Appendix C

Action and Limit Levels for Air Quality and Noise

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## Action and Limit Levels for 24-hr TSP and 1-hr TSP

Parameter	Monitoring Station	Action Level (µg/m³)	Limit Level (µg/ m³)
	AMS 4A	200	
24-hr TSP	AMS 6	165	260
(µg/m³)	AMS 7A	171	200
	AMS 15	172	
	AMS 4A	348	
1-hr TSP	AMS 6	347	500
(µg/m³)	AMS 7A	344	500
	AMS 15	350	

## Action and Limit Levels for Construction Noise, Leq (30min), dB(A)

Time Period	Location	Action	Limit
0700-1900 hrs on normal weekdays	NMS1 NMS2 NMS3 NMS4 NMS5A NMS6A NMS7 NMS6A NMS7 NMS10A* NMS10A* NMS10A* NMS10A* NMS10A* NMS12* NMS11 NMS12* NMS13 NMS14 NMS15 NMS16 NMS15 NMS16 NMS17* NMS18 NMS19 NMS20 NMS23 NMS24 NMS25A NMS26 NMS26 NMS27*	When one documented complaint is received	75 dB(A)

\* For NMS 10A, 12, 17 and 27, the Limit Level is reduced to 70 dB(A) for schools and 65 dB(A) during school examination periods.

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Appendix D

**Calibration Certificates of Monitoring Equipment** 

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Page 1 of 1

Report no.: 940891CA181789(2)

## CALIBRATION CERTIFICATE OF DUST METER

Client : Fugro Technical Services Limited

Project : Calibration Services

## **Client Supplied Information**

Details of Unit Under Test, UUT

Description	: Laser dust monitor
Manufacturer	: SIBATA
Model No.	: LD-5R
Serial No.	: 761105
Specification Limit	: NA
Next Calibration Date	: 04-Oct-2019

## Laboratory Information

Description	:	Reference balance	
Equipment ID.	:	R-039-12	
Date of Calibration	;	05-Oct-2018	Ambient Temperature : 21 °C
Calibration Location	;	Calibration Laboratory of FTS	S
Method Used	:	By direct comparison the we	ight of dust particle trapped in a filter paper using high
		volume sampler (TSP metho	d) for a certain period, with the reading of the UUT. They
		should be placed at the same	e location and powered on and off at the same time.

## Calibration Results :

Reference concentration (mg/m <sup>3</sup> )	Total count for 1 hour	CPM (Count per minute)		
0.1165	3433	57.22		
0.1232	3523	58.72		
0.1489	4156	69.27		

## **Remarks:**

1. The equipment being used in this calibration is traceable to recognized National Standards.

2. The interpolation equation : Concentration (mg/m<sup>3</sup>) = K x [UUT reading (CPM)], where K = 0.002098

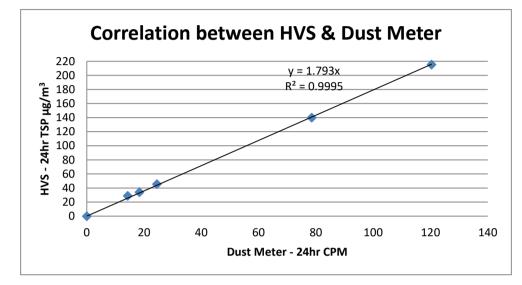
3. Correlation coefficient (r): 0.9966

Checked by : \_\_\_\_\_\_ Date : <u>15-11-2018</u> Certified by : <u>KJ Kelung</u> Date : <u>15-11-2018</u> CA-R-297 (22/07/2009) Leung Kwok Tai (Assistant Manager)

\*\* End of Report \*\*

Correlation between HVS & Dust Meter			
Model:	Sibata LD-5R		
Serial No:	761105		

HVS - 24hr TSP μg/m <sup>3</sup>	28.99	34.06	45.57	139.89	215.48
Dust Meter - 24hr CPM	14.3	18.4	24.5	78.51	120.36



K factor = 1.793

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Page 1 of 1

Report no.: 940891CA181731

## CALIBRATION CERTIFICATE OF DUST METER

Client : Fugro Technical Services Limited

Project : Calibration Services

## **Client Supplied Information**

Details of Unit Under Test, UUT

Description	: Laser dust monitor
Manufacturer	: SIBATA
Model No.	: LD-5R
Serial No.	: 882146
Specification Limit	: NA
Next Calibration Date	: 02-Oct-2019

## Laboratory Information

Description	:	Reference balance	
Equipment ID.	:	R-039-12	
Date of Calibration	:	03-Oct-2018	Ambient Temperature : 21 °C
Calibration Location	;	Calibration Laboratory of FTS	S
Method Used	:	By direct comparison the we	ight of dust particle trapped in a filter paper using high
		volume sampler (TSP metho	d) for a certain period, with the reading of the UUT. They
		should be placed at the same	e location and powered on and off at the same time.

## Calibration Results :

Reference concentration (mg/m <sup>3</sup> )	Total count for 1 hour	CPM (Count per minute)		
0.0912	2918	48.63		
0.0971	3050	50.83		
0.0853	2721	45.35		

## **Remarks:**

1. The equipment being used in this calibration is traceable to recognized National Standards.

2. The interpolation equation : Concentration (mg/m<sup>3</sup>) = K x [UUT reading (CPM)], where K = 0.001889

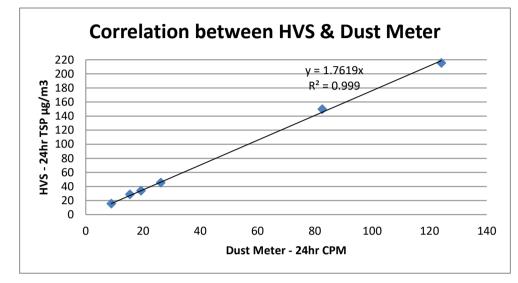
3. Correlation coefficient (r) : 0.9936

Checked by : Certified by : CAR-297 (22/07/2009) Date : 5-11-2018 Certified by : CAR-297 (22/07/2009) Leung Kwok Tai (Assistant Manager)

\*\* End of Report \*\*

Correlation between HVS & Dust Meter Model: Sibata LD-5R Serial No: 882146

HVS - 24hr TSP μg/m <sup>3</sup>	15.62	28.99	34.06	45.57	149.88	215.67
Dust Meter - 24hr CPM	8.9	15.4	19.3	26.2	82.59	124.12



K factor = 1.762

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Report no.: 940891CA181731(4)

# CALIBRATION CERTIFICATE OF DUST METER

Client : Fugro Technical Services Limited

Project : Calibration Services

## **Client Supplied Information**

Details of Unit Under Test, UUT

Description	: Laser dust monitor
Manufacturer	: SIBATA
Model No.	: LD-5R
Serial No.	: 882147
Specification Limit	: NA
Next Calibration Date	: 02-Oct-2019

## Laboratory Information

Description	:	Reference balance			
Equipment ID.	:	R-039-12			
Date of Calibration	;	03-Oct-2018	Ambient Temperature : 21 °C		
Calibration Location	:	Calibration Laboratory of FT	S		
Method Used	:	By direct comparison the we	ight of dust particle trapped in a filter paper using high		
		volume sampler (TSP method) for a certain period, with the reading of the UUT. They			
		should be placed at the sam	e location and powered on and off at the same time.		

## Calibration Results :

Reference concentration (mg/m <sup>3</sup> )	Total count for 1 hour	CPM (Count per minute)		
0.0912	2874	47.90		
0.0971	3057	50.95		
0.0853	2580	43.00		

## **Remarks:**

1. The equipment being used in this calibration is traceable to recognized National Standards.

2. The interpolation equation : Concentration (mg/m<sup>3</sup>) = K x [UUT reading (CPM)], where K = 0.001929

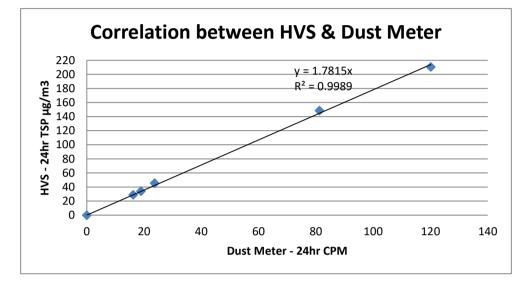
3. Correlation coefficient (r): 0.9911

Checked by :	_ Date : <u>5 - 11 - 2018</u>	_ Certified by :_	K I Tenna	Date :	6-11-2018
CA-R-297 (22/07/2009)		Leung Kw	vok Tai (Assistant I	Manager)	

\*\* End of Report \*\*

Correlation between HVS & Dust Meter				
Model:	Sibata LD-5R			
Serial No:	882147			

HVS - 24hr TSP μg/m <sup>3</sup>	28.99	34.06	45.57	148.63	210.59
Dust Meter - 24hr CPM	16.2	18.9	23.7	81.23	120.11



K factor = 1.782

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Report no.: 940891CA181731(2)

# CALIBRATION CERTIFICATE OF DUST METER

Client : Fugro Technical Services Limited

Project : Calibration Services

## **Client Supplied Information**

Details of Unit Under Test, UUT

Description	: Laser dust monitor
Manufacturer	: SIBATA
Model No.	: LD-5R
Serial No.	: 882148
Specification Limit	: NA
Next Calibration Date	: 02-Oct-2019

## Laboratory Information

Description	: R	Reference balance		
Equipment ID.	: R	8-039-12		
Date of Calibration	: 03	3-Oct-2018	Ambient Temperature : 21	°C
Calibration Location	: C	alibration Laboratory of FTS	6	
Method Used	: B	y direct comparison the wei	ght of dust particle trapped in a	filter paper using high
	VC	olume sampler (TSP metho	d) for a certain period, with the r	eading of the UUT. They
	sł	hould be placed at the same	e location and powered on and o	off at the same time.

## Calibration Results :

Reference concentration (mg/m <sup>3</sup> )	Total count for 1 hour	CPM (Count per minute)
0.0912	2908	48.47
0.0971	3076	51.27
0.0853	2639	43.98

## **Remarks:**

1. The equipment being used in this calibration is traceable to recognized National Standards.

2. The interpolation equation : Concentration  $(mg/m^3) = K \times [UUT reading (CPM)]$ , where K = 0.001904

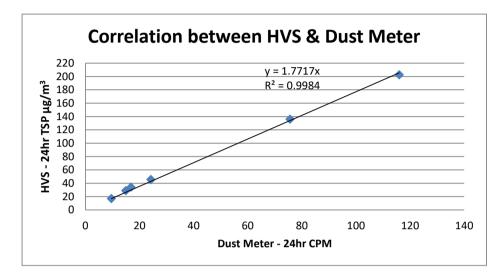
3. Correlation coefficient (r) : 0.9912

Checked by :	Date :_	5-11-208	Certified by :_	K.T. Leung	Date: 6-11-2018
CA-R-297 (22/07/2009)			Leung Kv	vok Tai (Assistant	Manager)

\*\* End of Report \*\*

Correlation between HVS & Dust Meter				
Model:	Sibata LD-5R			
Serial No:	882148			

HVS - 24hr TSP μg/m <sup>3</sup>	16.99	28.99	34.06	45.57	135.96	202.64
Dust Meter - 24hr CPM	9.6	14.9	16.8	24.2	75.63	115.96



K factor = 1.772

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Report no.: 183057CA195786

## CALIBRATION CERTIFICATE OF SOUND LEVEL METER

## **Client Supplied Information**

Client : Fugro Technical Services Ltd.

## Project : Calibration Services

Details of Unit Under Test, UUT

Description	÷	Sound Level Meter				
Manufacturer	ж ж	Casella				
		Meter	Microphone	Preamplifier		
Model No.		CEL-63X	CE-251	CEL-495		
Serial No.	÷	0873599	02809	003967		
Next Calibration Date		17-Jun-2020				
Specification Limit	20 50	EN 61672. 2003 Type 1				

## Laboratory Information

Description:B & K Acoustic Multifunction Calibrator 4226 (Traditional free field setting)Equipment ID.:R-108-1Date of Calibration :18-Jun-2019Ambient Temperature :22 °C

Calibration Location : Calibration Laboratory of FTS

Method Used : By direct comparison

## Calibration Results :

Parame	ters	Mean Value (dB)	Specific	ation	Limit(dB)
	4000Hz	1.4	2.6	to	-0.6
	2000Hz	1.3	2.8	to	-0.4
	1000Hz	0.0	1.1	to	-1.1
A-weighting	500Hz	-3.4	-1.8	to	-4.6
frequency response	250Hz	-8.8	-7.2	to	-10.0
response	125Hz	-16.2	-14.6	to	-17.6
	63Hz	-26.2	-24.7	to	-27.7
	31.5Hz	-39.2	-37.4	to	-41.4
Differential level linearity	94dB-104dB	0.0		± 0.6	5
	104dB-114dB	0.0		± 0.6	3

## Remarks :

- 1. The equipment used in this calibration is traceable to recognized National Standards.
- 2. The mean value is the average of four measurements.
- 3. For calibration: Reference SPL are 94, 104 & 114dB, range setting is 20-140dB & time weighting is fast
- 4. The equipment does comply with EN 61672: 2003 Type 1 sound level meter for the above measurement.
- 5. The values given in this Calibration Certificate only relate to the unit-under-test and the values measured at the time of the test. Uncertainties will not include allowances for the environmental changes, variation and shock during transportation, or the capability of any other laboratory to repeat the measurement.

Checked by :	William	Date :	21-6-2019	Certified by : _	FINDING	Date : 71-6-2019
CA-R-297 (22/07/2009)				Leu	ng Kwok Tai (Assis	stant Manager)



# Certificate of Conformity and Calibration

Instrument Model:- Serial Number Firmware revision	<b>CEL-633</b> 1488270 V006-03	A			
<u>Microphone Type:-</u> Serial Number	CEL-251 2772		nplifier Type:- Number	CEL-495 004014	
Instrument Class/Type:-	1				
Applicable standards:-					
IEC 61672: 2002 / EN 606 IEC 60651 1979 (Sound L			ns For Sound Leve	el Meters)	
Note:- The test sequences p Standard - IEC61672. The col electro-acoustic performance Standards - IEC60651 and IE	mbination of tests perfe to all applicable standa	ormed are considered to cor	firm the products	level meter	10
Test Conditions:-	30 °C 58 %RH 1003 mBar	Test Engineer:- Date of Issue:-	Chris Taylor September 7,	2018	

### Declaration of conformity:-

This test certificate confirms that the instrument specified above has been successfully tested to comply with the manufacturer's published specifications. Tests are performed using equipment traceable to national standards in accordance with Casella's ISO 9001:2008 quality procedures. This product is certified as being compliant to the requirements of the CE Directive.

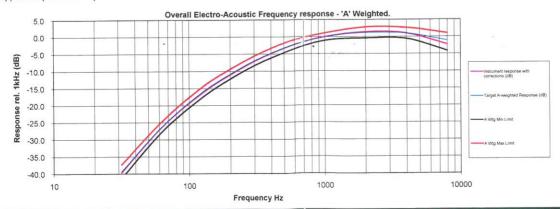
Test	Sumi	mary	1:

Self Generated Noise Test	All Tests Pass
Electrical Signal Test Of Frequency Weightings	All Tests Pass
Frequency & Time Weightings At 1 kHz	All Tests Pass
Level Linearity On The Reference Level Range	All Tests Pass
Toneburst Response Test	All Tests Pass
C-peak Sound Levels	All Tests Pass
Overload Indication	All Tests Pass
Acoustic Tests	All Tests Pass

### Combined Electro-Acoustic Frequency Response - A Weighted

Combined Electro-Acoustic Frequency Response - A Weighted (IEC 61672-3:2006)

The following A-Weighted frequency response graph shows this instruments overall frequency response based upon the application of multi-frequency pressure field calibrations. The microphones Pressure to Free field correction coefficients are applied to pressure response. Reference level taken at 1kHz.



#### Casella UK

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### Casella USA

415 Lawrence Bell Drive, Unit 4 Buffalo, NY 14221, USA Toll Free (800) 366-2966 Tel: +1 (716) 276 3040 E-mail: info@casellausa.com

olutions.com

### Casella India

Ideal Industries India Pvt Ltd. 229-230, Spazedge, Tower -B Sohna Road, Sector-47, Gurgaon-122001, Haryana , India. Tel: +91 124 4495100 E-mail: casella.sales@ideal-industries.in

### Casella China

ldeal Industries China Room 305, Building 1, No.1279, Chuanqiao Rd, Pudong New District, Shanghai, China

Tel: +86-21-31263188 Fax: +86-21-61605906 Email: info@casellasolutions.cn

### Casella Australia

Ideal Industries (Aust) PTY. LTD Unit 17, 35 Duniop Rd, Mulgrave. Vic. 3170, Australia.

Email: australia@casellasolutions.com

Tested to CEL-63X test sheet TP444 revision 01-00



# Certificate of Conformity and Calibration

Instrument Model:- Serial Number Firmware revision	<b>CEL-633A</b> 1488271 V006-03			
<u>Microphone Type:-</u> Serial Number	<b>CEL-251</b> 2809	<u>Preampl</u> Serial No	lifier Type:- umber	CEL-495 003984
Instrument Class/Type:-	1			
Applicable standards:-				
IEC 61672: 2002 / EN 60651 (Ele IEC 60651 1979 (Sound Level M			For Sound Level N	leters)
Note:- The test sequences perform Standard - IEC61672. The combinatio electro-acoustic performance to all ap Standards - IEC60651 and IEC60804	n of tests perfor plicable standar	med are considered to confirm	m the products	el meter
<u>Test conditions.</u>	31 °C 51 %RH 00 mBar	Test Engineer:- Date of Issue:-	Chris Taylor September 7, 20	18

### Declaration of conformity:-

This test certificate confirms that the instrument specified above has been successfully tested to comply with the manufacturer's published specifications. Tests are performed using equipment traceable to national standards in accordance with Casella's ISO 9001:2008 quality procedures. This product is certified as being compliant to the requirements of the CE Directive.

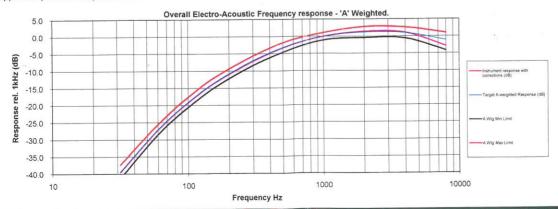
### Test Summary:-

Self Generated Noise Test	All Tests Pass
Electrical Signal Test Of Frequency Weightings	All Tests Pass
Frequency & Time Weightings At 1 kHz	All Tests Pass
Level Linearity On The Reference Level Range	All Tests Pass
Toneburst Response Test	All Tests Pass
C-peak Sound Levels	All Tests Pass
Overload Indication	All Tests Pass
Acoustic Tests	All Tests Pass

### Combined Electro-Acoustic Frequency Response - A Weighted

Combined Electro-Acoustic Frequency Response - A Weighted (IEC 61672-3:2006)

The following A-Weighted frequency response graph shows this instruments overall frequency response based upon the application of multi-frequency pressure field calibrations. The microphones Pressure to Free field correction coefficients are applied to pressure response. Reference level taken at 1kHz.



#### Casella UK

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### Casella USA

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### Casella India

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Casella Australia

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Email: australia@casellasolutions.com

Tested to CEL-63X test sheet TP444 revision 01-00



CEL-495 003917

# Certificate of Conformity and Calibration

Preamplifier Type:-

Serial Number

Instrument Model:-	CEL-633A		
Serial Number	1488289		
Firmware revision	V006-03		
Microphone Type:-	CEL-251		
Serial Number	2706		

Instrument Class/Type:-

### Applicable standards:-

IEC 61672: 2002 / EN 60651 (Electroacoustics - Sound Level Meters) IEC 60651 1979 (Sound Level Meters), ANSI S1.4: 1983 (Specifications For Sound Level Meters)

1

Note:- The test sequences performed in this report are in accordance with the current Sound level meter Standard - IEC61672. The combination of tests performed are considered to confirm the products electro-acoustic performance to all applicable standards including superceeded Sound Level Meter Standards - IEC60651 and IEC60804.

Test Conditions:-	31 °C 51 %RH	Test Engineer:- Date of Issue:-	Chris Taylor September 10, 2018	
	1000 mBar			

### Declaration of conformity:-

This test certificate confirms that the instrument specified above has been successfully tested to comply with the manufacturer's published specifications. Tests are performed using equipment traceable to national standards in accordance with Casella's ISO 9001:2008 quality procedures. This product is certified as being compliant to the requirements of the CE Directive.

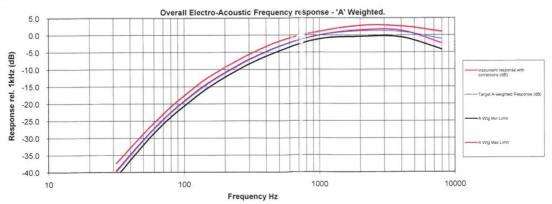
Т	es	t S	um	ma	ry:-

Self Generated Noise Test	All Tests Pass
Electrical Signal Test Of Frequency Weightings	All Tests Pass
Frequency & Time Weightings At 1 kHz	All Tests Pass
Level Linearity On The Reference Level Range	All Tests Pass
Toneburst Response Test	All Tests Pass
C-peak Sound Levels	All Tests Pass
Overload Indication	All Tests Pass
Acoustic Tests	All Tests Pass

#### Combined Electro-Acoustic Frequency Response - A Weighted

Combined Electro-Acoustic Frequency Response - A Weighted (IEC 61672-3:2006)

The following A-Weighted frequency response graph shows this instruments overall frequency response based upon the application of multi-frequency pressure field calibrations. The microphones Pressure to Free field correction coefficients are applied to pressure response. Reference level taken at 1kHz.



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Casella India

Casella China

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Tested to CEL-63X test sheet TP444 revision 01-00

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, N.T., Hong Kong. Tel : +852 2450 8233 Fax : +852 2450 6138 E-mail : matlab@fugro.com Website : www.fugro.com



Report no.: 183057CA195786(2)

Page 1 of 1

## CALIBRATION CERTIFICATE OF SOUND CALIBRATOR

## **Client Supplied Information**

Client : Fugro Technical Services Ltd.

## Project : Calibration Services

## Details of Unit Under Test, UUT

Description	:	Sound Calibrator
Manufacturer	:	Casella (Model no. CEL-120/1)
Serial No.	:	1677126
Equipment ID	:	N/A
Next Calibration Date	÷	17-Jun-2020
Specification Limit	:	EN 60942: 2003 Type 1

## Laboratory Information

Description	:	Reference Sound lev	Reference Sound level meter		
Equipment ID.	:	R-119-1			
Date of Calibrat	tion	: 18-Jun-2019	Ambient Temperature :	22	°C
Calibration Location : Calibration Laboratory of FTS					
Method Used	:	By direct comparison			

## Calibration Results :

Parameters (Setting of UUT)	Mean Value (error of measurement)	Specification Limit(dB)	
94dB	0.4 dB	+0.4dP	
114dB	0.4 dB	±0.4dB	

### Remarks :

- 1. The equipment used in this calibration is traceable to recognized National Standards.
- 2. The mean value is the average of four measurements.
- 3. The equipment does comply with the specification limit.

Checked by :	Reillicia	Date : >1 - 6-201	Certified by :_	KILlung	Date : 21-	6-2019
CA-R-297 (22/07/20	09)		Leun	g Kwok Tai (Assist	ant Manager)	

\*\* End of Report \*\*

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, N.T., Hong Kong.

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Report no.: 183057CA195161(1)

Page 1 of 1

# CALIBRATION CERTIFICATE OF SOUND CALIBRATOR

## **Client Supplied Information**

Client : Fugro Technical Services Limited

Address : Room 723 & 725, 7/F., Block B Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Chung, N.T.

Project : Calibration Services

## Details of Unit Under Test, UUT

Description	÷	Sound Calibrator
Manufacturer		Casella (Model no. CEL-120/1)
Serial No.	:	3321858
Next Calibration Date	:	06-Mar-2020
Specification Limit	:	EN 60942: 2003 Type 1

## Laboratory Information

Description	ţ,	Reference Sound level	meter			
Equipment ID.	÷	R-119-1				
Date of Calibra	tion	: 07-Mar-2019	Ambient Temperature :	22	°C	
Calibration Location : Calibration Laboratory of FTS						
Method Used	ţ	By direct comparison				

## Calibration Results :

Parameters (Setting of UUT)	Mean Value (error of measurement)	Specification Limit(dB)
94dB	-0.3 dB	±0.4dB
114dB	-0.3 dB	10.405

### Remarks :

1. The equipment used in this calibration is traceable to recognized National Standards.

2. The mean value is the average of four measurements.

3. The equipment does comply with the specification limit.

Checked by :	William	Date :	12-3-2019	Certified by : _	K J. Loung	Date	15-3-201	9
CA-R-297 (22/07/2009	)			Leu	ing Kwok Tai (Assi	stant Man	ager)	

Leung Kwok Tai (Assistant Manager)

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Page 1 of 1

Report no.: 183057CA195577(1)

# CALIBRATION CERTIFICATE OF SOUND CALIBRATOR

## **Client Supplied Information**

Client : Fugro Technical Services Ltd.

Project : Calibration Services

## Details of Unit Under Test, UUT

Description	;	Sound Calibrator
Manufacturer	;	Casella (Model no. CEL-120/1)
Serial No.	÷	5230758
Equipment ID	÷	FY-SLC-01
Next Calibration Date	* *	16-May-2020
Specification Limit	÷	EN 60942: 2003 Type 1

## Laboratory Information

Description	:	Reference Sound level	meter		
Equipment ID.	:	R-119-1			
Date of Calibrat	tion	: 17-May-2019	Ambient Temperature :	22	°C
Calibration Loca	atior	n: Calibration Laborato	ry of FTS		
Method Used	:	By direct comparison			

## Calibration Results :

Parameters (Setting of UUT)	Mean Value (error of measurement)	Specification Limit(dB)
94dB	-0.2 dB	
114dB	-0.2 dB	±0.4dB

## Remarks :

- 1. The equipment used in this calibration is traceable to recognized National Standards.
- 2. The mean value is the average of four measurements.
- 3. The equipment does comply with the specification limit.
- 4. The values given in this Calibration Certificate only relate to the unit-under-test and the values measured at the time of the test. Uncertainties will not include allowances for the environmental changes, variation and shock during transportation, or the capability of any other laboratory to repeat the measurement.

Checked by :	William	Date :	17-5-2019	_Certified by : _	C'I Loung	Date :	18-5-2019
CA-R-297 (22/07/2009	)			Le	ung Kwok Tai (Ass	istant Mar	nager)

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, N.T., Hong Kong. Tel : +852 2450 8233 Fax : +852 2450 6138 E-mail : matlab@fugro.com Website : www.fugro.com



Page 1 of 1

Report no.: 183057CA185677

## CALIBRATION CERTIFICATE OF SOUND CALIBRATOR

## **Client Supplied Information**

Client : MateriaLab Consultants Ltd.

**Project : Calibration Services** 

## Details of Unit Under Test, UUT

Description	:	Sound Calibrator
Manufacturer	:	Casella (Model no. CEL-120/1)
Serial No.	:	5230950
Equipment ID	÷	N/A
Next Calibration Date	:	15-Nov-2019
Specification Limit	:	EN 60942: 2003 Type 1

## Laboratory Information

Description :	Reference Sound level	meter		
Equipment ID. :	R-119-1			
Date of Calibration	: 16-Nov-2018	Ambient Temperature :	22	°C
Calibration Location : Calibration Laboratory of FTS				
Method Used	By direct comparison			

## **Calibration Results :**

Parameters (Setting of UUT)	Mean Value (error of measurement)	Specification Limit(dB)
94dB	0.0 dB	±0.4dB
114dB	0.1 dB	±0.40B

### Remarks :

- 1. The equipment used in this calibration is traceable to recognized National Standards.
- 2. The mean value is the average of four measurements.
- 3. The equipment does comply with the specification limit.

Checked by :	Date: +-12-2018 Certified by: FJ. Koung Date: 6-12-2018
CA-R-297 (22/07/2009)	Leung Kwok Tai (As <u>si</u> stant Manager)

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Appendix E

**Environmental Monitoring Schedules and Examination Schedules** 

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				·	1	2	3
Aug-19							AMS4A Wai Wah Centre AMS6 Shatin Plaza AMS7A Sheung Wo Che AMS15 Ha Wo Che
	4	5	6	7	8	9	10
						AMS4A Wai Wah Centre AMS6 Shatin Plaza AMS7A Sheung Wo Che AMS15 Ha Wo Che	
						NMS 13, NMS 14, NMS17, NMS 19, NMS 20, NMS 24, NMS 25A, NMS 26	NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, NMS 6A, NMS 7, NMS 15, NMS 16, NMS 18,NMS 23, NMS 27
	11	12	13	14	15	16	17
					AMS4A Wai Wah Centre AMS6 Shatin Plaza AMS7A Sheung Wo Che AMS15 Ha Wo Che		
					NMS 8, NMS9, NMS 10A, NMS 11, NMS 12, NMS 13, NMS 14, NMS17, NMS 19, NMS 20, NMS 24, NMS 25A, NMS 26	NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, NMS 6A, NMS 7, NMS 15, NMS 16, NMS 18,NMS 23, NMS 27	
	18	19	20	21	22	23	24
				AMS4A Wai Wah Centre AMS6 Shatin Plaza AMS7A Sheung Wo Che AMS15 Ha Wo Che			
				NMS 8, NMS9, NMS 10A, NMS 11, NMS 12, NMS 13, NMS 14, NMS17, NMS 19, NMS 20, NMS 24, NMS 25A, NMS 26	6A, NMS 7, NMS 15, NMS 16, NMS 18,NMS 23, NMS 27		
	25	26		28	29	30	31
			AMS4A Wai Wah Centre AMS6 Shatin Plaza AMS7A Sheung Wo Che AMS15 Ha Wo Che				
		itoring may be subjected to change due to any	NMS 13, NMS 14, NMS17, NMS 19, NMS 20, NMS 24, NMS 25A, NMS 26	NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, NMS 6A, NMS 7, NMS 15, NMS 16, NMS 18,NMS 23, NMS 27			

Remark 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.

2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

3. According to the Hong Kong Observatory, anticipated wind directions in August 2019 are south west, north east and east.

4. According to the Contractor, the anticipated major construction activities in the reporting month includes:

(1) Construct temporary road & site access such as excavation in Zone 1, 2, 3 and 5.

(2) Construct temporary road & site access such as excavation and breaking works in Zone 5.

(3) Construct piling platform & site access, such as excavation and sheeting piling in Zone 3.

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	. 1	2	3	4	5	6	7
		AMS4A Wai Wah Centre AMS6 Shatin Plaza AMS7A Sheung Wo Che AMS15 Ha Wo Che					AMS4A Wai Wah Centre AMS6 Shatin Plaza AMS7A Sheung Wo Che AMS15 Ha Wo Che
		NMS 13, NMS 14, NMS17, NMS 19, NMS 20,	23, NMS 27				
	8	9	10	11	12	13	14
					AMS4A Wai Wah Centre AMS6 Shatin Plaza AMS7A Sheung Wo Che AMS15 Ha Wo Che		
					NMS 13, NMS 14, NMS17, NMS 19, NMS 20, NMS 24, NMS 25A, NMS 26	NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, NMS 6A, NMS 7, NMS 15, NMS 16, NMS 18,NMS 23, NMS 27	
	15	16	17	18	19	20	21
Sep-19				AMS4A Wai Wah Centre AMS6 Shatin Plaza AMS7A Sheung Wo Che AMS15 Ha Wo Che			
					NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, NMS 6A, NMS 7, NMS 15, NMS 16, NMS 18,NMS 23, NMS 27		
	22	23	24	25	26	27	28
Durati			AMS4A Wai Wah Centre AMS6 Shatin Plaza AMS7A Sheung Wo Che AMS15 Ha Wo Che				
	29	30					
		AMS4A Wai Wah Centre AMS6 Shatin Plaza AMS7A Sheung Wo Che AMS15 Ha Wo Che					
	4. 4 - thursday						

Remark 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.

2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

3. According to the Hong Kong Observatory, anticipated wind directions in September 2019 are north, south east, south west, north east and east.

4. According to the Contractor, the anticipated major construction activities in the reporting month includes:

(1) Temporary road & site access construction such as excavation in Zone 1, 2, 4 and 5.

(2) Central median modification in Zone 2 and 3.

(3) Underground utilities diversion, such as breaking or excavation in Zone 3.

(4) Bore piling and retaining wall construction, such as pre-drilling, piling, excavation in Zone 3

Room 723 & 725, 7/F, Block B, Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Fong, Hong Kong

Tel : (852)-24508238 Fax : (852)-24508032 Email : mcl@fugro.com



## Project: Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

## Tentative Regular Night Time Noise Monitoring Schedule (Rev. A)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1 August	2 August	3 August
				Regular night time noise monitoring	Regular night time noise monitoring	
4 August	5 August	6 August	7 August	8 August	9 August	10 August
				Regular night time noise monitoring	Regular night time noise monitoring	
11 August	12 August	13 August	14 August	15 August	16 August	17 August
				Regular night time noise monitoring	Regular night time noise monitoring	
18 August	19 August	20 August	21 August	22 August	23 August	24 August
				(*) Regular night time noise monitoring		
25 August	26 August	27 August	28 August	29 August	30 August	31 August
				(*) Regular night time noise monitoring		

## Remarks

1. Regular night time noise monitoring will be conducted at 21 monitoring stations in two days of each week.

2. Actual monitoring schedule may be subjected to change due to any safety concern or adverse weather condition.

(\*) Due to safety concern, two staffs will carry out the night time noise monitoring together at all 21 monitoring stations on the same monitoring night (e.g.22 & 29 August 2019).

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Profit Industrial Building,
1-15 Kwai Fung Crescent, Kwai Fong,
Hong Kong

Tel : (852)-24508238 Fax : (852)-24508032 Email : mcl@fugro.com



# Project: Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

# Tentative Regular Night Time Noise Monitoring Schedule (September 2019)

Mon	Tue	Wed	Thu	Fri	Sat	
2	3	4	5	6	7	
	Regular night tim noise monitoring	ie				
9	10	11	12	13	14	
			Regular night time noise monitoring			
16	17	18	19	20	21	
			Regular night time noise monitoring			
23	24	25	26	27	28	
			Regular night time noise monitoring			
30						
	2 9 16 23	23Regular night tim noise monitoring91016172324	234Regular night time noise monitoring1191011161718232425	2345Regular night time noise monitoring1011129101112Regular night time noise monitoringRegular night time noise monitoring1617181923242526Regular night time noise monitoringRegular night time noise monitoring	23456Regular night time noise monitoring111213910111213Regular night time noise monitoring161718192016171819202324252627Regular night time noise monitoring20Regular night time noise monitoring20	234567Regular night time noise monitoring1112131491011121314Regular night time noise monitoring11121314161718192021232425262728Regular night time noise monitoring202128

# Remarks

- 1. Due to safety concern, two staffs will carry out the night time noise monitoring together at all 21 monitoring stations on the same monitoring night of each week.
- 2. Actual monitoring schedule may be subjected to change due to any safety concern or adverse weather condition.

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# Jockey Club Ti-I College

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# 校曆表 2018/2019

				DAY	ζ			假期及學校活動	÷.
	S	М	Т	W	Т	F	S	10.570亿子权佔3	<i>\$</i> /J
Sep							1	* 開學禮	3/9
2018	2	<u>3</u>	4 <sub>1A</sub>	$5_{AB}$	6 <sub>B</sub>	$7_{\rm C}$	8	* 特別上課時間表	4-6/9
	9	10 <sub>D</sub>	$11_{\rm E}$	$12_{\rm F}$	13 <sub>G</sub>	14 <sub>H</sub>	15	* 夏令時間表	4-14/9
	* <u>16</u>	17 <sub>2A</sub>	18 <sub>B</sub>	19 <sub>C</sub>	20 <sub>D</sub>	$21_{\rm E}$	22	* 教育主日	16/9
	23	$24_{\rm F}$	#25	26 <sub>G</sub>	27 <sub>H</sub>	28 <sub>3A</sub>	* <u>29</u>	# 中秋節翌日	25/9
	30							* 中華基督教會創會百周年	29/9
Oct		#1	#2	* <u>3</u>	$4_{\rm B}$	$5_{\rm C}$	6	# 國慶日	1/10
	7	8 <sub>D</sub>	9 <sub>E</sub>	10 <sub>F</sub>	11 <sub>G</sub>	*12 <sub>H</sub>	13	# 學校假期	2/10
	14	15 <sub>4A</sub>	16 <sub>B</sub>	#17	18 <sub>C</sub>	19 <sub>D</sub>	20	* 水運會	3/10
	21	22 <sub>E</sub>	23 <sub>F</sub>	24 <sub>G</sub>	°25 <sub>н</sub>	265A		中六溫習日	4/10
	28	29 <sub>B</sub>	30 <sub>C</sub>	31 <sub>D</sub>				中六第一學期考試	5-18/10
Nov					$1_{E}$	*2 <sub>G</sub>	3	温智周	8-12/10
	4	5 <sub>H</sub>	6 <sub>F</sub>	7 <sub>6A</sub>	8 <sub>B</sub>	9 <sub>C</sub>	10	* 中一至中三家長晚會	12/10 (7 pm)
	11	12 <sub>D</sub>	13 <sub>E</sub>	$14_{\rm F}$	15 <sub>G</sub>	16 <sub>H</sub>		# 重陽節	17/10
	18	$19_{B}$	20 <sub>C</sub>	21 <sub>7A</sub>	* <u>22</u>	* <u>23</u>	* <u>24</u>	* 家教會周年大會及委員會改選	2/11(7 pm)
	25	26 <sub>D</sub>	$27_{\rm E}$	$28_{\mathrm{F}}$	29 <sub>G</sub>	$^{\circ}30_{H}$		福音周	5-9/11
Dec							1	* 中六家長日	17/11
	2	3 <sub>8A</sub>	$4_{\mathrm{B}}$	$5_{\rm C}$	6 <sub>D</sub>	$7_{\rm E}$	8	* 旅行	22/11
	9	$10_{\rm F}$	11 <sub>G</sub>	$12_{\rm H}$	13 <sub>9A</sub>	$14_{B}$	15	* 教師發展日	23/11
	16	17 <sub>C</sub>	$18_{D}$	$19_{\rm E}$	*20 <sub>F</sub>	* <u>21</u>	22	* 小六訪校開放日	24/11
	23	#24	#25	#26	#27	#28	#29	* 聖誕節崇拜	20/12
	#30	#31						* 聖誕聯歡	21/12
Jan			#1	2	3	4	5	# 聖誕及新年假期	24/12-1/1
2019	6	7	8	9	10	11	12	第一學期考試(中一至中五)	2-15/1
	13	14	15	16 <sub>G</sub>		18 <sub>10A</sub>	19	中六模擬考試	2-18/1
	20	21 <sub>B</sub>	22 <sub>C</sub>	23 <sub>D</sub>	24 <sub>E</sub>	$25_{\rm F}$	26	* 陸運會	28/1 & 29/1
	27	* <u>28</u>	* <u>29</u>	#30	#31			# 陸運會翌日	30/1
Feb						#1		# 農曆新年假期	31/1-9/2
	#3	#4	#5	#6	#7	#8		中六惜别活動日	15/2
	10	11 <sub>G</sub>	12 <sub>н</sub>	13 <sub>B</sub>		15 <sub>11A</sub>		中六最後上課日 ####	15/2
	17		19 <sub>E</sub>	20 <sub>F</sub>		22 <sub>H</sub>	23	英語周	18-22/2
	24	25 <sub>12A</sub>	26 <sub>B</sub>	27 <sub>D</sub>	28 <sub>E</sub>	-		中六特別上課日(暫定)	27-28//2 & 1/3

# 學校假期

°生涯規劃:採用特別時間表

\*特別上課日:採用特別時間表

				DAY				假期及學校活動
	S	Μ	Т	W	Т	F	S	成州及平权冶助
Mar					The .	*1 <sub>c</sub>	*2	中六特別上課日(暫定) 27-28/2 & 1/3
	3	#4	$5_{\rm F}$	°6 <sub>G</sub>	$7_{\rm H}$	8 <sub>13A</sub>	9	* 中一至中五家長日 1/3 (pm) & 2/3
	10	11 <sub>B</sub>	12 <sub>C</sub>	$13_{D}$	$14_{\rm E}$	15 <sub>F</sub>	16	# 家長日翌日 4/3
	17	18 <sub>G</sub>	$19_{\rm H}$	20 <sub>14A</sub>	21 <sub>B</sub>	22 <sub>C</sub>	23	
	24	25 <sub>D</sub>	$26_E$	$27_{\rm F}$	28 <sub>G</sub>	29 <sub>H</sub>	30	
	31							# 清明節 5/4
Apr		1 <sub>15A</sub>	2 <sub>B</sub>	$3_{\rm C}$	$4_{\rm D}$	#5	6	* 復活節崇拜 9/4
	7	°8 <sub>E</sub>	*9 <sub>F</sub>	* <u>10</u>	* <u>11</u>	* <u>12</u>	13	* 中一至中五其他學習經歷日 10-12/4
	14	#15	#16	#17	#18	#19	#20	# 復活節假期 15-22/4
	#21	#22	$23_G$	$24_{\rm C}$	*25 <sub>F</sub>	* <u>26</u>	27	* 校慶慶祝 26/4
	28	29 <sub>H</sub>	30 <sub>16A</sub>					# 勞動節 1/5
May				#1	2 <sub>B</sub>	$3_{\rm D}$	4	溫習周 6-10/5
	5	$6_{\rm E}$	$7_{G}$	$8_{\rm H}$	9 <sub>17A</sub>	$10_{B}$	11	# 佛誕翌日 13/5
	12	#13	$14_{\rm C}$	15 <sub>D</sub>	$^{\circ}16_{E}$	$17_{\rm F}$	* <u>18</u>	夏令時間表 17/5-29/5
	19	$20_G$	$21_{\rm H}$	22 <sub>18A</sub>	$23_{\rm B}$	$24_{\rm C}$	25	* 畢業禮 18/5
	26	27 <sub>D</sub>	$28_{\rm E}$	$29_{\rm F}$	* <u>30</u>	31		* 教師發展日 30/5
Jun							1	中一至中三期終試 31/5-14/6
	2	3	4	5	6	#7	8	中四至中五期終試 31/5-19/6
	9	10	11	12	13	14	15	# 端午節 7/6
	16	17	18	* <u>19</u>	* <u>20</u>	* <u>21</u>	22	* 中三系統性評估 18-19/6 (21/6)
	23	24 <sup>1</sup>	25 <sup>11</sup>	26 <sup>III</sup>	27 <sup>IV</sup>	* <u>28</u>	29	* 英語音樂劇訓練營 19 (pm)-21/6
	30							中一至中三試後上課日 24-26/6
Jul		#1	*2	* <u>3</u>	* <u>4</u>	* <u>5</u>	6	中四至中五試後上課日 24-27/6
	7	* <u>8</u>	9 <sup>v</sup>	* <u>10</u>	#11	#12	#13	* 英語音樂劇綵排 28/6 & 2/7
	#1 <mark>4</mark>	#15	#16	#17	#18	#19	#20	#香港特別行政區成立紀念日 1/7
	#21	#22	#23	#24	#25	#26	#27	* 校務會議 2/7
	#28	#29	#30	#31				* 英語音樂劇公演 3-5/7
Aug					#1	#2	#3	* 教師會議 8/7
	#4	#5	#6	#7	#8	#9	#10	中四獨立專題探究日 9/7
	#11	#12	#13	#14	#15	#16	#17	* 中學學位分配結果公布 9/7
	#18	#19	#20	#21	#22	#23	#24	* 香港中學文憑試放榜日 10/7
	#25	#26	#27	#28	#29	#30	#31	* 散學禮 10/7
							. 1	# 暑假 11/7
								* 中一入學前香港學科測驗 16/7

# 學校假期

°生涯規劃:採用特別時間表 \*特別上課日:採用特別時間表

# 聖公會主風小學 2018-2019年度校曆表

21-08-2018

11713	2011	2/18
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月	週		1	星		期	[		行事要項	1
份	次	E		-	Ξ	四	Ħ.			其
018	l	13 M.H. 1 M.H.						1		_
九	1	2	3*	4	5	6	7	8	3/9 上學期開學日 3/9-6/9 開學斑務處理	
月	2		10	11	12	13	14	15	11/9 開學禮 15/9 親子訪校日	
	3	16	17	18	19	20	21	22	16/9 聖公會靈風堂教育主日	
	4	23		25		27		29	24/9 教師專業發展日 25/9 中秋節翌日	
	5	30	9		1		1			1
		茶園	Ж	2	3	4	5	6	1/10 國慶日 6/10(下午)香港聖公會教省成立 20 周年鳳恩崇拜及晚宴	
+	6	7	8	9	10		12	13	10/10、24/10、31/10沙田區小學校際乒乓球錦標賽	+
	7	14			X		12	20	16/10 旅行日 17/10 重陽節 20/10(上午)家長教師會會員大會	+
月		14	15	10.	In	10	19			+
	8	21	22	23	24	25	26	27	25/10-30/10 中期試 (J.6 呈分試)	
		行中。	20	20			-		25/10(下午)成長的天空-教師工作坊(J.4有關老師)	+
	9	28	29	30	31					-
						1	2	3		-
+		4	5	6	7	8	9	10		
-	11	11	12	13	14	15	(16)	17	16/11 教師專業發展日	
月	40	18	10	20	01	00	02	24	19/11-19/12 第 70 屆香港學校朗誦節	
-	12	18	19	20	21	22	23	24	22/11-23/11 沙田區小學校際田徑錦標賽	
	13	25	26	27	28	2.9	30*		30/11 上學期家長日 27/11-7/12 田區小學校際足球錦標賽 (暫定)	
		2.5	20				100	1		1
L	14	2	3	4	5	6	7	8	0/12/ 卜仁) 即八合小路伯 ATC 蓝河 六儿 六次口/ 主甘小 网	-
$\pm$									8/12(上午)聖公會小學與 ATS 英語文化交流日(奉基小學)	-
		9	10				14		13/12 第十二屆陸運會 14/12 陸運會翌日假期	-
月		16	17		19		21	22	21/12 聖誕崇拜及聖誕聯歡	-
		23		25	26	22	28	29	24/12/2018-2/1/2019 聖誕節及新年假期	1
	18	30	X							1:
019		2007		×	X	3	4	5	1/1/2019 元旦 4/1-9/1 學期試	
	19	6	7	8	9	10	11	12		1
月					-				19/1(上午)小一生活體驗日 19/1(下午)聖公會教省教育日崇拜	1
11	20	13	14	15	16	17	18	19	19/1(上午)聖公會小學第22 屆數學奧林匹克比賽(基福小學)	
	21	20	21	22	23	24	25	26		-
	A CONTRACTOR OF THE OWNER OF THE						23	20		-
	22	27	28	29	30	31			10,23,25,28,29/1、20,22/2 沙田區小學校際籃球錦標賽 (暫定)	+
		lar da	_				1	2		-
=	1	3	×	$>\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$		X	$\gg$	X	4/2 下學期開始 4/2-12/2 農曆新年假期	
月	2	) be		X	13	14	15	16	14/2 上學期頒獎禮	
		17	18	19			22	23		
	4	24	25	26	27	28			25/2-27/3 第 71 屆香港學校音樂節	
				20			1	2	1/3 全港區際田徑比賽	1
_	F	(Street	1	5	E	7	$(\frac{1}{8})$			-
三月	5	3	4	5	6	7			8/3 聖公會聯校教師發展日	-
月	6	10		12		14			11/3-13/3 沙田區小學校際排球錦標賽	-
	7				20				21/3-26/3 中期試 (J.6 呈分試)	-
	8		<u>25</u>	<u>26</u>	27	28	29	30		-
	9	31								
		· · · · · · · · · · · · · · · · · · ·	1	2	3*	4	$\times$	6	3/4(上午)第廿七屆水運會 5/4 清明節	
四		SAF 60							8/4-10/4 沙田區小學校際羽毛球錦標賽 (暫定)	
月月	10	7	8	9	10	11	12	13	12/4、15/4、16/4 跨學科學習日	
1	11	14	15	16	17	18	X	20	17/4 復活節崇拜 19/4-30/4 復活節假期	
		24				25	26	27	1/17 夜/口叫示/十 1/17 3/17 夜/口叫  秋州	
				25	24	22	20	EX		
	13	28	20	X			<u> </u>			-
		研究			$>\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$		3	4	1/5 勞動節	
<b>E</b> .		5	6	7	8	9	10*	11	7/5 或 8/5 全港性系統評估-視訊及說話(J.3) 10/5 下學期家長日	
月 [	15	12	$\gg$	14	15	16	17	18	13/5 佛誕翌日 14/5 或 15/5 全港性系統評估-視訊及說話 (J.6)	
		19	20	21	22	23	24	25	16/5-17/5 沙田區小學校際游泳錦標賽 (暫定)	
	17	26	27	28	29	30	31			Γ
		行动的						1		T
-	18	2	3	4	5	6	X		4/6-10/6 學期試(J.5 呈分試) 7/6 端午節 8/6 全港區際游泳比賽	
六					12	13				1
月		9		11			14	15	9/6 聖靈降臨日 11/6-12/6 全港性系統評估-紙筆(J.3 及 J.6)	+
		16	17	18	19	20	21	22	م بر الم	-
		23	24	25	26	27	28	29	24/6-12/7 下學期試後活動	
	22									1
		關於低	$\mathbb{X}$	2	3	4	5	6*	1/7 香港特別行政區成立紀念日 6/7 畢業典禮(暫定)	
t	23	7."	8	9	10	11	12	13	9/7 中學學位分配公佈結果 11/7-12/7 中學註冊 12/7 下學期頒獎禮	
月月		14		X	X	X			15/7-31/8 暑假 16/7 中一入學前學科測驗	17-
1		24	50	23	SA	25	26	50		1
		<hr/>	28	$ \longrightarrow $	ST.	23	2d	AN		1
		28	AX	30	X					8
									校自決假期 分教師專業發展日 校長簽署:	L

公眾假期

學校假期

學校自決假期

# 沙田崇真學校

# 2018 – 19開心學堂上課日共124天 24-8-2018版

	日	_	=	Ξ	四	五	六	假期/事項		日	_	=	Ξ	四	五	六	<b>假期/事項</b>
1	۲. ۲			_			1	上學期開始(3/9)	8	E F	1	2	3	X	X	6	學校假期(4/4)清明節(5/4)
ħ	2	3	4	5	6	7	8	P.2-6半天上課(3-7/9)	四	7	8	9	10	11	12	13	家長日(13/4)
	9	10	11	12	13	14	15	P.1半天上課(3-12/9)		14	15	16	X	X	X	20	專題研習周(10/4-15/4)復活節崇拜 (16/4)
月	16	17	18	19	20	21	22	親師座談會(22/9)	月	X	X	28	24	25	26	27	復活節假期(17/4-23/4)
	23	24	×	26	27	28	29	教師專業發展日(24/9)中秋節翌日(25/9)		28	29	30					綵排日(29/4)綜藝晚會(30/4)
	30																
21	Ŧ	X	2	3	4	.5	6	國慶日(1/10)		F			X	2	3	4	勞動節(1/5) 中小辯論賽(4/5)
+	7	8	9	10	11	12	13		五	5	6	7	8	9	10	11	
	14	15	16	X	18	19	20	重陽節(17/10)		12	X	14	15	16	17	18	佛誕翌日(13/5)
月	21	22	23	24	25	26	27	用某关系	月	19	20	21	22	23	24	25	預考周(23/5-30/5)
	28	29	30	31						26	27	28	29	30	<u>31</u>		教師專業發展日(30/5)
19	F				1	2	3		2	Ŧ						1	一至六年級考試(31/5-6/6)
+	4	5	6		8	9	10	零功課日(9/11)	六	2	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	X	8	端午節(7/6)
-	11	12	13	-	15	16	17			9	10	11	12	13	14	15	小一面試(10-11/6)
月	18	19	20	21	22	23	24	預考周(19/11-24/11)	月	16	17	18	19	20	21	22	
	25	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>		一至六年級考試(26/11-30/11)		23	24	25	26	27	28	29	補考(24/6)畢業禮(28/6)
										30							畢業禮補假(2/7)
8	Ŧ						No.	「農」的傳人			X	X	3	4	5	6	香港特區成立紀念日(1/7)
+	2	3	4	5	6	7	8	P.6教育營(3/12-7/12)	t	7	8	9	10	11	12	13	升中放榜(9/7)
=	9	10	11	12	13	14	15	P.5同根同心(5-7/12)		14	X	X	X	×	X	×	暑假(15/7-31/8)
月	16	17	18		20	21	22	聖誕崇拜(20/12)陸運會(21/12)	月	X	×	×	×	×	×	X	
	23	X	×	×	×	×	×	聖誕及新年假期(24/12-2/1)		×	×	X	X				
	×	X															
18	天		X	Ź	3	4		教師專業發展日(2/1) P.6家長日(5/1)			<u> </u>			X	X	X	
<b>2019</b>	6	7	8		10	11	12	P.1-5家長日(12/1)	Л	X	X	X	X	X	X	X	
-	13	14	15		-	18				X	X	X	A	X	×	X	
月		21	-		~ 7	25	26		月	×	X	X	X	X	×	$\mathbf{A}$	
	27	28	29	30	X			跨學科活動日(29/1) 學校旅行(30/1)		×	×	X	×	X	X	X	
	F					X	Å					天上 眾俼		3 1	<b>啡色</b>	為到	<b>延伸學習活動課(周三)</b>
=	Å	${\leftrightarrow}$	ð	$\overset{\mathbf{x}}{\hookrightarrow}$	X	X	X	<u> 農曆新年假期(31/1-13/2)</u>		C 91	94.	~~ 15	(70)				
	×	X	R	2		15	-	下學期開始(14/2)	2	-	-	假其					學校自決假期
月						22	23	in the second	24	192	1/3	<b>Ø</b> 15	教師	<b>事專</b>	業研	f討F	日,學生不用上 <b>課</b>
		25	26		28			預考周(25/2-2/3)	l I	心	學堂	に開め	台日	期	9月	28 E	日(星期五)
	F					1	2	一至五年級主科考試(7-8/3)		<b>時間</b>	星	期-	-, :	Ξ,	四2	及五	(下午3:30-5:00)
Ξ	3	4	5	<u>6</u>	7	8	9	六年級報分試(4/3-8/3)									-3:45)
	10			13				保育歷險記				-12: 译下4					
月							23	零功課日(20/3)									
	24	25	26	27	28	29	30										
	31							福音周(28/3-29/3)									

# <u> 培英中學2018至2019年度校曆表</u>

		Ħ	1		μ	四	五	六	假期及注意事項
週	と	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(24-25/8)中一適應營
次								(-)	
	月	(26)	(27)	(28)	(29)	(30)	(31)	Sept	
1	九							1	
2		2	3	4	5	6	7	8	(3/9)開學禮 (4/9)正式上課 (7/9)開學崇拜會
3		9	10	11	12	13	14	15	(10/9)中一至中四學生開始繳交周記
			10			10		10	(11/9)各班拍攝學生相片
4	月	16	17	18	19	20	21	22	
5		23	$24^{ riangle}$	(25)	26	27	28	$29^{ riangle}$	<ul><li>(24/9)水運會同樂日</li><li>(25/9)中秋節翌日假期</li><li>(29/9下午)區會創會百周年感恩崇拜</li></ul>
			Oct						(1/10)國慶日假期 (2-5/10)學生會網上選舉
6	+	30	(1)	2	3	4	5	6	(2-5/10)國慶活動暨中國周
7		7	8	9	10	11	12	13	(12-14/10)風紀組訓練營
<i>'</i>		1	0	,	10	11	12	15	(13/10)香港培英校友會校友日
8		14	15	16	(17)	18	19	20	(17/10) 重陽節 假期
									(19/10)學生領袖就職典禮
9	月	21	22	23	24	25	26	27	
						Nov			
10	+	28	29 <sup>т</sup>	30 <sup>T</sup>	31 <sup>t</sup>	1 <sup>T</sup>	2 <sup>т</sup>	3	(2/11)中一級生涯規劃工作坊 及 中五級IES工作坊
11	1	4	$5^{ riangle}$	6	7	8	9	10	(5/11)第六十屆陸運會(第一天)
12		11	$12^{ riangle}$	(13)	14	15	16	$17^{ riangle}$	(12/11)第六十屆陸運會(第二天) (13/11)教師發展日(1)
12	月	10	10	)	01	- 22	- 22	24	(14/11-18/12)學業奮進計劃 (17/11下午)家長教師會第二十一屆會員大會
13		<b>18</b> △	19	20	21	22	23		<ul> <li>(18/11)南區中學巡禮</li> <li>(29/11)旅行日</li> <li>(29-30/11)中一級境外考察</li> </ul>
14	+	25	26	27	28	<b>29</b> △	(30)		(30/11)旅行日翌日假期
17				4	~	-			(3-7/12)敬師周
15	1	2	3	4	5	6	7	8	(8/12)中西南區小學數學比賽
16		9	10	11	12	$13^{ riangle}$	14	15	
17		16	17	18	19	20	(21)	(22)	(17-19/12)中六級校外模擬考試 (19/12下午)聖誕遊藝會綵排
10	月	(22)	(24)	(25)	(26)	(27)	(20)	(20)	(20/12)慶祝聖誕崇拜及遊藝會 (21/12-1/1)聖誕及新年假期共12天 (21-24-27-29/12)中土編載課
18		(23)	(24)	(23) Jan	(20)	(27)	(28)	( <b>29</b> )	(21,24,27,28/12)中六級補課
19	-	(30)	(31)		2	3	4	5	
20		6	7	8	9 <sup>E</sup>	10 <sup>E</sup>	11 <sup>e</sup>	12	(9-18/1)中一至中五級上學期期考共8天
21		13	14 <sup>E</sup>	15 <sup>E</sup>	16 <sup>E</sup>	17 <sup>E</sup>	18 <sup>E</sup>	19	
				-					(9-23/1)中六級畢業試
22	月	20	21 <sup>E</sup>	22 <sup>e</sup>	23 <sup>E</sup>	24	25	$26^{ riangle}$	(21-23/1)中一至中五級試後回饋日 (21/1下午)中三升中四選科工作坊
44		20	21	22	23	24	23	∠0	(22/1下午)中四、五級Career Live職業體驗遊戲(23/1下午)中五級學習概覽講座 (24/1)下學期開始(24/1-1/3)中六級試後上課日(26/1)「學校起動計劃」生涯規劃日
$\left  \right $							FEB		(24/1)下学期開始(24/1-1/3)十八級訊後上球日(20/1)下学校起動計劃」生產稅劃日 (28/1)中一至中四級學生開始繳交周記
									(28-30/1)中一至中五級上學期補考
	-1	27	28	29	30	31	(1)		(1-13/2)農曆新年假期共13天
24 25		(3) (10)	(4) (11)	(5) (12)	(6) (13)	(7) 14	(8) 15	(9) 16	
25 26		(10)	(11) 18	(12) 19	(13)	14 21	(22)		(22/2)教師發展日(2) (23/2下午)「絲銅頌 培英情」音樂會
	月						9		(25-28/2)福音周 (28/2)佈道會
27		24	25	26	27	28			(27/2)畢業典禮習禮、中六級進行學生持份者問卷及教學評鑑
	(	) - 催	反期	E - 未	計試	△特)	列活動		· 教師發展日,學生不用上課

# <u> 培英中學2018至2019年度校曆表</u>

	[	H	-	=	=	四	五	六	假期及注意事項
		H		-	-	4	Mar	~	
27	Ξ						1	2	(1/3)中六級感恩惜別會 (2/3)家長日
28		3	4	5	6	7	8	9	(4/3)中六級開始溫習應付公開試 (8/3)頒獎禮
29		10	11	12	13	14	15	16	(11-15/3)英語及數理周 (16/2工な)由これ中四週旬港市
30	月	17	18	19	20	21	22	23	<ul><li>(16/3下午)中三升中四選科講座</li><li>(22-24/3)趁墟做老闆</li></ul>
31		24	25	26	20	21 28 <sup>T</sup>	29 <sup>T</sup>	30	(22/2-24/5) / 应强 (22/3-30/4) 香港中學文憑考試 (28/3-3/4) 中一至中五級統一測驗 (29/3-30/4) 香港中學文憑考試
51		24	Apr	20	27	20	2)	50	(3/4)中二級生涯規劃工作坊
32	四	31	1 <sup>T</sup>	2 <sup>т</sup>	3 <sup>T</sup>	4	(5)	6	(5/4)清明節假期
33		7	0	9	10	11	12	13	(8/4)教師發展日(3)
55		/	8	9	10	11	12	15	(12/4)復活節崇拜會
34		$14^{ riangle}$	(15)	(16)	(17)	(18)	( <b>19</b> )	(20)	(14/4)親子旅行日
					()		()	()	(15-22/4)復活節假期共8天
35	月	(21)	(22)	23	$24^{ riangle}$	(25)	26	27	(23/4下午)校祖日綵排 (24/4)校祖日感恩崇拜暨慶祝活動 (25/4)下京早期日期期 (27/4)下京計算机
					May				<ul> <li>(25/4)校祖日翌日假期</li> <li>(27/4)區會模範生頒獎典禮</li> <li>(29/4或30/4)中三全港性系統評估口試</li> </ul>
36					iviay				(29/4-31/5)學業奮進計劃
	五	28	29	30	(1)	2	3	4	(1/5)勞動節假期 (3/5)TSA口試後備日
37		5	6	7	8	9	10	11	(6-10/5)藝術周
38		12	(13)	14	15	16	17	18	(13/5)佛誕日翌日假期 (17/5下午)畢業典禮
									(17/5晚上)歡送畢業生暨校友會迎新晚會
39		19	20	21	22	23	24	25	(24/5或25/5)畢業禮後備日
	月							Jun	
40		26	27	28	29	30	31	1	
41		2	3 <sup>E</sup>	4 <sup>E</sup>	5 <sup>E</sup>	6 <sup>E</sup>	(7)		(3-13/6)中一至中四級下學期考試共8天 (7/6)端午節假期
42	<b>六</b>	9	10 <sup>E</sup>	11 <sup>E</sup>	12 <sup>E</sup>	13 <sup>E</sup>	14 <sup>e</sup>	15	(3-18/6)中五級下學期考試共11天 (14-18/6)中一至中四級試後回饋日
43		16	17 <sup>E</sup>	18 <sup>E</sup>	<b>19</b> △	$20^{ riangle}$	21	22	(18/6下午)中四級IES工作坊 (19/6下午)中五級學習概覽寫作工作坊 (19-28/6)中五級試後上課周
43		10	17	10	19	20	21	22	(1)-20(0) 中立級武役工政局 (18-19/6) 中三級全港性系統評估(中英數) (21/6)中三級全港性系統評估(後備日)
44	月	23	24	25	26	27	28	29	
44		23	24	23	20	21	20	29	(24-26/6)中一至中五級溫習及補考
		•	Jul				_	_	(1/7)香港特別行政區成立紀念日假期
45	セ	30	(1)	2	3	4	5	6	(2-12/7)暑期英語營 (3/7)中六級中學文憑考試放榜輔導講座
46		7	8	9	$10^{ riangle}$	11	12	13	(8/7)高中護苗課程
		-	-		10				(10/7)香港中學文憑考試放榜
	ĺ								(15/7)結業禮及辦理註冊 (15/7)接見家長及學生
47		14	15	(16)	(17)	(18)	( <b>19</b> )	(20)	(16-18/7)各級第二階段溫習及補考
40	月	(07)		(22)	(2.4)	(25)	(00)	(07)	(16/7-31/8)暑假共47天
48		(21)	(22)	(23)	(24)	(25) Aug	(26)	(27)	
49	٦.	(28)	(29)	(30)	(31)	(1)	(2)	(3)	
50		(4)	(5)	(6)	(7)	(8)	(9)	(10)	
51		(11)	(12)	(13)	(14)	(15)	(16)	(17)	(12/8)學生繳費及領取書籍校服 (12-23/8)升中導向課程
		. /		× - /	. /		× -7	. /	(12-23/8)中六級香港中學文憑考試備試課程
52		(18)	(19)	(20)	(21)	(22)	(23)	(24)	
54	月	(10)	(1)	(20)	(21)	(22)	(23)	(27)	(23-24/8)中一適應營
53		(25)	(26)	(27)	(28)	( <b>29</b> )	(30)	(31)	
	九	Sept							(2/9)下學年開學禮
	月	1	2	3	4	5	6	7	(3/9)正式上課

()-假期 E-考試 △特別活動 数師發展日,學生不用上課

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Appendix F

Air Quality Monitoring Data

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24-hour TSP Impact Monitoring Result for NOD 03-2018 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

AMS4A - Wai Wah Centre

Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time
03/08/19 07:00	98	09/08/19 10		15/08/19 09:13
03/08/19 08:00	87	09/08/19 11		15/08/19 10:13
03/08/19 09:00	84	09/08/19 12		15/08/19 11:13
03/08/19 10:00	93	09/08/19 13		15/08/19 12:13
03/08/19 11:00	96	09/08/19 14		15/08/19 13:13
03/08/19 12:00	102	09/08/19 15		15/08/19 14:13
03/08/19 13:00	98	09/08/19 16		15/08/19 15:13
	98 102			
03/08/19 14:00	98	09/08/19 17		15/08/19 16:13
03/08/19 15:00		09/08/19 18		15/08/19 17:13
03/08/19 16:00	109	09/08/19 19		15/08/19 18:13
03/08/19 17:00	103	09/08/19 20		15/08/19 19:13
03/08/19 18:00	109	09/08/19 21		15/08/19 20:13
03/08/19 19:00	119	09/08/19 22		15/08/19 21:13
03/08/19 20:00	119	09/08/19 23		15/08/19 22:13
03/08/19 21:00	134	10/08/19 00		15/08/19 23:13
03/08/19 22:00	128	10/08/19 01		16/08/19 00:13
03/08/19 23:00	128	10/08/19 02		16/08/19 01:13
04/08/19 00:00	114	10/08/19 03		16/08/19 02:13
04/08/19 01:00	103	10/08/19 04		16/08/19 03:13
04/08/19 02:00	109	10/08/19 05		16/08/19 04:13
04/08/19 03:00	89	10/08/19 06		16/08/19 05:13
04/08/19 04:00	87	10/08/19 07		16/08/19 06:13
04/08/19 05:00	86	10/08/19 08	:09 78	16/08/19 07:13
04/08/19 06:00	91	10/08/19 09		16/08/19 08:13
Average	104	Aver	age 78	Average
Action Level	200	Action Le		Action Level
Limit Level	260	Limit Le	evel 260	Limit Level
				_
Date and Time	TED Concontration (unim <sup>3</sup> )	Date and Time	TSP Concentration (µg/m <sup>3</sup> )	
	TSP Concentration (µg/m <sup>3</sup> )		ug_/	
21/08/19 09:47	47	27/08/19 08	:34 74	_
21/08/19 09:47 21/08/19 10:47	47 42	27/08/19 08 27/08/19 09	:34 74 :34 78	
21/08/19 09:47 21/08/19 10:47 21/08/19 11:47	47 42 38	27/08/19 08 27/08/19 09 27/08/19 10	:34         74           :34         78           :34         70	
21/08/19 09:47 21/08/19 10:47 21/08/19 11:47 21/08/19 12:47	47 42 38 55	27/08/19 08 27/08/19 09 27/08/19 10 27/08/19 11 27/08/19 11	34 74 34 78 34 70 34 94	
21/08/19 09:47 21/08/19 10:47 21/08/19 11:47 21/08/19 12:47 21/08/19 13:47	47 42 38 55 47	27/08/19 08 27/08/19 09 27/08/19 10 27/08/19 11 27/08/19 12	:34         74           :34         78           :34         70           :34         94           :34         94	
21/08/19 09:47 21/08/19 10:47 21/08/19 11:47 21/08/19 12:47	47 42 38 55	27/08/19 08 27/08/19 09 27/08/19 10 27/08/19 11 27/08/19 11	:34         74           :34         78           :34         70           :34         94           :34         94	
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21/08/19 09:47 21/08/19 10:47 21/08/19 11:47 21/08/19 12:47 21/08/19 13:47 21/08/19 14:47	47 42 38 55 47 51	27/08/19 08 27/08/19 09 27/08/19 10 27/08/19 11 27/08/19 12 27/08/19 13	:34         74         74           :34         78         78           :34         70         94           :34         94         94           :34         81         :34	
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 I
 260
 Limit Level
 260

 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.
 260
 260
 Remark

2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

TSP Concentration (µg/m<sup>3</sup>)

66

74

63

60

64

69

59

62

70

69

83

95

99

102

95

87

80

76

71

59 81

90

85

81

77

200 260

AMS6 - Shatin Plaza

AMS6 - Shatin Plaza			
Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concentration (µg/m <sup>3</sup> )
03/08/19 07:11	57	09/08/19 11:31	80
03/08/19 08:11	69	09/08/19 12:31	76
03/08/19 09:11	83	09/08/19 13:31	77
03/08/19 10:11	90	09/08/19 14:31	80
03/08/19 11:11	95	09/08/19 15:31	78
03/08/19 12:11	98	09/08/19 16:31	59
03/08/19 13:11	104	09/08/19 17:31	97
03/08/19 14:11	97	09/08/19 18:31	83
03/08/19 15:11	90	09/08/19 19:31	78
03/08/19 16:11	80	09/08/19 20:31	91
03/08/19 17:11	77	09/08/19 21:31	87
03/08/19 18:11	95	09/08/19 22:31	90
03/08/19 19:11	95	09/08/19 23:31	94
03/08/19 20:11	87	10/08/19 00:31	91
03/08/19 21:11	80	10/08/19 01:31	78
03/08/19 22:11	71	10/08/19 02:31	78
03/08/19 23:11	69	10/08/19 03:31	80
04/08/19 00:11	67	10/08/19 04:31	63
04/08/19 01:11	70	10/08/19 05:31	67
04/08/19 02:11	70	10/08/19 06:31	95
04/08/19 03:11	66	10/08/19 07:31	98
04/08/19 04:11	70	10/08/19 08:31	94
04/08/19 05:11	64	10/08/19 09:31	77
04/08/19 06:11	60	10/08/19 10:31	64
Average	79	Average	81
Action Level	165	Action Level	165
Limit Level	260	Limit Level	260
Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concentration (µg/m <sup>3</sup> )
Date and Time 21/08/19 09:04	TSP Concentration (μg/m³) 55	Date and Time 27/08/19 09:01	TSP Concentration (µg/m³) 78
21/08/19 09:04	55	27/08/19 09:01	78
21/08/19 09:04 21/08/19 10:04	55 49	27/08/19 09:01 27/08/19 10:01	78 73
21/08/19 09:04 21/08/19 10:04 21/08/19 11:04	55 49 49	27/08/19 09:01 27/08/19 10:01 27/08/19 11:01	78 73 70
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Date and Time	TSP Concentration (µg/m <sup>3</sup> )
15/08/19 10:43	69
15/08/19 11:43	81
15/08/19 12:43	76
15/08/19 13:43	74
15/08/19 14:43	80
15/08/19 15:43	80
15/08/19 16:43	74
15/08/19 17:43	77
15/08/19 18:43	81
15/08/19 19:43	87
15/08/19 20:43	90
15/08/19 21:43	91
15/08/19 22:43	84
15/08/19 23:43	94
16/08/19 00:43	91
16/08/19 01:43	81
16/08/19 02:43	83
16/08/19 03:43	88
16/08/19 04:43	80
16/08/19 05:43	81
16/08/19 06:43	73
16/08/19 07:43	88
16/08/19 08:43	92
16/08/19 09:43	85
Average	83
Action Level	165
Limit Level	260
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Remark 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.

2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

#### AMS7A - Sheung Wo Che

Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and
03/08/19 07:00	82	09/08/19 07:06	52	15/08/19
03/08/19 08:00	81	09/08/19 08:06	62	15/08/19
03/08/19 09:00	82	09/08/19 09:06	62	15/08/19
03/08/19 10:00	84	09/08/19 10:06	64	15/08/19
03/08/19 11:00	88	09/08/19 11:06	71	15/08/19
03/08/19 12:00	92	09/08/19 12:06	77	15/08/19
03/08/19 13:00	96	09/08/19 13:06	67	15/08/19
03/08/19 14:00	97	09/08/19 14:06	66	15/08/19
03/08/19 15:00	97	09/08/19 15:06	66	15/08/19
03/08/19 16:00	101	09/08/19 16:06	71	15/08/19
03/08/19 17:00	99	09/08/19 17:06	75	15/08/19
03/08/19 17:00	99	09/08/19 17:00	79	15/08/19
03/08/19 18:00	97	09/08/19 19:06	82	15/08/19
	101		82	16/08/19
03/08/19 20:00	96	09/08/19 20:06	81 90	
03/08/19 21:00	96 99	09/08/19 21:06	90 84	16/08/19
03/08/19 22:00		09/08/19 22:06		16/08/19
03/08/19 23:00	94	09/08/19 23:06	86	16/08/19
04/08/19 00:00	86	10/08/19 00:06	79	16/08/19
04/08/19 01:00	86	10/08/19 01:06	75	16/08/19
04/08/19 02:00	88	10/08/19 02:06	77	16/08/19
04/08/19 03:00	86	10/08/19 03:06	67	16/08/19
04/08/19 04:00	79	10/08/19 04:06	64	16/08/19
04/08/19 05:00	75	10/08/19 05:06	58	16/08/19
04/08/19 06:00	79	10/08/19 06:06	54	16/08/19
Average	90	Average	71	A
Action Level	171	Action Level	171	
Action Level Limit Level	171 260	Action Level Limit Level	171 260	
Limit Level	260	Limit Level	260	
Limit Level Date and Time	260 TSP Concentration (μg/m³)	Limit Level Date and Time	260 TSP Concentration (µg/m³)	
Limit Level Date and Time 21/08/19 08:30	260 TSP Concentration (μg/m³) 66	Limit Level Date and Time 27/08/19 09:23	260 TSP Concentration (µg/m³) 50	
Limit Level Date and Time 21/08/19 08:30 21/08/19 09:30	260 <b>TSP Concentration (µg/m³)</b> 66 77	Limit Level <b>Date and Time</b> 27/08/19 09:23 27/08/19 10:23	260 <b>TSP Concentration (μg/m³)</b> 50 50	
Limit Level Date and Time 21/08/19 08:30 21/08/19 09:30 21/08/19 10:30	260 TSP Concentration (μg/m <sup>3</sup> ) 66 77 70	Limit Level <b>Date and Time</b> 27/08/19 09:23 27/08/19 10:23 27/08/19 11:23	260 TSP Concentration (μg/m <sup>3</sup> ) 50 50 55	
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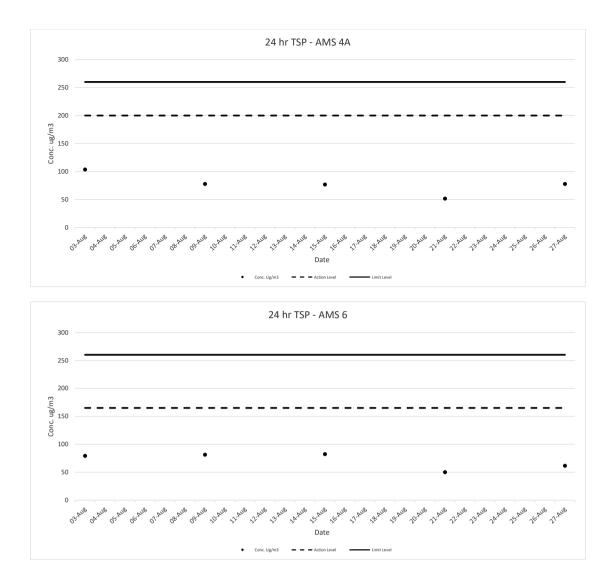
Remark 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.

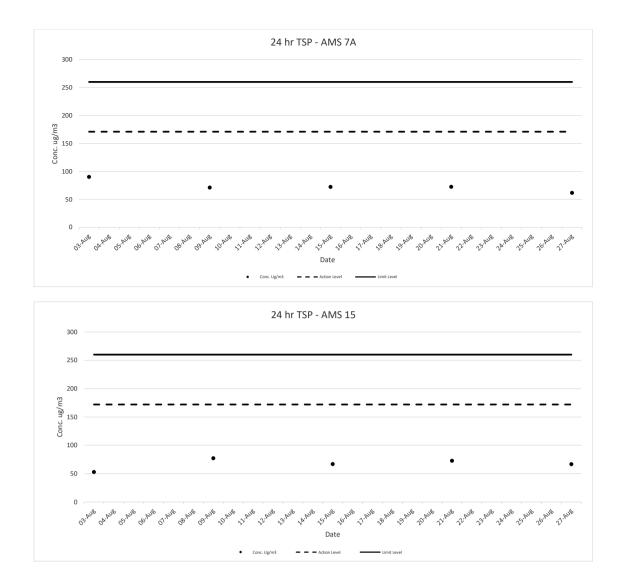
2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concentration (µg/
3/08/19 07:00	44	09/08/19 09:41	81	15/08/19 11:59	65
3/08/19 08:00	42	09/08/19 10:41	89	15/08/19 12:59	63
3/08/19 09:00	48	09/08/19 11:41	79	15/08/19 13:59	59
/08/19 10:00	52	09/08/19 12:41	87	15/08/19 14:59	67
/08/19 11:00	50	09/08/19 13:41	81	15/08/19 15:59	68
8/08/19 12:00	52	09/08/19 14:41	87	15/08/19 16:59	68
3/08/19 13:00	50	09/08/19 15:41	92	15/08/19 17:59	63
3/08/19 14:00	54	09/08/19 16:41	91	15/08/19 18:59	57
03/08/19 15:00	54	09/08/19 17:41	85	15/08/19 19:59	65
03/08/19 16:00	56	09/08/19 18:41	83	15/08/19 20:59	72
03/08/19 17:00	50	09/08/19 19:41	85	15/08/19 21:59	68
03/08/19 18:00	52	09/08/19 20:41	79	15/08/19 22:59	70
03/08/19 19:00	58	09/08/19 21:41	75	15/08/19 23:59	78
03/08/19 20:00	62	09/08/19 22:41	71	16/08/19 00:59	81
03/08/19 21:00	62	09/08/19 23:41	68	16/08/19 01:59	74
03/08/19 22:00	60	10/08/19 00:41	64	16/08/19 02:59	70
03/08/19 23:00	58	10/08/19 01:41	69	16/08/19 03:59	67
04/08/19 00:00	56	10/08/19 02:41	66	16/08/19 04:59	68
04/08/19 00:00	56	10/08/19 02:41	73	16/08/19 05:59	70
04/08/19 02:00	50	10/08/19 03:41	69	16/08/19 06:59	67
04/08/19 02:00	56	10/08/19 05:41	68	16/08/19 07:59	65
04/08/19 03:00	50	10/08/19 05:41	68	16/08/19 07:59	61
04/08/19 05:00	48	10/08/19 08:41	71		59
04/08/19 05:00	48	10/08/19 07:41	71 73	16/08/19 09:59 16/08/19 10:59	59
04/08/19 06:00 Average	53	10/08/19 08:41 Average	73	10/08/19 10:59 Average	67
Average		Average	11		0/
Action Loval	170	Action Loval	172		172
Action Level Limit Level	172 260 TSP Concentration (μg/m³)	Action Level Limit Level Date and Time	172 260 TSP Concentration (μg/m³)	Action Level Limit Level	172 260
Limit Level Date and Time	260 TSP Concentration (μg/m³)	Limit Level Date and Time	260 TSP Concentration (μg/m³)	Action Level	
Limit Level Date and Time 21/08/19 08:50	260 TSP Concentration (µg/m³) 78	Limit Level Date and Time 27/08/19 10:27	260 TSP Concentration (μg/m³) 64	Action Level	
Limit Level Date and Time 21/08/19 08:50 21/08/19 09:50	260 TSP Concentration (µg/m³) 78 88	Limit Level Date and Time 27/08/19 10:27 27/08/19 11:27	260 TSP Concentration (µg/m³) 64 64	Action Level	
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Remark

Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.
 The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.





# AMS 4A - Wai Wah Centre

				1-hour TSP (	µg/m³)			
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
03-Aug-19	15:00	98	102	98	99			Overcast
09-Aug-19	10:09	77	62	57	65			Sunny
15-Aug-19	09:13	66	74	63	68	348	500	Sunny
21-Aug-19	14:47	51	57	53	54			Sunny
27-Aug-19	11:34	94	94	81	90			Fine
	Average		75					
	Max		102					
	Min		51					

# AMS 6 - Shatin Plaza

				µg/m³)				
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
03-Aug-19	12:11	98	104	97	100			Overcast
09-Aug-19	15:31	78	59	97	78			Sunny
15-Aug-19	14:43	80	80	74	78	347	500	Sunny
21-Aug-19	09:04	55	49	49	51			Sunny
27-Aug-19	09:01	78	73	70	74			Fine
	Average		76					
	Max		104					
	Min		49					

# AMS 7A - Sheung Wo Che

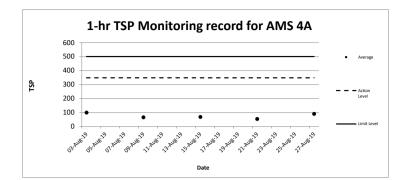
				1-hour TSP (	µg/m³)			
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
03-Aug-19	15:00	97	101	99	99			Overcast
09-Aug-19	11:06	71	77	67	72			Sunny
15-Aug-19	11:48	78	74	69	74	344	500	Sunny
21-Aug-19	13:30	94	101	87	94			Sunny
27-Aug-19	12:23	73	81	63	72			Fine
	Average		82					
	Max		101					
	Min		63					

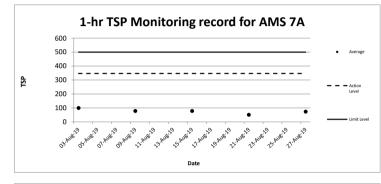
## AMS15 - Ha Wo Che

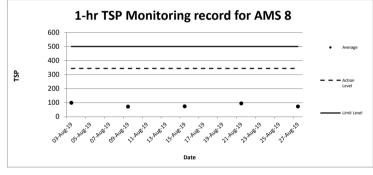
				1-hour TSP (	µg/m³)			
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
03-Aug-19	14:00	54	54	56	55			Overcast
09-Aug-19	14:41	87	92	91	90			Sunny
15-Aug-19	15:59	68	68	63	66	350	500	Sunny
21-Aug-19	15:50	72	87	91	83			Sunny
27-Aug-19	13:27	69	75	71	72			Fine
	Average		73					
	Max		92					
	Min		54					

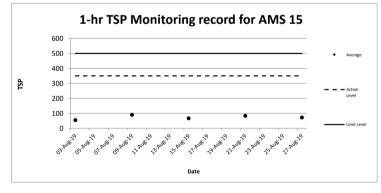
Remark 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.

2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.









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Appendix G

**Noise Monitoring Data** 

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NMS 1 Scenery Court

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed
				Unit	:: dB(A) 30 Mir	IS		(m/s)
10-Aug-19	09:20	66.7	63.5	70.0		66.7	Fine	0.6
16-Aug-19	09:16	61.8	59.0	64.0	75	61.8	Sunny	0.0
22-Aug-19	15:37	66.5	62.0	68.0	15	66.5	Fine	0.0
28-Aug-19	09:04	65.7	62.5	68.0		65.7	Fine	0.7

# NMS 2 Villa Le Parc

		Measured Noise Level			Limit Level	Construction Noise Level		Wind
Date	Start Time	L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>	Linin Level	Construction Noise Level	Weather	Speed
				Unit	:: dB(A) 30 Mir	IS		(m/s)
10-Aug-19	11:41	60.2	51.5	62.0		60.2	Fine	0.6
16-Aug-19	11:48	56.4	53.0	58.5		56.4	Sunny	0.0
22-Aug-19	08:30	61.8	52.5	63.0	75	61.8	Fine	0.0
28-Aug-19	10:03	58.2	51.5	60.0		58.2	Fine	0.7

# NMS 3 Hilton Plaza

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	Leq	L <sub>90</sub>	L <sub>10</sub>	Ennit Lever	Construction Noise Level	Weather	Speed
				Unit	: dB(A) 30 Mir	is		(m/s)
10-Aug-19	09:56	68.1	66.0	72.0		68.1	Fine	0.4
16-Aug-19	09:52	58.3	55.5	61.0	75	58.3	Sunny	0.2
22-Aug-19	09:16	69.1	65.5	71.5	, , , , , , , , , , , , , , , , , , , ,	69.1	Fine	0.0
28-Aug-19	14:12	67.9	64.0	71.0		67.9	Fine	0.3

# NMS 4 Tin Liu

			Measured Noise Level			Construction Noise Level		Wind
Date	Start Time	Leq	L <sub>90</sub>	L <sub>10</sub>	Limit Level	Construction Noise Level	Weather	Speed
				Unit	:: dB(A) 30 Mir	IS		(m/s)
10-Aug-19	12:15	70.1	66.0	73.0		70.1	Fine	0.8
16-Aug-19	13:04	63.1	60.5	65.0	75	63.1	Sunny	0.1
22-Aug-19	10:00	70.9	65.5	72.5	15	70.9	Fine	0.0
28-Aug-19	10:39	69.5	65.5	72.5		69.5	Fine	0.6

# NMS 5A Wai Wah Centre

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	Leq	L <sub>90</sub>	L <sub>10</sub>	Ennit Lever	Construction Noise Level	Weather	Speed
				Unit	:: dB(A) 30 Mir	IS		(m/s)
10-Aug-19	10:31	71.8	68.0	74.0		71.8	Fine	0.6
16-Aug-19	10:27	66.7	63.5	68.0	75	66.7	Sunny	0.3
22-Aug-19	14:00	72.2	67.6	75.8	75	72.2	Fine	0.0
28-Aug-19	13:35	71.1	68.0	74.5		71.1	Fine	0.5

## NMS 6A Wai Wah Centre

		Meas	easured Noise Level Limit Level Construction Noise Level			Wind		
Date	Start Time	Leq	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed
				Unit	:: dB(A) 30 Mir	IS		(m/s)
10-Aug-19	11:06	70.1	67.0	73.5		70.1	Fine	0.3
16-Aug-19	11:01	67.2	64.0	69.0	75	67.2	Sunny	0.3
22-Aug-19	14:47	72.7	68.5	75.0	75	72.7	Fine	0.0
28-Aug-19	13:02	69.0	66.0	72.5		69.0	Fine	0.4

# NMS 7 Tin Liu

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed
			Unit: dB(A) 30 Mins					(m/s)
10-Aug-19	12:47	74.1	67.0	76.5		74.1	Fine	0.3
16-Aug-19	13:37	64.6	61.0	67.0	75	64.6	Sunny	0.0
22-Aug-19	14:00	72.3	67.4	75.2	75	72.3	Fine	0.0
28-Aug-19	11:20	72.1	67.0	74.0		72.1	Fine	0.5

# NMS 8 Shatin Plaza

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Date Start Time	L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>	Ennit Level	Construction Noise Level	Weather	Speed
				Unit	:: dB(A) 30 Mir	IS		(m/s)
09-Aug-19	13:36	63.8	62.0	65.0		63.8	Sunny	0.1
15-Aug-19	09:33	68.6	66.0	71.0	75	68.6	Sunny	0.8
21-Aug-19	08:44	65.7	63.0	67.0	75	65.7	Sunny	0.1
27-Aug-19	08:36	67.3	63.5	70.5		67.3	Fine	0.4

# NMS 9 Lek Yuen Estate

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Weather	Speed	
				Unit	:: dB(A) 30 Mir	IS		(m/s)
09-Aug-19	08:42	66.7	61.5	69.0		66.7	Sunny	0.0
15-Aug-19	10:10	67.6	61.5	69.0	75	67.6	Sunny	0.5
21-Aug-19	09:20	66.1	62.5	67.5	, , , , , , , , , , , , , , , , , , , ,	66.1	Sunny	0.4
27-Aug-19	09:48	66.6	61.0	69.5	1	66.6	Fine	0.6

# NMS 10A Shatin Tsung Tsin School

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>	Emit Level	Construction Noise Level	Weather	Speed (m/s)
			Unit: dB(A) 30 Mins					
09-Aug-19	10:17	62.4	58.5	63.0		62.4	Sunny	0.3
15-Aug-19	10:47	65.6	61.0	67.5	70	65.6	Sunny	0.8
21-Aug-19	09:26	64.9	60.0	67.0	70	64.9	Sunny	0.0
27-Aug-19	10:26	64.7	61.0	66.5		64.7	Fine	0.8

# NMS 11 Sheung Wo Che

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date Sta	Start Time	L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed
				Unit	: dB(A) 30 Mir	IS		(m/s)
09-Aug-19	11:41	60.0	51.0	62.0		60.0	Sunny	0.2
15-Aug-19	16:39	68.8	63.5	71.5	75	68.8	Sunny	0.6
21-Aug-19	12:04	65.3	58.5	67.5	15	65.3	Sunny	0.0
27-Aug-19	10:06	68.1	61.0	69.5		68.1	Fine	0.3

# NMS 12 SKH Holy Spirit Primary School

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>	Linin Level	Construction Noise Level	Weather	Speed
					(m/s)			
09-Aug-19	11:02	62.0	57.0	62.5		62.0	Sunny	0.1
15-Aug-19	13:00	64.0	59.5	65.0	70	64.0	Sunny	0.7
21-Aug-19	10:00	64.5	60.5	67.5	10	64.5	Sunny	0.0
27-Aug-19	11:02	66.1	61.0	67.5		66.1	Fine	0.6

# NMS 13 Lek Yuen Estate

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date Start Time	Start Time	L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed
				Unit		(m/s)		
09-Aug-19	09:28	60.5	58.0	63.0		60.5	Sunny	0.1
15-Aug-19	11:24	68.0	65.0	72.0	75	68.0	Sunny	0.6
21-Aug-19	10:04	60.5	58.5	63.0	75	60.5	Sunny	0.0
27-Aug-19	11:39	67.5	64.0	70.0		67.5	Fine	0.7

# NMS 14 Sheung Wo Che

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date Start Time	$L_{eq}$	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed	
				Unit	: dB(A) 30 Mir	IS	1	(m/s)
09-Aug-19	10:01	57.4	55.0	60.0		57.4	Sunny	0.0
15-Aug-19	16:05	66.1	60.0	67.0	75	66.1	Sunny	0.4
21-Aug-19	11:58	63.0	57.0	65.5	75	63.0	Sunny	0.0
27-Aug-19	10:45	66.1	60.5	67.5		66.1	Fine	0.7

# NMS 15 Ha Wo Che

	Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Start Time	L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed
			Unit	: dB(A) 30 Min	1	(m/s)	
14:38	66.5	62.5	68.0		66.5	Fine	0.2
14:58	63.2	60.0	65.0	75	63.2	Sunny	0.2
09:30	64.3	59.6	67.2	15	64.3	Fine	0.3
10:23	68.2	64.5	70.5		68.2	Fine	0.7
	14:38 14:58 09:30	Start Time         Leq           14:38         66.5           14:58         63.2           09:30         64.3	Start Time         Leq         L90           14:38         66.5         62.5           14:58         63.2         60.0           09:30         64.3         59.6	Leg         Leg         Leg         Leg         Leg         Leg         Leg         Leg         Leg         Unit           14:38         66.5         62.5         68.0         65.0         65.0         09:30         64.3         59.6         67.2	Start Time         Leq         L90         L10           Unit: dB(A) 30 Mir           14:38         66.5         62.5         68.0           14:58         63.2         60.0         65.0           09:30         64.3         59.6         67.2	Start Time         Leq         L90         L10         Construction Noise Level           14:38         66.5         62.5         68.0         66.5         66.5           14:58         63.2         60.0         65.0         75         63.2           09:30         64.3         59.6         67.2         64.3	Start Time         Leq         Lo         Limit Level         Construction Noise Level         Weather           14:38         66.5         62.5         68.0         65.0         Fine           14:58         63.2         60.0         65.0         75         63.2         Sunny           09:30         64.3         59.6         67.2         75         64.3         Fine

# NMS 16 Ha Wo Che

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date Start Time	$L_{eq}$	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed	
				Unit	:: dB(A) 30 Min	IS		(m/s)
10-Aug-19	15:14	66.8	63.0	69.0		66.8	Fine	0.0
16-Aug-19	15:31	62.8	57.5	64.5	75	62.8	Sunny	0.0
22-Aug-19	10:08	65.9	60.3	68.2	75	65.9	Fine	0.0
28-Aug-19	11:05	65.6	60.5	67.5		65.6	Fine	0.5

# NMS 17 Shatin Pui Ying College

		Measured Noise Level			Limit Level	Construction Noise Level		Wind
Date Start Time	Start Time	$L_{eq}$	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Lever	Weather	Speed
				Unit	:: dB(A) 30 Mir	าร	[	(m/s)
09-Aug-19	11:28	60.2	58.0	62.0		60.2	Sunny	0.2
15-Aug-19	14:17	63.8	59.0	65.0	70	63.8	Sunny	0.8
21-Aug-19	10:37	68.1	65.0	69.5	70	68.1	Sunny	0.0
27-Aug-19	13:02	64.6	60.5	66.0		64.6	Fine	0.4

Note: ^The measured noise level was lower than the baseline level (66.8 dB(A)).

# NMS 18 Ha Wo Che

		Meas	ured Noise	Level	Limit Level	Construction Noise Level	Wind	
Date Start Time	$L_{eq}$	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Lever	Weather	Speed	
			Unit: dB(A) 30 Mins					(m/s)
10-Aug-19	16:02	65.2	61.0	66.0		65.2	Fine	0.4
16-Aug-19	16:05	60.5	58.0	62.5	75	60.5	Sunny	0.0
22-Aug-19	10:45	65.7	58.9	68.3	75	65.7	Fine	0.0
28-Aug-19	11:40	66.0	58.5	68.0		66.0	Fine	0.3

# NMS 19 Wo Che Estate

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>	Emit Level	Construction Noise Level	Weather	Speed
				Unit	:: dB(A) 30 Min	IS		(m/s)
09-Aug-19	12:10	66.8	64.0	68.5		66.8	Sunny	0.0
15-Aug-19	14:51	66.8	64.0	67.5	75	66.8	Sunny	0.5
21-Aug-19	10:40	69.5	65.0	71.0	75	69.5	Sunny	0.0
27-Aug-19	13:45	66.8	62.5	68.5		66.8	Fine	0.8

# NMS 20 Wo Che Estate

		Measured Noise Level			Limit Level	Construction Noise Level		Wind
Date	Start Time	L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed
		Unit: dB(A) 30 Mins		IS		(m/s)		
09-Aug-19	13:21	60.7	57.0	62.5		60.7	Sunny	0.1
15-Aug-19	13:26	67.1	64.5	69.0	75	67.1	Sunny	0.7
21-Aug-19	11:20	59.4	55.5	65.5	75	59.4	Sunny	0.0
27-Aug-19	14:32	67.1	63.5	70.5		67.1	Fine	0.7

# NMS 23 Pai Tau

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>	Ennit Level	Construction Noise Level	Weather	Speed
					(m/s)			
10-Aug-19	14:00	70.1	63.0	72.5		70.1	Fine	0.0
16-Aug-19	14:15	61.3	57.5	63.0	75	61.3	Sunny	0.0
22-Aug-19	11:29	69.8	64.2	74.6	10	69.8	Fine	1.4
28-Aug-19	09:43	66.3	63.0	69.0		66.3	Fine	0.5

# NMS 24 Shatin Plaza

		Measured Noise Level			Limit Level	Construction Noise Level		Wind
Date	Start Time	Leq	L <sub>90</sub>	L <sub>10</sub>	Linit Lover		Weather	Speed
				Unit	:: dB(A) 30 Min	IS		(m/s)
09-Aug-19	08:44	61.7	60.0	63.5		61.7	Sunny	0.2
15-Aug-19	08:30	69.1	66.0	72.0	75	69.1	Sunny	0.4
21-Aug-19	08:42	61.4	28.0	63.0	15	61.4	Sunny	0.0
27-Aug-19	09:09	68.9	65.0	72.5		68.9	Fine	0.7

# NMS 25A Sheung Wo Che

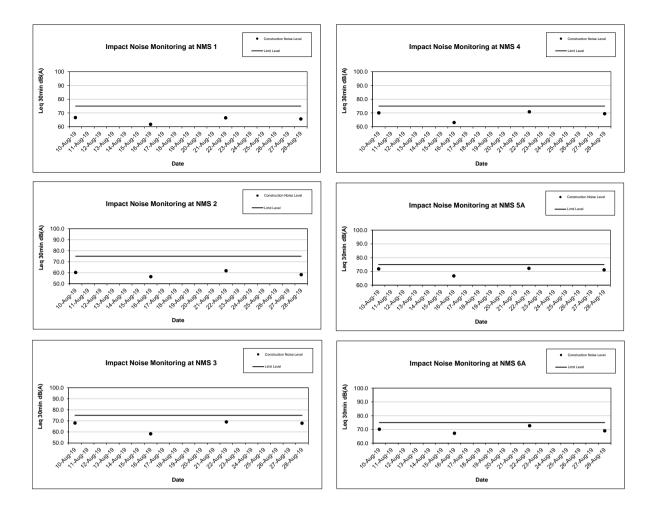
Date	Start Time	Meas L <sub>eq</sub>	ured Noise L <sub>90</sub>	Level L <sub>10</sub>	Limit Level	it Level Construction Noise Level		Wind Speed
			•		(m/s)			
09-Aug-19	09:23	68.4	66.0	70.5		68.4	Sunny	0.1
15-Aug-19	17:13	69.9	66.0	73.0	75	69.9	Sunny	0.3
21-Aug-19	12:37	66.1	59.5	70.5	75	66.1	Sunny	0.0
27-Aug-19	09:30	72.1	65.5	74.0		72.1	Fine	0.3

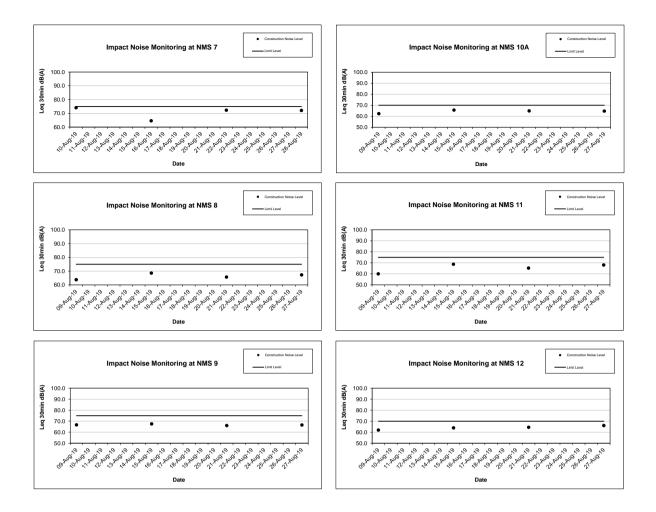
# NMS 26 Wo Che Estate

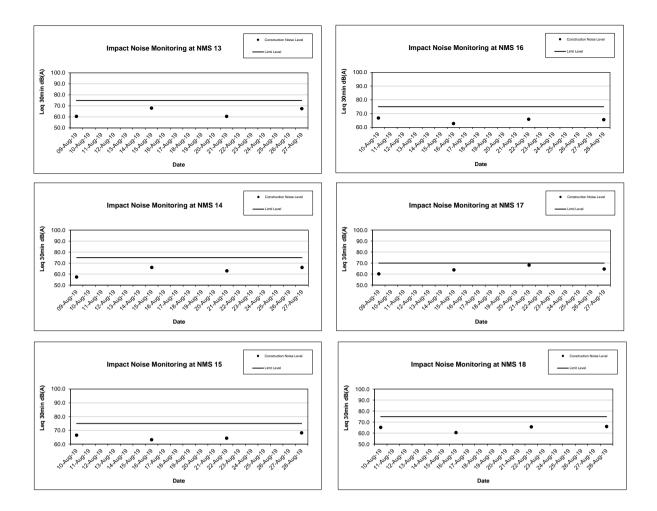
		Measured Noise Level			Limit Level	Construction Noise Level		Wind
Date	Start Time	L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>	Linin Level	Construction Noise Level	Weather	Speed
				Unit	:: dB(A) 30 Mir	IS		(m/s)
09-Aug-19	10:43	68.8	66.0	70.5		68.8	Sunny	0.2
15-Aug-19	13:42	73.6	70.0	76.0	75	73.6	Sunny	0.8
21-Aug-19	11:23	70.6	67.5	73.0	75	70.6	Sunny	0.0
27-Aug-19	11:22	73.7	69.5	77.5		73.7	Fine	0.6

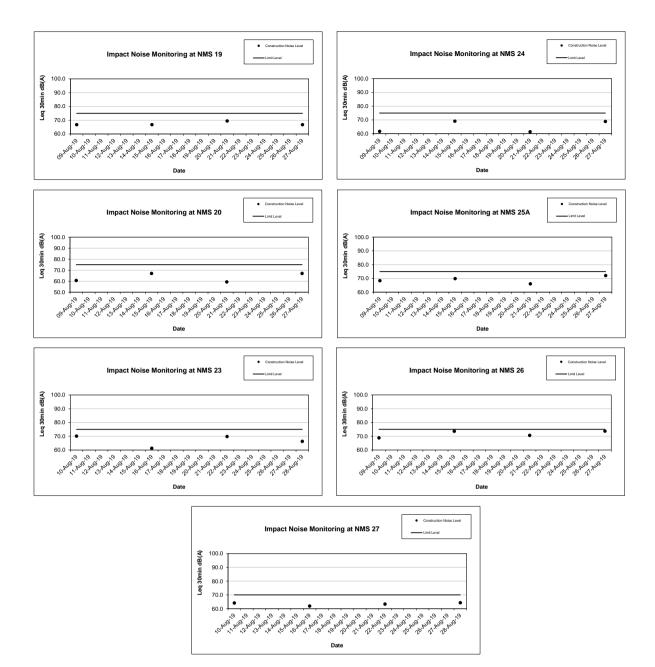
# NMS 27 Jockey Club Ti-I College

Date	Start Time	Meas L <sub>eq</sub>	ured Noise	Level L <sub>10</sub>	Limit Level Construction Noise Level		Weather	Wind Speed
		ey.		(m/s)				
10-Aug-19	08:34	64.1	60.0	67.0		64.1	Fine	0.4
16-Aug-19	16:53	61.9	60.0	64.0	70	61.9	Sunny	0.2
22-Aug-19	13:00	63.3	58.6	67.8	70	63.3	Fine	1.0
28-Aug-19	09:04	64.3	61.0	66.5		64.3	Fine	0.6









#### Zone 1

# NMS 1 Scenery Court

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
03-Aug-19	01:10	57.4							
03-Aug-19	01:15	58.4	58.0	55	61.4	52.8 - 66.3	Measured Noise Level <baseline< td=""><td>Cloudy</td><td>1.0</td></baseline<>	Cloudy	1.0
03-Aug-19	01:20	58.2							

\*Note: Measured Average Leq (5min): 58.0 dB(A) was lower than baseline level: 61.4 dB(A).

## NMS 2 Villa Le Parc

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
02-Aug-19	23:00	53.1							
02-Aug-19	23:05	50.3	51.9	55	49.7	40.1 - 58.2	Measured Noise Level <limit level<="" td=""><td>Cloudy</td><td>1.2</td></limit>	Cloudy	1.2
02-Aug-19	23:10	51.8							
*Note: Measured Average Leq (5min): 51.9 dB(A) was lower than Limit level: 55 dB(A).									

## NMS 3 Hilton Plaza

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
03-Aug-19	01:35	64.0							
03-Aug-19	01:40	66.5	65.7	55	70.9	60.2 - 78.9	Measured Noise Level <baseline< td=""><td>Cloudy</td><td>0.9</td></baseline<>	Cloudy	0.9
03-Aug-19	01:45	66.2							
*Note: Meas	ured Average	Leg (5min): 65 7 dB(A) was	lower than baselin	Ab 0 07 : loval a	۵)				,

\*Note: Measured Average Leq (5min): 65.7 dB(A) was lower than baseline level: 70.9 dB(A).

# Zone 2

# NMS 4 Tin Liu

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
02-Aug-19	23:36	57.8							
02-Aug-19	23:41	57.1	58.3	55	62.6	53.1 - 68.1	Measured Noise Level <baseline< td=""><td>Cloudy</td><td>1.0</td></baseline<>	Cloudy	1.0
02-Aug-19	23:46	59.6							
02-Aug-19	23:46					53.1 - 68.1	Measured Noise Level <baseline< td=""><td>Cloudy</td><td>1</td></baseline<>	Cloudy	1

\*Note: Measured Average Leq (5min): 58.3 dB(A) was lower than baseline level: 62.6 dB(A).

# NMS 5A Wai Wah Centre

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
03-Aug-19	00:17	66.1							
03-Aug-19	00:22	66.2	66.5	55	67.9	62.0 - 75.2	Measured Noise Level <baseline< td=""><td>Cloudy</td><td>1.2</td></baseline<>	Cloudy	1.2
03-Aug-19	00:27	67.1							

\*Note: Measured Average Leq (5min): 66.5 dB(A) was lower than baseline level: 67.9 dB(A).

## NMS 6A Wai Wah Centre

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
03-Aug-19	00:35	67.1							
03-Aug-19	00:40	66.5	67.3	55	71.5	65.0 - 85.9	Measured Noise Level <baseline< td=""><td>Cloudy</td><td>1.0</td></baseline<>	Cloudy	1.0
03-Aug-19	00:45	68.2							
					• >				

\*Note: Measured Average Leq (5min): 67.3 dB(A) was lower than baseline level: 71.5 dB(A).

### NMS 7 Tin Liu

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
02-Aug-19	23:47	55.7							
02-Aug-19	23:52	54.6	56.5	55	59.0	51.4 - 65.5	Measured Noise Level <baseline< td=""><td>Cloudy</td><td>1.2</td></baseline<>	Cloudy	1.2
02-Aug-19	23:57	58.4							

\*Note: Measured Average Leq (5min): 56.5 dB(A) was lower than baseline level: 59 dB(A).

#### Zone 3A

# NMS 8 Shatin Plaza

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
03-Aug-19	02:05	58.5							
03-Aug-19	02:10	58.7	58.7	55	64.4	55.6 - 72.8	Measured Noise Level <baseline< td=""><td>Cloudy</td><td>1.2</td></baseline<>	Cloudy	1.2
03-Aug-19	02:15	59.0							

\*Note: Measured Average Leq (5min): 58.7 dB(A) was lower than baseline level: 64.4 dB(A).

#### NMS 23 Pai Tau

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
03-Aug-19	04:38	56.2							
03-Aug-19	04:43	57.6	56.6	55	59.9	47.8 - 69.8	Measured Noise Level <baseline< td=""><td>Cloudy</td><td>1.1</td></baseline<>	Cloudy	1.1
03-Aug-19	04:48	55.7							
*Note: Measured Average Leq (5min): 56.6 dB(A) was lower than baseline level: 59.9 dB(A).									

## NMS 24 Shatin Plaza

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
03-Aug-19	05:13	57.4							
03-Aug-19	05:18	58.0	58.0	55	58.0	50.2 - 66.7	Measured Noise Level <baseline< td=""><td>Cloudy</td><td>1.2</td></baseline<>	Cloudy	1.2
03-Aug-19	05:23	58.5							
*Note: Meas	ured Average	Lea (5min): 58 0 dB(A) was	lower than bacelin	a laval: 58 dB(A)					

\*Note: Measured Average Leq (5min): 58.0 dB(A) was lower than baseline level: 58 dB(A).

# Zone 3B

## NMS 9 Lek Yuen Estate

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
03-Aug-19	02:40	57.4							
03-Aug-19	02:45	55.6	56.9	55	53.5	39.5 - 63.1	54.2	Cloudy	1.0
03-Aug-19	02:50	57.4							
*NI-to: Oom	stad National a	violin Log (Empin), E4.2 dB//	View and a second data and	and law all CC dD/	A )				

\*Note: Corrected Noise Level in Leq (5min): 54.2 dB(A) was lower than Limit level: 55 dB(A).

## NMS 11 Sheung Wo Che

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
03-Aug-19	04:00	54.6							
03-Aug-19	04:05	55.7	56.0	55	53.2	46.1 - 62.8	52.7	Cloudy	1.2
03-Aug-19	04:10	57.2							

\*Note: Corrected Noise Level in Leq (5min): 52.7 dB(A) was lower than Limit level: 55 dB(A).

#### NMS 13 Lek Yuen Estate

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
03-Aug-19	03:06	59.1							
03-Aug-19	03:11	58.4	58.8	55	57.3	45.4 - 72.5	53.5	Cloudy	1.1
03-Aug-19	03:16	58.9							
		58.9			• >				

\*Note: Corrected Noise Level in Leq (5min): 53.5 dB(A) was lower than Limit level: 55 dB(A).

#### NMS 14 Sheung Wo Che

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
03-Aug-19	03:36	53.9							
03-Aug-19	03:41	54.4	54.9	55	54.1	46.1 - 62.8	Measured Noise Level <limit level<="" td=""><td>Cloudy</td><td>1.1</td></limit>	Cloudy	1.1
03-Aug-19	03:46	56.2							

\*Note: Measured Average Leq (5min): 54.9 dB(A) was lower than Limit level: 55 dB(A).

#### NMS 25A Sheung Wo Che

Date	Start Time	Measured Average L <sub>eq</sub>	Average L <sub>eq</sub>	Limit Level	Baseline	Baseline Range	Corrected Noise Level (dB(A))	Weather	Wind Speed
Dute	Start Time	(5min) (dB(A))	(15 min) (dB(A))	(dB(A))	(dB(A))	(dB(A))	Confected Noise Level (dB(A))	moulin	(m/s)
03-Aug-19	04:18	59.2							
03-Aug-19	04:23	58.4	58.4	55	59.7	50.3 - 68.4	Measured Noise Level <baseline< td=""><td>Cloudy</td><td>1.2</td></baseline<>	Cloudy	1.2
03-Aug-19	04:28	57.6							
		Log (Emin) ER 1 dB(A) was	Laura a the area in a sa a line		A.)				

Note: Measured Average Leq (5min): 58.4 dB(A) was lower than baseline level: 59.7 dB(A).

#### Zone 1

#### NMS 1 Scenery Court

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)		
08-Aug-19	23:00	60.5									
08-Aug-19	23:05	59.7	59.9	55	61.4	52.8 - 66.3	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.0</td></baseline<>	Fine	0.0		
08-Aug-19	23:10	59.5									
*Nieter Mees	Note: Married Log (15min): 50.0 dP(A) was lower than baseling lowel: 51.4 dP(A)										

\*Note: Measured Average Leq (15min): 59.9 dB(A) was lower than baseline level: 61.4 dB(A).

#### NMS 2 Villa Le Parc

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
09-Aug-19	02:52	52.6							
09-Aug-19	02:57	56.7	54.7	55	49.7	40.1 - 58.2	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.0</td></limit>	Fine	0.0
09-Aug-19	03:02	53.8							
*Note: Measured Average Leq (15min): 54.7 dB(A) was lower than Limit level: 55 dB(A).									

## NMS 3 Hilton Plaza

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
08-Aug-19	23:47	64.8							
08-Aug-19	23:52	64.2	64.1	55	70.9	60.2 - 78.9	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.0</td></baseline<>	Fine	0.0
08-Aug-19	23:57	63.1							
*Note: Meas	ured Average	Leg (15min): 64 1 dB(A) wa	e lower than basel	na laval 70 9 dB	(Δ)				

\*Note: Measured Average Leq (15min): 64.1 dB(A) was lower than baseline level: 70.9 dB(A).

# Zone 2

## NMS 4 Tin Liu

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
09-Aug-19	02:10	56.9							
09-Aug-19	02:15	55.5	55.9	55	62.6	53.1 - 68.1	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.0</td></baseline<>	Fine	0.0
09-Aug-19	02:20	55.1							
		1 eq (15min): 55 9 dB(A) wa	a lower than baceli	no loval: 62 6 dB	(A)				1

\*Note: Measured Average Leq (15min): 55.9 dB(A) was lower than baseline level: 62.6 dB(A).

# NMS 5A Wai Wah Centre

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
09-Aug-19	00:08	67.2							
09-Aug-19	00:13	66.8	66.5	55	67.9	62.0 - 75.2	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.0</td></baseline<>	Fine	0.0
09-Aug-19	00:18	65.1							

\*Note: Measured Average Leq (15min): 66.5 dB(A) was lower than baseline level: 67.9 dB(A).

## NMS 6A Wai Wah Centre

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
09-Aug-19	00:28	66.6							
09-Aug-19	00:33	65.5	66.6	55	71.5	65.0 - 85.9	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.0</td></baseline<>	Fine	0.0
09-Aug-19	00:38	67.5							
			66.6	55		65.0 - 85.9	Measured Noise Level <baseline< td=""><td>Fine</td><td></td></baseline<>	Fine	

\*Note: Measured Average Leq (15min): 66.6 dB(A) was lower than baseline level: 71.5 dB(A).

### NMS 7 Tin Liu

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
09-Aug-19	01:49	58.3							
09-Aug-19	01:54	58.0	58.3	55	59.0	51.4 - 65.5	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.0</td></baseline<>	Fine	0.0
09-Aug-19	01:59	58.5							

\*Note: Measured Average Leq (15min): 58.3 dB(A) was lower than baseline level: 59 dB(A).

#### Zone 3A

# NMS 8 Shatin Plaza

	art Time	(5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
09-Aug-19 01	01:08	60.3							
09-Aug-19 0 <sup>-</sup>	01:13	59.5	60.1	55	64.4	55.6 - 72.8	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.0</td></baseline<>	Fine	0.0
09-Aug-19 01	01:18	60.5							

\*Note: Measured Average Leq (15min): 60.1 dB(A) was lower than baseline level: 64.4 dB(A).

#### NMS 23 Pai Tau

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)	
09-Aug-19	01:30	59.8								
09-Aug-19	01:35	60.9	60.3	55	59.9	47.8 - 69.8	49.7	Fine	0.0	
09-Aug-19 01:40 60.1										
*Note: Corre	Note: Corrected Noise Level in Leq (15min): 49.7 dB(A) was lower than Limit level: 55 dB(A).									

## NMS 24 Shatin Plaza

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
09-Aug-19	00:50	58.3							
09-Aug-19	00:55	59.3	58.7	55	58.0	50.2 - 66.7	50.6	Fine	0.0
09-Aug-19	01:00	58.5							
		58.5		Limit lavely EE dB					ļ

\*Note: Corrected Noise Level in Leq (15min): 50.6 dB(A) was lower than Limit level: 55 dB(A).

# Zone 3B

## NMS 9 Lek Yuen Estate

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
10-Aug-19	03:56	54.9							
10-Aug-19	04:01	56.8	55.9	55	53.5	39.5 - 63.1	52.1	Cloudy	0.2
10-Aug-19	04:06	55.7							
**	stad Maina La	valia log (1 Emin), EQ 1 dB	(A)	Lineit Leviel, CC alD	(4)				

\*Note: Corrected Noise Level in Leq (15min): 52.1 dB(A) was lower than Limit level: 55 dB(A).

## NMS 11 Sheung Wo Che

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
10-Aug-19	00:53	57.7							
10-Aug-19	00:58	55.4	56.1	55	53.2	46.1 - 62.8	52.9	Cloudy	0.2
10-Aug-19	01:03	54.4							

\*Note: Corrected Noise Level in Leq (15min): 52.9 dB(A) was lower than Limit level: 55 dB(A).

#### NMS 13 Lek Yuen Estate

10-Aug-19         03:34         56.9           10-Aug-19         03:39         56.5         55         57.3         45.4 - 72.5         Measured Noise Level <baseline< td="">         Cloudy         0.6</baseline<>	Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
10-Aug-19 03:39 56.5 56.5 55 57.3 45.4 - 72.5 Measured Noise Level-Baseline Cloudy 0.6	10-Aug-19	03:34	56.9							
	10-Aug-19	03:39	56.5	56.5	55	57.3	45.4 - 72.5	Measured Noise Level <baseline< td=""><td>Cloudy</td><td>0.6</td></baseline<>	Cloudy	0.6
10-Aug-19 03:44 56.1	10-Aug-19	03:44	56.1							

\*Note: Measured Average Leq (15min): 56.5 dB(A) was lower than baseline level: 57.3 dB(A).

#### NMS 14 Sheung Wo Che

Date	Start Time	Measured Average L <sub>eq</sub>	Average L <sub>eq</sub>	Limit Level	Baseline	Baseline Range	Corrected Noise Level (dB(A))	Weather	Wind Speed
Date	Start Time	(5min) (dB(A))	(15 min) (dB(A))	(dB(A))	(dB(A))	(dB(A))	Confected Noise Level (ub(A))	weather	(m/s)
10-Aug-19	01:10	56.9							
10-Aug-19	01:15	57.3	57.1	55	54.1	46.1 - 62.8	54.0	Cloudy	0.2
10-Aug-19	01:20	57.0							

\*Note: Corrected Noise Level in Leq (15min): 54.0 dB(A) was lower than Limit level: 55 dB(A).

#### NMS 25A Sheung Wo Che

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
10-Aug-19	00:35	60.2							
10-Aug-19	00:40	59.2	59.4	55	59.7	50.3 - 68.4	Measured Noise Level <baseline< td=""><td>Cloudy</td><td>0.2</td></baseline<>	Cloudy	0.2
10-Aug-19	00:45	58.6							1
*Noto: Moon	urad Avaraga	$\log (1 \text{ Emin}) \cdot \text{ EQ} (1 \text{ Emin})$	a lower than bacali	no loval: 50 7 dP	(A)				

Note: Measured Average Leq (15min): 59.4 dB(A) was lower than baseline level: 59.7 dB(A).

### Zone 4

# NMS 15 Ha Wo Che

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
10-Aug-19	01:28	59.4							
10-Aug-19	01:33	57.5	58.6	55	58.8	48.4 - 69.7	Measured Noise Level <baseline< td=""><td>Cloudy</td><td>0.2</td></baseline<>	Cloudy	0.2
10-Aug-19	01:38	58.7							
		Leq (15min): 58.6 dB(A) wa	as lower than baseli	ne level: 58.8 dB	(A).				

## NMS 16 Ha Wo Che

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
10-Aug-19	02:13	55.0							
10-Aug-19	02:18	57.5	56.4	55	60.1	51.4 - 69.5	Measured Noise Level <baseline< td=""><td>Cloudy</td><td>0.2</td></baseline<>	Cloudy	0.2
10-Aug-19	02:23	56.3							

\*Note: Measured Average Leq (15min): 56.4 dB(A) was lower than baseline level: 60.1 dB(A).

# Zone 5

# NMS 18 Ha Wo Che

Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
01:56	57.8							
02:01	55.4	56.6	55	63.2	56.0 - 72.1	Measured Noise Level <baseline< td=""><td>Cloudy</td><td>0.1</td></baseline<>	Cloudy	0.1
02:06	56.2							
	01:56 02:01	Start Time         (5min) (dB(A))           01:56         57.8           02:01         55.4	Start Time         (5min) (dB(A))         (15 min) (dB(A))           01:56         57.8           02:01         55.4         56.6	Start Time         (5min) (dB(A))         (15 min) (dB(A))         (dB(A))           01:56         57.8	Start Time         (5min) (dB(A))         (15 min) (dB(A))         (dB(A))         (dB(A))           01:56         57.8         56.6         55         63.2	Start Time         (5min) (dB(A))         (15 min) (dB(A))         (dB(A))         (dB(A))         (dB(A))           01:56         57.8	Start Time         (5min) (dB(A))         (15 min) (dB(A))         (dB(A))         (dB(A))         (dB(A))         Corrected Noise Level (dB(A))           01:56         57.8         56.6         55         63.2         56.0 - 72.1         Measured Noise Level         Measured Noise L	Start Time         (5min) (dB(A))         (15 min) (dB(A))         (dB(A))         (dB(A))         (dB(A))         Corrected Noise Level (dB(A))         weather           01:56         57.8         56.6         55         63.2         56.0 - 72.1         Measured Noise Level <baseline< td="">         Cloudy</baseline<>

\*Note: Measured Average Leq (15min): 56.6 dB(A) was lower than baseline level: 63.2 dB(A).

#### NMS 19 Wo Che Estate

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
10-Aug-19	02:57	59.4							
10-Aug-19	03:02	58.6	58.8	55	61.7	53.8 - 72.8	Measured Noise Level <baseline< td=""><td>Cloudy</td><td>0.7</td></baseline<>	Cloudy	0.7
10-Aug-19	03:07	58.4							
	1.4	L = = (4 = = := ); = 0 = (D(A)			(4)				

\*Note: Measured Average Leq (15min): 58.8 dB(A) was lower than baseline level: 61.7 dB(A).

#### NMS 20 Wo Che Estate

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
10-Aug-19	02:38	58.0							
10-Aug-19	02:43	52.7	55.4	55	57.7	48.6 - 71.7	Measured Noise Level <baseline< td=""><td>Cloudy</td><td>0.7</td></baseline<>	Cloudy	0.7
10-Aug-19	02:48	53.5							

\*Note: Measured Average Leq (15min): 55.4 dB(A) was lower than baseline level: 57.7 dB(A).

#### NMS 26 Wo Che Estate

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
10-Aug-19	03:18	62.0							
10-Aug-19	03:23	59.1	60.5	55	61.2	45.7 - 70.1	Measured Noise Level <baseline< td=""><td>Cloudy</td><td>0.8</td></baseline<>	Cloudy	0.8
10-Aug-19	03:28	60.0							

\*Note: Measured Average Leq (15min): 60.5 dB(A) was lower than baseline level: 61.2 dB(A).

#### Zone 1

# NMS 1 Scenery Court

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
15-Aug-19	23:45	58.4							
15-Aug-19	23:50	57.6	57.9	55	61.4	52.8 - 66.3	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.4</td></baseline*<>	Fine	0.4
15-Aug-19	23:55	57.7							

\*Note: Measured Average Leq (15min): 57.9 dB(A) was lower than baseline level: 61.4 dB(A).

#### NMS 2 Villa Le Parc

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
16-Aug-19	03:47	45.3							
16-Aug-19	03:52	51.3	48.4	55	49.7	40.1 - 58.2	Measured Noise Level <limit level*<="" td=""><td>Fine</td><td>0.0</td></limit>	Fine	0.0
16-Aug-19	03:57	46.1							
*Note: Meas	ured Average	e Leq (15min): 48.4 dB(A) wa	as lower than Limit I	evel: 55 dB(A).					

## NMS 3 Hilton Plaza

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
16-Aug-19	00:12	62.0							
16-Aug-19	00:17	63.2	62.2	55	70.9	60.2 - 78.9	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.7</td></baseline*<>	Fine	0.7
16-Aug-19	00:22	61.0							
*Note: Meas	ured Average	Leg (15min): 62.2 dB(A) wa	e lower than baseli	na laval 70 9 dB	(Δ)			•	

\*Note: Measured Average Leq (15min): 62.2 dB(A) was lower than baseline level: 70.9 dB(A).

# Zone 2

# NMS 4 Tin Liu

16-Aug-19 03:24 51.9	Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
	16-Aug-19	03:24	51.9							
16-Aug-19         03:29         50.7         51.2         55         62.6         53.1 - 68.1         Measured Noise Level <limit level*<="" th="">         Fine</limit>	16-Aug-19	03:29	50.7	51.2	55	62.6	53.1 - 68.1	Measured Noise Level <limit level*<="" td=""><td>Fine</td><td>0.1</td></limit>	Fine	0.1
16-Aug-19 03:34 50.9	16-Aug-19	03:34	50.9							

\*Note: Measured Average Leq (15min): 51.2 dB(A) was lower than Limit level: 55 dB(A).

# NMS 5A Wai Wah Centre

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
16-Aug-19	00:43	61.9							
16-Aug-19	00:48	61.6	61.8	55	67.9	62.0 - 75.2	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.7</td></baseline*<>	Fine	0.7
16-Aug-19	00:53	61.9							

\*Note: Measured Average Leq (15min): 61.8 dB(A) was lower than baseline level: 67.9 dB(A).

## NMS 6A Wai Wah Centre

Date	s	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
16-Aug	-19	01:05	64.8							
16-Aug	-19	01:10	64.4	64.4	55	71.5	65.0 - 85.9	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.6</td></baseline*<>	Fine	0.6
16-Aug	-19	01:15	64.0							
						(4)				1

\*Note: Measured Average Leq (15min): 64.4 dB(A) was lower than baseline level: 71.5 dB(A).

### NMS 7 Tin Liu

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
16-Aug-19	03:04	52.2							
16-Aug-19	03:09	52.4	52.3	55	59.0	51.4 - 65.5	Measured Noise Level <limit level*<="" td=""><td>Fine</td><td>0.1</td></limit>	Fine	0.1
16-Aug-19	03:14	52.2							

\*Note: Measured Average Leq (15min): 52.3 dB(A) was lower than Limit level: 55 dB(A).

#### Zone 3A

#### NMS 8 Shatin Plaza

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
16-Aug-19	02:09	58.7							
16-Aug-19	02:14	56.8	57.3	55	64.4	55.6 - 72.8	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.3</td></baseline*<>	Fine	0.3
16-Aug-19	02:19	55.9							
		55.9							

\*Note: Measured Average Leq (15min): 57.3 dB(A) was lower than baseline level: 64.4 dB(A).

## NMS 23 Pai Tau

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
16-Aug-19	02:38	49.2							
16-Aug-19	02:43	51.1	50.0	55	59.9	47.8 - 69.8	Measured Noise Level <limit level*<="" td=""><td>Fine</td><td>0.2</td></limit>	Fine	0.2
16-Aug-19	02:48	49.3							

\*Note: Measured Average Leq (15min): 50.0 dB(A) was lower than Limit level: 55 dB(A).

#### NMS 24 Shatin Plaza

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
16-Aug-19	01:48	54.5							
16-Aug-19	01:53	56.7	55.2	55	58.0	50.2 - 66.7	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.3</td></baseline*<>	Fine	0.3
16-Aug-19	01:58	53.9							
*Note: Measured Average Leq (15min): 55.2 dB(A) was lower than baseline level: 58 dB(A).									

# Zone 3B

#### NMS 9 Lek Yuen Estate

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
17-Aug-19	03:25	55.2							
17-Aug-19	03:30	55.5	55.3	55	53.5	39.5 - 63.1	50.6*	Fine	0.2
17-Aug-19	03:35	55.2							

\*Note: Corrected Noise Level in Leg (15min): 50.6 dB(A) was lower than Limit level: 55 dB(A).

#### NMS 11 Sheung Wo Che

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)		
16-Aug-19	23:37	55.2									
16-Aug-19	23:42	53.4	54.6	55	53.2	46.1 - 62.8	Measured Noise Level <limit level*<="" td=""><td>Fine</td><td>0.0</td></limit>	Fine	0.0		
16-Aug-19	23:47	55.0									
Torhagring 20147 - 30.00											

Measured Average Leq (15min): 54.6 dB(A) was lower than Limit level: 55 d

#### NMS 13 Lek Yuen Estate

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
17-Aug-19	02:57	53.4							
17-Aug-19	03:02	53.7	53.6	55	57.3	45.4 - 72.5	Measured Noise Level <limit level*<="" td=""><td>Fine</td><td>0.2</td></limit>	Fine	0.2
17-Aug-19	03:07	53.6							

\*Note: Measured Average Leq (15min): 53.6 dB(A) was lower than Limit level: 55 dB(A).

# NMS 14 Sheung Wo Che (1st measurement)

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
16-Aug-19	23:58	58.5							
17-Aug-19	00:03	59.1	59.4	55	54.1	46.1 - 62.8	57.8*	Fine	0.0
17-Aug-19	00:08	60.3							
Site Condition	ons and Rema	arks:							

Traffic vehicles noise
 \*Note: Corrected Noise Level in Leq (15min): 57.8 dB(A) was greater than Limit level: 55 dB(A).
 The exceedance case was considered due to road traffic noise but not project-related construction activities.

## NMS 14 Sheung Wo Che (2nd measurement)

Date	Start Time	Measured Average L <sub>eq</sub>	Average L <sub>eq</sub>	Limit Level	Baseline	Baseline Range	Corrected Noise Level (dB(A))	Weather	Wind Speed
Date	Start Time	(5min) (dB(A))	(15 min) (dB(Å))	(dB(A))	(dB(A))	(dB(A))	Corrected Noise Level (dB(A))	weather	(m/s)
17-Aug-19	00:22	57.8							
17-Aug-19	00:27	59.1	58.6	55	54.1	46.1 - 62.8	56.8*	Fine	0.0
17-Aug-19	00:32	58.9							
Site Condition	ons and Rema	arks:							
Troffic uch	ialaa aalaa								

<u>Intific vehicles noise</u>
 \*Note: Corrected Noise Level in Leq (15min): 56.8 dB(A) was greater than Limit level: 55 dB(A).
 The exceedance case was considered due to road traffic noise but not project-related construction activities.

#### NMS 25A Sheung Wo Che (1st measurement)

Date	Start Time	Measured Average L <sub>eq</sub>	Average L <sub>eq</sub>	Limit Level	Baseline	Baseline Range	Corrected Noise Level (dB(A))	Weather	Wind Speed
Date	Start Time	(5min) (dB(A))	(15 min) (dB(A))	(dB(A))	(dB(A))	(dB(A))	Corrected Noise Level (dB(A))	Weather	(m/s)
16-Aug-19	23:00	63.3							
16-Aug-19	23:05	63.5	63.3	55	59.7	50.3 - 68.4	60.8*	Fine	0.0
16-Aug-19	23:10	63.0							
Site Conditions and Remarks:									

Taffic vehicle and train noise
 \*Note: Corrected Noise Level in Leq (15min): 60.8 dB(A) was greater than Limit level: 55 dB(A).
 The exceedance case was considered due to road traffic noise but not project-related construction activities.

#### NMS 25A Sheung Wo Che (2nd measurement)

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
		(5min) (0D(A))	(15 min) (06(A))	(UB(A))	(UB(A))	(UB(A))			(11/5)
16-Aug-19	23:18	62.8							
16-Aug-19	23:23	64.8	63.6	55	59.7	50.3 - 68.4	61.3*	Fine	0.0
16-Aug-19	23:28	62.9							
Site Condition	ons and Rema	arks:							
- Taffic vehicle and train noise									

\*Note: Corrected Noise Level in Leq (15min): 61.3 dB(A) was greater than Limit level: 55 dB(A).

The exceedance case was considered due to road traffic noise but not project-related construction activities.

#### Zone 4

## NMS 15 Ha Wo Che

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)			
17-Aug-19	00:40	60.2										
17-Aug-19	00:45	59.3	59.7	55	58.8	48.4 - 69.7	52.7*	Fine	0.0			
17-Aug-19	00:50	59.7										
*Note: Corre	Note: Corrected Noise Level in Leq (15min): 52.7 dB(A) was lower than Limit level: 55 dB(A).											

NMS 16 Ha Wo Che

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)			
17-Aug-19	01:25	56.7										
17-Aug-19	01:30	56.6	56.5	55	60.1	51.4 - 69.5	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.1</td></baseline*<>	Fine	0.1			
17-Aug-19	01:35	56.2										
*Note: Meas	17:-00:15 01:35 5.2 5.2 (March 2014) 01:35 5.2 (March 2014) 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01:35 1 01											

## Zone 5

# NMS 18 Ha Wo Che

17-Aug-19 01:04 58.4 17-Aug-19 01:04 58.4 57.0 55 69.2 56.0.72.1 Manuard Naire Level-Reselies* Eng. 0.1	Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
47 Aug 40 04 00 50 4 57 0 55 62 2 56 0 72 1 Maggurod Noise Lovel - Reseline* Fine 0.1	17-Aug-19	01:04	58.4							
17-Aug-19 01:09 58.4 57.5 55 65.2 50.0 72.1 Weasured Noise Level Dasenne Time 0.1	17-Aug-19	01:09	58.4	57.9	55	63.2	56.0 - 72.1	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.1</td></baseline*<>	Fine	0.1
17-Aug-19 01:14 56.8	17-Aug-19	01:14	56.8							

\*Note: Measured Average Leq (15min): 57.9 dB(A) was lower than baseline level: 63.2 dB(A).

## NMS 19 Wo Che Estate

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
17-Aug-19	02:12	60.9							
17-Aug-19	02:17	62.4	61.5	55	61.7	53.8 - 72.8	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.3</td></baseline*<>	Fine	0.3
17-Aug-19	02:22	61.1							

\*Note: Measured Average Leq (15min): 61.5 dB(A) was lower than baseline level: 61.7 dB(A).

#### NMS 20 Wo Che Estate

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
17-Aug-19	01:53	58.6							
17-Aug-19	01:58	57.8	58.4	55	57.7	48.6 - 71.7	50.0*	Fine	0.3
17-Aug-19	02:03	58.7							

\*Note: Corrected Noise Level in Leq (15min): 50.0 dB(A) was lower than Limit level: 55 dB(A).

#### NMS 26 Wo Che Estate

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
17-Aug-19	02:37	57.6							
17-Aug-19	02:42	58.2	58.0	55	61.2	45.7 - 70.1	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.3</td></baseline*<>	Fine	0.3
17-Aug-19	02:47	58.3							

\*Note: Measured Average Leq (15min): 58.0 dB(A) was lower than baseline level: 61.2 dB(A).

#### Zone 1

#### NMS 1 Scenery Court

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
22-Aug-19	23:00	60.2							
22-Aug-19	23:05	60.3	60.2	55	61.4	52.8 - 66.3	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.2</td></baseline*<>	Fine	0.2
22-Aug-19	23:10	60.2							
*Nieter Mees	urad Average	Log (15min): 60.2 dP(A) wa	a lower then head	na lavali 61.4 dD	(A)				

\*Note: Measured Average Leq (15min): 60.2 dB(A) was lower than baseline level: 61.4 dB(A).

## NMS 2 Villa Le Parc

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
23-Aug-19	03:00	48.2							
23-Aug-19	03:05	47.8	48.4	55	49.7	40.1 - 58.2	Measured Noise Level <limit level*<="" td=""><td>Fine</td><td>0.0</td></limit>	Fine	0.0
23-Aug-19	03:10	49.0							
*Note: Measured Average Leq (15min): 48.4 dB(A) was lower than Limit level: 55 dB(A).									

## NMS 3 Hilton Plaza

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
22-Aug-19	23:20	66.4							
22-Aug-19	23:25	64.5	65.6	55	70.9	60.2 - 78.9	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.1</td></baseline*<>	Fine	0.1
22-Aug-19	23:30	65.6							
*Note: Meas	ured Average	Leg (15min): 65.6 dB(A) wa	e lower than baseli	na laval 70 9 dB	(Δ)				

\*Note: Measured Average Leq (15min): 65.6 dB(A) was lower than baseline level: 70.9 dB(A).

# Zone 2

# NMS 4 Tin Liu

Date Start T	ime (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
22-Aug-19 23:0	1 56.4							
22-Aug-19 23:0	6 55.9	55.9	55	62.6	53.1 - 68.1	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.0</td></baseline*<>	Fine	0.0
22-Aug-19 23:1	1 55.5							

\*Note: Measured Average Leq (15min): 55.9 dB(A) was lower than baseline level: 62.6 dB(A).

# NMS 5A Wai Wah Centre

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
23-Aug-19	00:50	66.6							
23-Aug-19	00:55	68.4	67.6	55	67.9	62.0 - 75.2	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.0</td></baseline*<>	Fine	0.0
23-Aug-19	01:00	67.5							

\*Note: Measured Average Leq (15min): 67.6 dB(A) was lower than baseline level: 67.9 dB(A).

## NMS 6A Wai Wah Centre

Date St	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
23-Aug-19	00:33	69.5							
23-Aug-19	00:38	69.0	69.0	55	71.5	65.0 - 85.9	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.1</td></baseline*<>	Fine	0.1
23-Aug-19	00:43	68.6							

\*Note: Measured Average Leq (15min): 69.0 dB(A) was lower than baseline level: 71.5 dB(A).

#### NMS 7 Tin Liu

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
22-Aug-19	23:19	57.8							
22-Aug-19	23:24	58.7	58.9	55	59.0	51.4 - 65.5	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.0</td></baseline*<>	Fine	0.0
22-Aug-19	23:29	60.0							

\*Note: Measured Average Leq (15min): 58.9 dB(A) was lower than baseline level: 59 dB(A).

#### Zone 3A

## NMS 8 Shatin Plaza

Date Sta	art Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
22-Aug-19 2	23:55	61.3							
23-Aug-19 0	00:00	61.4	61.8	55	64.4	55.6 - 72.8	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.1</td></baseline*<>	Fine	0.1
23-Aug-19 0	00:05	62.6							

\*Note: Measured Average Leq (15min): 61.8 dB(A) was lower than baseline level: 64.4 dB(A).

## NMS 23 Pai Tau

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
23-Aug-19	02:17	50.7							
23-Aug-19	02:22	52.4	51.9	55	59.9	47.8 - 69.8	Measured Noise Level <limit level*<="" td=""><td>Fine</td><td>0.0</td></limit>	Fine	0.0
23-Aug-19	02:27	52.3							

\*Note: Measured Average Leq (15min): 51.9 dB(A) was lower than Limit level: 55 dB(A).

#### NMS 24 Shatin Plaza

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
23-Aug-19	00:13	59.3							
23-Aug-19	00:18	59.6	59.4	55	58.0	50.2 - 66.7	53.9*	Fine	0.1
23-Aug-19	00:23	59.4							
*Note: Corrected Noise Level in Leq (15min): 53.9 dB(A) was lower than Limit level: 55 dB(A).									

# Zone 3B

#### NMS 9 Lek Yuen Estate

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
23-Aug-19	01:25	58.2							
23-Aug-19	01:30	57.4	57.6	55	53.5	39.5 - 63.1	55.4*	Fine	0.0
23-Aug-19	01:35	57.0							

\*Note: Due to rounding up, Corrected Noise Level in Leq (15min): 55.0 dB(A) was equal to Limit level: 55 dB(A).

#### NMS 11 Sheung Wo Che

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
23-Aug-19	01:31	48.6							
23-Aug-19	01:36	50.5	49.1	55	53.2	46.1 - 62.8	Measured Noise Level <limit level*<="" td=""><td>Fine</td><td>0.0</td></limit>	Fine	0.0
23-Aug-19	01:41	47.9							
*Note: Meas	ured Average	Leg (15min): 49.1 dB(A) w	e lower than Limit	loval: 55 dB(A)		•	•		•

Note: Measured Average Leq (15min): 49.1 dB(A) was lower than Limit level: 55 dB(A).

#### NMS 13 Lek Yuen Estate

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
23-Aug-19	01:45	56.3							
23-Aug-19	01:50	58.8	57.2	55	57.3	45.4 - 72.5	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.0</td></baseline*<>	Fine	0.0
23-Aug-19	01:55	55.7							

\*Note: Measured Average Leq (15min): 57.2 dB(A) was lower than baseline level: 57.3 dB(A).

#### NMS 14 Sheung Wo Che

Date	Start Time	Measured Average L <sub>eq</sub>	Average L <sub>eq</sub>	Limit Level	Baseline	Baseline Range	Corrected Noise Level (dB(A))	Weather	Wind Speed
Date	Start Time	(5min) (dB(A))	(15 min) (dB(A))	(dB(A))	(dB(A))	(dB(A))	Confected Noise Level (ub(A))	weather	(m/s)
23-Aug-19	01:10	55.5							
23-Aug-19	01:15	54.6	54.1	55	54.1	46.1 - 62.8	Measured Noise Level <limit level*<="" td=""><td>Fine</td><td>0.1</td></limit>	Fine	0.1
23-Aug-19	01:20	51.2							
*Note: Measured Average Leq (15min): 54.1 dB(A) was lower than Limit level: 55 dB(A).									

## NMS 25A Sheung Wo Che

Date	Start Time	Measured Average L <sub>eq</sub>	Average L <sub>eq</sub>	Limit Level	Baseline	Baseline Range	Corrected Noise Level (dB(A))	Weather	Wind Speed
Dute	otart mile	(5min) (dB(A))	(15 min) (dB(A))	(dB(A))	(dB(A))	(dB(A))	Concelled Noise Level (dB(A))	reather	(m/s)
23-Aug-19	01:55	52.8							
23-Aug-19	02:00	52.8	52.7	55	59.7	50.3 - 68.4	Measured Noise Level <limit level*<="" td=""><td>Fine</td><td>0.1</td></limit>	Fine	0.1
23-Aug-19	02:05	52.5							
*Note: Measured Average Leg (15min): 52.7 dB(A) was lower than Limit level: 55 dB(A).									

#### Zone 4

## NMS 15 Ha Wo Che

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)	
23-Aug-19	00:53	56.5								
23-Aug-19	00:58	56.1	56.2	55	58.8	48.4 - 69.7	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.1</td></baseline*<>	Fine	0.1	
23-Aug-19	01:03	56.0								
*Note: Meas	Note: Measured Average Leq (15min): 56.2 dB(A) was lower than baseline level: 58.8 dB(A).									

## NMS 16 Ha Wo Che

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
23-Aug-19	00:24	57.0							
23-Aug-19	00:29	55.0	56.2	55	60.1	51.4 - 69.5	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.0</td></baseline*<>	Fine	0.0
23-Aug-19	00:34	56.3							
*Note: Meas	ured Average	Leq (15min): 56.2 dB(A) was	lower than baseline	e level: 60.1 dB(A	).				

## Zone 5

# NMS 18 Ha Wo Che

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
23-Aug-19	00:05	60.4							
23-Aug-19	00:10	59.3	60.4	55	63.2	56.0 - 72.1	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.0</td></baseline*<>	Fine	0.0
23-Aug-19	00:15	61.2							

\*Note: Measured Average Leq (15min): 60.4 dB(A) was lower than baseline level: 63.2 dB(A).

## NMS 19 Wo Che Estate

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
23-Aug-19	02:33	61.4							
23-Aug-19	02:38	58.2	59.6	55	61.7	53.8 - 72.8	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.0</td></baseline*<>	Fine	0.0
23-Aug-19	02:43	58.6							

\*Note: Measured Average Leq (15min): 59.6 dB(A) was lower than baseline level: 61.7 dB(A).

#### NMS 20 Wo Che Estate

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
23-Aug-19	02:53	55.6							
23-Aug-19	02:58	55.5	55.3	55	57.7	48.6 - 71.7	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.0</td></baseline*<>	Fine	0.0
23-Aug-19	03:03	54.6							

\*Note: Measured Average Leq (15min): 55.3 dB(A) was lower than baseline level: 57.7 dB(A).

#### NMS 26 Wo Che Estate

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
23-Aug-19	02:13	61.8							
23-Aug-19	02:18	60.6	60.7	55	61.2	45.7 - 70.1	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.0</td></baseline*<>	Fine	0.0
23-Aug-19	02:23	59.4							

\*Note: Measured Average Leq (15min): 60.7 dB(A) was lower than baseline level: 61.2 dB(A).

### Regular Night Time Impact Noise Monitoring Result for NOD 03-2018 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

#### Zone 1

### NMS 1 Scenery Court

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)	
29-Aug-19	23:00	58.5								
29-Aug-19	23:05	58.9	58.6	55	61.4	52.8 - 66.3	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.2</td></baseline*<>	Fine	0.2	
29-Aug-19	23:10	58.3								
Note: Measured Average Leg (15min): 56 dP(A) was lower than baseling level: 61 d P(A)										

\*Note: Measured Average Leq (15min): 58.6 dB(A) was lower than baseline level: 61.4 dB(A).

### NMS 2 Villa Le Parc

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)		
29-Aug-19	23:00	49.7									
29-Aug-19	23:05	49.2	50.3	55	49.7	40.1 - 58.2	Measured Noise Level <limit level*<="" td=""><td>Fine</td><td>0.1</td></limit>	Fine	0.1		
29-Aug-19	23:10	51.6									
*Note: Meas	Note: Measured Average Leq (15min): 50.3 dB(A) was lower than Limit level: 55 dB(A).										

### NMS 3 Hilton Plaza

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)		
29-Aug-19	23:20	65.1									
29-Aug-19	23:25	66.3	65.4	55	70.9	60.2 - 78.9	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.6</td></baseline*<>	Fine	0.6		
29-Aug-19	23:30	64.8									
*Note: Messured Average Leg (15min): 65.4 dB(A) was lower than baseline level: 70.9 dB(A)											

\*Note: Measured Average Leq (15min): 65.4 dB(A) was lower than baseline level: 70.9 dB(A).

### Zone 2

### NMS 4 Tin Liu

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
30-Aug-19	02:47	56.1							
30-Aug-19	02:52	55.3	55.8	55	62.6	53.1 - 68.1	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.1</td></baseline*<>	Fine	0.1
30-Aug-19	02:57	55.9							
		55.9 Leg (15min): 55.8 dB(A) wa	a lower than basel	ina lavali 60.6 dB	(4)				

\*Note: Measured Average Leq (15min): 55.8 dB(A) was lower than baseline level: 62.6 dB(A).

### NMS 5A Wai Wah Centre

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
30-Aug-19	00:53	66.1							
30-Aug-19	00:58	66.3	66.5	55	67.9	62.0 - 75.2	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.7</td></baseline*<>	Fine	0.7
30-Aug-19	01:03	67.0							

\*Note: Measured Average Leq (15min): 66.5 dB(A) was lower than baseline level: 67.9 dB(A).

### NMS 6A Wai Wah Centre

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
30-Aug-19	00:35	67.5							
30-Aug-19	00:40	67.0	67.4	55	71.5	65.0 - 85.9	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.7</td></baseline*<>	Fine	0.7
30-Aug-19	00:45	67.6							

\*Note: Measured Average Leq (15min): 67.4 dB(A) was lower than baseline level: 71.5 dB(A).

#### NMS 7 Tin Liu

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
30-Aug-19	02:33	56.0							
30-Aug-19	02:38	57.4	56.9	55	59.0	51.4 - 65.5	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.1</td></baseline*<>	Fine	0.1
30-Aug-19	02:43	57.2							

\*Note: Measured Average Leq (15min): 56.9 dB(A) was lower than baseline level: 59 dB(A).

### Regular Night Time Impact Noise Monitoring Result for NOD 03-2018 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

#### Zone 3A

#### NMS 8 Shatin Plaza

(5min) (dB(A)) (15 min) (dB(A)) (dB(A)) (dB(A))	(dB(A))		Weather	(m/s)
29-Aug-19 23:55 59.6				
30-Aug-19 00:00 57.5 58.5 55 64.4	55.6 - 72.8	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.4</td></baseline*<>	Fine	0.4
30-Aug-19 00:05 58.0				

\*Note: Measured Average Leq (15min): 58.5 dB(A) was lower than baseline level: 64.4 dB(A).

### NMS 23 Pai Tau (1st measurement)

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
30-Aug-19	01:59	73.8							
30-Aug-19	02:04	64.0	70.3	55	59.9	47.8 - 69.8	69.9*	Fine	0.1
30-Aug-19	02:09	67.7							

\*Note: Corrected Noise Level in Leq (15min): 69.9 dB(A) was greater than Limit level: 55 dB(A). The exceedance case was considered due to road traffic noise but not project-related construction activities.

#### NMS 23 Pai Tau (2st measurement)

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)		
30-Aug-19	02:15	66.1									
30-Aug-19	02:20	56.1	62.0	55	59.9	47.8 - 69.8	57.8*	Fine	0.1		
30-Aug-19	02:25	53.8									
Site Condition	Site Conditions and Remarks:										
- Taffic vehicle noise											

\*Note: Corrected Noise Level in Leq (15min): 57.8 dB(A) was greater than Limit level: 55 dB(A).

The exceedance case was considered due to road traffic noise but not project-related construction activities.

#### NMS 24 Shatin Plaza

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
30-Aug-19	00:13	58.4							
30-Aug-19	00:18	58.0	58.5	55	58.0	50.2 - 66.7	49.1*	Fine	0.4
30-Aug-19	00:23	59.1							

\*Note: Corrected Noise Level in Leq (15min): 49.1 dB(A) was lower than Limit level: 55 dB(A).

### Zone 3B

#### NMS 9 Lek Yuen Estate

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
30-Aug-19	01:28	56.1							
30-Aug-19	01:33	57.2	57.1	55	53.5	39.5 - 63.1	54.7*	Fine	0.7
30-Aug-19	01:38	57.9							

\*Note: Corrected Noise Level in Leq (15min): 54.7 dB(A) was lower than Limit level: 55 dB(A).

#### NMS 11 Sheung Wo Che

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
30-Aug-19	01:16	50.6							
30-Aug-19	01:21	50.3	50.2	55	53.2	46.1 - 62.8	Measured Noise Level <limit level*<="" td=""><td>Fine</td><td>0.1</td></limit>	Fine	0.1
30-Aug-19	01:26	49.8							
30-Aug-19	01:26								

te: Measured Average Leq (15min): 50.2 dB(A) was lower than Limit level: 55 dB(A).

### NMS 13 Lek Yuen Estate

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
30-Aug-19	01:48	55.1							
30-Aug-19	01:53	55.4	55.2	55	57.3	45.4 - 72.5	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.9</td></baseline*<>	Fine	0.9
30-Aug-19	01:58	55.2							

\*Note: Measured Average Leq (15min): 55.2 dB(A) was lower than baseline level: 57.3 dB(A).

### NMS 14 Sheung Wo Che

Date	Start Time	Measured Average L <sub>eq</sub>	Average L <sub>eq</sub>	Limit Level	Baseline	Baseline Range	Corrected Noise Level (dB(A))	Weather	Wind Speed	
Date	Start Time	(5min) (dB(A))	)) (15 min) (dB(A)) (dB(A)) (dB(A)) (		(dB(A))	Corrected Noise Lever (db(A))	weather	(m/s)		
30-Aug-19	00:57	55.4								
30-Aug-19	01:02	55.3	55.2	55	54.1	46.1 - 62.8	48.9*	Fine	0.1	
30-Aug-19	01:07	55.0								
*Note: Corre	*Note: Corrected Noise Level in Leq (15min): 48.9 dB(A) was lower than Limit level: 55 dB(A).									

NMS 25A Sheung Wo Che

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)	
30-Aug-19	01:38	51.7								
30-Aug-19	01:43	51.8	51.3	55	59.7	50.3 - 68.4	Measured Noise Level <limit level*<="" td=""><td>Fine</td><td>0.2</td></limit>	Fine	0.2	
30-Aug-19	01:48	50.2								
*Note: Meas	*Note: Measured Average Leg (15min): 51.3 dB(A) was lower than Limit level: 55 dB(A).									

### Regular Night Time Impact Noise Monitoring Result for NOD 03-2018 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

#### Zone 4

#### NMS 15 Ha Wo Che

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
30-Aug-19	00:39	59.0							
30-Aug-19	00:44	60.0	59.2	55	58.8	48.4 - 69.7	48.5*	Fine	0.1
30-Aug-19	00:49	58.4							
*Note: Corrected Noise Level in Leq (15min): 48.5 dB(A) was lower than Limit level: 55 dB(A).									

NMS 16 Ha Wo Che

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)		
29-Aug-19	23:45	58.7									
29-Aug-19	23:50	57.9	58.3	55	60.1	51.4 - 69.5	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.1</td></baseline*<>	Fine	0.1		
29-Aug-19	23:55	58.4									
	Landon 1 2001 2001 2001 2001 2001 2001 2001 2										

### Zone 5

#### NMS 18 Ha Wo Che

		(m/s)
29-Aug-19 23:28 60.2		
29-Aug-19 23:33 58.0 59.0 55 63.2 56.0 - 72.1 Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.1</td></baseline*<>	Fine	0.1
29-Aug-19 23:38 58.5		

\*Note: Measured Average Leq (15min): 59.0 dB(A) was lower than baseline level: 63.2 dB(A).

### NMS 19 Wo Che Estate

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
30-Aug-19	02:16	59.9							
30-Aug-19	02:21	60.4	59.7	55	61.7	53.8 - 72.8	Measured Noise Level <baseline*< td=""><td>Fine</td><td>0.9</td></baseline*<>	Fine	0.9
30-Aug-19	02:26	58.7							

\*Note: Measured Average Leq (15min): 59.7 dB(A) was lower than baseline level: 61.7 dB(A).

#### NMS 20 Wo Che Estate

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
30-Aug-19	02:41	50.6							
30-Aug-19	02:46	52.1	52.0	55	57.7	48.6 - 71.7	Measured Noise Level <limit level*<="" td=""><td>Fine</td><td>0.6</td></limit>	Fine	0.6
30-Aug-19	02:51	52.9							

\*Note: Measured Average Leq (15min): 52.0 dB(A) was lower than Limit level: 55 dB(A).

#### NMS 26 Wo Che Estate (1st measurement)

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
30-Aug-19	00:02	66.9							
30-Aug-19	00:07	66.7	67.0	55	61.2	45.7 - 70.1	65.7*	Fine	0.1
30-Aug-19	00:12	67.4							

### NMS 26 Wo Che Estate (2nd measurement)

Date	Start Time	Measured Average L <sub>eq</sub> (5min) (dB(A))	Average L <sub>eq</sub> (15 min) (dB(A))	Limit Level (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
30-Aug-19	00:19	67.2							
30-Aug-19	00:24	66.9	67.4	55	61.2	45.7 - 70.1	66.1*	Fine	0.1
30-Aug-19	00:29	67.9							
Site Conditio	Site Conditions and Remarks:								

Taffic/Transportation noise
 "Note: Corrected Noise Level in Leq (15min): 66.1 dB(A) was greater than Limit level: 55 dB(A).
 The exceedance case was considered due to road traffic noise but not project-related construction activities.

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Appendix H

**Events and Action Plan** 

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EVENT	ACTION						
	ET Leader	IEC	SO	Contractor			
Action Level 1. Exceedance for one sample	<ol> <li>Identify the source.</li> <li>Inform the IEC and the SO.</li> <li>Repeat measurement to confirm findings.</li> <li>Increase monitoring frequency to daily.</li> </ol>	<ol> <li>Check monitoring data submitted by the ET Leader.</li> <li>Check Contractor's working method.</li> </ol>	1. Notify Contractor.	<ol> <li>Rectify any unacceptable practice.</li> <li>Amend working methods if appropriate.</li> </ol>			
2. Exceedance for two or more consecutive samples	<ol> <li>Identify the source.</li> <li>Inform the IEC and the SO.</li> <li>Repeat measurement to confirm findings.</li> <li>Increase monitoring frequency to daily.</li> <li>Discuss with the IEC and the Contractor on remedial actions required.</li> <li>If exceedance continues, arrange meeting with the IEC and the SO.</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Check monitoring data submitted by the ET Leader.</li> <li>Check the Contractor's working method.</li> <li>Discuss with the ET Leader and the Contractor on possible remedial measures.</li> <li>Advise the SO on the effectiveness of the proposed remedial measures.</li> <li>Supervisor implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing.</li> <li>Notify the Contractor.</li> <li>Ensure remedial measures properly implemente d.</li> </ol>	<ol> <li>Submit proposals for remedial actions to IEC within 3 working days of notification.</li> <li>Implement the agreed proposals.</li> <li>Amend proposal if appropriate.</li> </ol>			
Limit Level							
1. Exceedance for one sample	<ol> <li>Identify the source.</li> <li>Inform the SO and the EPD.</li> <li>Repeat measurement to confirm findings.</li> <li>Increase monitoring frequency to daily.</li> <li>Assess effectiveness of Contractor's remedial actions and keep the IEC, the EPD and the SO informed of the results.</li> </ol>	<ol> <li>Check monitoring data submitted by the ET Leader.</li> <li>Check Contractor's working method.</li> <li>Discuss with the ET Leader and the Contractor on possible remedial measures.</li> <li>Advise the SO on the effectiveness of the proposed remedial measures.</li> <li>Supervisor implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing.</li> <li>Notify the Contractor.</li> <li>Ensure remedial measures are properly implemented.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance.</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification.</li> <li>Implement the agreed proposals.</li> <li>Amend proposal if appropriate.</li> </ol>			
2. Exceedance	1. Notify the IEC, the SO and the EPD and the	1. Discuss amongst the SO, ET	<ol> <li>Confirm receipt of</li> </ol>	1. Take immediate action to avoid			

### Event and Action Plan for Construction Dust Monitoring

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EVENT		ACTION		
	ET Leader	IEC	SO	Contractor
for two or more consecutive samples	<ul> <li>Contractor.</li> <li>Identify the source.</li> <li>Repeat measurement to confirm findings.</li> <li>Increase monitoring frequency to daily.</li> <li>Carry out analysis of the Contractor's working procedures to determine possible mitigation to be implemented.</li> <li>Arrange meeting with the IEC and the SO to discuss the remedial actions to be taken.</li> <li>Assess effectiveness of Contractor's remedial actions and keep the IEC, the EPD and the SO informed of the results.</li> <li>If exceedance stops, cease additional monitoring.</li> </ul>	Leader and the Contractor on the potential remedial actions. 2. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise the SO accordingly. 3. Supervisor implementation of remedial measures.	<ul> <li>notification of failure in writing.</li> <li>2. Notify the Contractor.</li> <li>3. In consultation with the Contractor on the remedial measures to be implemented.</li> <li>4. Ensure remedial measures are properly implemented.</li> <li>5. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated.</li> </ul>	further exceedance. 2. Submit proposals for remedial actions to IEC within 3 working days of notification. 3. Implement the agreed proposals. 4. Resubmit proposals if problem still not under control. 5. Stop the relevant activity of works as determined by the SO until the exceedance is abated.

### FUGRO TECHNICAL SERVICES LIMITED Fugro Development Centre, Tel :+852 2450 8233

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# **Event and Action Plan for Noise Impact**

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

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# Event and Action Plan for Landscape and Visual Impact

Event			Action	
Event		ET	SO	Contractor
Non-conformity one occasion	on	<ol> <li>Identify Source;</li> <li>Inform the Contractor and the SO;</li> </ol>	<ol> <li>Notify Contractor; and</li> <li>Ensure remedial measures are</li> </ol>	<ol> <li>Amend working methods;</li> <li>Rectify damage and undertake</li> </ol>
		<ol> <li>Discuss remedial actions with the SO and the Contractor; and</li> <li>Monitor remedial actions until</li> </ol>	properly implemented.	any necessary replacement.
		rectification has been completed		
Repeated conformity	Non-	<ol> <li>Identify Source;</li> <li>Inform the Contractor and the</li> </ol>	<ol> <li>Notify Contractor; and</li> <li>Ensure remedial</li> </ol>	<ol> <li>Amend working methods;</li> <li>Rectify damage</li> </ol>
		SO; 3. Increase monitoring frequency;	measures are properly implemented.	and undertake any necessary replacement.
		4. Discuss remedial actions with the SO and the Contractor;		
		5. Monitor remedial actions until rectification has been completed; and		
		<ol> <li>6. If exceedance stops, cease additional monitoring.</li> </ol>		

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Appendix I

Waste Flow Table

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Waste Flow	aste Flow Table for Year 2018												
		Actual Quant	tities of Inert C&I	D Materials Gene	erated Monthly		Actual	Quantities of Non-	inert C&D Wast	es Generated N	lonthly		
Monthly Ending	Total Quantity Generated (Inert C&D)	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 2)	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> )		
2018 Jan	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
2018 Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
2018 Mar	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
2018 Apr	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
2018 May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
2018 Jun	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
Sub-Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
2018 Jul	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
2018 Aug	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
2018 Sep	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
2018 Oct	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.013		
2018 Nov	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004		
2018 Dec	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001		
Total	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.018		

Note:

1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.

3) 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>.

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		Actual Quantities of Inert C&D Materials Generated Monthly					Actual	Quantities of Non	-inert C&D Wast	es Generated M	Ionthly
Monthly Ending	Total Quantity Generated (Inert C&D)	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 2)	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> )
2019 Jan	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.021
2019 Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.049
2019 Mar	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.048
2019 Apr	0.100	0.000	0.000	0.000	0.100	0.000	0.000	0.000	0.000	0.000	0.089
2019 May	0.150	0.000	0.000	0.000	0.150	0.000	0.000	0.000	0.000	0.000	0.175
2019 Jun	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.082
Sub-Total	0.250	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.464
2019 Jul	0.141	0.000	0.000	0.000	0.141	0.000	0.000	0.000	0.000	0.000	0.069
2019 Aug	0.431	0.000	0.221	0.000	0.210	0.000	0.000	0.000	0.000	0.000	0.154
2019 Sep											
2019 Oct											
2019 Nov											
2019 Dec											
Total	0.822	0.000	0.221	0.000	0.601	0.000	0.000	0.000	0.000	0.000	0.687

Note:

1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.

3) The Contractor shall also submit the latest forecast of the total amount of Č&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>.

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Appendix J

**Environmental Mitigation Implementation Schedule (EMIS)** 

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase						
	Noise Measures									
		• Scheduling the construction activities carefully according to the actual site work situation, avoid of concurrent activities and construction works fronting the affected schools, to minimize the total noise generated (max as 102dB (A).	Contractor	Implemented						
		<ul> <li>PME is recommended to operate in sub-grouping, and different sub-groups shall not be operated concurrently within any half hour period</li> </ul>	Contractor	Implemented						
		<ul> <li>The construction activities should be carried out in the daytime hours (0700 – 1900). Construction Noise Permit (CNP) for constriction activities is required during evening or night time hours.</li> </ul>	Contractor	Implemented						
3.10.2, 3.10.3, 3.10.14,		<ul> <li>Construction work programme should be considered before actual construction work is undertaken, and noise mitigation measures should be implemented to minimize the potential construction noise impact. Selection and optimization of construction programmes, avoidance and reduction of parallel operation of noisy PME during noise sensitive periods.</li> </ul>	Contractor	Implemented						
3.10.15 and Table 3.10		<ul> <li>Use of well-maintained and regularly-serviced plant during the works.</li> </ul>	Contractor	Implemented						
		• Plant operating on intermittent basis should be turned off or throttled down when not in active use.	Contractor	Implemented						
	Within the boundaries of	• Plant that is known to emit noise strongly in one direction should be orientated to face away from the NSRs.	Contractor	Implemented						
	all construction sites.	<ul> <li>Silencers, mufflers and enclosures for plant should be used where possible and maintained adequately throughout the works.</li> </ul>	Contractor	Not Applicable						
	siles.	Fixed plants should be sited away from NSRs where possible.	Contractor	Not Applicable						
		<ul> <li>Stockpiles of excavated materials and other structures such as site buildings should be used effectively to screen noise from the works.</li> </ul>	Contractor	Not Applicable						
3.10.4, 3.10.5 and		<ul> <li>The use of particular plant with equipment quieter than those specified in the GW-TM are recommended to reduce the noise levels generated by the plant.</li> </ul>	Contractor	Not Applicable						
Table 3.3		<ul> <li>Other type of quiet PME are allowed to use for their needs based on the actual construction conditions and programmes</li> </ul>	Contractor	Not Applicable						
		• Temporary noise barriers provide noise attenuation by screening NSRs from stationary and mobile plants from direct line-of-sight in shadow zone.	Contractor	Not Applicable						
3.10.6 to 3.10.9		<ul> <li>The use of 3m high moveable barriers with skid footing and a small cantilevered upper portion should be adopted. The barrier material shall have a surface mass of not less than 14kg/m<sup>2</sup> on skid footing with 25mm thick internal sound absorptive lining to achieve the maximum screening effect.</li> </ul>	Contractor	Not Applicable						
		<ul> <li>These temporary noise barriers should be located immediately adjacent to working area.</li> </ul>	Contractor	Not Applicable						

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		<ul> <li>The temporary noise barriers should be located along the working area to make sure the construction plant could be screened during all kinds of construction activities as far as practicable.</li> </ul>	Contractor	Not Applicable
		<ul> <li>Noise jacket/muffler shall be used to cover the noisy part of the engine or at the engine exhaust of particular mobile plants respectively when temporary noise barriers are not practicable or noise reduction achieved is insufficient.</li> </ul>		Not Applicable
		<ul> <li>For the stationary plant bored pile oscillator, temporary noise barriers of sufficient height with skid footing and small cantilevered upper portion should be provided.</li> </ul>	Contractor	Not Applicable
		<ul> <li>Barrier material of surface density of at least 14 kg/m<sup>2</sup> is recommended in order to achieve the necessary screening effect.</li> </ul>	Contractor	Not Applicable
3.10.10		<ul> <li>Full noise enclosures should cover the PME or fixed plants such as air compressor.</li> </ul>	Contractor	Not Applicable
		<ul> <li>Silencers, mufflers and enclosures for plant should be used where possible and maintained adequately throughout the works;</li> </ul>	Contractor	Not Applicable
3.10.3		<ul> <li>Where possible fixed plants should be sited away from NSRs; and</li> </ul>	Contractor	Not Applicable
		<ul> <li>Stockpiles of excavated materials and other structures such as site buildings should be used effectively to screen noise from the works.</li> </ul>	Contractor	Not Applicable
		Air Quality Measures		
		<ul> <li>The Contractor shall notify any specific construction works as stated in the Air Pollution Control (Construction Dust) Regulation to the Authority before the commencement of such work. Dust mitigation measures stipulated in the Air Pollution Control (Construction Dust) Regulation should be implemented to control dust emissions from all construction work sites.</li> </ul>	Contractor	Implemented
4.12.1 and	Within the boundaries of all	<ul> <li>The Contractor shall undertake at all times to prevent dust nuisance as a result of his activities. Dust suppression measures such as the water spraying are necessary and should be installed to ensure that the air quality at the boundary of the site and at any sensitive receivers complies with the Hong Kong Air Quality Objectives.</li> </ul>	Contractor	Implemented
4.12.2	construction sites.	<ul> <li>The Contractor shall apply for a license or permit under the requirements of the relevant legislation (e.g. Air Pollution Control Ordinance and its subsidiary regulations) wherever applicable.</li> </ul>	Contractor	Implemented
	sites.	<ul> <li>Watering of unpaved areas, access roads, construction areas and dusty stockpiles shall be undertaken at least eight times daily during dry and windy weather. Watering of the haul road shall be undertaken four to eight times daily during dry or windy weather. Water sprays may be either fixed or mobile to follow individual areas to be wetted as and when required. Application of suitable wetting agents, such as dust suppression chemicals, shall be used in addition to water, especially during the dry season (October to December). It is also suggested that watering with</li> </ul>	Contractor	Implemented

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		complete coverage of active construction area eight times a day.		
		• Effective water sprays shall be used during the delivery and handling of all raw sand and aggregate, and other similar materials, wet dust is likely to be created and to dampen all stored materials during dry and windy weather.	Contractor	Implemented
		<ul> <li>Stockpiles of sand, aggregate or any other dusty materials greater than 20m<sup>3</sup> shall be enclosed on three sides, with walls extending above the pile and 1 meter beyond the front of the pile.</li> </ul>	Contractor	Implemented
		<ul> <li>Suitable chemical wetting agent such as dust suppression chemical shall be used on completed cuts and fills to reduce wind erosion.</li> </ul>	Contractor	Not Observed
		<ul> <li>Areas within the construction site where there is a regular movement of vehicles shall have a paved surface and be kept clear of loose surface material.</li> </ul>	Contractor	Implemented
		<ul> <li>The Contractor shall restrict all motorized vehicles within the construction site, excluding those on public roads, to maximum speed of 20 km per hour and confine haulage and delivery vehicles to designated roadways inside the Site.</li> </ul>	Contractor	Implemented
		<ul> <li>Construction working areas should be restricted to a minimum practicable size.</li> </ul>	Contractor	Implemented
		<ul> <li>The Contractor shall ensure that no earth, rock or debris is deposited on public or private rights of way as result of his activities, including any deposits arising from the movement of plant or vehicles.</li> </ul>	Contractor	Implemented
4.12.1		• The Contractor shall provide a wheel washing facility at the exits from work areas to the satisfaction of the Engineer and to the requirements of the Commissioner of Police. Water in wheel washing facilities and sediment shall be changed and removed respectively at least once a month.	Contractor	Not Applicable
		<ul> <li>The Contractor shall submit details of the wheel washing facilities, which shall be usable prior to any earthworks excavation activity on the construction site. The Contractor shall also provide a hard-surfaced road between any washing facility and the public road.</li> </ul>	Contractor	Not Applicable
		<ul> <li>In the event of any spoil or debris from construction works being deposited on adjacent land, or steams, or any slit being washed down to any area, then all such spoil, debris or material and silt shall be immediately removed and the affected land and areas restored to their natural state by the Contractor to the satisfaction of the Engineer.</li> </ul>	Contractor	Not Applicable
		<ul> <li>If spoil cannot be immediately transported out of the Site, stockpiles should be stored in sheltered areas.</li> </ul>	Contractor	Partially Implemented
		<ul> <li>Plant and vehicles shall be inspected annually to ensure that they are operating efficiently and that exhaust emissions are not causing a nuisance. All site vehicle exhausts should be directed vertically upwards or directed away from ground.</li> </ul>	Contractor	Implemented

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		<ul> <li>Construction dust monitoring shall be carried out at representative monitoring locations during the construction period.</li> </ul>	Contractor	Implemented
4.12.1, 4.13.1 and Table 8.2		• Path for complaints and handling procedures should be set up and implement.	Contractor	Implemented
		<ul> <li>Dark smoke emission shall be control in accordance with the Air Pollution Control (Smoke) Regulation and ETWB TCW 19/2005.</li> </ul>	Contractor	Implemented
NA		<ul> <li>Plant and equipment should be well maintained to prevent dark smoke emission.</li> </ul>	Contractor	Implemented
		<ul> <li>Only approved or exempted Non-road Mobile Machineries (NRMMs) including regulated machines and non-road vehicles with proper labels are allowed to be used in specified activities on-site.</li> </ul>	Contractor	Implemented
		Water Quality Measures		
		<ul> <li>Silt-laden surface run-off should be prevented from directly entering the sensitive receivers during the construction works. The mitigation measures described below for the construction phase are in accordance with ProPECC PN 1/94:</li> </ul>		Implemented
5.7		<ul> <li>Construction works should be programmed so as to minimise excavation during the wet season (April to September). If this is not possible then measures should be taken to minimise the areas exposed by covering temporary exposed slopes with tarpaulins or similar material, the protection of temporary road surfaces with gravel or crushed stone and the early reinstatement of final surfaces with hydro seed grass/shrub mixture. This latter measure would have the added benefit of reducing the windblown dust during the dry season. Where temporary covering of slopes is required this should be carried out before the onset of the rainfall or storm.</li> </ul>	Contractor	Implemented
	construction sites.	<ul> <li>Existing and newly constructed open manholes should be covered and sealed to prevent run off and water borne debris entering the drainage network without having previously passed through a sediment trap.</li> </ul>	Contractor	Implemented
		<ul> <li>Stock piles of construction materials, sand and gravel or excavated material should be covered with tarpaulins prior to rainstorms. The washing of material from the stockpiles directly into the storm drains should be prevented by passing the run off through a sediment trap.</li> </ul>		Implemented
		<ul> <li>The surface water from the site should be discharged into storm water drain after passing through sand and silt traps designed to accommodate the maximum discharge from the site. Within the site channels, bunds or sandbags should be used to direct run off into the traps. Storm water from outwit</li> </ul>	Contractor	Partially Implemented

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		the site should be prevented from washing over the site by the construction of interceptor channels at the site boundary. Both perimeter channels and the sedimentation traps should be constructed prior to the commencement of site formation and earthworks.		
		<ul> <li>The efficiency of the interceptor channels, traps and sedimentation chambers should be maintained by regular cleaning of accumulated silt and sand. Particular attention should be paid to maintenance following heavy rainfall and immediately after the issue of heavy rainfall warning by the Hong Kong Observatory.</li> </ul>	Contractor	Partially Implemented
		<ul> <li>The ingress of rainwater into trenches should be minimised by the construction of bunds to prevent water flowing into the trench and covering by tarpaulins to prevent direct entry. The lengths of excavated trenches should be minimised and backfilled at the earliest opportunity. Water pumped from the trenches should be discharged to the storm water drains following passage through a suitable silt trap.</li> </ul>	Contractor	Implemented
		<ul> <li>Any ground water seeping into any trenches or foundation works should be passed through a silt trap prior to discharge to the storm water drains.</li> </ul>	Contractor	Implemented
		<ul> <li>The water used for the washing down of mixing drums used for onsite batching of concrete and delivery lorries for off-site batched concrete should be recycled whenever possible.</li> <li>Wastewater generated from the washing which is discharged should be passed through a silt trap before discharge to the storm water system.</li> </ul>	Contractor	Not Applicable
		• The wastewater from the washing of the wheels and subframe of vehicles returning from the site onto public roads will contain suspended solids and debris. A washing bay should be provided at the exit from the site and should, where practicable, incorporate water recirculation. Water from the washing bay which is discharged to the storm water system should first be passed through a silt trap which also includes an oil/grease removal weir.	Contractor	Not Applicable
		<ul> <li>Plant maintenance areas should be paved to prevent waste oils soaking into the ground. Where possible the area should be undercover to minimise the formation of runoff and any runoff from the paved area passed through an oil trap before being discharged to the storm drains. Fuel storage tanks should be surrounded by bunds with a capacity of at least 150% of the storage capacity. The bunded areas should be able to be drained of rain water through the petrol interceptor and accumulated rain removed at regular intervals.</li> </ul>	Contractor	Not Applicable
		<ul> <li>Waste oils from the site should be collected and stored for recycling or disposal in accordance with the Waste Disposal Ordinance and absorbent cloths and granules should be available for the cleanup of spillages.</li> </ul>		Not Applicable

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		<ul> <li>Sewage from toilets and kitchens should be discharged directly into a foul sewer. If it is not possible to locate the site offices within easy access of a foul sewer a septic tank and soakaway should be constructed before the offices are occupied. Chemical toilets should be emptied on a daily basis and the contents taken to a foul sewer or the Sha Tin Sewage Treatment Works for disposal. Wastewater collected from canteen kitchens should be discharged to the foul sewers via grease traps which provide a minimum of 20 minutes retention during peak flow. All discharges into foul sewers and storm sewers should have to be complied with TM standards under WPCO.</li> </ul>	Contractor	Not Applicable
		<ul> <li>Run off from roofed surfaces of site facilities should be collected and diverted to a storm water drain.</li> <li>Passage through a silt trap is only required if the water is diverted via open .channels which might accumulate solids during non-rainy periods or which intercept surface run off from unpaved areas.</li> </ul>	Contractor	Not Applicable
		<ul> <li>Discharges from the site shall be required to meet the terms and conditions of a valid WPCO Water Pollution Control Ordinance (WPCO).</li> </ul>	Contractor	Implemented
		<ul> <li>Regular site inspection of the construction works shall be carried out to determine compliance with the Inspection should be included:</li> </ul>	e recommended n	nitigation measures.
		(i) The functioning of onsite surface water collection channels and sediment traps.	Contractor	Partially Implemented
		(ii) The functioning of interception channels at the boundary of the works areas	Contractor	Implemented
		(iii) The covering of stockpiles of fill and construction materials and the routing of any run off through the sediment traps.	Contractor	Implemented
Section 12.6 of the		(iv) The pumping procedures for emptying trenches and other excavations and the use of silt traps prior to the discharge of the water to the storm water system.	Contractor	Implemented
Approved EIA Report		(v) The use of washwater for hosing down concrete mixing and delivery vehicles and other vehicles leaving the site and the routine of excess water from the facility through sediment traps.	Contractor	Not Applicable
		(vi) The operation of the plant maintenance areas to control small spillages and the correct management of the fuel storage bunded area.	Contractor	Not Applicable
		(vii) The connection of the site office wastewater discharge to an existing foul sewer if appropriate or the operation of the kitchen wastewater grease trap and the regular emptying of the chemical toilets	Contractor	Not Applicable
		(viii)The operation of the roof rain water collection and drainage system.	Contractor	Not Applicable
		Landscape and Visual Mitigation Measures		
Table 6.5		Construction Phase		

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		• Existing trees shall be preserved as much as possible. Detailed tree preservation and transplanting proposals shall be submitted to relevant government departments for approval in accordance with DEVB TC (W) No. 7/2015.		Implemented
	During construction	• Topsoil will be conserved as far as possible during the road improvement works and utilized during the replanting operations. The stock piling height of the topsoil will not be more than 2m.	Contractor	Implemented
	within the Project	<ul> <li>Old and valuable trees (OVTs) identified in the Project Boundary shall be protected in accordance with ETWB TCW no. 29/2004.</li> </ul>	Contractor	Implemented
	Boundary.	<ul> <li>Night-time lighting glare shall be properly managed and control during construction so as to minimize any adverse visual impact on adjacent VSRs.</li> </ul>	Contractor	Not Applicable
		• Decorative screen hoarding with design compatible with the surrounding landscape setting shall be erected along the southern boundary of Tai Po Road to mitigate any potential adverse impact on adjacent Pedestrian and Cyclists on Footpath/Bicycle Track.		Not Applicable
		Operation Phase		
		• Compensatory planting shall be provided within and outside the project boundary where possible. Detailed compensatory planting proposal will be prepared in accordance with DEVB TC (W) No. 7/2015.	Contractor	Not Applicable
	During	<ul> <li>Planting shall be undertaken at the earliest practical time in the construction period. The planting proposal shall aim to strengthen the existing tree species and supplement the existing tree planting to provide an effective screen to ameliorate any potential landscape and visual impacts. The proposed species to be utilized for road improvement works shall be agreed with LCSD and future maintenance authorities. All the proposed species for compensatory planting shall be suitable for roadside streetscape planting.</li> </ul>	Contractor	Not Applicable
	within the Project Boundary.	• Provision of visually pleasing noise barriers and enclosures design shall be proposed. The design of these structures aims to minimize any potential visual impact and visually integrate the proposed structures into the adjacent landscape context. This should be achieved through the use of form, color, tones, materials and planting materials.	Contractor	Not Applicable
		<ul> <li>Aesthetically pleasing hard landscape treatment of the carriageway and roadside furniture shall be proposed, including development of chromatic themes in the architectural treatment of engineering structures, and the consideration of landscape lighting and special landscape features.</li> </ul>	Contractor	Not Applicable
		• Shrubs and climbers planting are proposed on the facade of Noise Enclosures and Barriers to mitigate any adverse impact on adjacent VSRs in area where space for tree planting is not feasible.	Contractor	Not Applicable

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase				
Waste Management Measures								
7.6.2 to 7.6.4	Within the boundaries of	• In accordance with ETWB TC (W) No. 19/2005 - Environmental Management on Construction Sites", the Contractor shall prepare and implement a Waste Management Plan (WMP) as part of the Environmental Management Plan (EMP). The EMP shall describes the arrangements for avoidance, reuse, recovery, recycling, storage, collection, treatment and disposal of different categories of waste to be generated from the construction activities. Such a management plan should incorporate site specific factors, such as the designation of areas for segregation and temporary storage of reusable and recyclable materials. The EMP should be submitted to the Engineer for approval.	Contractor	Implemented				
	all	• The Contractor should implement the waste management practices in the EMP throughout the construction stage of the Project. The EMP should be reviewed regularly and updated by the Contractor.	Contractor	Implemented				
		• Recommendations of good site practices and waste reduction measures should be stated in order to achieve avoidance and minimization of waste generation in the hierarchy.	Contractor	Implemented				
7.6.5 to 7.6.6		<ul> <li>Environmental Management Plan (EMP) and trip-ticket system shall be implemented for monitoring management of waste.</li> </ul>	Contractor	Implemented				
		• Specific measures targeting the mitigation of impacts in works areas and the transportation of spoil off-site should be provided to minimize the potential impacts to the surrounding environment.	Contractor	Implemented				
7.6.7	Within the boundaries of all construction	• To facilitate adoption of the best-practice philosophy, training shall be provided to all personnel working on site. The training shall promote the concept of general site cleanliness and clearly explain the appropriate waste management procedures defined in the EMP. Overall, the training should encourage all workers to reduce, reuse and recycle wastes.	Contractor	Implemented				
	sites as well as	The contractor's environmental performance shall be monitored and controlled through the weekly environmental walks shall include:		ks. The items after the				
	transportatio n routes to	<ul> <li>A review of the EMP in particular the suitability of the environmental measures on nuisance abatement and waste management adopted by the contractor;</li> </ul>	Contractor	Implemented				
7.6.8 to 7.6.9	designed	<ul> <li>The environmental performance of the contractor and his sub-contractors;</li> </ul>	Contractor	Implemented				
1.0.0 10 1.0.9	site disposal	<ul> <li>The effectiveness of the environmental measures on nuisance abatement and waste management implemented on the site, and any complaints received; and</li> </ul>	Contractor	Implemented				
	of materials/Pri	<ul> <li>The promptness of rectification or improvement actions of the Contractor on the defects and deficiencies identified during inspections of the site.</li> </ul>	Contractor	Implemented				
	or to and	· Waste shall only be disposed of at licensed sites and the WMP should include procedures to	Contractor	Implemented				

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
	construction	ensure that illegal disposal of wastes does not occur. Only waste haulers authorized to collect the specific category of waste concerned should be employed and a trip ticket system shall be implemented for offsite disposal of inert C&D materials and non-inert C&D materials at public fill reception facilities and landfills, respectively. Appropriate measures should be employed to minimize windblown litter and dust during transportation by either covering trucks or transporting wastes in enclosed containers.		
7.6.10		<ul> <li>Work site(s) shall be arranged and managed to facilitate the proper management of wastes and materials. The WMP shall include plans indicating specific areas designated for the storage of particular types of waste, reusable and recyclable materials as well as areas and management proposals for any stockpiling areas. Waste storage areas should be well maintained and cleaned regularly. Specific provisions for different types of material are outlined below. In general, these areas should be designed to avoid cross contamination of materials as well as pollution of the surrounding environment.</li> </ul>	Contractor	Implemented
		<ul> <li>In order to minimize the impact resulting from collection and transportation of C&amp;D material for off- site disposal, the excavated fill materials should be reused on site as backfill material as far as possible.</li> </ul>		Implemented
		<ul> <li>Careful design, planning and good site management should be maintained in order to minimise over ordering and generation of surplus materials such as concrete, mortars and cement grouts. The design of formwork should maximise the use of standard wooden panels so that high reuse levels can be achieved. Alternatives such as steel formwork or plastic facing should be considered to increase the potential for reuse.</li> </ul>	Contractor	Implemented
7.6.11 to 7.6.14		<ul> <li>C&amp;D materials should be segregated on site into different waste and material types. The Contractor should clearly demonstrate in the EMP how he intends to maximise the reuse of C&amp;D material on-site. Where reuse of materials on site is not feasible, the Contractor should explore opportunities for recycling materials off-site, and inert C&amp;D materials shall be reused on site as much as possible.</li> </ul>	Contractor	Implemented
		<ul> <li>Paving bricks arising from existing pavement should be recycled on site as much as possible.</li> </ul>	Contractor	Not Applicable
		<ul> <li>Existing marginal roadside barriers comprise pre-cast units should be reused in the following widening works as much as possible,</li> </ul>	Contractor	Not Applicable
		<ul> <li>Existing bridge parapets comprise aluminum post and railings, which have a recyclable value and should be sold for reconditioning or reused for scrap metal as much as possible</li> </ul>	Contractor	Not Applicable

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		<ul> <li>Any stockpile should be sited away from existing watercourses and suitably covered to prevent wind erosion and impacts on air and water quality.</li> </ul>	Contractor	Implemented
		<ul> <li>Chemical waste shall be handled in accordance with the Code of Practice on the Packaging, Hand as follows. Containers used for the storage of chemical wastes shall</li> </ul>		of Chemical Wastes
		<ul> <li>be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed;</li> </ul>	Contractor	Implemented
		<ul> <li>have a capacity of less than 450L unless the specifications have been approved by the EPD; and</li> </ul>	Contractor	Implemented
		<ul> <li>display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Waste Disposal (Chemical Waste) (General) Regulation (Cap. 354C).</li> </ul>	Contractor	Implemented
		The storage area for chemical wastes should:		
		<ul> <li>be clearly labelled and used solely for the storage of chemical waste;</li> </ul>	Contractor	Implemented
		<ul> <li>be enclosed on at least 3 sides;</li> </ul>	Contractor	Implemented
7.6.15 to 7.6.17		<ul> <li>have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest;</li> </ul>	Contractor	Implemented
7.0.17		have adequate ventilation;	Contractor	Implemented
		<ul> <li>be covered to prevent rainfall entering (water collected within the bund must be tested and disposed as chemical waste if necessary); and</li> </ul>	Contractor	Implemented
		<ul> <li>be arranged so that incompatible materials are adequately separated.</li> </ul>	Contractor	Implemented
		The Contractor shall register with EPD as a Chemical Waste Producer. Waste oils and other chemica (Chemical Waste) (General) Regulation will require disposal by appropriate means and could require Appropriate means include disposal:		
		<ul> <li>via a licensed waste collector; and</li> </ul>	Contractor	Implemented
		<ul> <li>to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Facility which also offers a chemical waste collection service and can supply the necessary storage containers; or</li> </ul>		Implemented
		<ul> <li>to a reuser of the waste, under approval from EPD.</li> </ul>	Contractor	Not Applicable
7.6.18 to 7.6.20		<ul> <li>General refuse generated on-site should be stored in enclosed bins or compaction units separate from construction and chemical wastes. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily or every second day basis to minimize odour, pest and litter</li> </ul>	Contractor	Implemented

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		impacts. The burning of refuse on construction sites is prohibited by law.		
		<ul> <li>Separate labelled bins should be provided if feasible.</li> </ul>	Contractor	Not Observed
		• Office waste can be reduced through recycling of paper if volume is large enough to warrant collection. Participation in a local collection scheme should be considered if one is available.	Contractor	Not Observed
7.7.1		<ul> <li>All wastes produced during the construction of the Project shall be handled, stored, and disposed of in accordance with good waste management practices and relevant regulations and requirements.</li> </ul>	Contractor	Implemented
		<ul> <li>The mitigation measures recommended in the EIA/EIA review report should form a basis of the WMP to be developed by the Contractor in the construction phase of the Project.</li> </ul>	Contractor	Implemented
EP 1.5		General Condition		
N.A	within the Project Boundary.	• The Permit Holder shall display conspicuously a copy of this Permit on the Project site(s) at all vehicular site entrance/exits or at a convenient location for public information at all times. The Permit Holder shall ensure that the most updated information about the Permit, including ant amended Permit, is displayed at such locations. If the Permit Holder surrenders a part or the whole of the Permit, the notice he sends to the Director shall also be displayed at the same locations as the original Permit. The suspended, varied or cancelled Permit shall be removed from display at the Project site(s).	Contractor	Implemented

Implementation status: Implemented / Partially Implemented / Not Implemented / Not Observed / Not Applicable

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Appendix K

Weather and Meteorological Conditions during Reporting Month

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_	Mean		Air Temperature	Mean Relative	Total	
Date	Pressure (hPa)	Maximum (deg. C)	Mean (deg. C)	Minimum (deg. C)	Humidity (%)	Rainfall (mm)
	-	-	August 2019		-	
01	1000.1	27.6	26.4	24.9	94	98.3
02	1002.1	28.5	27.0	25.4	91	8.2
03	1002.7	27.5	26.7	25.3	91	28.4
04	1002.7	30.2	27.9	26.9	83	Trace
05	1003.1	34.5	29.7	26.5	77	0.0
06	1002.7	32.2	29.8	28.7	78	Trace
07	1000.7	33.6	30.1	28.0	70	0.0
08	998.5	33.5	30.4	27.7	74	0.0
09	997.2	35.1	31.3	28.1	75	0.0
10	999.0	33.2	30.6	29.4	83	0.0
11	1000.7	32.7	30.4	29.2	82	1.1
12	1001.6	34.0	30.8	29.2	80	0.4
13	1001.7	33.3	30.8	28.8	79	9.2
14	1002.0	33.4	30.0	25.2	80	54.4
15	1001.9	32.4	30.0	26.5	79	5.6
16	1003.4	32.0	30.0	27.6	81	1.1
17	1005.6	30.1	28.0	25.9	87	42.2
18	1005.1	31.6	27.8	25.0	86	19.0
19	1003.9	31.8	28.8	26.8	83	0.1
20	1004.8	31.7	29.1	28.0	79	Trace
21	1005.9	32.8	29.5	27.6	74	0.0
22	1006.6	33.0	29.7	27.5	77	0.0
23	1006.7	31.4	29.4	28.2	80	0.7
24	1002.3	33.9	30.9	27.7	75	0.0
25	1000.8	32.6	27.2	25.1	89	88.4
26	1006.3	28.7	25.7	22.9	95	178.3
27	1008.1	31.4	28.6	26.9	88	2.9
28	1006.2	33.8	29.9	27.2	77	0.0
29	1005.6	30.7	29.0	27.8	83	5.9
30	1007.6	30.1	27.7	25.0	86	8.5
31	1007.8	30.3	26.9	25.0	91	43.7

Source: Hong Kong Observatory

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Appendix L

Cumulative statistics on Environmental Complaints, Notifications of Summons and Successful Prosecutions

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### **Environmental Complaints Log**

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2019- 005	13/2/2019	EPD	CCZJV	Noise	13/2/2019	According to the photo taken from the complainant, the complaint was related to the project. Although the tree felling works were covered by the valid CNP (GW-RN0783-18), Contractor was reminded to strictly follow and fully comply with the CNP conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating during restricted hour. Contractor was recommended to increase the frequency of using the electrical chain saw instead of the diesel chain saw for reducing the noise impact. Environmental Team conducted additional ad-hoc noise monitoring on 19:00 14th February 2019 to 07:00 15 <sup>th</sup> February 2019 for evaluate the effectiveness on the proposed mitigation measures. No project-related noise exceedance case on 14-15 Feb 2019 Contractor's night tree-felling and removal works. The proposed mitigation measures were effective for noise impact.	20/2/2019
COM-2019- 006	22/2/2019	Project Hotline of NE/2017/05	CCZJV	Noise	26/2/2019	According to the location of complainant from Kwai Wo House, the complaint was related to the project. Although the tree felling works were covered by the valid CNP (GW-RN0783-18), Contractor was reminded to strictly follow and fully comply with the CNP conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating during restricted hour. An extended barrier at the top acts as a cantilever shape was recommended to	4/3/2019

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						modify the existing semi-enclosure installed in the cherry picker Also, three sides with top as a semi- enclosure to be used and those tree felling activities should be inside the semi-enclosure in the ground slope. The main contractor had been recommended to review their works program and methods of tree felling as to minimize the night time tree felling activities.	
COM-2019- 0010	28/3/2019	Project Hotline of NE/2017/05	CCZJV	Noise	28/3/2019	The complaint case should be related to the MTR night time maintenance works. Main Contractor used portable phones and head-set only for communication, and none of loudspeakers were allowed to be used. Main Contractor handled of tree debris into the lorry skip in care when loading. Besides, a layer of soft material (soil/tree debris) was observed leaving inside the skip of the grab lorry to reduce the loading noise. Contractor was reminded to strictly follow and fully comply with the CNP (GW-RN0132-19) conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating during restricted hour.	4/4/2019
COM-2019- 0033	26/7/2019	Police visit on-site	CCZJV	Noise	26/7/2019	The complaint is related to the project. The Main Contractor comply with CNP No.: GW-RN0443-19 allowable construction site and within the site boundary to carry out night work on tree felling and the clearance of felled tree debris during the restricted hour. Contractor was reminded to strictly follow and fully comply with the CNP (GW- RN0443-19) conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating during restricted hour. Contractor was recommended to increase the frequency of using the electrical chain saw instead of the diesel chain saw for	30/7/2019

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						reducing the noise impact. Contractor was reminded to reschedule of tree felling arrangement that most of the fell branches and trunks were temporary laid on slope and arranged to cut smaller on Day Time to minimize the noise nuisance to the nearby NSRs.	
COM-2019- 0045	30/8/2019	1823	CCZJV	Noise	30/8/2019	The complaint case is still under ET's investigation.	

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### **Cumulative Statistics on Complaints**

Environmental Parameters	Cumulative No. Brought Forward	No. of Complaints This Month	Cumulative Project- to-Date
Air	0	0	0
Noise	4	1	5
Water	0	0	0
Waste	0	0	0
Total	0	0	0

### Cumulative Statistics on Notification of Summons and Successful Prosecutions

Environmental Parameters	Cumulative No. Brought Forward	No. of Notification of Summons and Prosecutions This Month	Cumulative Project- to-Date
Air	0	0	0
Noise	0	0	0
Water	0	0	0
Waste	0	0	0
Total	0	0	0

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Appendix M

Summary of Site Audit in the Reporting Month

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### Summary of Site Audit in the Reporting Month

Parameters	Date	Observations and Recommendations	Follow-up			
Air Quality	22 August 2019	Reminder: 1. Keep the ground surface wet by spraying water frequently in Zone 4 (N04).	NA			
Noise		No deficiency was found during the repo	rting month.			
	8 August 2019	<ul> <li>Reminder:</li> <li>1. Enhance the bunding at Zone 5 exit (North Bound).</li> <li>2. Remove the tree branches at Zone 5 (North Bound).</li> </ul>	NA			
	15 August 2019	Observation: 1. Replace the damaged sandbags near S06 exit.	1. The broken sandbags were removed on 16/8/2019.			
Water Quality	28 August 2019	Observation: 1. Increase the efficiency of sedimentation of the S05 sedimentation tank.	1. The sedimentation tank at the exit 05 is maintained well on 29/8/2019.			
		Reminder: 1. Prevent the surface run-off from flowing into the storm drain (Zone 2).	NA			
Chemical and	22 August 2019	Reminder: 1. Clear the waste materials in Zone 3 (RW 07).	NA			
Waste Management	28 August 2019	Reminder: 1. Waste Materials should be packed properly (Zone 2).	NA			
Land Contamination	No deficiency was found during the reporting month					
Landscape and Visual Impact	No deficiency was found during the reporting month.					
General Condition		No deficiency was found during the report	rting month.			